DAIKIN

technical data

air conditioning systems

VRV-WII Heat Pump

RWEYQ-MY1

VRV®-WII

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RWEYQ-MY1

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1 Specifications

1-1 TECHNICAL SPECIFICATIONS				RWEYQ10MY1	RWEYQ20MY1	RWEYQ30MY1
Capacity	Cooling		kW	27.30	54.60	81.90
	Heating		kW	31.50	63.00	94.50
Capacity range			HP	10	20	30
Power input (Nominal)	Cooling		kW	6.03	12.10	18.10
	Heating		kW	6.05	12.10	18.20
Max n° of indoor units to be connected				16	20	32
Casing	Colour			Ivory white (5Y7,5/1)		
Dimensions	Unit	Height	mm	1000	1000 x 2	1000 x 3
		Width	mm	780	780 x 2	780 x 3
		Depth	mm	550	550 x 2	550 x 3
Weight	Machine Weight		kg	150	300	450
Compressor	Quantity			1	2	3
	Motor	Quantity		1	1	1
		Type		Hermetically sealed scroll compressor		
		Speed	rpm	6900	6900	6900
		Motor Output	kW	4.2	4.2	4.2
		Starting Method		Soft start		
		Quantity		-	1	1
		Type		-	Hermetically sealed scroll compressor	Hermetically sealed scroll compressor
		Speed	rpm	-	6900	6900
		Motor Output	kW	-	4.2	4.2
		Starting Method		-	Soft start	Soft start
		Quantity		-	-	1
		Type		-	-	Hermetically sealed scroll compressor
		Speed	rpm	-	-	6900
		Motor Output	kW	-	-	4.2
		Starting Method				Soft start
Sound Level	Cooling	Sound Pressure	dBA	51.0	54.0	56.0
Refrigerant	Name			R-410A		
	Charge		kg	5.2	10.4	15.6
	Control			Expansion valve (electronic type)		
Refrigerant Oil	Name			Synthetic (ether) oil		
Piping connections	Liquid (OD)	Type		Flare connection		
		Diameter (OD)	mm	9.5	15.9	19.1
	Discharge Gas	Type		Braze connection		
		Diameter (OD)	mm	22.2	28.6	34.9
	Water inlet			PT 1 1/4B internal thread		
	Water outlet			PT 1 1/4B internal thread		
	Drain outlet			PS 1/2 internal thread		
Capacity Control				23 to 100	11 to 100	8 to 100
Safety devices				HPS		
				Inverter overload protector		
				Fusible plugs		
Standard Accessories	Standard Accessories			Installation and operation manual		
	Quantity			1	1	1
	Standard Accessories			Connection pipes		
	Standard Accessories			Clamps		

1 Specifications

NOTES

1 Nominal cooling capacities are based on :
- indoor temperature : 27°CDB, 19°CWB
- inlet water temperature : 30°C
- equivalent refrigerant piping : 7.5m
- level difference : 0m

2 Nominal heating capacities are based on :
- indoor temperature : 20°CDB
- inlet water temperature : 20°C
- equivalent refrigerant piping : 7.5m
- level difference : 0m

3 This unit should not be installed outdoors, but indoors eg. in a machine room, etc.

4 Indoor operating ambient temperature: 0 ~ 40°C. Heat rejection from the outdoor unit: 0,71kW/10HP.

5 Dimensions of the 20HP and 30HP units depend on the method of stacking. For more details, please refer to the Service Space drawing.

1 - 2 Water flow head loss

WATER VOLUME	L/min	50	60	96	120	150
Head loss	kPa	11.3	19.0	26.5	39.6	52.5
	mH_2O	1.2	1.9	2.7	4.1	5.3

1-3 ELECTRICAL SPECIFICATIONS				RWEYQ10MY1	RWEYQ20MY1	RWEYQ30MY1
Power Supply	Name			Y1		
	Phase			3	3	3
	Frequency		Hz	50	50	50
	Voltage		V	380-415		
Current	Nominal running current (RLA)	Cooling	A	9.50	19.00	28.50
		Heating	A	9.50	19.00	28.50
	Minimum circuit amps (MCA)		A	12.60	25.30	37.90
	Maximum fuse amps (MFA)		A	25.00	35.00	45.00
	Total overcurrent amps (TOCA)		A	13.50	27.00	40.50
Voltage range	Minimum		V	342	342	342
	Maximum		V	456	456	456

NOTES

1 RLA is based on following conditions :
- indoor temperature : 27°CDB/19°CWB
- outdoor temperature : 35°CDB

2 TOCA means the total value of each OC set

3 MSC means the maximum current during start up of the compressor

4 Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits

5 Maximum allowable voltage range variation between phases is 2%

6 Select wire size based on the value of MCA or TOCA

7 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)

8 For more details concerning conditional connections, see http://www.daikineurope.com/extranet, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button. Finally, click on the document title of your choice.

2 Options

2 - 1 Option list

RWEYQ-MY1

HEAT RECOVERY / HEAT PUMP		RWEYQ10MY1	RWEYQ20MY1	RWEYQ30MY1
COOL/HEAT SELECTOR		KRC19-26A		
FIXING BOX		KJB111A		
REFNET HEADER	Heat recovery	KHRQ23M29H	KHRQ23M29H, KHRQ23M64H, KHRQ23M75H	
	Heat pump	KHRQ22M29H	KHRQ22M29H, KHRQ22M64H, KHRQ22M75H	
REFNET JOINT	Heat recovery	KHRQ23M20T, KHRQ23M29T	KHRQ23M20T, KHRQ23M29T, KHRQ23M64T, KHRQ23M75T	
	Heat pump	KHRQ22M20T, KHRQ22M29T	KHRQ22M20T, KHRQ22M29T, KHRQ22M64T, KHRQ22M75T	
OUTDOOR UNIT MULTI CONNECTION PIPING KI	Heat recovery	-	BHFP26MA56	BHFP26MA84
	Heat pump	-	BHFP22MA56	BHFP22MA84
WATER PIPING STRAINER		BWU26A15 (1.47MPa); BWU26A20 (1.96MPa)		

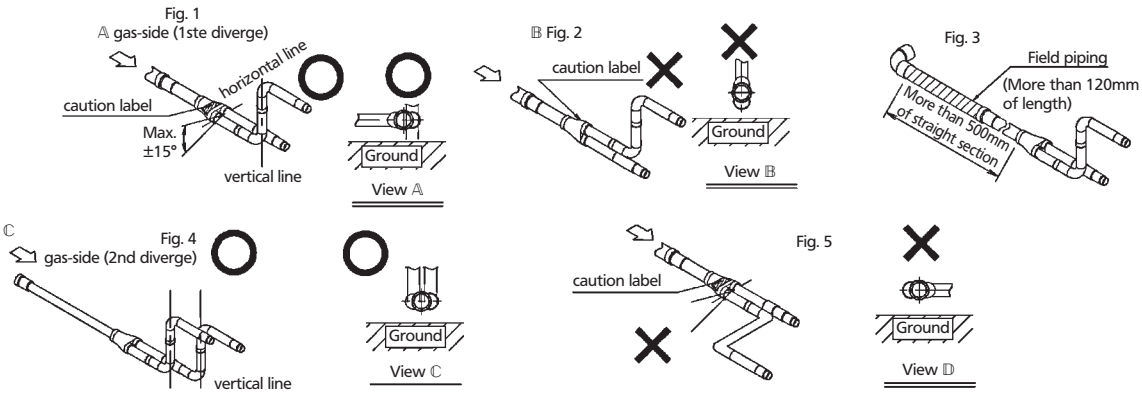
2 - 2 Detailed info

2 - 2 - 1 Outdoor unit multi connection piping (BHFP22MA56/BHFP22MA84)

2 - 2 - 1 - 1 General

① **Restrictions on installing multi connection piping kit**

- Install the joint horizontally so that the caution label attached to joint comes to the top. Do not tilt the joint more than ±15°. (See Fig. 1). In addition, do not install the joint vertically. (See Fig. 2)
- Make sure the piping up to the joint is straight for more than 500 mm. Do not bend the field piping within this range.
  If a straigth field piping more than 120mm is connected, more than 500mm of straight section can be ensured. (See Fig. 3)
- Improper installation may lead to malfunction of the outside unit.
- Set up the part of L bend of the gas piping to be vertical and upward after it diverges. (See Fig. 1.4)
- In addition, do not install it as shown in Fig 5.



2 Options

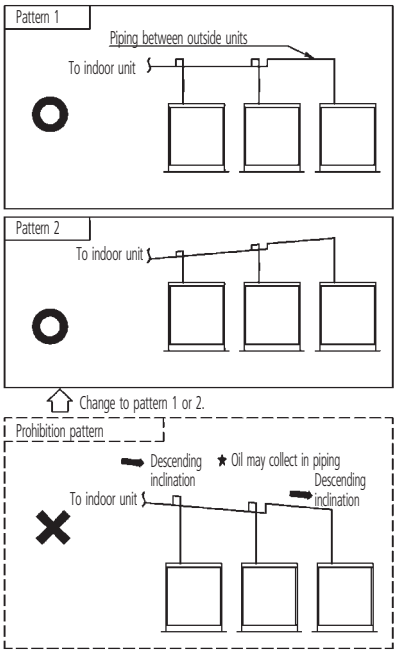
2 - 1 Option list

2 - 2 - 1 Outdoor unit multi connection piping (BHFP22MA56/BHFP22MA84)

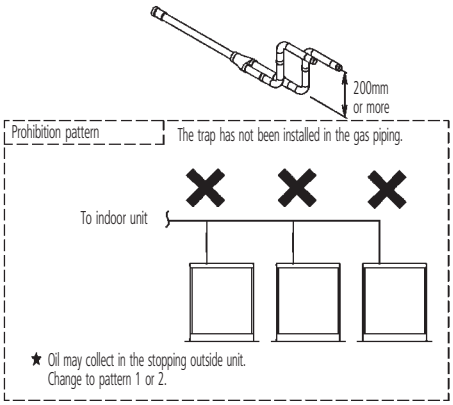
2 - 2 - 1 - 1 General

② Restrictions on piping between outside units

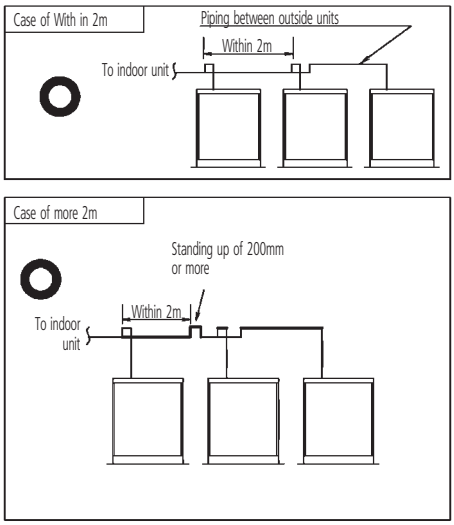
1 Set it up to become the horizontal or uphill so that oil might collect in piping as for the piping between outside units.



2 Take the trap of 200mm or more in the gas piping by using accessory pipe attached to this kit, after it diverges. The refrigerative collects in piping and it causes the outside unit breakdown.



3 Install standing up of 200mm or more from the kit between the outside unit connection piping kits to the position within 2m only in gas tube.



2 Options

2 - 1 Option list

2 - 2 - 1 Outdoor unit multi connection piping (BHFP22MA56/BHFP22MA84)

2 - 2 - 1 - 2 Installation examples

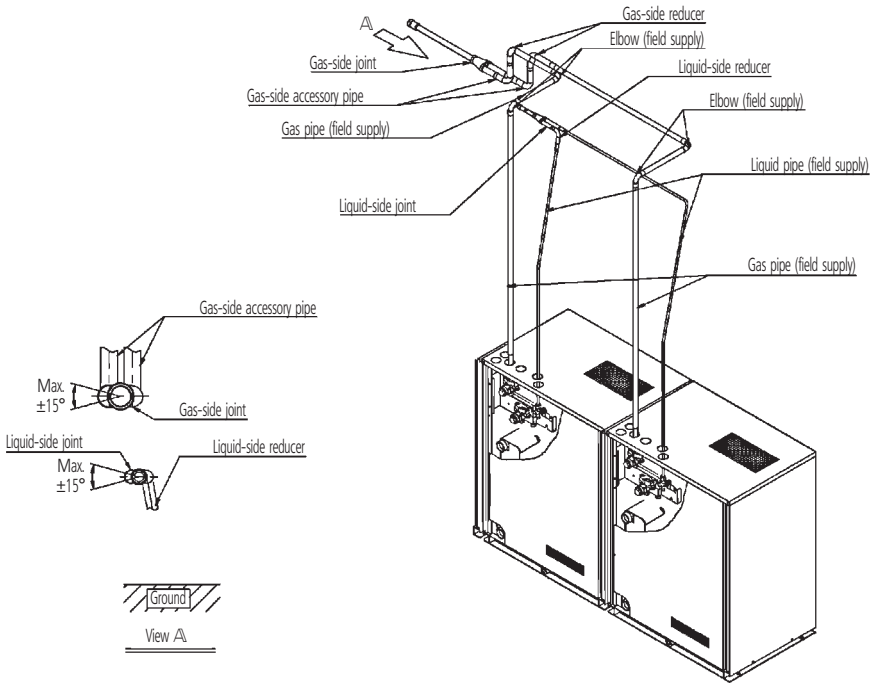
① Installation examples: Procedure for upper connection (BHFP22MA56)

Connection of gas and liquid pipes

2

Please be sure to read “Restrictions on installing multi connection piping kit” and “Restriction on piping between outside units”.

- Connect the gas liquid pipes as shown in the figure at the right. (When connecting the pipes, first connect the gas-side joint, the gas-side accessory pipe and the gas side reducer, the liquid-size joint and the liquid-size reducer.)
- See the caution section in the installation manual attached to the outside unit for brazing pipes and connecting pipes with flare nuts.
- Install the joint in such a way that the attached face of the caution label becomes horizontal (See the view A).

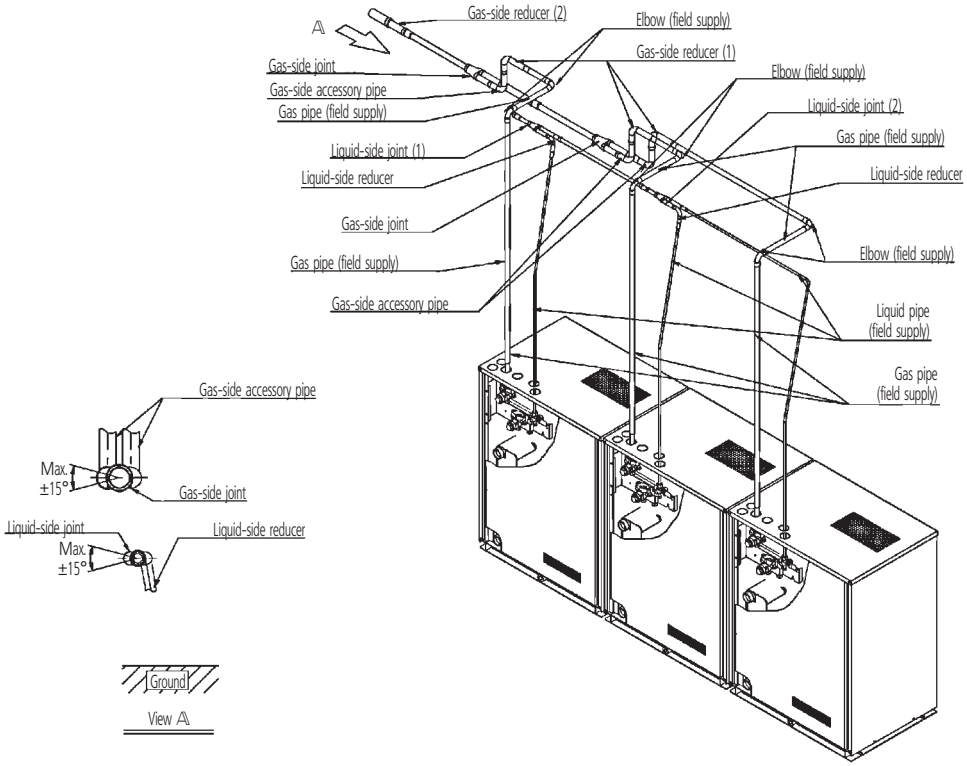


② Installation examples: Procedure for upper connection (BHFP22MA84)

Connection of gas and liquid pipes

Please be sure to read “Restrictions on installing multi connection piping kit” and “Restriction on piping between outside units”.

- Connect the gas liquid pipes as shown in the figure at the right. (When connecting the pipes, first connect the gas-side joint, the gas-side accessory pipe and the gas side reducer, the liquid-size joint and the liquid-size reducer.)
- See the caution section in the installation manual attached to the outside unit for brazing pipes and connecting pipes with flare nuts.
- Install the joint in such a way that the attached face of the caution label becomes horizontal (See the view A).

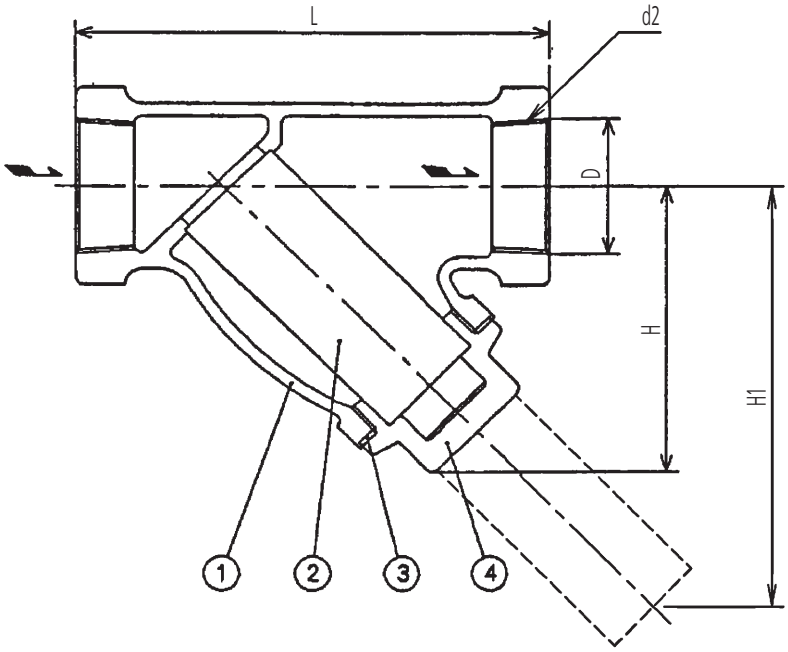


2 Options

2 - 1 Option list

2 - 2 - 2 Water piping strainer (BWU26A15/BWU26A20)

2 - 2 - 2 - 1 Dimension



	Dimension					Material			
	Diameter	H	L	d2	H1	①	②	③	④
BWU26A15	1 1/4	82	135	RC1 1/4	130	CAC	SUS304	Non Abestos Casket	C377BEE
BWU26A20	1 1/4	90	135	RC1 1/4	130	FCD-S	SUS304	Non Abestos Seet Gasket	C3771BE

2 - 2 - 2 - 2 Specification

Use fluid: Pluse water of 100°C or less

Use temperature: 0°C ~ 70°C

Design pressure: BWU26A15 (1.4 Mpa), BWU26A20 (1.96 Mpa)

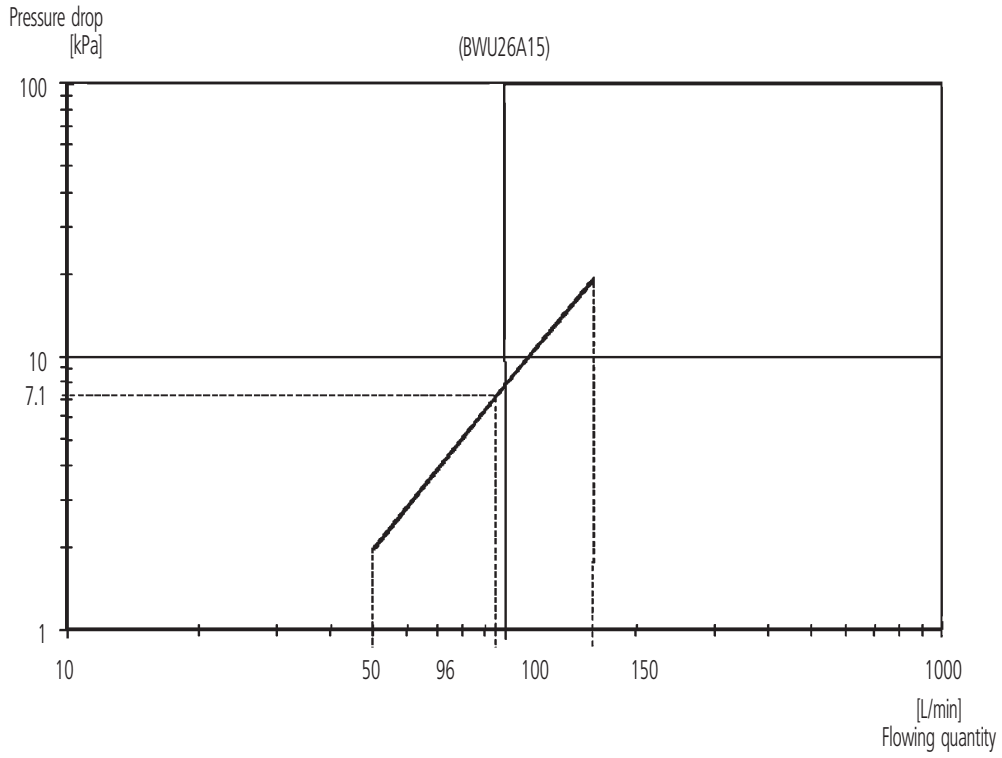
Mesh size: 50 mesh

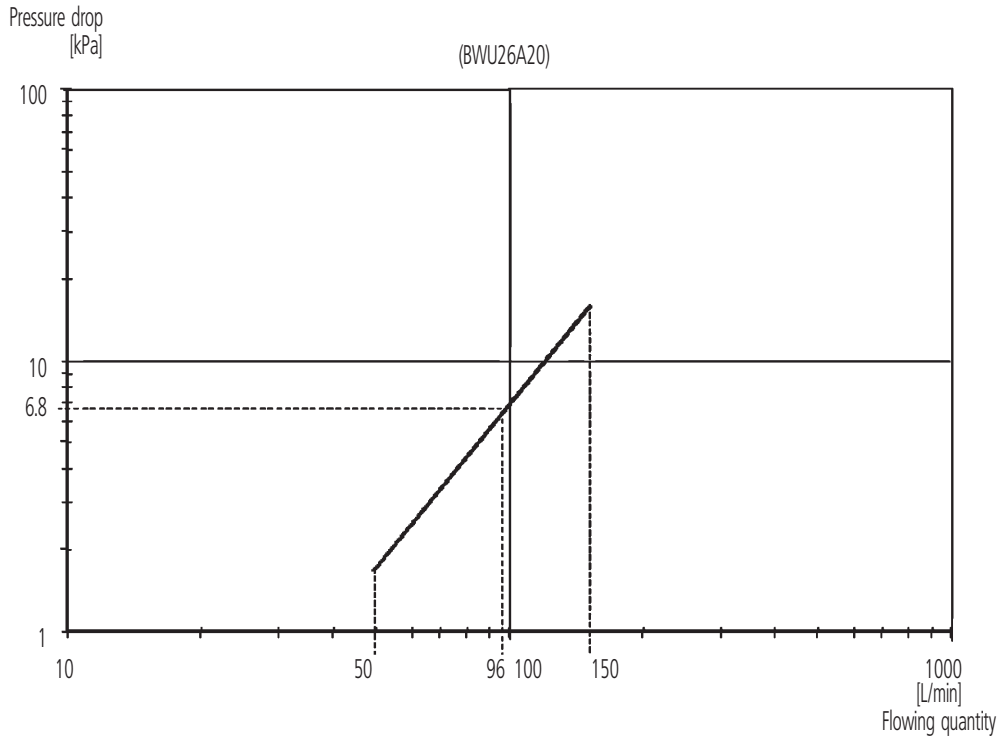
2 Options

2 - 1 Option list

2 - 2 - 2 Water piping strainer (BWU26A15/BWU26A20)

2 - 2 - 2 - 3 Flowing quantity characteristic





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3 Capacity tables

3 - 1 Cooling capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	50	23.4	3.48	17.7	27.9	4.63	19.3	30.5	4.90	20.2	31.0	4.92	20.3	31.4	4.94	20.4	32.1	4.97	20.6	32.6	4.99	20.8
		60	23.4	3.41	16.4	27.9	4.54	17.8	30.7	4.85	18.5	31.1	4.87	18.6	31.5	4.89	18.7	32.2	4.92	18.9	32.8	4.94	19.0
		96	23.4	3.24	14.0	27.9	4.31	14.8	31.1	4.72	15.3	31.5	4.74	15.4	31.9	4.76	15.5	32.7	4.79	15.6	33.2	4.81	15.7
		120	23.4	3.18	13.2	27.9	4.22	13.8	31.2	4.67	14.3	31.7	4.69	14.3	32.1	4.71	14.4	32.8	4.74	14.5	33.4	4.76	14.6
	15	50	23.4	3.60	22.7	27.9	4.79	24.4	30.0	5.04	25.0	30.4	5.06	25.2	30.8	5.08	25.3	31.5	5.11	25.5	32.0	5.13	25.6
		60	23.4	3.53	21.4	27.9	4.70	22.8	30.1	4.99	23.4	30.6	5.01	23.5	31.0	5.03	23.6	31.6	5.06	23.8	32.2	5.08	23.9
		96	23.4	3.35	19.0	27.9	4.46	19.8	30.5	4.85	20.3	30.9	4.88	20.3	31.4	4.90	20.4	32.1	4.93	20.5	32.6	4.95	20.6
		120	23.4	3.29	18.2	27.9	4.37	18.9	30.6	4.80	19.2	31.1	4.82	19.3	31.5	4.84	19.3	32.2	4.88	19.4	32.8	4.90	19.5
	20	50	23.4	3.74	27.8	27.9	4.98	29.4	29.3	5.18	29.9	29.7	5.21	30.0	30.1	5.23	30.1	30.7	5.26	30.3	31.2	5.28	30.4
		60	23.4	3.67	26.5	27.9	4.89	27.8	29.4	5.13	28.3	29.8	5.16	28.4	30.2	5.18	28.5	30.9	5.21	28.6	31.3	5.23	28.7
		96	23.4	3.49	24.0	27.9	4.64	24.9	29.8	4.99	25.2	30.2	5.02	25.3	30.6	5.04	25.3	31.3	5.07	25.4	31.8	5.09	25.5
		120	23.4	3.42	23.2	27.9	4.55	23.9	29.9	4.94	24.2	30.4	4.96	24.2	30.8	4.98	24.3	31.4	5.01	24.4	31.9	5.03	24.4
	25	50	23.4	4.41	33.0	27.5	5.70	34.5	28.4	5.76	34.8	28.8	5.79	34.9	29.2	5.81	35.0	29.7	5.84	35.2	30.1	5.86	35.3
		60	23.4	4.33	31.6	27.6	5.65	32.9	28.6	5.71	33.2	28.9	5.73	33.3	29.3	5.75	33.4	29.9	5.78	33.5	30.3	5.80	33.6
		96	23.4	4.11	29.1	27.9	5.48	30.0	28.9	5.55	30.1	29.3	5.58	30.2	29.7	5.60	30.3	30.3	5.63	30.4	30.7	5.65	30.4
		120	23.4	4.03	28.3	27.9	5.37	29.0	29.0	5.49	29.1	29.5	5.52	29.2	29.8	5.54	29.2	30.4	5.57	29.3	30.9	5.59	29.4
	30	50	23.4	5.22	38.2	26.5	6.28	39.4	27.4	6.35	39.7	27.7	6.37	39.8	28.1	6.39	39.9	28.6	6.42	40.0	28.9	6.43	40.1
		60	23.4	5.13	36.8	26.6	6.22	37.9	27.5	6.29	38.1	27.9	6.31	38.2	28.2	6.33	38.2	28.7	6.36	38.4	29.1	6.37	38.5
		96	23.4	4.86	34.2	27.0	6.05	34.9	27.9	6.11	35.1	28.2	6.14	35.1	28.6	6.16	35.2	29.1	6.19	35.3	29.5	6.20	35.3
		120	23.4	4.77	33.4	27.1	5.99	34.0	28.0	6.05	34.1	28.4	6.08	34.1	28.7	6.10	34.2	29.3	6.13	34.2	29.6	6.14	34.3
	35	50	23.4	6.24	43.5	25.4	6.87	44.2	26.2	6.94	44.5	26.5	6.96	44.6	26.8	6.98	44.7	27.2	7.00	44.8	27.4	7.00	44.9
		60	23.4	6.12	42.1	25.5	6.80	42.7	26.3	6.87	42.9	26.6	6.89	43.0	26.9	6.91	43.1	27.3	6.93	43.2	27.6	6.93	43.2
		96	23.4	5.81	39.4	25.8	6.62	39.8	26.6	6.68	40.0	27.0	6.71	40.0	27.3	6.73	40.1	27.7	6.75	40.1	28.0	6.75	40.2
		120	23.4	5.70	38.5	25.9	6.55	38.9	26.7	6.61	39.0	27.1	6.64	39.0	27.4	6.66	39.1	27.9	6.68	39.1	28.1	6.68	39.2
	40	50	19.0	5.06	46.9	19.6	5.10	47.1	19.9	5.11	47.2	20.0	5.11	47.2	20.0	5.09	47.2	19.8	5.04	47.1	19.4	4.95	47.0
		60	20.0	5.47	46.1	20.7	5.52	46.3	21.1	5.54	46.4	21.3	5.54	46.4	21.3	5.54	46.4	21.3	5.50	46.4	21.0	5.43	46.3
		96	22.8	6.12	44.3	23.6	6.20	44.5	24.3	6.25	44.6	24.6	6.26	44.6	24.8	6.27	44.6	25.1	6.28	44.7	25.1	6.25	44.7
		120	23.0	6.02	43.5	23.8	6.09	43.6	24.5	6.14	43.7	24.8	6.16	43.7	25.0	6.17	43.7	25.3	6.18	43.8	25.4	6.16	43.8
	45	50	13.3	3.20	49.7	13.2	3.15	49.7	12.6	3.06	49.5	12.2	3.00	49.4	11.7	2.92	49.2	10.4	2.75	48.8	8.72	2.52	48.2
		60	14.6	3.53	49.3	14.7	3.51	49.3	14.4	3.44	49.3	14.1	3.40	49.2	13.7	3.34	49.1	12.7	3.20	48.8	11.4	3.01	48.4
		96	18.2	4.63	48.4	18.7	4.66	48.5	19.0	4.66	48.5	19.0	4.65	48.5	18.9	4.63	48.5	18.6	4.56	48.5	18.0	4.46	48.4
		120	20.0	5.32	48.0	20.6	5.37	48.1	21.1	5.40	48.2	21.2	5.40	48.2	21.3	5.39	48.2	21.2	5.35	48.2	20.9	5.28	48.1
120	10	50	21.6	3.07	17.1	25.8	4.06	18.6	30.0	4.87	20.0	30.4	4.89	20.1	30.9	4.91	20.3	31.6	4.95	20.5	32.2	4.97	20.7
		60	21.6	3.01	15.9	25.8	3.98	17.1	30.0	4.81	18.3	30.6	4.84	18.5	31.0	4.86	18.6	31.8	4.90	18.8	32.4	4.92	18.9
		96	21.6	2.86	13.7	25.8	3.78	14.4	30.0	4.65	15.2	31.0	4.71	15.3	31.4	4.73	15.4	32.2	4.77	15.5	32.8	4.79	15.6
		120	21.6	2.80	12.9	25.8	3.71	13.5	30.0	4.59	14.1	31.1	4.66	14.3	31.5	4.68	14.3	32.3	4.72	14.4	33.0	4.74	14.5
	15	50	21.6	3.17	22.1	25.8	4.20	23.6	29.5	5.01	24.9	29.9	5.04	25.0	30.3	5.06	25.1	31.0	5.09	25.4	31.6	5.12	25.5
		60	21.6	3.11	20.9	25.8	4.12	22.1	29.6	4.96	23.3	30.0	4.98	23.4	30.5	5.01	23.5	31.2	5.04	23.7	31.8	5.07	23.8
		96	21.6	2.96	18.7	25.8	3.91	19.4	30.0	4.82	20.2	30.4	4.85	20.3	30.8	4.87	20.3	31.6	4.91	20.4	32.2	4.93	20.5
		120	21.6	2.90	17.9	25.8	3.84	18.5	30.0	4.76	19.1	30.6	4.80	19.2	31.0	4.82	19.3	31.7	4.85	19.4	32.3	4.88	19.4
	20	50	21.6	3.30	27.1	25.8	4.37	28.6	28.8	5.15	29.7	29.2	5.18	29.9	29.6	5.20	30.0	30.3	5.24	30.2	30.8	5.26	30.3
		60	21.6	3.24	25.9	25.8	4.29	27.2	28.9	5.10	28.1	29.3	5.13	28.2	29.7	5.15	28.3	30.4	5.19	28.5	31.0	5.21	28.6
		96	21.6	3.07	23.7	25.8	4.07	24.5	29.3	4.96	25.1	29.7	4.99	25.2	30.1	5.01	25.2	30.8	5.05	25.4	31.4	5.07	25.4
		120	21.6	3.01	22.9	25.8	3.99	23.6	29.4	4.91	24.1	29.8	4.93	24.2	30.2	4.96	24.2	31.0	4.99	24.3	31.5	5.02	24.4
	25	50	21.6	3.88	32.3	25.8	5.16	33.9	27.9	5.73	34.7	28.3	5.76	34.8	28.7	5.78	34.9	29.3	5.82	35.1	29.8	5.85	35.2
		60	21.6	3.81	31.1	25.8	5.06	32.4	28.1	5.67	33.1	28.5	5.70	33.2	28.8	5.73	33.3	29.5	5.76	33.4	30.0	5.79	33.5
		96	21.6	3.62	28.8	25.8	4.80	29.6	28.4	5.52	30.1	28.8	5.55	30.1	29.2	5.57	30.2	29.9	5.61	30.3	30.4	5.63	30.4
		120	21.6	3.55	28.0	25.8	4.71	28.6	28.5	5.46	29.1	29.0	5.49	29.1	29.4	5.51	29.2	30.0	5.55	29.2	30.6	5.58	29.3
	30	50	21.6	4.59	37.5	25.8	6.12	39.1	26.9	6.31	39.5	27.3	6.34	39.6	27.7	6.37	39.8	28.2	6.40	39.9	28.7	6.43	40.1
		60	21.6	4.51	36.2	25.8	6.00	37.6	27.1	6.25	38.0	27.4	6.28	38.1	27.8	6.30	38.1	28.4	6.34	38.3	28.8	6.36	38.4
		96	21.6	4.28	33.9	25.8	5.69	34.7	27.4	6.08	35.0	27.8	6.11	35.1	28.1	6.13	35.1	28.7	6.17	35.2	29.2	6.19	35.3
		120	21.6	4.20	33.1	25.8	5.58	33.7	27.5	6.02	34.0	27.9	6.04	34.1	28.3	6.07	34.1	28.9	6.11	34.2	29.4	6.13	34.2
	35	50	21.6	5.48	42.8	24.9	6.83	44.1	25.7	6.90	44.4	26.1	6.93	44.5	26.4	6.96	44.6	26.9	6.99	44.7	27.2	7.00	44.8
		60	21.6	5.37	41.4	25.0	6.76	42.6	25.9	6.83	42.8	26.2	6.86	42.9	26.5	6.89	43.0	27.0	6.92	43.1	27.4	6.93	43.2
		96	21.6	5.10	39.0	25.4	6.58	39.8	26.2	6.65	39.9	26.6	6.68	40.0	26.9	6.70	40.0	27.4	6.74	40.1	27.8	6.75	40.2
		120	21.6	5.00	38.2	25.5	6.51	38.8	26.3	6.58	38.9	26.7	6.61	39.0	27.0	6.63	39.0	27.5	6.67	39.1	27.9	6.68	39.1
	40	50	18.7	5.04	46.8	19.4	5.09	47.0	19.8	5.11	47.1	19.9	5.11	47.2	20.0	5.11	47.2	20.0	5.08	47.2	19.7	5.02	47.1
		60	19.7	5.44	46.0	20.4	5.50	46.2	20.9	5.53	46.3	21.1	5.54	46.4	21.2	5.54	46.4	21.3	5.53	46.4	21.2	5.49	46.4
		96	21.6	5.68	44.1	23.3	6.16	44.4	24.0	6.22	44.5	24.3	6.24	44.6	24.5	6.26	44.6	24.9	6.28	44.7	25.1	6.27	44.7
		120	21.6	5.49	43.2	23.5	6.06	43.5	24.2	6.12	43.6	24.5	6.14	43.7	24.7	6.16	43.7	25.1	6.18	43.7	25.3	6.18	43.8
	45	50	13.3	3.20	49.7	13.3	3.18	49.7	13.0	3.12	49.6	12.7	3.07	49.5	12.3	3.02	49.4	11.4	2.88	49.1	10.1	2.70	48.7
		60	14.5	3.53	49.3	14.7	3.52	49.4	14.6	3.48	49.3	14.4	3.45	49.3	14.2	3.41	49.2	13.5	3.30	49.0	12.5	3.16	48.7
		96	17.9	4.61	48.4	18.5	4.65	48.5	18.9	4.67	48.5	18.9	4.66	48.5	19.0	4.65	48.5	18.9	4.61	48.5	18.5	4.54	48.4
		120	19.6	5.29	48.0	20.4	5.35	48.1	20.9	5.39	48.1	21.0	5.40	48.2	21.2	5.40	48.2	21.3	5.38	48.2	21.2	5.34	48.2

3 Capacity tables

3 - 1 Cooling capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	50	19.8	2.68	16.5	23.6	3.53	17.8	27.5	4.50	19.2	29.4	4.83	19.8	30.3	4.88	20.1	31.1	4.92	20.3	31.7	4.95	20.5
		60	19.8	2.63	15.4	23.6	3.46	16.5	27.5	4.41	17.6	29.4	4.77	18.2	30.4	4.83	18.4	31.2	4.87	18.6	31.9	4.90	18.8
		96	19.8	2.50	13.3	23.6	3.29	14.0	27.5	4.19	14.7	29.4	4.62	15.1	30.8	4.70	15.3	31.6	4.74	15.4	32.3	4.77	15.5
		120	19.8	2.45	12.7	23.6	3.22	13.2	27.5	4.10	13.8	29.4	4.56	14.1	30.9	4.65	14.3	31.7	4.69	14.4	32.4	4.72	14.4
	15	50	19.8	2.77	21.5	23.6	3.65	22.8	27.5	4.66	24.2	29.3	5.00	24.8	29.7	5.03	25.0	30.5	5.07	25.2	31.1	5.10	25.4
		60	19.8	2.72	20.4	23.6	3.58	21.5	27.5	4.57	22.7	29.4	4.95	23.2	29.9	4.98	23.3	30.6	5.02	23.5	31.3	5.05	23.7
		96	19.8	2.59	18.3	23.6	3.40	19.0	27.5	4.34	19.7	29.4	4.78	20.1	30.3	4.84	20.2	31.0	4.88	20.4	31.7	4.91	20.5
		120	19.8	2.54	17.7	23.6	3.34	18.2	27.5	4.25	18.8	29.4	4.72	19.1	30.4	4.79	19.2	31.2	4.83	19.3	31.8	4.86	19.4
	20	50	19.8	2.88	26.5	23.6	3.80	27.9	27.5	4.84	29.3	28.6	5.15	29.7	29.0	5.17	29.8	29.8	5.21	30.0	30.4	5.24	30.2
		60	19.8	2.83	25.4	23.6	3.73	26.5	27.5	4.75	27.7	28.8	5.10	28.1	29.2	5.12	28.2	29.9	5.16	28.4	30.5	5.19	28.5
		96	19.8	2.69	23.4	23.6	3.54	24.1	27.5	4.51	24.8	29.1	4.96	25.1	29.5	4.98	25.2	30.3	5.02	25.3	30.9	5.05	25.4
		120	19.8	2.64	22.7	23.6	3.47	23.2	27.5	4.42	23.8	29.3	4.90	24.1	29.7	4.93	24.1	30.4	4.97	24.2	31.1	5.00	24.3
	25	50	19.8	3.39	31.7	23.6	4.48	33.1	27.4	5.70	34.5	27.8	5.72	34.6	28.2	5.75	34.7	28.9	5.79	34.9	29.4	5.83	35.1
		60	19.8	3.33	30.5	23.6	4.39	31.7	27.5	5.61	32.9	27.9	5.67	33.0	28.3	5.69	33.1	29.0	5.74	33.3	29.6	5.77	33.4
		96	19.8	3.16	28.4	23.6	4.17	29.2	27.5	5.32	29.9	28.3	5.51	30.0	28.7	5.54	30.1	29.4	5.58	30.2	30.0	5.61	30.3
		120	19.8	3.10	27.7	23.6	4.09	28.3	27.5	5.22	28.9	28.4	5.45	29.0	28.8	5.48	29.1	29.5	5.52	29.2	30.1	5.55	29.3
	30	50	19.8	4.00	36.8	23.6	5.30	38.3	26.4	6.28	39.4	26.8	6.31	39.5	27.2	6.33	39.6	27.8	6.38	39.8	28.3	6.41	40.0
		60	19.8	3.93	35.7	23.6	5.20	36.9	26.5	6.21	37.8	26.9	6.24	37.9	27.3	6.27	38.0	27.9	6.31	38.2	28.4	6.35	38.3
		96	19.8	3.73	33.5	23.6	4.94	34.3	26.9	6.04	34.9	27.3	6.07	35.0	27.6	6.10	35.0	28.3	6.14	35.1	28.8	6.18	35.2
		120	19.8	3.66	32.8	23.6	4.84	33.4	27.0	5.98	33.9	27.4	6.01	34.0	27.8	6.04	34.0	28.4	6.08	34.1	29.0	6.11	34.2
	35	50	19.8	4.77	42.0	23.6	6.34	43.6	25.3	6.86	44.2	25.6	6.89	44.3	26.0	6.92	44.4	26.5	6.96	44.6	27.0	6.99	44.7
		60	19.8	4.68	40.9	23.6	6.22	42.1	25.4	6.79	42.7	25.8	6.82	42.8	26.1	6.85	42.9	26.7	6.90	43.0	27.1	6.92	43.1
		96	19.8	4.44	38.6	23.6	5.90	39.4	25.7	6.61	39.8	26.1	6.64	39.9	26.4	6.67	39.9	27.0	6.71	40.0	27.5	6.74	40.1
		120	19.8	4.36	37.9	23.6	5.78	38.5	25.8	6.54	38.9	26.2	6.57	38.9	26.6	6.60	39.0	27.1	6.64	39.0	27.6	6.67	39.1
	40	50	18.4	5.01	46.7	19.1	5.07	46.9	19.6	5.10	47.1	19.7	5.11	47.1	19.9	5.11	47.2	20.0	5.10	47.2	20.0	5.07	47.2
		60	19.3	5.40	45.9	20.1	5.47	46.1	20.6	5.52	46.2	20.9	5.53	46.3	21.0	5.54	46.4	21.3	5.54	46.4	21.3	5.52	46.4
		96	19.8	4.93	43.7	22.8	6.12	44.3	23.6	6.19	44.4	23.9	6.21	44.5	24.2	6.24	44.5	24.6	6.27	44.6	24.9	6.28	44.7
		120	19.8	4.77	42.9	23.0	6.02	43.5	23.8	6.09	43.6	24.1	6.11	43.6	24.4	6.13	43.6	24.8	6.16	43.7	25.2	6.18	43.7
	45	50	13.2	3.20	49.7	13.3	3.20	49.7	13.2	3.16	49.7	13.0	3.13	49.6	12.8	3.09	49.6	12.1	2.99	49.3	11.2	2.85	49.0
		60	14.3	3.52	49.3	14.6	3.53	49.3	14.7	3.51	49.3	14.6	3.49	49.3	14.5	3.46	49.3	14.0	3.39	49.2	13.3	3.28	49.0
		96	17.6	4.59	48.3	18.3	4.63	48.4	18.7	4.66	48.5	18.8	4.67	48.5	18.9	4.66	48.5	19.0	4.64	48.5	18.8	4.60	48.5
		120	19.3	5.26	47.9	20.0	5.33	48.0	20.6	5.37	48.1	20.8	5.38	48.1	21.0	5.39	48.2	21.2	5.40	48.2	21.3	5.38	48.2
100	10	50	18.0	2.32	15.8	21.5	3.04	17.0	25.0	3.85	18.3	26.7	4.30	18.9	28.4	4.77	19.5	30.4	4.89	20.1	31.1	4.92	20.3
		60	18.0	2.28	14.8	21.5	2.98	15.8	25.0	3.78	16.9	26.7	4.21	17.4	28.4	4.67	17.9	30.6	4.84	18.5	31.2	4.88	18.6
		96	18.0	2.17	13.0	21.5	2.83	13.6	25.0	3.59	14.3	26.7	4.00	14.6	28.4	4.44	14.9	30.9	4.71	15.3	31.6	4.74	15.4
		120	18.0	2.13	12.4	21.5	2.78	12.9	25.0	3.52	13.4	26.7	3.92	13.7	28.4	4.35	13.9	31.1	4.66	14.3	31.8	4.69	14.4
	15	50	18.0	2.40	20.9	21.5	3.14	22.1	25.0	3.99	23.3	26.7	4.45	23.9	28.4	4.94	24.6	29.9	5.03	25.0	30.5	5.07	25.2
		60	18.0	2.36	19.9	21.5	3.08	20.9	25.0	3.91	21.9	26.7	4.36	22.4	28.4	4.84	22.9	30.0	4.98	23.4	30.7	5.02	23.5
		96	18.0	2.24	18.0	21.5	2.93	18.6	25.0	3.71	19.3	26.7	4.14	19.6	28.4	4.59	19.9	30.4	4.85	20.3	31.1	4.88	20.4
		120	18.0	2.20	17.4	21.5	2.87	17.9	25.0	3.64	18.4	26.7	4.06	18.7	28.4	4.50	18.9	30.5	4.80	19.2	31.2	4.83	19.3
	20	50	18.0	2.49	25.9	21.5	3.27	27.1	25.0	4.14	28.3	26.7	4.63	29.0	28.4	5.13	29.6	29.2	5.18	29.8	29.8	5.21	30.0
		60	18.0	2.45	24.9	21.5	3.20	25.9	25.0	4.07	26.9	26.7	4.54	27.5	28.4	5.03	28.0	29.3	5.13	28.2	30.0	5.16	28.4
		96	18.0	2.33	23.0	21.5	3.04	23.7	25.0	3.86	24.3	26.7	4.31	24.6	28.4	4.78	25.0	29.7	4.99	25.2	30.3	5.02	25.3
		120	18.0	2.29	22.4	21.5	2.99	22.9	25.0	3.78	23.4	26.7	4.22	23.7	28.4	4.68	24.0	29.8	4.93	24.2	30.5	4.97	24.2
	25	50	18.0	2.93	31.0	21.5	3.85	32.3	25.0	4.89	33.6	26.7	5.46	34.2	27.6	5.71	34.6	28.3	5.76	34.8	28.9	5.80	35.0
		60	18.0	2.88	30.0	21.5	3.77	31.0	25.0	4.80	32.1	26.7	5.36	32.7	27.7	5.65	33.0	28.4	5.70	33.2	29.1	5.74	33.3
		96	18.0	2.73	28.1	21.5	3.58	28.7	25.0	4.55	29.4	26.7	5.08	29.7	28.1	5.50	30.0	28.8	5.55	30.1	29.4	5.58	30.2
		120	18.0	2.68	27.5	21.5	3.51	28.0	25.0	4.46	28.5	26.7	4.98	28.8	28.2	5.44	29.0	28.9	5.49	29.1	29.6	5.52	29.2
	30	50	18.0	3.45	36.2	21.5	4.55	37.5	25.0	5.80	38.8	26.3	6.26	39.3	26.6	6.29	39.4	27.3	6.34	39.6	27.8	6.38	39.8
		60	18.0	3.39	35.1	21.5	4.46	36.2	25.0	5.69	37.3	26.4	6.20	37.8	26.7	6.23	37.9	27.4	6.28	38.0	28.0	6.32	38.2
		96	18.0	3.22	33.2	21.5	4.24	33.8	25.0	5.40	34.5	26.7	6.03	34.9	27.1	6.06	34.9	27.8	6.11	35.1	28.3	6.15	35.1
		120	18.0	3.16	32.5	21.5	4.15	33.1	25.0	5.29	33.6	26.7	5.91	33.9	27.2	5.99	34.0	27.9	6.04	34.1	28.5	6.08	34.1
	35	50	18.0	4.10	41.3	21.5	5.42	42.7	24.7	6.81	44.0	25.1	6.85	44.2	25.5	6.88	44.3	26.1	6.93	44.5	26.6	6.97	44.6
		60	18.0	4.03	40.3	21.5	5.32	41.4	24.9	6.75	42.6	25.2	6.78	42.6	25.6	6.81	42.7	26.2	6.86	42.9	26.7	6.90	43.0
		96	18.0	3.83	38.3	21.5	5.05	39.0	25.0	6.45	39.7	25.5	6.59	39.8	25.9	6.62	39.9	26.5	6.67	40.0	27.1	6.71	40.0
		120	18.0	3.75	37.6	21.5	4.95	38.2	25.0	6.33	38.7	25.7	6.52	38.8	26.0	6.55	38.9	26.7	6.60	39.0	27.2	6.64	39.0
	40	50	18.0	4.97	46.6	18.7	5.04	46.8	19.3	5.08	47.0	19.5	5.10	47.0	19.7	5.11	47.1	19.9	5.11	47.2	20.0	5.10	47.2
		60	18.0	4.86	45.5	19.7	5.44	46.0	20.3	5.49	46.2	20.5	5.51	46.2	20.8	5.52	46.3	21.1	5.54	46.4	21.3	5.54	46.4
		96	18.0	4.23	43.3	21.5	5.62	44.0	23.1	6.15	44.4	23.4	6.18	44.4	23.7	6.20	44.5	24.2	6.24	44.6	24.6	6.27	44.6
		120	18.0	4.09	42.6	21.5	5.44	43.2	23.3	6.05	43.5	23.6	6.08	43.5	23.9	6.10	43.6	24.5	6.14	43.7	24.9	6.17	43.7
	45	50	13.0	3.19	49.6	13.3	3.20	49.7	13.3	3.19	49.7	13.3	3.17	49.7	13.1	3.14	49.7	12.7	3.07	49.5	12.1	2.98	49.3
		60	14.1	3.50	49.2	14.5	3.52	49.3	14.7	3.52	49.3	14.7	3.52	49.3	14.7	3.50	49.3	14.4	3.45	49.3	14.0	3.38	49.2
		96	17.3	4.55	48.3	17.9	4.61	48.4	18.4	4.65	48.4	18.6	4.66	48.5	18.8	4.66	48.5	18.9	4.66	48.5	19.0	4.64	48.5
		120	18.0	4.76	47.7	19.6	5.29	48.0	20.2	5.34	48.1	20.5	5.36	48.1	20.7	5.38	48.1	21.0	5.40	48.2	21.2	5.39	48.2

3 Capacity tables

3 - 1 Cooling capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	
90	10	50	16.2	1.99	15.2	19.3	2.58	16.3	22.5	3.26	17.4	24.0	3.62	17.9	25.6	4.01	18.5	28.7	4.79	19.6	30.4	4.89	20.1	
		60	16.2	1.95	14.3	19.3	2.53	15.2	22.5	3.19	16.1	24.0	3.55	16.6	25.6	3.93	17.1	28.7	4.73	18.0	30.5	4.84	18.5	
		96	16.2	1.86	12.7	19.3	2.41	13.2	22.5	3.03	13.8	24.0	3.37	14.1	25.6	3.73	14.4	28.7	4.51	15.0	30.9	4.71	15.3	
		120	16.2	1.83	12.2	19.3	2.36	12.6	22.5	2.98	13.0	24.0	3.31	13.3	25.6	3.66	13.5	28.7	4.42	14.0	31.1	4.66	14.3	
	15	50	16.2	2.06	20.2	19.3	2.67	21.3	22.5	3.37	22.4	24.0	3.75	23.0	25.6	4.15	23.5	28.7	4.96	24.7	29.9	5.03	25.0	
		60	16.2	2.02	19.4	19.3	2.62	20.2	22.5	3.31	21.2	24.0	3.68	21.6	25.6	4.07	22.1	28.7	4.90	23.0	30.0	4.98	23.4	
		96	16.2	1.92	17.7	19.3	2.49	18.3	22.5	3.14	18.8	24.0	3.49	19.1	25.6	3.87	19.4	28.7	4.67	20.0	30.4	4.85	20.3	
		120	16.2	1.89	17.2	19.3	2.45	17.6	22.5	3.08	18.1	24.0	3.43	18.3	25.6	3.79	18.5	28.7	4.58	19.0	30.5	4.80	19.2	
	20	50	16.2	2.14	25.3	19.3	2.78	26.3	22.5	3.50	27.4	24.0	3.90	28.0	25.6	4.32	28.6	28.5	5.14	29.6	29.2	5.18	29.8	
		60	16.2	2.10	24.4	19.3	2.72	25.3	22.5	3.44	26.2	24.0	3.82	26.7	25.6	4.23	27.1	28.6	5.09	28.1	29.3	5.13	28.2	
		96	16.2	2.00	22.7	19.3	2.59	23.3	22.5	3.26	23.8	24.0	3.63	24.1	25.6	4.02	24.4	28.7	4.85	25.0	29.7	4.99	25.2	
		120	16.2	1.96	22.2	19.3	2.54	22.6	22.5	3.20	23.1	24.0	3.56	23.3	25.6	3.94	23.5	28.7	4.76	24.0	29.8	4.93	24.1	
	25	50	16.2	2.51	30.4	19.3	3.26	31.5	22.5	4.13	32.6	24.0	4.60	33.2	25.6	5.09	33.8	27.7	5.71	34.6	28.3	5.76	34.8	
		60	16.2	2.46	29.5	19.3	3.20	30.4	22.5	4.05	31.3	24.0	4.51	31.8	25.6	5.00	32.3	27.8	5.66	33.0	28.4	5.70	33.2	
		96	16.2	2.34	27.8	19.3	3.04	28.3	22.5	3.84	28.9	24.0	4.28	29.2	25.6	4.74	29.5	28.1	5.50	30.0	28.8	5.54	30.1	
		120	16.2	2.30	27.2	19.3	2.99	27.7	22.5	3.77	28.1	24.0	4.20	28.4	25.6	4.65	28.6	28.3	5.44	29.0	28.9	5.49	29.1	
	30	50	16.2	2.95	35.5	19.3	3.85	36.6	22.5	4.88	37.8	24.0	5.45	38.4	25.6	6.04	39.1	26.7	6.30	39.5	27.3	6.34	39.6	
		60	16.2	2.89	34.6	19.3	3.78	35.5	22.5	4.79	36.5	24.0	5.34	37.0	25.6	5.93	37.5	26.8	6.23	37.9	27.4	6.28	38.0	
		96	16.2	2.75	32.8	19.3	3.59	33.4	22.5	4.55	34.0	24.0	5.07	34.3	25.6	5.62	34.7	27.1	6.06	35.0	27.7	6.11	35.1	
		120	16.2	2.70	32.3	19.3	3.52	32.7	22.5	4.46	33.2	24.0	4.97	33.5	25.6	5.51	33.7	27.3	6.00	34.0	27.9	6.04	34.1	
	35	50	16.2	3.49	40.7	19.3	4.58	41.9	22.5	5.83	43.1	24.0	6.51	43.8	24.9	6.83	44.1	25.5	6.88	44.3	26.1	6.93	44.5	
		60	16.2	3.43	39.7	19.3	4.50	40.7	22.5	5.72	41.7	24.0	6.39	42.3	25.0	6.76	42.6	25.6	6.81	42.8	26.2	6.86	42.9	
		96	16.2	3.26	37.9	19.3	4.27	38.5	22.5	5.43	39.2	24.0	6.06	39.5	25.3	6.57	39.8	26.0	6.63	39.9	26.5	6.67	40.0	
		120	16.2	3.20	37.3	19.3	4.19	37.8	22.5	5.32	38.3	24.0	5.94	38.6	25.4	6.50	38.8	26.1	6.56	38.9	26.6	6.60	39.0	
	40	50	16.2	4.19	45.9	18.3	5.00	46.7	18.9	5.05	46.9	19.1	5.07	46.9	19.3	5.09	47.0	19.7	5.11	47.1	19.9	5.11	47.2	
		60	16.2	4.10	44.9	19.2	5.39	45.9	19.9	5.45	46.0	20.1	5.48	46.1	20.4	5.50	46.2	20.8	5.53	46.3	21.1	5.54	46.4	
		96	16.2	3.59	43.0	19.3	4.74	43.6	22.5	6.05	44.3	22.9	6.13	44.3	23.2	6.16	44.4	23.8	6.21	44.5	24.2	6.24	44.6	
		120	16.2	3.47	42.4	19.3	4.58	42.9	22.5	5.85	43.4	23.1	6.03	43.5	23.4	6.06	43.5	24.0	6.10	43.6	24.5	6.14	43.7	
	45	50	12.8	3.18	49.6	13.1	3.20	49.7	13.3	3.20	49.7	13.3	3.19	49.7	13.3	3.18	49.7	13.1	3.14	49.7	12.7	3.07	49.5	
		60	13.8	3.48	49.1	14.3	3.51	49.2	14.6	3.53	49.3	14.6	3.53	49.3	14.7	3.52	49.4	14.6	3.50	49.3	14.4	3.45	49.3	
		96	16.2	4.17	48.0	17.5	4.58	48.3	18.1	4.62	48.4	18.3	4.64	48.4	18.5	4.65	48.5	18.8	4.66	48.5	18.9	4.66	48.5	
		120	16.2	4.01	47.4	19.2	5.25	47.9	19.8	5.31	48.0	20.1	5.33	48.0	20.3	5.35	48.1	20.7	5.38	48.1	21.0	5.40	48.2	
80	10	50	14.4	1.69	14.6	17.2	2.17	15.5	20.0	2.71	16.5	21.4	3.01	17.0	22.7	3.32	17.5	25.5	3.99	18.5	28.3	4.73	19.5	
		60	14.4	1.66	13.8	17.2	2.13	14.6	20.0	2.66	15.4	21.4	2.95	15.8	22.7	3.26	16.2	25.5	3.92	17.0	28.3	4.64	17.9	
		96	14.4	1.58	12.4	17.2	2.02	12.9	20.0	2.53	13.4	21.4	2.80	13.6	22.7	3.09	13.9	25.5	3.72	14.4	28.3	4.40	14.9	
		120	14.4	1.55	11.9	17.2	1.99	12.3	20.0	2.48	12.7	21.4	2.75	12.9	22.7	3.03	13.1	25.5	3.65	13.5	28.3	4.31	13.9	
	15	50	14.4	1.74	19.6	17.2	2.24	20.6	20.0	2.81	21.5	21.4	3.11	22.0	22.7	3.44	22.5	25.5	4.13	23.5	28.3	4.90	24.5	
		60	14.4	1.71	18.9	17.2	2.20	19.6	20.0	2.75	20.4	21.4	3.05	20.8	22.7	3.37	21.2	25.5	4.06	22.1	28.3	4.80	22.9	
		96	14.4	1.63	17.4	17.2	2.09	17.9	20.0	2.62	18.4	21.4	2.90	18.6	22.7	3.20	18.9	25.5	3.85	19.4	28.3	4.56	19.9	
		120	14.4	1.60	16.9	17.2	2.06	17.3	20.0	2.57	17.7	21.4	2.85	17.9	22.7	3.14	18.1	25.5	3.77	18.5	28.3	4.47	18.9	
	20	50	14.4	1.81	24.7	17.2	2.33	25.6	20.0	2.91	26.6	21.4	3.23	27.1	22.7	3.57	27.5	25.5	4.30	28.5	28.3	5.09	29.6	
		60	14.4	1.78	23.9	17.2	2.29	24.7	20.0	2.86	25.5	21.4	3.17	25.9	22.7	3.50	26.3	25.5	4.22	27.1	28.3	4.99	28.0	
		96	14.4	1.69	22.4	17.2	2.17	22.9	20.0	2.72	23.4	21.4	3.02	23.6	22.7	3.33	23.9	25.5	4.00	24.4	28.3	4.74	24.9	
		120	14.4	1.66	21.9	17.2	2.13	22.3	20.0	2.67	22.7	21.4	2.96	22.9	22.7	3.26	23.1	25.5	3.92	23.5	28.3	4.64	23.9	
	25	50	14.4	2.12	29.7	17.2	2.73	30.7	20.0	3.43	31.7	21.4	3.81	32.2	22.7	4.21	32.7	25.5	5.07	33.8	27.6	5.71	34.5	
		60	14.4	2.08	28.9	17.2	2.68	29.7	20.0	3.36	30.6	21.4	3.74	31.0	22.7	4.13	31.4	25.5	4.98	32.3	27.7	5.65	33.0	
		96	14.4	1.98	27.4	17.2	2.55	27.9	20.0	3.20	28.5	21.4	3.55	28.7	22.7	3.92	29.0	25.5	4.72	29.5	28.1	5.50	30.0	
		120	14.4	1.94	27.0	17.2	2.50	27.4	20.0	3.14	27.8	21.4	3.48	28.0	22.7	3.84	28.2	25.5	4.63	28.6	28.2	5.44	29.0	
	30	50	14.4	2.48	34.8	17.2	3.22	35.9	20.0	4.05	36.9	21.4	4.50	37.4	22.7	4.98	37.9	25.5	6.02	39.0	26.6	6.29	39.4	
		60	14.4	2.44	34.0	17.2	3.16	34.9	20.0	3.97	35.7	21.4	4.42	36.2	22.7	4.89	36.6	25.5	5.90	37.5	26.7	6.23	37.9	
		96	14.4	2.32	32.5	17.2	3.00	33.0	20.0	3.77	33.5	21.4	4.20	33.8	22.7	4.64	34.1	25.5	5.60	34.6	27.1	6.06	34.9	
		120	14.4	2.28	32.0	17.2	2.95	32.4	20.0	3.70	32.8	21.4	4.11	33.0	22.7	4.55	33.3	25.5	5.49	33.7	27.2	5.99	34.0	
	35	50	14.4	2.93	40.0	17.2	3.82	41.0	20.0	4.82	42.1	21.4	5.37	42.7	22.7	5.95	43.2	24.9	6.82	44.1	25.4	6.88	44.3	
		60	14.4	2.88	39.1	17.2	3.75	40.0	20.0	4.73	40.9	21.4	5.27	41.4	22.7	5.84	41.8	25.0	6.76	42.6	25.6	6.81	42.7	
		96	14.4	2.74	37.6	17.2	3.56	38.1	20.0	4.49	38.7	21.4	5.00	38.9	22.7	5.54	39.2	25.3	6.57	39.8	25.9	6.62	39.9	
		120	14.4	2.69	37.0	17.2	3.49	37.5	20.0	4.41	37.9	21.4	4.90	38.1	22.7	5.43	38.4	25.4	6.50	38.8	26.0	6.55	38.9	
	40	50	14.4	3.47	45.1	17.2	4.61	46.3	18.4	5.01	46.7	18.7	5.03	46.8	18.9	5.05	46.9	19.3	5.09	47.0	19.6	5.11	47.1	
		60	14.4	3.40	44.3	17.2	4.50	45.2	19.4	5.41	45.9	19.6	5.43	46.0	19.9	5.46	46.1	20.4	5.50	46.2	20.7	5.52	46.3	
		96	14.4	3.00	42.6	17.2	3.93	43.2	20.0	4.99	43.7	21.4	5.57	44.0	22.6	6.11	44.3	23.2	6.16	44.4	23.7	6.20	44.5	
		120	14.4	2.90	42.1	17.2	3.80	42.5	20.0	4.82	43.0	21.4	5.38	43.2	22.7	5.97	43.4	23.4	6.06	43.5	23.9	6.10	43.6	
	45	50	12.5	3.16	49.5	12.9	3.19	49.6	13.2	3.20	49.7	13.3	3.20	49.7	13.3	3.20	49.7	13.3	3.18	49.7	13.1	3.14	49.7	
		60	13.5	3.45	49.0	14.0	3.49	49.2	14.3	3.52	49.3	14.5	3.52	49.3	14.6	3.53	49.3	14.7	3.52	49.4	14.7	3.50	49.3	
		96	14.4	3.45	47.7	17.1	4.54	48.2	17.7	4.59	48.3	17.9	4.61	48.4	18.1	4.63	48.4	18.5	4.65	48.5	18.8	4.66	48.5	
		120	14.4	3.33	47.1	17.2	4.41	47.6	19.3	5.26	47.9	19.6	5.29	48.0	19.9	5.31	48.0	20.3	5.35	48.1	20.7	5.38	48.1	

3 Capacity tables

3 - 1 Cooling capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	50	12.6	1.41	14.0	15.0	1.79	14.8	17.5	2.22	15.6	18.7	2.45	16.1	19.9	2.70	16.5	22.3	3.22	17.3	24.8	3.80	18.2
		60	12.6	1.38	13.3	15.0	1.76	14.0	17.5	2.18	14.7	18.7	2.41	15.0	19.9	2.65	15.4	22.3	3.16	16.1	24.8	3.73	16.8
		96	12.6	1.32	12.1	15.0	1.67	12.5	17.5	2.07	12.9	18.7	2.29	13.1	19.9	2.52	13.3	22.3	3.01	13.8	24.8	3.54	14.2
		120	12.6	1.30	11.7	15.0	1.64	12.0	17.5	2.03	12.3	18.7	2.25	12.5	19.9	2.47	12.7	22.3	2.95	13.0	24.8	3.47	13.4
	15	50	12.6	1.46	19.0	15.0	1.85	19.8	17.5	2.30	20.7	18.7	2.54	21.1	19.9	2.79	21.5	22.3	3.34	22.4	24.8	3.94	23.2
		60	12.6	1.43	18.4	15.0	1.82	19.0	17.5	2.25	19.7	18.7	2.49	20.1	19.9	2.74	20.4	22.3	3.28	21.1	24.8	3.86	21.8
		96	12.6	1.36	17.1	15.0	1.73	17.5	17.5	2.14	17.9	18.7	2.37	18.1	19.9	2.60	18.4	22.3	3.11	18.8	24.8	3.67	19.2
		120	12.6	1.34	16.7	15.0	1.70	17.0	17.5	2.10	17.3	18.7	2.32	17.5	19.9	2.56	17.7	22.3	3.05	18.0	24.8	3.59	18.4
	20	50	12.6	1.51	24.0	15.0	1.92	24.9	17.5	2.38	25.7	18.7	2.64	26.1	19.9	2.90	26.5	22.3	3.47	27.4	24.8	4.09	28.3
		60	12.6	1.48	23.4	15.0	1.89	24.0	17.5	2.34	24.7	18.7	2.59	25.1	19.9	2.85	25.4	22.3	3.40	26.1	24.8	4.01	26.9
		96	12.6	1.42	22.1	15.0	1.80	22.5	17.5	2.23	22.9	18.7	2.46	23.2	19.9	2.71	23.4	22.3	3.23	23.8	24.8	3.81	24.3
		120	12.6	1.39	21.7	15.0	1.76	22.0	17.5	2.18	22.3	18.7	2.41	22.5	19.9	2.65	22.7	22.3	3.17	23.0	24.8	3.74	23.4
	25	50	12.6	1.76	29.1	15.0	2.25	30.0	17.5	2.80	30.8	18.7	3.10	31.2	19.9	3.41	31.7	22.3	4.09	32.6	24.8	4.83	33.5
		60	12.6	1.73	28.4	15.0	2.21	29.1	17.5	2.75	29.8	18.7	3.04	30.2	19.9	3.35	30.6	22.3	4.01	31.3	24.8	4.74	32.0
		96	12.6	1.65	27.1	15.0	2.10	27.6	17.5	2.61	28.0	18.7	2.89	28.2	19.9	3.18	28.4	22.3	3.81	28.9	24.8	4.49	29.4
		120	12.6	1.62	26.7	15.0	2.06	27.0	17.5	2.56	27.4	18.7	2.83	27.6	19.9	3.12	27.8	22.3	3.73	28.1	24.8	4.41	28.5
	30	50	12.6	2.06	34.2	15.0	2.64	35.1	17.5	3.30	36.0	18.7	3.65	36.4	19.9	4.03	36.9	22.3	4.84	37.8	24.8	5.72	38.7
		60	12.6	2.02	33.5	15.0	2.59	34.2	17.5	3.23	34.9	18.7	3.58	35.3	19.9	3.95	35.7	22.3	4.75	36.5	24.8	5.61	37.3
		96	12.6	1.93	32.2	15.0	2.47	32.6	17.5	3.08	33.1	18.7	3.41	33.3	19.9	3.76	33.5	22.3	4.51	34.0	24.8	5.33	34.5
		120	12.6	1.89	31.7	15.0	2.42	32.1	17.5	3.02	32.4	18.7	3.34	32.6	19.9	3.68	32.8	22.3	4.42	33.2	24.8	5.22	33.6
	35	50	12.6	2.43	39.3	15.0	3.12	40.2	17.5	3.91	41.1	18.7	4.34	41.6	19.9	4.80	42.1	22.3	5.77	43.1	24.7	6.81	44.0
		60	12.6	2.38	38.6	15.0	3.07	39.3	17.5	3.84	40.1	18.7	4.26	40.5	19.9	4.71	40.9	22.3	5.66	41.7	24.8	6.71	42.5
		96	12.6	2.27	37.2	15.0	2.92	37.7	17.5	3.65	38.2	18.7	4.05	38.4	19.9	4.47	38.6	22.3	5.38	39.1	24.8	6.37	39.6
		120	12.6	2.23	36.8	15.0	2.86	37.1	17.5	3.58	37.5	18.7	3.97	37.7	19.9	4.38	37.9	22.3	5.27	38.3	24.8	6.24	38.7
	40	50	12.6	2.82	44.4	15.0	3.71	45.4	17.5	4.74	46.4	18.1	4.99	46.6	18.4	5.01	46.7	18.9	5.05	46.9	19.2	5.08	47.0
		60	12.6	2.77	43.7	15.0	3.64	44.5	17.5	4.62	45.3	18.7	5.16	45.7	19.3	5.41	45.9	19.8	5.45	46.0	20.3	5.49	46.1
		96	12.6	2.47	42.3	15.0	3.20	42.7	17.5	4.03	43.2	18.7	4.48	43.5	19.9	4.96	43.7	22.3	5.99	44.2	23.0	6.14	44.4
		120	12.6	2.39	41.8	15.0	3.10	42.2	17.5	3.90	42.6	18.7	4.34	42.8	19.9	4.80	43.0	22.3	5.79	43.4	23.2	6.04	43.5
	45	50	12.1	3.13	49.4	12.6	3.16	49.5	12.9	3.19	49.6	13.1	3.20	49.7	13.2	3.20	49.7	13.3	3.20	49.7	13.3	3.19	49.7
		60	12.6	3.18	48.8	13.6	3.46	49.1	14.0	3.50	49.2	14.2	3.51	49.2	14.3	3.52	49.3	14.6	3.53	49.3	14.7	3.53	49.3
		96	12.6	2.79	47.3	15.0	3.69	47.8	17.1	4.54	48.2	17.4	4.57	48.3	17.6	4.59	48.3	18.1	4.62	48.4	18.4	4.64	48.4
		120	12.6	2.71	46.8	15.0	3.56	47.2	17.5	4.53	47.6	18.7	5.06	47.8	19.3	5.26	47.9	19.8	5.31	48.0	20.2	5.34	48.1
60	10	50	10.8	1.16	13.4	12.9	1.45	14.1	15.0	1.78	14.8	16.0	1.95	15.2	17.1	2.14	15.5	19.1	2.54	16.2	21.2	2.98	16.9
		60	10.8	1.14	12.9	12.9	1.42	13.4	15.0	1.75	14.0	16.0	1.92	14.3	17.1	2.10	14.6	19.1	2.50	15.2	21.2	2.92	15.8
		96	10.8	1.09	11.8	12.9	1.36	12.1	15.0	1.66	12.5	16.0	1.83	12.7	17.1	2.00	12.8	19.1	2.37	13.2	21.2	2.78	13.6
		120	10.8	1.07	11.4	12.9	1.33	11.7	15.0	1.63	12.0	16.0	1.79	12.1	17.1	1.96	12.3	19.1	2.33	12.6	21.2	2.72	12.9
	15	50	10.8	1.20	18.4	12.9	1.50	19.1	15.0	1.84	19.8	16.0	2.02	20.2	17.1	2.22	20.5	19.1	2.63	21.2	21.2	3.08	22.0
		60	10.8	1.18	17.9	12.9	1.47	18.4	15.0	1.81	19.0	16.0	1.99	19.3	17.1	2.18	19.6	19.1	2.58	20.2	21.2	3.03	20.8
		96	10.8	1.12	16.8	12.9	1.40	17.1	15.0	1.72	17.5	16.0	1.89	17.7	17.1	2.07	17.9	19.1	2.46	18.2	21.2	2.87	18.6
		120	10.8	1.10	16.4	12.9	1.38	16.7	15.0	1.69	17.0	16.0	1.86	17.1	17.1	2.03	17.3	19.1	2.41	17.6	21.2	2.82	17.9
	20	50	10.8	1.24	23.5	12.9	1.55	24.1	15.0	1.91	24.8	16.0	2.10	25.2	17.1	2.30	25.6	19.1	2.73	26.3	21.2	3.20	27.0
		60	10.8	1.22	22.9	12.9	1.53	23.4	15.0	1.87	24.0	16.0	2.06	24.3	17.1	2.26	24.6	19.1	2.68	25.2	21.2	3.14	25.8
		96	10.8	1.16	21.8	12.9	1.46	22.1	15.0	1.79	22.5	16.0	1.96	22.7	17.1	2.15	22.9	19.1	2.55	23.2	21.2	2.99	23.6
		120	10.8	1.14	21.4	12.9	1.43	21.7	15.0	1.75	22.0	16.0	1.93	22.1	17.1	2.11	22.3	19.1	2.50	22.6	21.2	2.93	22.9
	25	50	10.8	1.44	28.5	12.9	1.81	29.2	15.0	2.23	29.9	16.0	2.46	30.3	17.1	2.70	30.7	19.1	3.21	31.4	21.2	3.77	32.2
		60	10.8	1.42	27.9	12.9	1.78	28.5	15.0	2.19	29.1	16.0	2.42	29.4	17.1	2.65	29.7	19.1	3.15	30.3	21.2	3.70	31.0
		96	10.8	1.35	26.8	12.9	1.70	27.2	15.0	2.09	27.5	16.0	2.30	27.7	17.1	2.52	27.9	19.1	3.00	28.3	21.2	3.52	28.7
		120	10.8	1.33	26.5	12.9	1.67	26.7	15.0	2.05	27.0	16.0	2.26	27.2	17.1	2.47	27.3	19.1	2.94	27.6	21.2	3.45	27.9
	30	50	10.8	1.68	33.6	12.9	2.12	34.3	15.0	2.62	35.0	16.0	2.89	35.4	17.1	3.18	35.8	19.1	3.79	36.6	21.2	4.46	37.4
		60	10.8	1.65	33.0	12.9	2.09	33.6	15.0	2.58	34.2	16.0	2.84	34.5	17.1	3.12	34.8	19.1	3.72	35.5	21.2	4.37	36.1
		96	10.8	1.58	31.8	12.9	1.99	32.2	15.0	2.45	32.6	16.0	2.70	32.8	17.1	2.97	33.0	19.1	3.54	33.4	21.2	4.15	33.8
		120	10.8	1.55	31.5	12.9	1.95	31.8	15.0	2.41	32.1	16.0	2.65	32.2	17.1	2.91	32.4	19.1	3.47	32.7	21.2	4.07	33.0
	35	50	10.8	1.97	38.7	12.9	2.50	39.4	15.0	3.10	40.2	16.0	3.43	40.6	17.1	3.77	41.0	19.1	4.51	41.8	21.2	5.32	42.6
		60	10.8	1.94	38.0	12.9	2.46	38.7	15.0	3.05	39.3	16.0	3.37	39.6	17.1	3.70	40.0	19.1	4.43	40.6	21.2	5.22	41.3
		96	10.8	1.85	36.9	12.9	2.34	37.3	15.0	2.90	37.7	16.0	3.20	37.9	17.1	3.52	38.1	19.1	4.20	38.5	21.2	4.95	38.9
		120	10.8	1.81	36.5	12.9	2.30	36.8	15.0	2.84	37.1	16.0	3.14	37.3	17.1	3.45	37.5	19.1	4.12	37.8	21.2	4.86	38.1
	40	50	10.8	2.23	43.7	12.9	2.91	44.5	15.0	3.69	45.4	16.0	4.11	45.8	17.1	4.55	46.2	18.2	4.99	46.7	18.7	5.03	46.8
		60	10.8	2.21	43.1	12.9	2.86	43.8	15.0	3.61	44.4	16.0	4.02	44.8	17.1	4.45	45.1	19.1	5.38	45.9	19.6	5.43	46.0
		96	10.8	1.99	41.9	12.9	2.55	42.3	15.0	3.18	42.7	16.0	3.52	42.9	17.1	3.88	43.1	19.1	4.66	43.6	21.2	5.51	44.0
		120	10.8	1.93	41.5	12.9	2.47	41.8	15.0	3.08	42.2	16.0	3.41	42.3	17.1	3.76	42.5	19.1	4.51	42.8	21.2	5.33	43.2
	45	50	10.8	2.63	48.9	12.2	3.13	49.4	12.6	3.16	49.5	12.7	3.18	49.6	12.9	3.19	49.6	13.1	3.20	49.7	13.3	3.20	49.7
		60	10.8	2.47	48.2	12.9	3.30	48.9	13.6	3.46	49.1	13.8	3.48	49.1	14.0	3.49	49.2	14.2	3.51	49.2	14.5	3.52	49.3
		96	10.8	2.21	46.9	12.9	2.89	47.4	15.0	3.67	47.8	16.0	4.09	48.0	17.1	4.54	48.2	17.5	4.57	48.3	17.9	4.61	48.4
		120	10.8	2.16	46.5	12.9	2.80	46.9	15.0	3.53	47.2	16.0	3.93	47.4	17.1	4.35	47.6	19.1	5.25	47.9	19.6	5.29	48.0

3 Capacity tables

3 - 1 Cooling capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	50	9.01	0.93	12.9	10.7	1.15	13.4	12.5	1.39	14.0	13.4	1.52	14.3	14.2	1.65	14.5	16.0	1.94	15.1	17.7	2.26	15.7
		60	9.01	0.92	12.4	10.7	1.13	12.8	12.5	1.36	13.3	13.4	1.49	13.5	14.2	1.62	13.8	16.0	1.91	14.3	17.7	2.22	14.8
		96	9.01	0.88	11.5	10.7	1.08	11.8	12.5	1.30	12.1	13.4	1.42	12.2	14.2	1.55	12.4	16.0	1.82	12.7	17.7	2.11	13.0
		120	9.01	0.86	11.2	10.7	1.06	11.4	12.5	1.28	11.6	13.4	1.40	11.8	14.2	1.52	11.9	16.0	1.78	12.1	17.7	2.07	12.4
	15	50	9.01	0.96	17.9	10.7	1.19	18.4	12.5	1.44	19.0	13.4	1.57	19.3	14.2	1.71	19.6	16.0	2.01	20.1	17.7	2.34	20.7
		60	9.01	0.95	17.4	10.7	1.17	17.8	12.5	1.41	18.3	13.4	1.54	18.6	14.2	1.68	18.8	16.0	1.97	19.3	17.7	2.29	19.8
		96	9.01	0.91	16.5	10.7	1.12	16.8	12.5	1.35	17.1	13.4	1.47	17.2	14.2	1.60	17.4	16.0	1.88	17.7	17.7	2.18	18.0
		120	9.01	0.89	16.2	10.7	1.10	16.4	12.5	1.32	16.6	13.4	1.44	16.8	14.2	1.57	16.9	16.0	1.85	17.1	17.7	2.14	17.4
	20	50	9.01	1.00	22.9	10.7	1.23	23.4	12.5	1.49	24.0	13.4	1.63	24.3	14.2	1.77	24.6	16.0	2.09	25.2	17.7	2.43	25.8
		60	9.01	0.98	22.4	10.7	1.21	22.9	12.5	1.46	23.3	13.4	1.60	23.6	14.2	1.74	23.8	16.0	2.05	24.3	17.7	2.38	24.8
		96	9.01	0.94	21.5	10.7	1.16	21.8	12.5	1.40	22.1	13.4	1.53	22.2	14.2	1.66	22.4	16.0	1.95	22.7	17.7	2.27	23.0
		120	9.01	0.93	21.2	10.7	1.14	21.4	12.5	1.37	21.7	13.4	1.50	21.8	14.2	1.63	21.9	16.0	1.92	22.1	17.7	2.22	22.4
	25	50	9.01	1.16	27.9	10.7	1.43	28.5	12.5	1.74	29.1	13.4	1.90	29.4	14.2	2.08	29.7	16.0	2.45	30.3	17.7	2.85	30.9
		60	9.01	1.14	27.4	10.7	1.41	27.9	12.5	1.71	28.4	13.4	1.87	28.6	14.2	2.04	28.9	16.0	2.40	29.4	17.7	2.80	29.9
		96	9.01	1.09	26.5	10.7	1.34	26.8	12.5	1.63	27.1	13.4	1.78	27.3	14.2	1.94	27.4	16.0	2.29	27.7	17.7	2.66	28.0
		120	9.01	1.07	26.2	10.7	1.32	26.4	12.5	1.60	26.7	13.4	1.75	26.8	14.2	1.91	26.9	16.0	2.24	27.2	17.7	2.61	27.4
	30	50	9.01	1.34	33.0	10.7	1.67	33.6	12.5	2.03	34.2	13.4	2.23	34.5	14.2	2.43	34.8	16.0	2.88	35.4	17.7	3.36	36.0
		60	9.01	1.32	32.5	10.7	1.64	33.0	12.5	2.00	33.5	13.4	2.19	33.7	14.2	2.39	34.0	16.0	2.82	34.5	17.7	3.30	35.0
		96	9.01	1.26	31.5	10.7	1.56	31.8	12.5	1.90	32.1	13.4	2.09	32.3	14.2	2.28	32.5	16.0	2.69	32.8	17.7	3.13	33.1
		120	9.01	1.24	31.2	10.7	1.54	31.5	12.5	1.87	31.7	13.4	2.05	31.8	14.2	2.23	32.0	16.0	2.64	32.2	17.7	3.07	32.5
	35	50	9.01	1.56	38.0	10.7	1.95	38.6	12.5	2.39	39.3	13.4	2.63	39.6	14.2	2.88	39.9	16.0	3.41	40.6	17.7	3.99	41.2
		60	9.01	1.54	37.5	10.7	1.92	38.0	12.5	2.35	38.5	13.4	2.58	38.8	14.2	2.82	39.1	16.0	3.35	39.6	17.7	3.91	40.2
		96	9.01	1.47	36.6	10.7	1.83	36.9	12.5	2.24	37.2	13.4	2.46	37.4	14.2	2.69	37.5	16.0	3.18	37.9	17.7	3.72	38.2
		120	9.01	1.45	36.2	10.7	1.80	36.5	12.5	2.20	36.8	13.4	2.41	36.9	14.2	2.64	37.0	16.0	3.12	37.3	17.7	3.65	37.5
	40	50	9.01	1.72	43.1	10.7	2.21	43.7	12.5	2.77	44.4	13.4	3.07	44.7	14.2	3.39	45.0	16.0	4.08	45.7	17.7	4.83	46.5
		60	9.01	1.71	42.6	10.7	2.19	43.1	12.5	2.73	43.6	13.4	3.02	43.9	14.2	3.33	44.2	16.0	3.99	44.8	17.7	4.72	45.4
		96	9.01	1.57	41.6	10.7	1.97	41.9	12.5	2.43	42.2	13.4	2.68	42.4	14.2	2.94	42.6	16.0	3.50	42.9	17.7	4.11	43.3
		120	9.01	1.52	41.3	10.7	1.91	41.5	12.5	2.35	41.8	13.4	2.59	41.9	14.2	2.85	42.0	16.0	3.39	42.3	17.7	3.98	42.6
	45	50	9.01	1.97	48.1	10.7	2.60	48.8	12.1	3.12	49.4	12.3	3.14	49.4	12.4	3.15	49.5	12.7	3.17	49.6	13.0	3.19	49.6
		60	9.01	1.86	47.6	10.7	2.45	48.2	12.5	3.12	48.7	13.2	3.43	49.0	13.4	3.45	49.0	13.8	3.48	49.1	14.0	3.50	49.2
		96	9.01	1.69	46.6	10.7	2.19	46.9	12.5	2.74	47.3	13.4	3.05	47.4	14.2	3.37	47.6	16.0	4.06	48.0	17.2	4.55	48.2
		120	9.01	1.67	46.3	10.7	2.14	46.5	12.5	2.67	46.8	13.4	2.95	46.9	14.2	3.26	47.1	16.0	3.91	47.4	17.7	4.62	47.7

3 Capacity tables

3 - 1 Cooling capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	50	46.9	6.96	17.7	55.9	9.26	19.3	61.1	9.79	20.2	62.0	9.84	20.3	62.8	9.88	20.4	64.2	9.94	20.6	65.3	9.97	20.8
		60	46.9	6.82	16.4	55.9	9.08	17.8	61.3	9.69	18.5	62.2	9.74	18.6	63.1	9.78	18.7	64.5	9.84	18.9	65.6	9.87	19.0
		96	46.9	6.48	14.0	55.9	8.62	14.8	62.1	9.43	15.3	63.0	9.47	15.4	63.9	9.51	15.5	65.3	9.57	15.6	66.5	9.61	15.7
		120	46.9	6.36	13.2	55.9	8.45	13.8	62.4	9.33	14.3	63.3	9.37	14.3	64.2	9.41	14.4	65.6	9.47	14.5	66.8	9.51	14.6
	15	50	46.9	7.20	22.7	55.9	9.59	24.4	60.0	10.1	25.0	60.8	10.1	25.2	61.6	10.2	25.3	63.0	10.2	25.5	64.0	10.3	25.6
		60	46.9	7.07	21.4	55.9	9.40	22.8	60.2	9.98	23.4	61.1	10.0	23.5	61.9	10.1	23.6	63.3	10.1	23.8	64.3	10.2	23.9
		96	46.9	6.71	19.0	55.9	8.92	19.8	61.0	9.71	20.3	61.9	9.75	20.3	62.7	9.79	20.4	64.1	9.85	20.5	65.2	9.89	20.6
		120	46.9	6.58	18.2	55.9	8.75	18.9	61.3	9.60	19.2	62.2	9.65	19.3	63.0	9.69	19.3	64.4	9.75	19.4	65.5	9.79	19.5
	20	50	46.9	7.48	27.8	55.9	9.97	29.4	58.6	10.4	29.9	59.4	10.4	30.0	60.2	10.5	30.1	61.4	10.5	30.3	62.4	10.6	30.4
		60	46.9	7.34	26.5	55.9	9.78	27.8	58.8	10.3	28.3	59.7	10.3	28.4	60.4	10.4	28.5	61.7	10.4	28.6	62.7	10.5	28.7
		96	46.9	6.97	24.0	55.9	9.28	24.9	59.6	9.98	25.2	60.4	10.0	25.3	61.2	10.1	25.3	62.5	10.1	25.4	63.5	10.2	25.5
		120	46.9	6.84	23.2	55.9	9.09	23.9	59.8	9.88	24.2	60.7	9.93	24.2	61.5	9.97	24.3	62.8	10.0	24.4	63.9	10.1	24.4
	25	50	46.9	8.82	33.0	55.0	11.4	34.5	56.8	11.5	34.8	57.6	11.6	34.9	58.3	11.6	35.0	59.5	11.7	35.2	60.3	11.7	35.3
		60	46.9	8.66	31.6	55.3	11.3	32.9	57.1	11.4	33.2	57.9	11.5	33.3	58.6	11.5	33.4	59.8	11.6	33.5	60.6	11.6	33.6
		96	46.9	8.22	29.1	55.9	11.0	30.0	57.8	11.1	30.1	58.6	11.2	30.2	59.4	11.2	30.3	60.6	11.3	30.4	61.5	11.3	30.4
		120	46.9	8.06	28.3	55.9	10.7	29.0	58.1	11.0	29.1	58.9	11.0	29.2	59.6	11.1	29.2	60.9	11.1	29.3	61.8	11.2	29.4
	30	50	46.9	10.4	38.2	53.0	12.6	39.4	54.8	12.7	39.7	55.5	12.7	39.8	56.1	12.8	39.9	57.1	12.8	40.0	57.8	12.9	40.1
		60	46.9	10.3	36.8	53.3	12.4	37.9	55.0	12.6	38.1	55.8	12.6	38.2	56.4	12.7	38.2	57.4	12.7	38.4	58.1	12.7	38.5
		96	46.9	9.73	34.2	53.9	12.1	34.9	55.7	12.2	35.1	56.5	12.3	35.1	57.1	12.3	35.2	58.2	12.4	35.3	59.0	12.4	35.3
		120	46.9	9.54	33.4	54.2	12.0	34.0	56.0	12.1	34.1	56.7	12.2	34.1	57.4	12.2	34.2	58.5	12.3	34.2	59.3	12.3	34.3
	35	50	46.9	12.5	43.5	50.7	13.7	44.2	52.3	13.9	44.5	53.0	13.9	44.6	53.5	14.0	44.7	54.4	14.0	44.8	54.8	14.0	44.9
		60	46.9	12.2	42.1	51.0	13.6	42.7	52.6	13.7	42.9	53.2	13.8	43.0	53.8	13.8	43.1	54.6	13.9	43.2	55.1	13.9	43.2
		96	46.9	11.6	39.4	51.6	13.2	39.8	53.2	13.4	40.0	53.9	13.4	40.0	54.5	13.5	40.1	55.4	13.5	40.1	56.0	13.5	40.2
		120	46.9	11.4	38.5	51.8	13.1	38.9	53.5	13.2	39.0	54.2	13.3	39.0	54.8	13.3	39.1	55.7	13.4	39.1	56.3	13.4	39.2
	40	50	38.1	10.1	46.9	39.2	10.2	47.1	39.9	10.2	47.2	40.0	10.2	47.2	40.0	10.2	47.2	39.6	10.1	47.1	38.7	9.91	47.0
		60	40.1	10.9	46.1	41.4	11.0	46.3	42.3	11.1	46.4	42.5	11.1	46.4	42.6	11.1	46.4	42.5	11.0	46.4	42.0	10.9	46.3
		96	45.5	12.2	44.3	47.3	12.4	44.5	48.6	12.5	44.6	49.2	12.5	44.6	49.6	12.5	44.6	50.1	12.6	44.7	50.2	12.5	44.7
		120	45.9	12.0	43.5	47.7	12.2	43.6	49.1	12.3	43.7	49.6	12.3	43.7	50.0	12.3	43.7	50.6	12.4	43.8	50.8	12.3	43.8
	45	50	26.6	6.39	49.7	26.3	6.30	49.7	25.3	6.12	49.5	24.4	6.00	49.4	23.4	5.85	49.2	20.8	5.49	48.8	17.4	5.04	48.2
		60	29.2	7.05	49.3	29.3	7.01	49.3	28.8	6.88	49.3	28.2	6.79	49.2	27.5	6.68	49.1	25.5	6.39	48.8	22.8	6.03	48.4
		96	36.4	9.26	48.4	37.4	9.32	48.5	37.9	9.32	48.5	37.9	9.30	48.5	37.8	9.25	48.5	37.2	9.12	48.5	36.1	8.93	48.4
		120	40.0	10.6	48.0	41.3	10.7	48.1	42.1	10.8	48.2	42.4	10.8	48.2	42.5	10.8	48.2	42.4	10.7	48.2	41.8	10.6	48.1
120	10	50	43.2	6.13	17.1	51.6	8.12	18.6	59.9	9.73	20.0	60.9	9.78	20.1	61.7	9.83	20.3	63.2	9.90	20.5	64.4	9.95	20.7
		60	43.2	6.02	15.9	51.6	7.97	17.1	59.9	9.62	18.3	61.2	9.69	18.5	62.0	9.73	18.6	63.5	9.80	18.8	64.8	9.85	18.9
		96	43.2	5.72	13.7	51.6	7.56	14.4	59.9	9.31	15.2	61.9	9.42	15.3	62.8	9.46	15.4	64.3	9.53	15.5	65.6	9.58	15.6
		120	43.2	5.61	12.9	51.6	7.41	13.5	59.9	9.19	14.1	62.2	9.32	14.3	63.1	9.36	14.3	64.6	9.43	14.4	65.9	9.48	14.5
	15	50	43.2	6.35	22.1	51.6	8.41	23.6	58.9	10.0	24.9	59.8	10.1	25.0	60.6	10.1	25.1	62.1	10.2	25.4	63.2	10.2	25.5
		60	43.2	6.23	20.9	51.6	8.25	22.1	59.2	9.92	23.3	60.1	9.97	23.4	60.9	10.0	23.5	62.4	10.1	23.7	63.5	10.1	23.8
		96	43.2	5.92	18.7	51.6	7.83	19.4	59.9	9.65	20.2	60.8	9.70	20.3	61.7	9.74	20.3	63.2	9.81	20.4	64.4	9.86	20.5
		120	43.2	5.80	17.9	51.6	7.68	18.5	59.9	9.53	19.1	61.1	9.60	19.2	62.0	9.64	19.3	63.5	9.71	19.4	64.7	9.76	19.4
	20	50	43.2	6.59	27.1	51.6	8.74	28.6	57.5	10.3	29.7	58.4	10.4	29.9	59.2	10.4	30.0	60.6	10.5	30.2	61.6	10.5	30.3
		60	43.2	6.47	25.9	51.6	8.57	27.2	57.8	10.2	28.1	58.7	10.3	28.2	59.5	10.3	28.3	60.8	10.4	28.5	62.0	10.4	28.6
		96	43.2	6.15	23.7	51.6	8.14	24.5	58.5	9.93	25.1	59.4	9.98	25.2	60.2	10.0	25.2	61.6	10.1	25.4	62.8	10.1	25.4
		120	43.2	6.03	22.9	51.6	7.98	23.6	58.8	9.82	24.1	59.7	9.87	24.2	60.5	9.91	24.2	61.9	9.99	24.3	63.1	10.0	24.4
	25	50	43.2	7.77	32.3	51.6	10.3	33.9	55.9	11.5	34.7	56.7	11.5	34.8	57.4	11.6	34.9	58.7	11.6	35.1	59.7	11.7	35.2
		60	43.2	7.62	31.1	51.6	10.1	32.4	56.1	11.3	33.1	56.9	11.4	33.2	57.7	11.5	33.3	59.0	11.5	33.4	60.0	11.6	33.5
		96	43.2	7.24	28.8	51.6	9.60	29.6	56.8	11.0	30.1	57.7	11.1	30.1	58.4	11.1	30.2	59.8	11.2	30.3	60.8	11.3	30.4
		120	43.2	7.10	28.0	51.6	9.41	28.6	57.1	10.9	29.1	57.9	11.0	29.1	58.7	11.0	29.2	60.0	11.1	29.2	61.1	11.2	29.3
	30	50	43.2	9.18	37.5	51.6	12.2	39.1	53.9	12.6	39.5	54.6	12.7	39.6	55.3	12.7	39.8	56.5	12.8	39.9	57.3	12.9	40.1
		60	43.2	9.01	36.2	51.6	12.0	37.6	54.1	12.5	38.0	54.9	12.6	38.1	55.6	12.6	38.1	56.7	12.7	38.3	57.6	12.7	38.4
		96	43.2	8.56	33.9	51.6	11.4	34.7	54.8	12.2	35.0	55.6	12.2	35.1	56.3	12.3	35.1	57.5	12.3	35.2	58.4	12.4	35.3
		120	43.2	8.39	33.1	51.6	11.2	33.7	55.0	12.0	34.0	55.8	12.1	34.1	56.5	12.1	34.1	57.8	12.2	34.2	58.7	12.3	34.2
	35	50	43.2	11.0	42.8	49.9	13.7	44.1	51.5	13.8	44.4	52.2	13.9	44.5	52.8	13.9	44.6	53.8	14.0	44.7	54.5	14.0	44.8
		60	43.2	10.7	41.4	50.1	13.5	42.6	51.7	13.7	42.8	52.4	13.7	42.9	53.1	13.8	43.0	54.1	13.8	43.1	54.8	13.9	43.2
		96	43.2	10.2	39.0	50.7	13.2	39.8	52.4	13.3	39.9	53.1	13.4	40.0	53.8	13.4	40.0	54.8	13.5	40.1	55.6	13.5	40.2
		120	43.2	10.0	38.2	50.9	13.0	38.8	52.6	13.2	38.9	53.4	13.2	39.0	54.0	13.3	39.0	55.1	13.3	39.1	55.9	13.4	39.1
	40	50	37.5	10.1	46.8	38.7	10.2	47.0	39.6	10.2	47.1	39.8	10.2	47.2	40.0	10.2	47.2	40.0	10.2	47.2	39.5	10.0	47.1
		60	39.4	10.9	46.0	40.8	11.0	46.2	41.8	11.1	46.3	42.2	11.1	46.4	42.5	11.1	46.4	42.7	11.1	46.4	42.5	11.0	46.4
		96	43.2	11.4	44.1	46.5	12.3	44.4	47.9	12.4	44.5	48.5	12.5	44.6	49.0	12.5	44.6	49.8	12.6	44.7	50.2	12.5	44.7
		120	43.2	11.0	43.2	46.9	12.1	43.5	48.4	12.2	43.6	49.0	12.3	43.7	49.5	12.3	43.7	50.3	12.4	43.7	50.7	12.4	43.8
	45	50	26.5	6.40	49.7	26.6	6.36	49.7	26.0	6.23	49.6	25.4	6.14	49.5	24.7	6.03	49.4	22.7	5.75	49.1	20.2	5.40	48.7
		60	29.0	7.05	49.3	29.4	7.04	49.4	29.2	6.96	49.3	28.8	6.90	49.3	28.4	6.82	49.2	27.0	6.60	49.0	25.0	6.32	48.7
		96	35.9	9.22	48.4	37.0	9.30	48.5	37.7	9.33	48.5	37.9	9.32	48.5	37.9	9.30	48.5	37.7	9.22	48.5	37.0	9.08	48.4
		120	39.3	10.6	48.0	40.7	10.7	48.1	41.7	10.8	48.1	42.1	10.8	48.2	42.3	10.8	48.2	42.5	10.8	48.2	42.3	10.7	48.2

3 Capacity tables

3 - 1 Cooling capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	50	39.6	5.36	16.5	47.3	7.06	17.8	54.9	9.00	19.2	58.7	9.66	19.8	60.6	9.77	20.1	62.1	9.84	20.3	63.4	9.90	20.5
		60	39.6	5.26	15.4	47.3	6.92	16.5	54.9	8.83	17.6	58.7	9.54	18.2	60.8	9.67	18.4	62.4	9.75	18.6	63.7	9.81	18.8
		96	39.6	5.00	13.3	47.3	6.58	14.0	54.9	8.37	14.7	58.7	9.23	15.1	61.6	9.40	15.3	63.2	9.48	15.4	64.5	9.54	15.5
		120	39.6	4.91	12.7	47.3	6.45	13.2	54.9	8.21	13.8	58.7	9.12	14.1	61.9	9.31	14.3	63.5	9.38	14.4	64.8	9.44	14.4
	15	50	39.6	5.55	21.5	47.3	7.31	22.8	54.9	9.32	24.2	58.7	10.0	24.8	59.5	10.1	25.0	61.0	10.1	25.2	62.3	10.2	25.4
		60	39.6	5.44	20.4	47.3	7.17	21.5	54.9	9.14	22.7	58.7	9.89	23.2	59.8	9.95	23.3	61.3	10.0	23.5	62.6	10.1	23.7
		96	39.6	5.18	18.3	47.3	6.81	19.0	54.9	8.67	19.7	58.7	9.57	20.1	60.5	9.68	20.2	62.0	9.76	20.4	63.4	9.82	20.5
		120	39.6	5.08	17.7	47.3	6.68	18.2	54.9	8.50	18.8	58.7	9.45	19.1	60.8	9.58	19.2	62.3	9.66	19.3	63.7	9.72	19.4
	20	50	39.6	5.76	26.5	47.3	7.59	27.9	54.9	9.69	29.3	57.3	10.3	29.7	58.1	10.3	29.8	59.5	10.4	30.0	60.7	10.5	30.2
		60	39.6	5.66	25.4	47.3	7.45	26.5	54.9	9.50	27.7	57.6	10.2	28.1	58.4	10.2	28.2	59.8	10.3	28.4	61.0	10.4	28.5
		96	39.6	5.38	23.4	47.3	7.08	24.1	54.9	9.02	24.8	58.3	9.91	25.1	59.1	9.96	25.2	60.6	10.0	25.3	61.8	10.1	25.4
		120	39.6	5.27	22.7	47.3	6.94	23.2	54.9	8.84	23.8	58.5	9.81	24.1	59.4	9.85	24.1	60.9	9.93	24.2	62.1	10.00	24.3
	25	50	39.6	6.78	31.7	47.3	8.95	33.1	54.8	11.4	34.5	55.6	11.4	34.6	56.4	11.5	34.7	57.7	11.6	34.9	58.9	11.7	35.1
		60	39.6	6.65	30.5	47.3	8.78	31.7	54.9	11.2	32.9	55.9	11.3	33.0	56.7	11.4	33.1	58.0	11.5	33.3	59.2	11.5	33.4
		96	39.6	6.32	28.4	47.3	8.34	29.2	54.9	10.6	29.9	56.6	11.0	30.0	57.4	11.1	30.1	58.8	11.2	30.2	59.9	11.2	30.3
		120	39.6	6.20	27.7	47.3	8.18	28.3	54.9	10.4	28.9	56.8	10.9	29.0	57.6	11.0	29.1	59.0	11.0	29.2	60.2	11.1	29.3
	30	50	39.6	8.00	36.8	47.3	10.6	38.3	52.8	12.6	39.4	53.6	12.6	39.5	54.3	12.7	39.6	55.6	12.8	39.8	56.6	12.8	40.0
		60	39.6	7.85	35.7	47.3	10.4	36.9	53.1	12.4	37.8	53.9	12.5	37.9	54.6	12.5	38.0	55.9	12.6	38.2	56.9	12.7	38.3
		96	39.6	7.46	33.5	47.3	9.88	34.3	53.7	12.1	34.9	54.5	12.1	35.0	55.3	12.2	35.0	56.6	12.3	35.1	57.6	12.4	35.2
		120	39.6	7.32	32.8	47.3	9.68	33.4	54.0	12.0	33.9	54.8	12.0	34.0	55.5	12.1	34.0	56.9	12.2	34.1	57.9	12.2	34.2
	35	50	39.6	9.53	42.0	47.3	12.7	43.6	50.5	13.7	44.2	51.3	13.8	44.3	51.9	13.8	44.4	53.1	13.9	44.6	53.9	14.0	44.7
		60	39.6	9.35	40.9	47.3	12.4	42.1	50.8	13.6	42.7	51.5	13.6	42.8	52.2	13.7	42.9	53.3	13.8	43.0	54.2	13.8	43.1
		96	39.6	8.88	38.6	47.3	11.8	39.4	51.4	13.2	39.8	52.2	13.3	39.9	52.9	13.3	39.9	54.0	13.4	40.0	54.9	13.5	40.1
		120	39.6	8.71	37.9	47.3	11.6	38.5	51.7	13.1	38.9	52.4	13.1	38.9	53.1	13.2	39.0	54.3	13.3	39.0	55.2	13.3	39.1
	40	50	36.8	10.0	46.7	38.1	10.1	46.9	39.1	10.2	47.1	39.5	10.2	47.1	39.8	10.2	47.2	40.0	10.2	47.2	39.9	10.1	47.2
		60	38.6	10.8	45.9	40.1	10.9	46.1	41.3	11.0	46.2	41.7	11.1	46.3	42.1	11.1	46.4	42.5	11.1	46.4	42.7	11.0	46.4
		96	39.6	9.86	43.7	45.6	12.2	44.3	47.1	12.4	44.4	47.8	12.4	44.5	48.3	12.5	44.5	49.2	12.5	44.6	49.9	12.6	44.7
		120	39.6	9.53	42.9	46.0	12.0	43.5	47.5	12.2	43.6	48.2	12.2	43.6	48.8	12.3	43.6	49.7	12.3	43.7	50.3	12.4	43.7
	45	50	26.3	6.40	49.7	26.6	6.39	49.7	26.4	6.31	49.7	26.1	6.25	49.6	25.6	6.18	49.6	24.3	5.97	49.3	22.4	5.71	49.0
		60	28.7	7.03	49.3	29.3	7.05	49.3	29.4	7.02	49.3	29.2	6.98	49.3	29.0	6.93	49.3	28.1	6.77	49.2	26.7	6.56	49.0
		96	35.3	9.17	48.3	36.5	9.27	48.4	37.4	9.32	48.5	37.7	9.33	48.5	37.8	9.33	48.5	37.9	9.29	48.5	37.6	9.20	48.5
		120	38.5	10.5	47.9	40.0	10.7	48.0	41.2	10.7	48.1	41.6	10.8	48.1	42.0	10.8	48.2	42.4	10.8	48.2	42.5	10.8	48.2
100	10	50	36.0	4.64	15.8	43.0	6.07	17.0	49.9	7.70	18.3	53.4	8.59	18.9	56.9	9.53	19.5	60.8	9.78	20.1	62.2	9.85	20.3
		60	36.0	4.56	14.8	43.0	5.96	15.8	49.9	7.56	16.9	53.4	8.43	17.4	56.9	9.35	17.9	61.1	9.68	18.5	62.5	9.75	18.6
		96	36.0	4.34	13.0	43.0	5.66	13.6	49.9	7.17	14.3	53.4	8.00	14.6	56.9	8.87	14.9	61.9	9.42	15.3	63.3	9.49	15.4
		120	36.0	4.25	12.4	43.0	5.55	12.9	49.9	7.03	13.4	53.4	7.84	13.7	56.9	8.69	13.9	62.2	9.32	14.3	63.6	9.39	14.4
	15	50	36.0	4.80	20.9	43.0	6.29	22.1	49.9	7.98	23.3	53.4	8.90	23.9	56.9	9.87	24.6	59.7	10.1	25.0	61.1	10.1	25.2
		60	36.0	4.72	19.9	43.0	6.17	20.9	49.9	7.82	21.9	53.4	8.73	22.4	56.9	9.68	22.9	60.0	9.97	23.4	61.4	10.0	23.5
		96	36.0	4.49	18.0	43.0	5.86	18.6	49.9	7.43	19.3	53.4	8.28	19.6	56.9	9.19	19.9	60.8	9.70	20.3	62.1	9.76	20.4
		120	36.0	4.40	17.4	43.0	5.75	17.9	49.9	7.28	18.4	53.4	8.12	18.7	56.9	9.00	18.9	61.0	9.59	19.2	62.4	9.66	19.3
	20	50	36.0	4.99	25.9	43.0	6.53	27.1	49.9	8.29	28.3	53.4	9.25	29.0	56.9	10.3	29.6	58.4	10.4	29.8	59.6	10.4	30.0
		60	36.0	4.90	24.9	43.0	6.41	25.9	49.9	8.13	26.9	53.4	9.07	27.5	56.9	10.1	28.0	58.6	10.3	28.2	59.9	10.3	28.4
		96	36.0	4.66	23.0	43.0	6.09	23.7	49.9	7.72	24.3	53.4	8.61	24.6	56.9	9.55	25.0	59.4	9.97	25.2	60.7	10.0	25.3
		120	36.0	4.57	22.4	43.0	5.97	22.9	49.9	7.57	23.4	53.4	8.44	23.7	56.9	9.36	24.0	59.6	9.87	24.2	61.0	9.94	24.2
	25	50	36.0	5.86	31.0	43.0	7.69	32.3	49.9	9.78	33.6	53.4	10.9	34.2	55.2	11.4	34.6	56.6	11.5	34.8	57.8	11.6	35.0
		60	36.0	5.75	30.0	43.0	7.55	31.0	49.9	9.59	32.1	53.4	10.7	32.7	55.5	11.3	33.0	56.9	11.4	33.2	58.1	11.5	33.3
		96	36.0	5.47	28.1	43.0	7.17	28.7	49.9	9.11	29.4	53.4	10.2	29.7	56.2	11.0	30.0	57.6	11.1	30.1	58.9	11.2	30.2
		120	36.0	5.37	27.5	43.0	7.03	28.0	49.9	8.93	28.5	53.4	9.96	28.8	56.4	10.9	29.0	57.9	11.0	29.1	59.1	11.0	29.2
	30	50	36.0	6.91	36.2	43.0	9.10	37.5	49.9	11.6	38.8	52.5	12.5	39.3	53.2	12.6	39.4	54.6	12.7	39.6	55.7	12.8	39.8
		60	36.0	6.78	35.1	43.0	8.92	36.2	49.9	11.4	37.3	52.7	12.4	37.8	53.5	12.5	37.9	54.8	12.6	38.0	56.0	12.6	38.2
		96	36.0	6.44	33.2	43.0	8.47	33.8	49.9	10.8	34.5	53.4	12.1	34.9	54.2	12.1	34.9	55.5	12.2	35.1	56.7	12.3	35.1
		120	36.0	6.32	32.5	43.0	8.31	33.1	49.9	10.6	33.6	53.4	11.8	33.9	54.4	12.0	34.0	55.8	12.1	34.1	56.9	12.2	34.1
	35	50	36.0	8.21	41.3	43.0	10.8	42.7	49.5	13.6	44.0	50.2	13.7	44.2	50.9	13.8	44.3	52.1	13.9	44.5	53.1	13.9	44.6
		60	36.0	8.05	40.3	43.0	10.6	41.4	49.7	13.5	42.6	50.5	13.6	42.6	51.2	13.6	42.7	52.4	13.7	42.9	53.4	13.8	43.0
		96	36.0	7.65	38.3	43.0	10.1	39.0	49.9	12.9	39.7	51.1	13.2	39.8	51.8	13.2	39.9	53.1	13.3	40.0	54.1	13.4	40.0
		120	36.0	7.51	37.6	43.0	9.91	38.2	49.9	12.7	38.7	51.3	13.0	38.8	52.0	13.1	38.9	53.3	13.2	39.0	54.4	13.3	39.0
	40	50	36.0	9.94	46.6	37.4	10.1	46.8	38.5	10.2	47.0	39.0	10.2	47.0	39.3	10.2	47.1	39.8	10.2	47.2	40.0	10.2	47.2
		60	36.0	9.73	45.5	39.3	10.9	46.0	40.6	11.0	46.2	41.1	11.0	46.2	41.5	11.0	46.3	42.2	11.1	46.4	42.6	11.1	46.4
		96	36.0	8.46	43.3	43.0	11.2	44.0	46.2	12.3	44.4	46.8	12.4	44.4	47.5	12.4	44.5	48.5	12.5	44.6	49.3	12.5	44.6
		120	36.0	8.19	42.6	43.0	10.9	43.2	46.6	12.1	43.5	47.3	12.2	43.5	47.9	12.2	43.6	48.9	12.3	43.7	49.8	12.3	43.7
	45	50	26.0	6.39	49.6	26.5	6.40	49.7	26.6	6.37	49.7	26.5	6.33	49.7	26.3	6.29	49.7	25.4	6.15	49.5	24.2	5.95	49.3
		60	28.2	7.00	49.2	29.0	7.05	49.3	29.4	7.05	49.3	29.4	7.03	49.3	29.3	7.00	49.3	28.9	6.90	49.3	28.0	6.76	49.2
		96	34.5	9.11	48.3	35.9	9.22	48.4	36.8	9.29	48.4	37.2	9.31	48.5	37.5	9.33	48.5	37.9	9.33	48.5	37.9	9.28	48.5
		120	36.0	9.52	47.7	39.2	10.6	48.0	40.5	10.7	48.1	41.0	10.7	48.1	41.4	10.8	48.1	42.1	10.8	48.2	42.4	10.8	48.2

3 Capacity tables

3 - 1 Cooling capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	50	32.4	3.98	15.2	38.7	5.16	16.3	44.9	6.51	17.4	48.1	7.24	17.9	51.2	8.02	18.5	57.4	9.57	19.6	60.8	9.78	20.1
		60	32.4	3.91	14.3	38.7	5.07	15.2	44.9	6.39	16.1	48.1	7.11	16.6	51.2	7.87	17.1	57.4	9.46	18.0	61.1	9.68	18.5
		96	32.4	3.72	12.7	38.7	4.82	13.2	44.9	6.07	13.8	48.1	6.75	14.1	51.2	7.47	14.4	57.4	9.02	15.0	61.8	9.42	15.3
		120	32.4	3.65	12.2	38.7	4.73	12.6	44.9	5.95	13.0	48.1	6.62	13.3	51.2	7.32	13.5	57.4	8.84	14.0	62.1	9.32	14.3
	15	50	32.4	4.12	20.2	38.7	5.34	21.3	44.9	6.74	22.4	48.1	7.50	23.0	51.2	8.30	23.5	57.4	9.92	24.7	59.7	10.1	25.0
		60	32.4	4.04	19.4	38.7	5.25	20.2	44.9	6.61	21.2	48.1	7.36	21.6	51.2	8.15	22.1	57.4	9.80	23.0	60.0	9.97	23.4
		96	32.4	3.85	17.7	38.7	4.99	18.3	44.9	6.28	18.8	48.1	6.99	19.1	51.2	7.73	19.4	57.4	9.34	20.0	60.7	9.69	20.3
		120	32.4	3.78	17.2	38.7	4.89	17.6	44.9	6.16	18.1	48.1	6.85	18.3	51.2	7.58	18.5	57.4	9.15	19.0	61.0	9.59	19.2
	20	50	32.4	4.27	25.3	38.7	5.55	26.3	44.9	7.00	27.4	48.1	7.80	28.0	51.2	8.63	28.6	57.0	10.3	29.6	58.3	10.4	29.8
		60	32.4	4.20	24.4	38.7	5.45	25.3	44.9	6.87	26.2	48.1	7.65	26.7	51.2	8.47	27.1	57.3	10.2	28.1	58.6	10.3	28.2
		96	32.4	4.00	22.7	38.7	5.18	23.3	44.9	6.53	23.8	48.1	7.26	24.1	51.2	8.04	24.4	57.4	9.71	25.0	59.3	9.97	25.2
		120	32.4	3.92	22.2	38.7	5.08	22.6	44.9	6.40	23.1	48.1	7.12	23.3	51.2	7.88	23.5	57.4	9.52	24.0	59.6	9.87	24.1
	25	50	32.4	5.01	30.4	38.7	6.53	31.5	44.9	8.25	32.6	48.1	9.19	33.2	51.2	10.2	33.8	55.3	11.4	34.6	56.6	11.5	34.8
		60	32.4	4.92	29.5	38.7	6.41	30.4	44.9	8.10	31.3	48.1	9.02	31.8	51.2	9.99	32.3	55.6	11.3	33.0	56.9	11.4	33.2
		96	32.4	4.68	27.8	38.7	6.09	28.3	44.9	7.69	28.9	48.1	8.56	29.2	51.2	9.48	29.5	56.3	11.0	30.0	57.6	11.1	30.1
		120	32.4	4.60	27.2	38.7	5.97	27.7	44.9	7.54	28.1	48.1	8.39	28.4	51.2	9.30	28.6	56.5	10.9	29.0	57.8	11.0	29.1
	30	50	32.4	5.89	35.5	38.7	7.70	36.6	44.9	9.77	37.8	48.1	10.9	38.4	51.2	12.1	39.1	53.4	12.6	39.5	54.5	12.7	39.6
		60	32.4	5.79	34.6	38.7	7.56	35.5	44.9	9.58	36.5	48.1	10.7	37.0	51.2	11.9	37.5	53.6	12.5	37.9	54.8	12.6	38.0
		96	32.4	5.51	32.8	38.7	7.18	33.4	44.9	9.10	34.0	48.1	10.1	34.3	51.2	11.2	34.7	54.3	12.1	35.0	55.5	12.2	35.1
		120	32.4	5.40	32.3	38.7	7.05	32.7	44.9	8.92	33.2	48.1	9.94	33.5	51.2	11.0	33.7	54.5	12.0	34.0	55.8	12.1	34.1
	35	50	32.4	6.99	40.7	38.7	9.17	41.9	44.9	11.7	43.1	48.1	13.0	43.8	49.8	13.7	44.1	51.0	13.8	44.3	52.1	13.9	44.5
		60	32.4	6.86	39.7	38.7	9.00	40.7	44.9	11.4	41.7	48.1	12.8	42.3	50.0	13.5	42.6	51.3	13.6	42.8	52.4	13.7	42.9
		96	32.4	6.52	37.9	38.7	8.55	38.5	44.9	10.9	39.2	48.1	12.1	39.5	50.6	13.1	39.8	51.9	13.3	39.9	53.0	13.3	40.0
		120	32.4	6.40	37.3	38.7	8.38	37.8	44.9	10.6	38.3	48.1	11.9	38.6	50.8	13.0	38.8	52.2	13.1	38.9	53.3	13.2	39.0
	40	50	32.4	8.38	45.9	36.6	10.00	46.7	37.7	10.1	46.9	38.2	10.1	46.9	38.7	10.2	47.0	39.4	10.2	47.1	39.8	10.2	47.2
		60	32.4	8.20	44.9	38.4	10.8	45.9	39.7	10.9	46.0	40.3	11.0	46.1	40.8	11.0	46.2	41.6	11.1	46.3	42.2	11.1	46.4
		96	32.4	7.17	43.0	38.7	9.47	43.6	44.9	12.1	44.3	45.8	12.3	44.3	46.4	12.3	44.4	47.6	12.4	44.5	48.5	12.5	44.6
		120	32.4	6.94	42.4	38.7	9.16	42.9	44.9	11.7	43.4	46.2	12.1	43.5	46.8	12.1	43.5	48.0	12.2	43.6	48.9	12.3	43.7
	45	50	25.5	6.36	49.6	26.3	6.40	49.7	26.6	6.40	49.7	26.6	6.39	49.7	26.6	6.36	49.7	26.2	6.28	49.7	25.5	6.15	49.5
		60	27.6	6.96	49.1	28.5	7.03	49.2	29.1	7.05	49.3	29.3	7.05	49.3	29.4	7.04	49.4	29.3	6.99	49.3	28.9	6.91	49.3
		96	32.4	8.35	48.0	35.1	9.16	48.3	36.2	9.24	48.4	36.6	9.28	48.4	37.0	9.30	48.5	37.6	9.33	48.5	37.9	9.33	48.5
		120	32.4	8.02	47.4	38.3	10.5	47.9	39.6	10.6	48.0	40.2	10.7	48.0	40.7	10.7	48.1	41.5	10.8	48.1	42.1	10.8	48.2
80	10	50	28.8	3.37	14.6	34.4	4.33	15.5	39.9	5.42	16.5	42.7	6.01	17.0	45.5	6.64	17.5	51.1	7.99	18.5	56.6	9.46	19.5
		60	28.8	3.31	13.8	34.4	4.25	14.6	39.9	5.32	15.4	42.7	5.90	15.8	45.5	6.51	16.2	51.1	7.83	17.0	56.6	9.28	17.9
		96	28.8	3.15	12.4	34.4	4.05	12.9	39.9	5.06	13.4	42.7	5.61	13.6	45.5	6.19	13.9	51.1	7.44	14.4	56.6	8.80	14.9
		120	28.8	3.10	11.9	34.4	3.97	12.3	39.9	4.96	12.7	42.7	5.50	12.9	45.5	6.07	13.1	51.1	7.29	13.5	56.6	8.63	13.9
	15	50	28.8	3.49	19.6	34.4	4.48	20.6	39.9	5.61	21.5	42.7	6.23	22.0	45.5	6.87	22.5	51.1	8.27	23.5	56.6	9.80	24.5
		60	28.8	3.42	18.9	34.4	4.40	19.6	39.9	5.51	20.4	42.7	6.11	20.8	45.5	6.74	21.2	51.1	8.11	22.1	56.6	9.61	22.9
		96	28.8	3.26	17.4	34.4	4.19	17.9	39.9	5.24	18.4	42.7	5.81	18.6	45.5	6.41	18.9	51.1	7.70	19.4	56.6	9.12	19.9
		120	28.8	3.20	16.9	34.4	4.11	17.3	39.9	5.14	17.7	42.7	5.69	17.9	45.5	6.28	18.1	51.1	7.55	18.5	56.6	8.94	18.9
	20	50	28.8	3.62	24.7	34.4	4.65	25.6	39.9	5.83	26.6	42.7	6.47	27.1	45.5	7.14	27.5	51.1	8.60	28.5	56.6	10.2	29.6
		60	28.8	3.55	23.9	34.4	4.57	24.7	39.9	5.72	25.5	42.7	6.35	25.9	45.5	7.01	26.3	51.1	8.43	27.1	56.6	9.99	28.0
		96	28.8	3.39	22.4	34.4	4.35	22.9	39.9	5.44	23.4	42.7	6.03	23.6	45.5	6.66	23.9	51.1	8.00	24.4	56.6	9.48	24.9
		120	28.8	3.33	21.9	34.4	4.27	22.3	39.9	5.34	22.7	42.7	5.92	22.9	45.5	6.53	23.1	51.1	7.85	23.5	56.6	9.29	23.9
	25	50	28.8	4.23	29.7	34.4	5.46	30.7	39.9	6.86	31.7	42.7	7.62	32.2	45.5	8.42	32.7	51.1	10.1	33.8	55.2	11.4	34.5
		60	28.8	4.16	28.9	34.4	5.36	29.7	39.9	6.73	30.6	42.7	7.47	31.0	45.5	8.26	31.4	51.1	9.95	32.3	55.4	11.3	33.0
		96	28.8	3.96	27.4	34.4	5.10	27.9	39.9	6.39	28.5	42.7	7.10	28.7	45.5	7.84	29.0	51.1	9.44	29.5	56.1	11.0	30.0
		120	28.8	3.89	27.0	34.4	5.00	27.4	39.9	6.27	27.8	42.7	6.96	28.0	45.5	7.69	28.2	51.1	9.26	28.6	56.4	10.9	29.0
	30	50	28.8	4.97	34.8	34.4	6.43	35.9	39.9	8.10	36.9	42.7	9.01	37.4	45.5	9.96	37.9	51.1	12.0	39.0	53.2	12.6	39.4
		60	28.8	4.88	34.0	34.4	6.31	34.9	39.9	7.95	35.7	42.7	8.84	36.2	45.5	9.78	36.6	51.1	11.8	37.5	53.4	12.5	37.9
		96	28.8	4.64	32.5	34.4	6.00	33.0	39.9	7.55	33.5	42.7	8.39	33.8	45.5	9.28	34.1	51.1	11.2	34.6	54.1	12.1	34.9
		120	28.8	4.56	32.0	34.4	5.89	32.4	39.9	7.40	32.8	42.7	8.23	33.0	45.5	9.10	33.3	51.1	11.0	33.7	54.4	12.0	34.0
	35	50	28.8	5.87	40.0	34.4	7.63	41.0	39.9	9.65	42.1	42.7	10.7	42.7	45.5	11.9	43.2	49.7	13.6	44.1	50.9	13.8	44.3
		60	28.8	5.76	39.1	34.4	7.49	40.0	39.9	9.46	40.9	42.7	10.5	41.4	45.5	11.7	41.8	50.0	13.5	42.6	51.1	13.6	42.7
		96	28.8	5.48	37.6	34.4	7.12	38.1	39.9	8.99	38.7	42.7	10.0	38.9	45.5	11.1	39.2	50.6	13.1	39.8	51.8	13.2	39.9
		120	28.8	5.38	37.0	34.4	6.99	37.5	39.9	8.81	37.9	42.7	9.81	38.1	45.5	10.9	38.4	50.8	13.0	38.8	52.0	13.1	38.9
	40	50	28.8	6.94	45.1	34.4	9.22	46.3	36.8	10.0	46.7	37.4	10.1	46.8	37.8	10.1	46.9	38.7	10.2	47.0	39.3	10.2	47.1
		60	28.8	6.80	44.3	34.4	9.01	45.2	38.7	10.8	45.9	39.3	10.9	46.0	39.8	10.9	46.1	40.7	11.0	46.2	41.5	11.0	46.3
		96	28.8	6.00	42.6	34.4	7.86	43.2	39.9	9.98	43.7	42.7	11.1	44.0	45.2	12.2	44.3	46.4	12.3	44.4	47.4	12.4	44.5
		120	28.8	5.81	42.1	34.4	7.60	42.5	39.9	9.65	43.0	42.7	10.8	43.2	45.5	11.9	43.4	46.8	12.1	43.5	47.8	12.2	43.6
	45	50	24.9	6.31	49.5	25.8	6.37	49.6	26.4	6.40	49.7	26.5	6.41	49.7	26.6	6.40	49.7	26.6	6.36	49.7	26.3	6.29	49.7
		60	26.9	6.90	49.0	27.9	6.98	49.2	28.7	7.03	49.3	29.0	7.05	49.3	29.2	7.05	49.3	29.4	7.04	49.4	29.3	7.00	49.3
		96	28.8	6.89	47.7	34.2	9.08	48.2	35.3	9.18	48.3	35.8	9.22	48.4	36.2	9.25	48.4	37.0	9.30	48.5	37.5	9.33	48.5
		120	28.8	6.66	47.1	34.4	8.82	47.6	38.6	10.5	47.9	39.2	10.6	48.0	39.7	10.6	48.0	40.6	10.7	48.1	41.4	10.8	48.1

3 Capacity tables

3 - 1 Cooling capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	50	25.2	2.82	14.0	30.1	3.58	14.8	34.9	4.44	15.6	37.4	4.90	16.1	39.8	5.39	16.5	44.7	6.45	17.3	49.5	7.60	18.2
		60	25.2	2.77	13.3	30.1	3.51	14.0	34.9	4.36	14.7	37.4	4.81	15.0	39.8	5.29	15.4	44.7	6.33	16.1	49.5	7.46	16.8
		96	25.2	2.64	12.1	30.1	3.35	12.5	34.9	4.14	12.9	37.4	4.58	13.1	39.8	5.03	13.3	44.7	6.01	13.8	49.5	7.08	14.2
		120	25.2	2.59	11.7	30.1	3.29	12.0	34.9	4.07	12.3	37.4	4.49	12.5	39.8	4.94	12.7	44.7	5.90	13.0	49.5	6.94	13.4
	15	50	25.2	2.91	19.0	30.1	3.70	19.8	34.9	4.59	20.7	37.4	5.07	21.1	39.8	5.58	21.5	44.7	6.68	22.4	49.5	7.87	23.2
		60	25.2	2.86	18.4	30.1	3.63	19.0	34.9	4.51	19.7	37.4	4.98	20.1	39.8	5.48	20.4	44.7	6.55	21.1	49.5	7.72	21.8
		96	25.2	2.73	17.1	30.1	3.46	17.5	34.9	4.29	17.9	37.4	4.74	18.1	39.8	5.21	18.4	44.7	6.22	18.8	49.5	7.33	19.2
		120	25.2	2.68	16.7	30.1	3.40	17.0	34.9	4.21	17.3	37.4	4.65	17.5	39.8	5.11	17.7	44.7	6.10	18.0	49.5	7.19	18.4
	20	50	25.2	3.02	24.0	30.1	3.84	24.9	34.9	4.77	25.7	37.4	5.27	26.1	39.8	5.80	26.5	44.7	6.94	27.4	49.5	8.18	28.3
		60	25.2	2.97	23.4	30.1	3.77	24.0	34.9	4.68	24.7	37.4	5.17	25.1	39.8	5.69	25.4	44.7	6.81	26.1	49.5	8.03	26.9
		96	25.2	2.83	22.1	30.1	3.59	22.5	34.9	4.45	22.9	37.4	4.92	23.2	39.8	5.41	23.4	44.7	6.47	23.8	49.5	7.62	24.3
		120	25.2	2.78	21.7	30.1	3.53	22.0	34.9	4.37	22.3	37.4	4.83	22.5	39.8	5.31	22.7	44.7	6.34	23.0	49.5	7.47	23.4
	25	50	25.2	3.52	29.1	30.1	4.50	30.0	34.9	5.59	30.8	37.4	6.19	31.2	39.8	6.82	31.7	44.7	8.17	32.6	49.5	9.65	33.5
		60	25.2	3.46	28.4	30.1	4.42	29.1	34.9	5.49	29.8	37.4	6.08	30.2	39.8	6.69	30.6	44.7	8.02	31.3	49.5	9.47	32.0
		96	25.2	3.30	27.1	30.1	4.20	27.6	34.9	5.22	28.0	37.4	5.78	28.2	39.8	6.36	28.4	44.7	7.62	28.9	49.5	8.99	29.4
		120	25.2	3.24	26.7	30.1	4.13	27.0	34.9	5.13	27.4	37.4	5.67	27.6	39.8	6.24	27.8	44.7	7.47	28.1	49.5	8.81	28.5
	30	50	25.2	4.12	34.2	30.1	5.28	35.1	34.9	6.59	36.0	37.4	7.30	36.4	39.8	8.06	36.9	44.7	9.67	37.8	49.5	11.4	38.7
		60	25.2	4.05	33.5	30.1	5.18	34.2	34.9	6.47	34.9	37.4	7.17	35.3	39.8	7.91	35.7	44.7	9.49	36.5	49.5	11.2	37.3
		96	25.2	3.86	32.2	30.1	4.94	32.6	34.9	6.15	33.1	37.4	6.81	33.3	39.8	7.51	33.5	44.7	9.01	34.0	49.5	10.7	34.5
		120	25.2	3.79	31.7	30.1	4.84	32.1	34.9	6.04	32.4	37.4	6.68	32.6	39.8	7.37	32.8	44.7	8.84	33.2	49.5	10.4	33.6
	35	50	25.2	4.85	39.3	30.1	6.25	40.2	34.9	7.83	41.1	37.4	8.69	41.6	39.8	9.59	42.1	44.7	11.5	43.1	49.4	13.6	44.0
		60	25.2	4.77	38.6	30.1	6.13	39.3	34.9	7.68	40.1	37.4	8.53	40.5	39.8	9.41	40.9	44.7	11.3	41.7	49.5	13.4	42.5
		96	25.2	4.54	37.2	30.1	5.84	37.7	34.9	7.30	38.2	37.4	8.10	38.4	39.8	8.94	38.6	44.7	10.8	39.1	49.5	12.7	39.6
		120	25.2	4.46	36.8	30.1	5.73	37.1	34.9	7.16	37.5	37.4	7.94	37.7	39.8	8.77	37.9	44.7	10.5	38.3	49.5	12.5	38.7
	40	50	25.2	5.63	44.4	30.1	7.43	45.4	34.9	9.48	46.4	36.3	9.97	46.6	36.8	10.0	46.7	37.7	10.1	46.9	38.5	10.2	47.0
		60	25.2	5.54	43.7	30.1	7.27	44.5	34.9	9.25	45.3	37.4	10.3	45.7	38.7	10.8	45.9	39.7	10.9	46.0	40.5	11.0	46.1
		96	25.2	4.93	42.3	30.1	6.40	42.7	34.9	8.06	43.2	37.4	8.97	43.5	39.8	9.92	43.7	44.7	12.0	44.2	46.1	12.3	44.4
		120	25.2	4.78	41.8	30.1	6.19	42.2	34.9	7.80	42.6	37.4	8.67	42.8	39.8	9.60	43.0	44.7	11.6	43.4	46.5	12.1	43.5
	45	50	24.2	6.25	49.4	25.2	6.33	49.5	25.9	6.38	49.6	26.1	6.39	49.7	26.3	6.40	49.7	26.6	6.40	49.7	26.6	6.37	49.7
		60	25.2	6.36	48.8	27.2	6.92	49.1	28.0	6.99	49.2	28.4	7.02	49.2	28.7	7.03	49.3	29.1	7.05	49.3	29.3	7.05	49.3
		96	25.2	5.58	47.3	30.1	7.38	47.8	34.3	9.09	48.2	34.8	9.13	48.3	35.3	9.17	48.3	36.1	9.24	48.4	36.8	9.29	48.4
		120	25.2	5.42	46.8	30.1	7.12	47.2	34.9	9.05	47.6	37.4	10.1	47.8	38.6	10.5	47.9	39.6	10.6	48.0	40.4	10.7	48.1
60	10	50	21.6	2.31	13.4	25.8	2.90	14.1	30.0	3.55	14.8	32.0	3.91	15.2	34.1	4.28	15.5	38.3	5.08	16.2	42.5	5.96	16.9
		60	21.6	2.28	12.9	25.8	2.85	13.4	30.0	3.49	14.0	32.0	3.84	14.3	34.1	4.21	14.6	38.3	4.99	15.2	42.5	5.85	15.8
		96	21.6	2.17	11.8	25.8	2.72	12.1	30.0	3.33	12.5	32.0	3.66	12.7	34.1	4.00	12.8	38.3	4.75	13.2	42.5	5.55	13.6
		120	21.6	2.14	11.4	25.8	2.67	11.7	30.0	3.27	12.0	32.0	3.59	12.1	34.1	3.93	12.3	38.3	4.66	12.6	42.5	5.45	12.9
	15	50	21.6	2.39	18.4	25.8	3.00	19.1	30.0	3.68	19.8	32.0	4.05	20.2	34.1	4.43	20.5	38.3	5.26	21.2	42.5	6.17	22.0
		60	21.6	2.35	17.9	25.8	2.95	18.4	30.0	3.61	19.0	32.0	3.97	19.3	34.1	4.35	19.6	38.3	5.16	20.2	42.5	6.05	20.8
		96	21.6	2.25	16.8	25.8	2.81	17.1	30.0	3.44	17.5	32.0	3.78	17.7	34.1	4.14	17.9	38.3	4.91	18.2	42.5	5.75	18.6
		120	21.6	2.21	16.4	25.8	2.76	16.7	30.0	3.38	17.0	32.0	3.71	17.1	34.1	4.06	17.3	38.3	4.82	17.6	42.5	5.64	17.9
	20	50	21.6	2.48	23.5	25.8	3.11	24.1	30.0	3.82	24.8	32.0	4.20	25.2	34.1	4.60	25.6	38.3	5.47	26.3	42.5	6.41	27.0
		60	21.6	2.44	22.9	25.8	3.06	23.4	30.0	3.75	24.0	32.0	4.12	24.3	34.1	4.52	24.6	38.3	5.36	25.2	42.5	6.29	25.8
		96	21.6	2.33	21.8	25.8	2.91	22.1	30.0	3.57	22.5	32.0	3.93	22.7	34.1	4.30	22.9	38.3	5.10	23.2	42.5	5.97	23.6
		120	21.6	2.29	21.4	25.8	2.86	21.7	30.0	3.51	22.0	32.0	3.85	22.1	34.1	4.22	22.3	38.3	5.00	22.6	42.5	5.86	22.9
	25	50	21.6	2.88	28.5	25.8	3.63	29.2	30.0	4.47	29.9	32.0	4.92	30.3	34.1	5.40	30.7	38.3	6.42	31.4	42.5	7.54	32.2
		60	21.6	2.84	27.9	25.8	3.57	28.5	30.0	4.39	29.1	32.0	4.83	29.4	34.1	5.30	29.7	38.3	6.30	30.3	42.5	7.40	31.0
		96	21.6	2.71	26.8	25.8	3.40	27.2	30.0	4.18	27.5	32.0	4.60	27.7	34.1	5.04	27.9	38.3	5.99	28.3	42.5	7.03	28.7
		120	21.6	2.66	26.5	25.8	3.34	26.7	30.0	4.10	27.0	32.0	4.51	27.2	34.1	4.95	27.3	38.3	5.88	27.6	42.5	6.90	27.9
	30	50	21.6	3.36	33.6	25.8	4.25	34.3	30.0	5.25	35.0	32.0	5.79	35.4	34.1	6.36	35.8	38.3	7.58	36.6	42.5	8.92	37.4
		60	21.6	3.30	33.0	25.8	4.17	33.6	30.0	5.15	34.2	32.0	5.68	34.5	34.1	6.24	34.8	38.3	7.44	35.5	42.5	8.75	36.1
		96	21.6	3.15	31.8	25.8	3.98	32.2	30.0	4.90	32.6	32.0	5.41	32.8	34.1	5.94	33.0	38.3	7.07	33.4	42.5	8.31	33.8
		120	21.6	3.10	31.5	25.8	3.90	31.8	30.0	4.81	32.1	32.0	5.31	32.2	34.1	5.82	32.4	38.3	6.94	32.7	42.5	8.15	33.0
	35	50	21.6	3.94	38.7	25.8	5.00	39.4	30.0	6.21	40.2	32.0	6.86	40.6	34.1	7.55	41.0	38.3	9.02	41.8	42.5	10.6	42.6
		60	21.6	3.87	38.0	25.8	4.92	38.7	30.0	6.09	39.3	32.0	6.73	39.6	34.1	7.41	40.0	38.3	8.85	40.6	42.5	10.4	41.3
		96	21.6	3.69	36.9	25.8	4.68	37.3	30.0	5.80	37.7	32.0	6.40	37.9	34.1	7.04	38.1	38.3	8.41	38.5	42.5	9.91	38.9
		120	21.6	3.63	36.5	25.8	4.60	36.8	30.0	5.69	37.1	32.0	6.28	37.3	34.1	6.91	37.5	38.3	8.25	37.8	42.5	9.71	38.1
	40	50	21.6	4.47	43.7	25.8	5.83	44.5	30.0	7.37	45.4	32.0	8.22	45.8	34.1	9.11	46.2	36.5	9.99	46.7	37.3	10.1	46.8
		60	21.6	4.42	43.1	25.8	5.73	43.8	30.0	7.22	44.4	32.0	8.04	44.8	34.1	8.90	45.1	38.3	10.8	45.9	39.2	10.9	46.0
		96	21.6	3.98	41.9	25.8	5.09	42.3	30.0	6.35	42.7	32.0	7.04	42.9	34.1	7.76	43.1	38.3	9.32	43.6	42.5	11.0	44.0
		120	21.6	3.86	41.5	25.8	4.93	41.8	30.0	6.15	42.2	32.0	6.81	42.3	34.1	7.51	42.5	38.3	9.01	42.8	42.5	10.7	43.2
	45	50	21.6	5.26	48.9	24.4	6.26	49.4	25.1	6.33	49.5	25.5	6.35	49.6	25.8	6.37	49.6	26.2	6.40	49.7	26.5	6.41	49.7
		60	21.6	4.95	48.2	25.8	6.59	48.9	27.2	6.92	49.1	27.5	6.95	49.1	27.9	6.98	49.2	28.5	7.02	49.2	28.9	7.05	49.3
		96	21.6	4.41	46.9	25.8	5.78	47.4	30.0	7.33	47.8	32.0	8.18	48.0	34.1	9.07	48.2	35.0	9.15	48.3	35.8	9.21	48.4
		120	21.6	4.32	46.5	25.8	5.60	46.9	30.0	7.07	47.2	32.0	7.87	47.4	34.1	8.71	47.6	38.2	10.5	47.9	39.1	10.6	48.0

3 Capacity tables

3 - 1 Cooling capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	50	18.0	1.87	12.9	21.5	2.30	13.4	25.0	2.78	14.0	26.7	3.04	14.3	28.4	3.31	14.5	31.9	3.89	15.1	35.4	4.52	15.7
		60	18.0	1.84	12.4	21.5	2.26	12.8	25.0	2.73	13.3	26.7	2.98	13.5	28.4	3.25	13.8	31.9	3.82	14.3	35.4	4.43	14.8
		96	18.0	1.76	11.5	21.5	2.16	11.8	25.0	2.60	12.1	26.7	2.84	12.2	28.4	3.10	12.4	31.9	3.63	12.7	35.4	4.22	13.0
		120	18.0	1.73	11.2	21.5	2.12	11.4	25.0	2.56	11.6	26.7	2.79	11.8	28.4	3.04	11.9	31.9	3.57	12.1	35.4	4.14	12.4
	15	50	18.0	1.93	17.9	21.5	2.37	18.4	25.0	2.87	19.0	26.7	3.14	19.3	28.4	3.42	19.6	31.9	4.02	20.1	35.4	4.67	20.7
		60	18.0	1.90	17.4	21.5	2.33	17.8	25.0	2.82	18.3	26.7	3.08	18.6	28.4	3.36	18.8	31.9	3.95	19.3	35.4	4.59	19.8
		96	18.0	1.82	16.5	21.5	2.23	16.8	25.0	2.69	17.1	26.7	2.94	17.2	28.4	3.20	17.4	31.9	3.76	17.7	35.4	4.37	18.0
		120	18.0	1.79	16.2	21.5	2.19	16.4	25.0	2.64	16.6	26.7	2.89	16.8	28.4	3.14	16.9	31.9	3.69	17.1	35.4	4.28	17.4
	20	50	18.0	2.00	22.9	21.5	2.46	23.4	25.0	2.98	24.0	26.7	3.26	24.3	28.4	3.55	24.6	31.9	4.18	25.2	35.4	4.85	25.8
		60	18.0	1.97	22.4	21.5	2.42	22.9	25.0	2.93	23.3	26.7	3.20	23.6	28.4	3.49	23.8	31.9	4.10	24.3	35.4	4.77	24.8
		96	18.0	1.88	21.5	21.5	2.31	21.8	25.0	2.79	22.1	26.7	3.05	22.2	28.4	3.32	22.4	31.9	3.90	22.7	35.4	4.53	23.0
		120	18.0	1.85	21.2	21.5	2.27	21.4	25.0	2.74	21.7	26.7	3.00	21.8	28.4	3.26	21.9	31.9	3.83	22.1	35.4	4.45	22.4
	25	50	18.0	2.32	27.9	21.5	2.86	28.5	25.0	3.47	29.1	26.7	3.80	29.4	28.4	4.15	29.7	31.9	4.89	30.3	35.4	5.70	30.9
		60	18.0	2.28	27.4	21.5	2.81	27.9	25.0	3.41	28.4	26.7	3.74	28.6	28.4	4.08	28.9	31.9	4.80	29.4	35.4	5.59	29.9
		96	18.0	2.18	26.5	21.5	2.69	26.8	25.0	3.26	27.1	26.7	3.56	27.3	28.4	3.88	27.4	31.9	4.57	27.7	35.4	5.32	28.0
		120	18.0	2.14	26.2	21.5	2.64	26.4	25.0	3.20	26.7	26.7	3.50	26.8	28.4	3.81	26.9	31.9	4.49	27.2	35.4	5.22	27.4
	30	50	18.0	2.69	33.0	21.5	3.33	33.6	25.0	4.06	34.2	26.7	4.46	34.5	28.4	4.87	34.8	31.9	5.75	35.4	35.4	6.71	36.0
		60	18.0	2.64	32.5	21.5	3.28	33.0	25.0	3.99	33.5	26.7	4.38	33.7	28.4	4.78	34.0	31.9	5.65	34.5	35.4	6.59	35.0
		96	18.0	2.52	31.5	21.5	3.13	31.8	25.0	3.81	32.1	26.7	4.17	32.3	28.4	4.55	32.5	31.9	5.37	32.8	35.4	6.27	33.1
		120	18.0	2.48	31.2	21.5	3.07	31.5	25.0	3.74	31.7	26.7	4.09	31.8	28.4	4.47	32.0	31.9	5.27	32.2	35.4	6.15	32.5
	35	50	18.0	3.13	38.0	21.5	3.91	38.6	25.0	4.78	39.3	26.7	5.25	39.6	28.4	5.75	39.9	31.9	6.82	40.6	35.4	7.98	41.2
		60	18.0	3.08	37.5	21.5	3.84	38.0	25.0	4.70	38.5	26.7	5.16	38.8	28.4	5.65	39.1	31.9	6.69	39.6	35.4	7.83	40.2
		96	18.0	2.94	36.6	21.5	3.66	36.9	25.0	4.48	37.2	26.7	4.92	37.4	28.4	5.38	37.5	31.9	6.36	37.9	35.4	7.44	38.2
		120	18.0	2.89	36.2	21.5	3.60	36.5	25.0	4.39	36.8	26.7	4.82	36.9	28.4	5.28	37.0	31.9	6.24	37.3	35.4	7.30	37.5
	40	50	18.0	3.45	43.1	21.5	4.43	43.7	25.0	5.54	44.4	26.7	6.15	44.7	28.4	6.79	45.0	31.9	8.16	45.7	35.4	9.67	46.5
		60	18.0	3.42	42.6	21.5	4.38	43.1	25.0	5.45	43.6	26.7	6.04	43.9	28.4	6.66	44.2	31.9	7.98	44.8	35.4	9.44	45.4
		96	18.0	3.13	41.6	21.5	3.94	41.9	25.0	4.86	42.2	26.7	5.36	42.4	28.4	5.88	42.6	31.9	7.00	42.9	35.4	8.22	43.3
		120	18.0	3.04	41.3	21.5	3.83	41.5	25.0	4.71	41.8	26.7	5.19	41.9	28.4	5.69	42.0	31.9	6.77	42.3	35.4	7.95	42.6
	45	50	18.0	3.93	48.1	21.5	5.21	48.8	24.2	6.25	49.4	24.5	6.28	49.4	24.9	6.30	49.5	25.5	6.35	49.6	25.9	6.38	49.6
		60	18.0	3.73	47.6	21.5	4.90	48.2	25.0	6.25	48.7	26.5	6.86	49.0	26.9	6.90	49.0	27.5	6.95	49.1	28.1	7.00	49.2
		96	18.0	3.39	46.6	21.5	4.37	46.9	25.0	5.49	47.3	26.7	6.10	47.4	28.4	6.74	47.6	31.9	8.12	48.0	34.4	9.10	48.2
		120	18.0	3.35	46.3	21.5	4.28	46.5	25.0	5.34	46.8	26.7	5.91	46.9	28.4	6.51	47.1	31.9	7.81	47.4	35.4	9.24	47.7

3 Capacity tables

3 - 1 Cooling capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	50	70.3	10.4	17.7	83.8	13.9	19.3	91.6	14.7	20.2	92.9	14.8	20.3	94.2	14.8	20.4	96.3	14.9	20.6	97.9	15.0	20.8
		60	70.3	10.2	16.4	83.8	13.6	17.8	92.0	14.5	18.5	93.4	14.6	18.6	94.6	14.7	18.7	96.7	14.8	18.9	98.4	14.8	19.0
		96	70.3	9.72	14.0	83.8	12.9	14.8	93.2	14.1	15.3	94.5	14.2	15.4	95.8	14.3	15.5	98.0	14.4	15.6	99.7	14.4	15.7
		120	70.3	9.53	13.2	83.8	12.7	13.8	93.6	14.0	14.3	95.0	14.1	14.3	96.2	14.1	14.4	98.5	14.2	14.5	100	14.3	14.6
	15	50	70.3	10.8	22.7	83.8	14.4	24.4	90.0	15.1	25.0	91.3	15.2	25.2	92.4	15.2	25.3	94.5	15.3	25.5	96.0	15.4	25.6
		60	70.3	10.6	21.4	83.8	14.1	22.8	90.4	15.0	23.4	91.7	15.0	23.5	92.9	15.1	23.6	94.9	15.2	23.8	96.5	15.2	23.9
		96	70.3	10.1	19.0	83.8	13.4	19.8	91.5	14.6	20.3	92.8	14.6	20.3	94.1	14.7	20.4	96.2	14.8	20.5	97.8	14.8	20.6
		120	70.3	9.87	18.2	83.8	13.1	18.9	91.9	14.4	19.2	93.3	14.5	19.3	94.5	14.5	19.3	96.6	14.6	19.4	98.3	14.7	19.5
	20	50	70.3	11.2	27.8	83.8	15.0	29.4	87.8	15.6	29.9	89.1	15.6	30.0	90.2	15.7	30.1	92.1	15.8	30.3	93.5	15.8	30.4
		60	70.3	11.0	26.5	83.8	14.7	27.8	88.3	15.4	28.3	89.5	15.5	28.4	90.7	15.5	28.5	92.6	15.6	28.6	94.0	15.7	28.7
		96	70.3	10.5	24.0	83.8	13.9	24.9	89.4	15.0	25.2	90.6	15.0	25.3	91.8	15.1	25.3	93.8	15.2	25.4	95.3	15.3	25.5
		120	70.3	10.3	23.2	83.8	13.6	23.9	89.8	14.8	24.2	91.1	14.9	24.2	92.3	14.9	24.3	94.3	15.0	24.4	95.8	15.1	24.4
	25	50	70.3	13.2	33.0	82.5	17.1	34.5	85.3	17.3	34.8	86.4	17.4	34.9	87.5	17.4	35.0	89.2	17.5	35.2	90.4	17.6	35.3
		60	70.3	13.0	31.6	82.9	16.9	32.9	85.7	17.1	33.2	86.8	17.2	33.3	87.9	17.3	33.4	89.7	17.4	33.5	90.9	17.4	33.6
		96	70.3	12.3	29.1	83.8	16.4	30.0	86.7	16.7	30.1	87.9	16.7	30.2	89.0	16.8	30.3	90.9	16.9	30.4	92.2	16.9	30.4
		120	70.3	12.1	28.3	83.8	16.1	29.0	87.1	16.5	29.1	88.4	16.6	29.2	89.5	16.6	29.2	91.3	16.7	29.3	92.7	16.8	29.4
	30	50	70.3	15.7	38.2	79.6	18.8	39.4	82.1	19.0	39.7	83.2	19.1	39.8	84.2	19.2	39.9	85.7	19.3	40.0	86.7	19.3	40.1
		60	70.3	15.4	36.8	79.9	18.7	37.9	82.5	18.9	38.1	83.6	18.9	38.2	84.6	19.0	38.2	86.1	19.1	38.4	87.2	19.1	38.5
		96	70.3	14.6	34.2	80.9	18.2	34.9	83.6	18.3	35.1	84.7	18.4	35.1	85.7	18.5	35.2	87.3	18.6	35.3	88.4	18.6	35.3
		120	70.3	14.3	33.4	81.3	18.0	34.0	84.0	18.1	34.1	85.1	18.2	34.1	86.1	18.3	34.2	87.8	18.4	34.2	88.9	18.4	34.3
	35	50	70.3	18.7	43.5	76.1	20.6	44.2	78.5	20.8	44.5	79.5	20.9	44.6	80.3	20.9	44.7	81.5	21.0	44.8	82.2	21.0	44.9
		60	70.3	18.4	42.1	76.5	20.4	42.7	78.9	20.6	42.9	79.8	20.7	43.0	80.7	20.7	43.1	82.0	20.8	43.2	82.7	20.8	43.2
		96	70.3	17.4	39.4	77.4	19.8	39.8	79.9	20.0	40.0	80.9	20.1	40.0	81.8	20.2	40.1	83.1	20.3	40.1	83.9	20.3	40.2
		120	70.3	17.1	38.5	77.8	19.6	38.9	80.2	19.8	39.0	81.3	19.9	39.0	82.2	20.0	39.1	83.6	20.0	39.1	84.4	20.1	39.2
	40	50	57.1	15.2	46.9	58.8	15.3	47.1	59.8	15.3	47.2	60.0	15.3	47.2	60.0	15.3	47.2	59.5	15.1	47.1	58.1	14.9	47.0
		60	60.1	16.4	46.1	62.1	16.6	46.3	63.4	16.6	46.4	63.8	16.6	46.4	64.0	16.6	46.4	63.8	16.5	46.4	62.9	16.3	46.3
		96	68.3	18.4	44.3	70.9	18.6	44.5	73.0	18.7	44.6	73.7	18.8	44.6	74.4	18.8	44.6	75.2	18.8	44.7	75.3	18.8	44.7
		120	68.9	18.1	43.5	71.5	18.3	43.6	73.6	18.4	43.7	74.4	18.5	43.7	75.1	18.5	43.7	75.9	18.5	43.8	76.2	18.5	43.8
	45	50	40.0	9.59	49.7	39.5	9.45	49.7	37.9	9.18	49.5	36.7	8.99	49.4	35.1	8.77	49.2	31.2	8.24	48.8	26.2	7.56	48.2
		60	43.9	10.6	49.3	44.0	10.5	49.3	43.1	10.3	49.3	42.3	10.2	49.2	41.2	10.0	49.1	38.2	9.59	48.8	34.2	9.04	48.4
		96	54.7	13.9	48.4	56.2	14.0	48.5	56.9	14.0	48.5	56.9	13.9	48.5	56.8	13.9	48.5	55.8	13.7	48.5	54.1	13.4	48.4
		120	59.9	16.0	48.0	61.9	16.1	48.1	63.2	16.2	48.2	63.6	16.2	48.2	63.8	16.2	48.2	63.6	16.1	48.2	62.7	15.9	48.1
120	10	50	64.9	9.20	17.1	77.4	12.2	18.6	89.9	14.6	20.0	91.3	14.7	20.1	92.6	14.7	20.3	94.8	14.8	20.5	96.7	14.9	20.7
		60	64.9	9.02	15.9	77.4	11.9	17.1	89.9	14.4	18.3	91.8	14.5	18.5	93.0	14.6	18.6	95.3	14.7	18.8	97.1	14.8	18.9
		96	64.9	8.57	13.7	77.4	11.3	14.4	89.9	14.0	15.2	92.9	14.1	15.3	94.2	14.2	15.4	96.5	14.3	15.5	98.4	14.4	15.6
		120	64.9	8.41	12.9	77.4	11.1	13.5	89.9	13.8	14.1	93.3	14.0	14.3	94.6	14.0	14.3	96.9	14.1	14.4	98.9	14.2	14.5
	15	50	64.9	9.52	22.1	77.4	12.6	23.6	88.4	15.0	24.9	89.7	15.1	25.0	90.9	15.2	25.1	93.1	15.3	25.4	94.8	15.4	25.5
		60	64.9	9.34	20.9	77.4	12.4	22.1	88.8	14.9	23.3	90.1	15.0	23.4	91.4	15.0	23.5	93.5	15.1	23.7	95.3	15.2	23.8
		96	64.9	8.88	18.7	77.4	11.7	19.4	89.9	14.5	20.2	91.2	14.5	20.3	92.5	14.6	20.3	94.7	14.7	20.4	96.6	14.8	20.5
		120	64.9	8.71	17.9	77.4	11.5	18.5	89.9	14.3	19.1	91.7	14.4	19.2	92.9	14.5	19.3	95.2	14.6	19.4	97.0	14.6	19.4
	20	50	64.9	9.89	27.1	77.4	13.1	28.6	86.3	15.5	29.7	87.6	15.5	29.9	88.8	15.6	30.0	90.8	15.7	30.2	92.5	15.8	30.3
		60	64.9	9.71	25.9	77.4	12.9	27.2	86.7	15.3	28.1	88.0	15.4	28.2	89.2	15.4	28.3	91.3	15.6	28.5	92.9	15.6	28.6
		96	64.9	9.22	23.7	77.4	12.2	24.5	87.8	14.9	25.1	89.1	15.0	25.2	90.3	15.0	25.2	92.4	15.1	25.4	94.2	15.2	25.4
		120	64.9	9.04	22.9	77.4	12.0	23.6	88.2	14.7	24.1	89.5	14.8	24.2	90.7	14.9	24.2	92.9	15.0	24.3	94.6	15.1	24.4
	25	50	64.9	11.6	32.3	77.4	15.5	33.9	83.8	17.2	34.7	85.0	17.3	34.8	86.1	17.3	34.9	88.0	17.5	35.1	89.5	17.5	35.2
		60	64.9	11.4	31.1	77.4	15.2	32.4	84.2	17.0	33.1	85.4	17.1	33.2	86.5	17.2	33.3	88.5	17.3	33.4	90.0	17.4	33.5
		96	64.9	10.9	28.8	77.4	14.4	29.6	85.2	16.6	30.1	86.5	16.6	30.1	87.6	16.7	30.2	89.6	16.8	30.3	91.2	16.9	30.4
		120	64.9	10.6	28.0	77.4	14.1	28.6	85.6	16.4	29.1	86.9	16.5	29.1	88.1	16.5	29.2	90.1	16.6	29.2	91.7	16.7	29.3
	30	50	64.9	13.8	37.5	77.4	18.4	39.1	80.8	18.9	39.5	81.9	19.0	39.6	83.0	19.1	39.8	84.7	19.2	39.9	86.0	19.3	40.1
		60	64.9	13.5	36.2	77.4	18.0	37.6	81.2	18.8	38.0	82.3	18.8	38.1	83.4	18.9	38.1	85.1	19.0	38.3	86.4	19.1	38.4
		96	64.9	12.8	33.9	77.4	17.1	34.7	82.2	18.2	35.0	83.4	18.3	35.1	84.4	18.4	35.1	86.2	18.5	35.2	87.6	18.6	35.3
		120	64.9	12.6	33.1	77.4	16.7	33.7	82.5	18.1	34.0	83.7	18.1	34.1	84.8	18.2	34.1	86.7	18.3	34.2	88.1	18.4	34.2
	35	50	64.9	16.4	42.8	74.8	20.5	44.1	77.2	20.7	44.4	78.3	20.8	44.5	79.2	20.9	44.6	80.7	21.0	44.7	81.7	21.0	44.8
		60	64.9	16.1	41.4	75.1	20.3	42.6	77.6	20.5	42.8	78.7	20.6	42.9	79.6	20.7	43.0	81.1	20.8	43.1	82.2	20.8	43.2
		96	64.9	15.3	39.0	76.1	19.7	39.8	78.6	19.9	39.9	79.7	20.0	40.0	80.6	20.1	40.0	82.2	20.2	40.1	83.3	20.3	40.2
		120	64.9	15.0	38.2	76.4	19.5	38.8	78.9	19.7	38.9	80.0	19.8	39.0	81.0	19.9	39.0	82.6	20.0	39.1	83.8	20.0	39.1
	40	50	56.2	15.1	46.8	58.1	15.3	47.0	59.4	15.3	47.1	59.8	15.3	47.2	60.0	15.3	47.2	59.9	15.2	47.2	59.2	15.1	47.1
		60	59.1	16.3	46.0	61.2	16.5	46.2	62.8	16.6	46.3	63.3	16.6	46.4	63.7	16.6	46.4	64.0	16.6	46.4	63.7	16.5	46.4
		96	64.9	17.0	44.1	69.8	18.5	44.4	71.9	18.7	44.5	72.8	18.7	44.6	73.6	18.8	44.6	74.7	18.8	44.7	75.3	18.8	44.7
		120	64.9	16.5	43.2	70.4	18.2	43.5	72.5	18.4	43.6	73.5	18.4	43.7	74.2	18.5	43.7	75.4	18.5	43.7	76.0	18.5	43.8
	45	50	39.8	9.61	49.7	39.9	9.53	49.7	38.9	9.35	49.6	38.1	9.21	49.5	37.0	9.05	49.4	34.1	8.63	49.1	30.2	8.10	48.7
		60	43.5	10.6	49.3	44.1	10.6	49.4	43.8	10.4	49.3	43.3	10.3	49.3	42.5	10.2	49.2	40.4	9.90	49.0	37.4	9.48	48.7
		96	53.8	13.8	48.4	55.6	14.0	48.5	56.6	14.0	48.5	56.8	14.0	48.5	56.9	14.0	48.5	56.6	13.8	48.5	55.5	13.6	48.4
		120	58.9	15.9	48.0	61.1	16.1	48.1	62.6	16.2	48.1	63.1	16.2	48.2	63.5	16.2	48.2	63.8	16.1	48.2	63.5	16.0	48.2

3 Capacity tables

3 - 1 Cooling capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	50	59.5	8.04	16.5	70.9	10.6	17.8	82.4	13.5	19.2	88.1	14.5	19.8	90.8	14.6	20.1	93.2	14.8	20.3	95.1	14.9	20.5
		60	59.5	7.89	15.4	70.9	10.4	16.5	82.4	13.2	17.6	88.1	14.3	18.2	91.3	14.5	18.4	93.6	14.6	18.6	95.6	14.7	18.8
		96	59.5	7.50	13.3	70.9	9.86	14.0	82.4	12.6	14.7	88.1	13.9	15.1	92.4	14.1	15.3	94.8	14.2	15.4	96.8	14.3	15.5
		120	59.5	7.36	12.7	70.9	9.67	13.2	82.4	12.3	13.8	88.1	13.7	14.1	92.8	14.0	14.3	95.2	14.1	14.4	97.3	14.2	14.4
	15	50	59.5	8.32	21.5	70.9	11.0	22.8	82.4	14.0	24.2	88.0	15.0	24.8	89.2	15.1	25.0	91.5	15.2	25.2	93.4	15.3	25.4
		60	59.5	8.17	20.4	70.9	10.8	21.5	82.4	13.7	22.7	88.1	14.8	23.2	89.6	14.9	23.3	91.9	15.0	23.5	93.8	15.1	23.7
		96	59.5	7.76	18.3	70.9	10.2	19.0	82.4	13.0	19.7	88.1	14.4	20.1	90.8	14.5	20.2	93.1	14.6	20.4	95.0	14.7	20.5
		120	59.5	7.62	17.7	70.9	10.0	18.2	82.4	12.8	18.8	88.1	14.2	19.1	91.2	14.4	19.2	93.5	14.5	19.3	95.5	14.6	19.4
	20	50	59.5	8.64	26.5	70.9	11.4	27.9	82.4	14.5	29.3	85.9	15.4	29.7	87.1	15.5	29.8	89.3	15.6	30.0	91.1	15.7	30.2
		60	59.5	8.48	25.4	70.9	11.2	26.5	82.4	14.3	27.7	86.3	15.3	28.1	87.6	15.4	28.2	89.7	15.5	28.4	91.5	15.6	28.5
		96	59.5	8.07	23.4	70.9	10.6	24.1	82.4	13.5	24.8	87.4	14.9	25.1	88.6	14.9	25.2	90.9	15.1	25.3	92.7	15.2	25.4
		120	59.5	7.91	22.7	70.9	10.4	23.2	82.4	13.3	23.8	87.8	14.7	24.1	89.0	14.8	24.1	91.3	14.9	24.2	93.2	15.0	24.3
	25	50	59.5	10.2	31.7	70.9	13.4	33.1	82.2	17.1	34.5	83.4	17.2	34.6	84.6	17.2	34.7	86.6	17.4	34.9	88.3	17.5	35.1
		60	59.5	9.98	30.5	70.9	13.2	31.7	82.4	16.8	32.9	83.8	17.0	33.0	85.0	17.1	33.1	87.0	17.2	33.3	88.7	17.3	33.4
		96	59.5	9.48	28.4	70.9	12.5	29.2	82.4	16.0	29.9	84.9	16.5	30.0	86.0	16.6	30.1	88.1	16.7	30.2	89.9	16.8	30.3
		120	59.5	9.30	27.7	70.9	12.3	28.3	82.4	15.7	28.9	85.2	16.4	29.0	86.4	16.4	29.1	88.6	16.6	29.2	90.3	16.7	29.3
	30	50	59.5	12.0	36.8	70.9	15.9	38.3	79.3	18.8	39.4	80.4	18.9	39.5	81.5	19.0	39.6	83.4	19.1	39.8	84.9	19.2	40.0
		60	59.5	11.8	35.7	70.9	15.6	36.9	79.6	18.6	37.8	80.8	18.7	37.9	81.9	18.8	38.0	83.8	18.9	38.2	85.3	19.0	38.3
		96	59.5	11.2	33.5	70.9	14.8	34.3	80.6	18.1	34.9	81.8	18.2	35.0	82.9	18.3	35.0	84.9	18.4	35.1	86.5	18.5	35.2
		120	59.5	11.0	32.8	70.9	14.5	33.4	81.0	17.9	33.9	82.2	18.0	34.0	83.3	18.1	34.0	85.3	18.2	34.1	86.9	18.3	34.2
	35	50	59.5	14.3	42.0	70.9	19.0	43.6	75.8	20.6	44.2	76.9	20.7	44.3	77.9	20.8	44.4	79.6	20.9	44.6	80.9	21.0	44.7
		60	59.5	14.0	40.9	70.9	18.6	42.1	76.2	20.4	42.7	77.3	20.5	42.8	78.3	20.6	42.9	80.0	20.7	43.0	81.3	20.8	43.1
		96	59.5	13.3	38.6	70.9	17.7	39.4	77.1	19.8	39.8	78.3	19.9	39.9	79.3	20.0	39.9	81.0	20.1	40.0	82.4	20.2	40.1
		120	59.5	13.1	37.9	70.9	17.3	38.5	77.5	19.6	38.9	78.6	19.7	38.9	79.7	19.8	39.0	81.4	19.9	39.0	82.8	20.0	39.1
	40	50	55.1	15.0	46.7	57.2	15.2	46.9	58.7	15.3	47.1	59.2	15.3	47.1	59.6	15.3	47.2	60.0	15.3	47.2	59.9	15.2	47.2
		60	58.0	16.2	45.9	60.2	16.4	46.1	61.9	16.5	46.2	62.6	16.6	46.3	63.1	16.6	46.4	63.8	16.6	46.4	64.0	16.6	46.4
		96	59.5	14.8	43.7	68.4	18.4	44.3	70.7	18.6	44.4	71.6	18.6	44.5	72.5	18.7	44.5	73.9	18.8	44.6	74.8	18.8	44.7
		120	59.5	14.3	42.9	69.0	18.1	43.5	71.3	18.3	43.6	72.3	18.3	43.6	73.1	18.4	43.6	74.5	18.5	43.7	75.5	18.5	43.7
	45	50	39.5	9.60	49.7	40.0	9.59	49.7	39.6	9.47	49.7	39.1	9.38	49.6	38.4	9.26	49.6	36.4	8.96	49.3	33.6	8.56	49.0
		60	43.0	10.5	49.3	43.9	10.6	49.3	44.1	10.5	49.3	43.8	10.5	49.3	43.5	10.4	49.3	42.1	10.2	49.2	40.0	9.85	49.0
		96	52.9	13.8	48.3	54.8	13.9	48.4	56.1	14.0	48.5	56.5	14.0	48.5	56.8	14.0	48.5	56.9	13.9	48.5	56.4	13.8	48.5
		120	57.8	15.8	47.9	60.0	16.0	48.0	61.8	16.1	48.1	62.4	16.2	48.1	62.9	16.2	48.2	63.6	16.2	48.2	63.8	16.1	48.2
100	10	50	54.1	6.96	15.8	64.5	9.11	17.0	74.9	11.6	18.3	80.1	12.9	18.9	85.3	14.3	19.5	91.2	14.7	20.1	93.3	14.8	20.3
		60	54.1	6.84	14.8	64.5	8.94	15.8	74.9	11.3	16.9	80.1	12.6	17.4	85.3	14.0	17.9	91.7	14.5	18.5	93.7	14.6	18.6
		96	54.1	6.50	13.0	64.5	8.49	13.6	74.9	10.8	14.3	80.1	12.0	14.6	85.3	13.3	14.9	92.8	14.1	15.3	94.9	14.2	15.4
		120	54.1	6.38	12.4	64.5	8.33	12.9	74.9	10.6	13.4	80.1	11.8	13.7	85.3	13.0	13.9	93.2	14.0	14.3	95.4	14.1	14.4
	15	50	54.1	7.21	20.9	64.5	9.43	22.1	74.9	12.0	23.3	80.1	13.3	23.9	85.3	14.8	24.6	89.6	15.1	25.0	91.6	15.2	25.2
		60	54.1	7.07	19.9	64.5	9.25	20.9	74.9	11.7	21.9	80.1	13.1	22.4	85.3	14.5	22.9	90.0	15.0	23.4	92.1	15.1	23.5
		96	54.1	6.73	18.0	64.5	8.79	18.6	74.9	11.1	19.3	80.1	12.4	19.6	85.3	13.8	19.9	91.2	14.5	20.3	93.2	14.6	20.4
		120	54.1	6.60	17.4	64.5	8.62	17.9	74.9	10.9	18.4	80.1	12.2	18.7	85.3	13.5	18.9	91.6	14.4	19.2	93.6	14.5	19.3
	20	50	54.1	7.48	25.9	64.5	9.80	27.1	74.9	12.4	28.3	80.1	13.9	29.0	85.3	15.4	29.6	87.5	15.5	29.8	89.4	15.6	30.0
		60	54.1	7.35	24.9	64.5	9.61	25.9	74.9	12.2	26.9	80.1	13.6	27.5	85.3	15.1	28.0	87.9	15.4	28.2	89.9	15.5	28.4
		96	54.1	6.99	23.0	64.5	9.13	23.7	74.9	11.6	24.3	80.1	12.9	24.6	85.3	14.3	25.0	89.0	15.0	25.2	91.0	15.1	25.3
		120	54.1	6.86	22.4	64.5	8.96	22.9	74.9	11.4	23.4	80.1	12.7	23.7	85.3	14.0	24.0	89.4	14.8	24.2	91.4	14.9	24.2
	25	50	54.1	8.79	31.0	64.5	11.5	32.3	74.9	14.7	33.6	80.1	16.4	34.2	82.8	17.1	34.6	84.9	17.3	34.8	86.8	17.4	35.0
		60	54.1	8.63	30.0	64.5	11.3	31.0	74.9	14.4	32.1	80.1	16.1	32.7	83.2	17.0	33.0	85.3	17.1	33.2	87.2	17.2	33.3
		96	54.1	8.20	28.1	64.5	10.8	28.7	74.9	13.7	29.4	80.1	15.2	29.7	84.2	16.5	30.0	86.4	16.6	30.1	88.3	16.7	30.2
		120	54.1	8.05	27.5	64.5	10.5	28.0	74.9	13.4	28.5	80.1	14.9	28.8	84.6	16.3	29.0	86.8	16.5	29.1	88.7	16.6	29.2
	30	50	54.1	10.4	36.2	64.5	13.6	37.5	74.9	17.4	38.8	78.8	18.8	39.3	79.9	18.9	39.4	81.9	19.0	39.6	83.5	19.1	39.8
		60	54.1	10.2	35.1	64.5	13.4	36.2	74.9	17.1	37.3	79.1	18.6	37.8	80.2	18.7	37.9	82.2	18.8	38.0	83.9	19.0	38.2
		96	54.1	9.67	33.2	64.5	12.7	33.8	74.9	16.2	34.5	80.1	18.1	34.9	81.2	18.2	34.9	83.3	18.3	35.1	85.0	18.4	35.1
		120	54.1	9.48	32.5	64.5	12.5	33.1	74.9	15.9	33.6	80.1	17.7	33.9	81.6	18.0	34.0	83.7	18.1	34.1	85.4	18.2	34.1
	35	50	54.1	12.3	41.3	64.5	16.3	42.7	74.2	20.4	44.0	75.4	20.5	44.2	76.4	20.6	44.3	78.2	20.8	44.5	79.7	20.9	44.6
		60	54.1	12.1	40.3	64.5	16.0	41.4	74.6	20.2	42.6	75.7	20.3	42.6	76.8	20.4	42.7	78.6	20.6	42.9	80.1	20.7	43.0
		96	54.1	11.5	38.3	64.5	15.2	39.0	74.9	19.4	39.7	76.6	19.8	39.8	77.7	19.9	39.9	79.6	20.0	40.0	81.2	20.1	40.0
		120	54.1	11.3	37.6	64.5	14.9	38.2	74.9	19.0	38.7	77.0	19.6	38.8	78.1	19.7	38.9	80.0	19.8	39.0	81.6	19.9	39.0
	40	50	54.0	14.9	46.6	56.1	15.1	46.8	57.8	15.2	47.0	58.4	15.3	47.0	59.0	15.3	47.1	59.7	15.3	47.2	60.0	15.3	47.2
		60	54.1	14.6	45.5	59.0	16.3	46.0	60.9	16.5	46.2	61.6	16.5	46.2	62.3	16.6	46.3	63.3	16.6	46.4	63.8	16.6	46.4
		96	54.1	12.7	43.3	64.5	16.9	44.0	69.3	18.4	44.4	70.3	18.5	44.4	71.2	18.6	44.5	72.7	18.7	44.6	73.9	18.8	44.6
		120	54.1	12.3	42.6	64.5	16.3	43.2	69.9	18.1	43.5	70.9	18.2	43.5	71.8	18.3	43.6	73.4	18.4	43.7	74.6	18.5	43.7
	45	50	39.0	9.58	49.6	39.8	9.61	49.7	39.9	9.56	49.7	39.8	9.50	49.7	39.4	9.43	49.7	38.2	9.22	49.5	36.2	8.93	49.3
		60	42.3	10.5	49.2	43.5	10.6	49.3	44.0	10.6	49.3	44.1	10.5	49.3	44.0	10.5	49.3	43.3	10.4	49.3	42.0	10.1	49.2
		96	51.8	13.7	48.3	53.8	13.8	48.4	55.3	13.9	48.4	55.8	14.0	48.5	56.3	14.0	48.5	56.8	14.0	48.5	56.9	13.9	48.5
		120	54.1	14.3	47.7	58.8	15.9	48.0	60.7	16.0	48.1	61.5	16.1	48.1	62.1	16.1	48.1	63.1	16.2	48.2	63.6	16.2	48.2

3 Capacity tables

3 - 1 Cooling capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	50	48.7	5.97	15.2	58.0	7.75	16.3	67.4	9.77	17.4	72.1	10.9	17.9	76.8	12.0	18.5	86.2	14.4	19.6	91.2	14.7	20.1
		60	48.7	5.86	14.3	58.0	7.60	15.2	67.4	9.58	16.1	72.1	10.7	16.6	76.8	11.8	17.1	86.2	14.2	18.0	91.6	14.5	18.5
		96	48.7	5.58	12.7	58.0	7.23	13.2	67.4	9.10	13.8	72.1	10.1	14.1	76.8	11.2	14.4	86.2	13.5	15.0	92.8	14.1	15.3
		120	48.7	5.48	12.2	58.0	7.09	12.6	67.4	8.93	13.0	72.1	9.93	13.3	76.8	11.0	13.5	86.2	13.3	14.0	93.2	14.0	14.3
	15	50	48.7	6.18	20.2	58.0	8.02	21.3	67.4	10.1	22.4	72.1	11.3	23.0	76.8	12.5	23.5	86.2	14.9	24.7	89.6	15.1	25.0
		60	48.7	6.07	19.4	58.0	7.87	20.2	67.4	9.92	21.2	72.1	11.0	21.6	76.8	12.2	22.1	86.2	14.7	23.0	90.0	14.9	23.4
		96	48.7	5.77	17.7	58.0	7.48	18.3	67.4	9.42	18.8	72.1	10.5	19.1	76.8	11.6	19.4	86.2	14.0	20.0	91.1	14.5	20.3
		120	48.7	5.67	17.2	58.0	7.34	17.6	67.4	9.24	18.1	72.1	10.3	18.3	76.8	11.4	18.5	86.2	13.7	19.0	91.5	14.4	19.2
	20	50	48.7	6.41	25.3	58.0	8.33	26.3	67.4	10.5	27.4	72.1	11.7	28.0	76.8	12.9	28.6	85.5	15.4	29.6	87.5	15.5	29.8
		60	48.7	6.30	24.4	58.0	8.17	25.3	67.4	10.3	26.2	72.1	11.5	26.7	76.8	12.7	27.1	85.9	15.3	28.1	87.9	15.4	28.2
		96	48.7	5.99	22.7	58.0	7.77	23.3	67.4	9.79	23.8	72.1	10.9	24.1	76.8	12.1	24.4	86.2	14.6	25.0	89.0	15.0	25.2
		120	48.7	5.88	22.2	58.0	7.62	22.6	67.4	9.60	23.1	72.1	10.7	23.3	76.8	11.8	23.5	86.2	14.3	24.0	89.4	14.8	24.1
	25	50	48.7	7.52	30.4	58.0	9.79	31.5	67.4	12.4	32.6	72.1	13.8	33.2	76.8	15.3	33.8	83.0	17.1	34.6	84.9	17.3	34.8
		60	48.7	7.38	29.5	58.0	9.61	30.4	67.4	12.1	31.3	72.1	13.5	31.8	76.8	15.0	32.3	83.4	17.0	33.0	85.3	17.1	33.2
		96	48.7	7.02	27.8	58.0	9.13	28.3	67.4	11.5	28.9	72.1	12.8	29.2	76.8	14.2	29.5	84.4	16.5	30.0	86.4	16.6	30.1
		120	48.7	6.89	27.2	58.0	8.96	27.7	67.4	11.3	28.1	72.1	12.6	28.4	76.8	13.9	28.6	84.8	16.3	29.0	86.8	16.5	29.1
	30	50	48.7	8.84	35.5	58.0	11.6	36.6	67.4	14.6	37.8	72.1	16.3	38.4	76.8	18.1	39.1	80.0	18.9	39.5	81.8	19.0	39.6
		60	48.7	8.68	34.6	58.0	11.3	35.5	67.4	14.4	36.5	72.1	16.0	37.0	76.8	17.8	37.5	80.4	18.7	37.9	82.2	18.8	38.0
		96	48.7	8.26	32.8	58.0	10.8	33.4	67.4	13.6	34.0	72.1	15.2	34.3	76.8	16.9	34.7	81.4	18.2	35.0	83.2	18.3	35.1
		120	48.7	8.10	32.3	58.0	10.6	32.7	67.4	13.4	33.2	72.1	14.9	33.5	76.8	16.5	33.7	81.8	18.0	34.0	83.6	18.1	34.1
	35	50	48.7	10.5	40.7	58.0	13.8	41.9	67.4	17.5	43.1	72.1	19.5	43.8	74.7	20.5	44.1	76.6	20.6	44.3	78.2	20.8	44.5
		60	48.7	10.3	39.7	58.0	13.5	40.7	67.4	17.2	41.7	72.1	19.2	42.3	75.0	20.3	42.6	76.9	20.4	42.8	78.6	20.6	42.9
		96	48.7	9.78	37.9	58.0	12.8	38.5	67.4	16.3	39.2	72.1	18.2	39.5	75.9	19.7	39.8	77.9	19.9	39.9	79.6	20.0	40.0
		120	48.7	9.60	37.3	58.0	12.6	37.8	67.4	16.0	38.3	72.1	17.8	38.6	76.3	19.5	38.8	78.2	19.7	38.9	79.9	19.8	39.0
	40	50	48.7	12.6	45.9	54.8	15.0	46.7	56.6	15.1	46.9	57.4	15.2	46.9	58.0	15.3	47.0	59.1	15.3	47.1	59.7	15.3	47.2
		60	48.7	12.3	44.9	57.6	16.2	45.9	59.6	16.4	46.0	60.4	16.4	46.1	61.1	16.5	46.2	62.4	16.6	46.3	63.3	16.6	46.4
		96	48.7	10.8	43.0	58.0	14.2	43.6	67.4	18.2	44.3	68.7	18.4	44.3	69.6	18.5	44.4	71.3	18.6	44.5	72.7	18.7	44.6
		120	48.7	10.4	42.4	58.0	13.7	42.9	67.4	17.6	43.4	69.3	18.1	43.5	70.2	18.2	43.5	71.9	18.3	43.6	73.4	18.4	43.7
	45	50	38.3	9.53	49.6	39.4	9.60	49.7	39.9	9.60	49.7	40.0	9.58	49.7	39.9	9.54	49.7	39.3	9.41	49.7	38.2	9.22	49.5
		60	41.4	10.4	49.1	42.8	10.5	49.2	43.7	10.6	49.3	43.9	10.6	49.3	44.1	10.6	49.4	43.9	10.5	49.3	43.3	10.4	49.3
		96	48.7	12.5	48.0	52.6	13.7	48.3	54.2	13.9	48.4	54.9	13.9	48.4	55.5	14.0	48.5	56.4	14.0	48.5	56.8	14.0	48.5
		120	48.7	12.0	47.4	57.5	15.8	47.9	59.4	15.9	48.0	60.2	16.0	48.0	61.0	16.1	48.1	62.2	16.1	48.1	63.1	16.2	48.2
80	10	50	43.2	5.06	14.6	51.6	6.50	15.5	59.9	8.13	16.5	64.1	9.02	17.0	68.2	9.96	17.5	76.6	12.0	18.5	84.9	14.2	19.5
		60	43.2	4.97	13.8	51.6	6.38	14.6	59.9	7.98	15.4	64.1	8.85	15.8	68.2	9.77	16.2	76.6	11.8	17.0	84.9	13.9	17.9
		96	43.2	4.73	12.4	51.6	6.07	12.9	59.9	7.59	13.4	64.1	8.41	13.6	68.2	9.28	13.9	76.6	11.2	14.4	84.9	13.2	14.9
		120	43.2	4.65	11.9	51.6	5.96	12.3	59.9	7.44	12.7	64.1	8.25	12.9	68.2	9.10	13.1	76.6	10.9	13.5	84.9	12.9	13.9
	15	50	43.2	5.23	19.6	51.6	6.72	20.6	59.9	8.42	21.5	64.1	9.34	22.0	68.2	10.3	22.5	76.6	12.4	23.5	84.9	14.7	24.5
		60	43.2	5.14	18.9	51.6	6.60	19.6	59.9	8.26	20.4	64.1	9.16	20.8	68.2	10.1	21.2	76.6	12.2	22.1	84.9	14.4	22.9
		96	43.2	4.90	17.4	51.6	6.28	17.9	59.9	7.85	18.4	64.1	8.71	18.6	68.2	9.61	18.9	76.6	11.5	19.4	84.9	13.7	19.9
		120	43.2	4.81	16.9	51.6	6.17	17.3	59.9	7.70	17.7	64.1	8.54	17.9	68.2	9.42	18.1	76.6	11.3	18.5	84.9	13.4	18.9
	20	50	43.2	5.43	24.7	51.6	6.98	25.6	59.9	8.74	26.6	64.1	9.70	27.1	68.2	10.7	27.5	76.6	12.9	28.5	84.9	15.3	29.6
		60	43.2	5.33	23.9	51.6	6.86	24.7	59.9	8.58	25.5	64.1	9.52	25.9	68.2	10.5	26.3	76.6	12.6	27.1	84.9	15.0	28.0
		96	43.2	5.08	22.4	51.6	6.52	22.9	59.9	8.16	23.4	64.1	9.05	23.6	68.2	9.99	23.9	76.6	12.0	24.4	84.9	14.2	24.9
		120	43.2	4.99	21.9	51.6	6.40	22.3	59.9	8.00	22.7	64.1	8.87	22.9	68.2	9.79	23.1	76.6	11.8	23.5	84.9	13.9	23.9
	25	50	43.2	6.35	29.7	51.6	8.19	30.7	59.9	10.3	31.7	64.1	11.4	32.2	68.2	12.6	32.7	76.6	15.2	33.8	82.8	17.1	34.5
		60	43.2	6.24	28.9	51.6	8.04	29.7	59.9	10.1	30.6	64.1	11.2	31.0	68.2	12.4	31.4	76.6	14.9	32.3	83.1	17.0	33.0
		96	43.2	5.94	27.4	51.6	7.65	27.9	59.9	9.59	28.5	64.1	10.6	28.7	68.2	11.8	29.0	76.6	14.2	29.5	84.2	16.5	30.0
		120	43.2	5.83	27.0	51.6	7.51	27.4	59.9	9.41	27.8	64.1	10.4	28.0	68.2	11.5	28.2	76.6	13.9	28.6	84.5	16.3	29.0
	30	50	43.2	7.45	34.8	51.6	9.65	35.9	59.9	12.1	36.9	64.1	13.5	37.4	68.2	14.9	37.9	76.6	18.0	39.0	79.8	18.9	39.4
		60	43.2	7.31	34.0	51.6	9.47	34.9	59.9	11.9	35.7	64.1	13.3	36.2	68.2	14.7	36.6	76.6	17.7	37.5	80.2	18.7	37.9
		96	43.2	6.97	32.5	51.6	9.01	33.0	59.9	11.3	33.5	64.1	12.6	33.8	68.2	13.9	34.1	76.6	16.8	34.6	81.2	18.2	34.9
		120	43.2	6.84	32.0	51.6	8.84	32.4	59.9	11.1	32.8	64.1	12.3	33.0	68.2	13.6	33.3	76.6	16.5	33.7	81.5	18.0	34.0
	35	50	43.2	8.80	40.0	51.6	11.5	41.0	59.9	14.5	42.1	64.1	16.1	42.7	68.2	17.9	43.2	74.6	20.5	44.1	76.3	20.6	44.3
		60	43.2	8.64	39.1	51.6	11.2	40.0	59.9	14.2	40.9	64.1	15.8	41.4	68.2	17.5	41.8	75.0	20.3	42.6	76.7	20.4	42.7
		96	43.2	8.23	37.6	51.6	10.7	38.1	59.9	13.5	38.7	64.1	15.0	38.9	68.2	16.6	39.2	75.9	19.7	39.8	77.6	19.9	39.9
		120	43.2	8.07	37.0	51.6	10.5	37.5	59.9	13.2	37.9	64.1	14.7	38.1	68.2	16.3	38.4	76.2	19.5	38.8	78.0	19.7	38.9
	40	50	43.2	10.4	45.1	51.6	13.8	46.3	55.2	15.0	46.7	56.0	15.1	46.8	56.8	15.2	46.9	58.0	15.3	47.0	58.9	15.3	47.1
		60	43.2	10.2	44.3	51.6	13.5	45.2	58.1	16.2	45.9	58.9	16.3	46.0	59.7	16.4	46.1	61.1	16.5	46.2	62.2	16.6	46.3
		96	43.2	9.00	42.6	51.6	11.8	43.2	59.9	15.0	43.7	64.1	16.7	44.0	67.9	18.3	44.3	69.6	18.5	44.4	71.1	18.6	44.5
		120	43.2	8.71	42.1	51.6	11.4	42.5	59.9	14.5	43.0	64.1	16.1	43.2	68.2	17.9	43.4	70.2	18.2	43.5	71.7	18.3	43.6
	45	50	37.4	9.47	49.5	38.7	9.56	49.6	39.5	9.60	49.7	39.8	9.61	49.7	39.9	9.60	49.7	39.9	9.54	49.7	39.4	9.43	49.7
		60	40.4	10.4	49.0	41.9	10.5	49.2	43.0	10.6	49.3	43.4	10.6	49.3	43.7	10.6	49.3	44.1	10.6	49.4	44.0	10.5	49.3
		96	43.2	10.3	47.7	51.3	13.6	48.2	53.0	13.8	48.3	53.7	13.8	48.4	54.4	13.9	48.4	55.5	14.0	48.5	56.3	14.0	48.5
		120	43.2	9.98	47.1	51.6	13.2	47.6	57.9	15.8	47.9	58.8	15.9	48.0	59.6	15.9	48.0	60.9	16.1	48.1	62.1	16.1	48.1

3 Capacity tables

3 - 1 Cooling capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	50	37.8	4.22	14.0	45.1	5.36	14.8	52.4	6.65	15.6	56.1	7.35	16.1	59.7	8.09	16.5	67.0	9.67	17.3	74.3	11.4	18.2
		60	37.8	4.15	13.3	45.1	5.27	14.0	52.4	6.53	14.7	56.1	7.22	15.0	59.7	7.94	15.4	67.0	9.49	16.1	74.3	11.2	16.8
		96	37.8	3.96	12.1	45.1	5.02	12.5	52.4	6.22	12.9	56.1	6.87	13.1	59.7	7.55	13.3	67.0	9.02	13.8	74.3	10.6	14.2
		120	37.8	3.89	11.7	45.1	4.93	12.0	52.4	6.10	12.3	56.1	6.74	12.5	59.7	7.41	12.7	67.0	8.84	13.0	74.3	10.4	13.4
	15	50	37.8	4.37	19.0	45.1	5.55	19.8	52.4	6.89	20.7	56.1	7.61	21.1	59.7	8.37	21.5	67.0	10.0	22.4	74.3	11.8	23.2
		60	37.8	4.29	18.4	45.1	5.45	19.0	52.4	6.76	19.7	56.1	7.47	20.1	59.7	8.22	20.4	67.0	9.83	21.1	74.3	11.6	21.8
		96	37.8	4.09	17.1	45.1	5.19	17.5	52.4	6.43	17.9	56.1	7.11	18.1	59.7	7.81	18.4	67.0	9.34	18.8	74.3	11.0	19.2
		120	37.8	4.02	16.7	45.1	5.10	17.0	52.4	6.31	17.3	56.1	6.97	17.5	59.7	7.67	17.7	67.0	9.16	18.0	74.3	10.8	18.4
	20	50	37.8	4.53	24.0	45.1	5.76	24.9	52.4	7.15	25.7	56.1	7.91	26.1	59.7	8.70	26.5	67.0	10.4	27.4	74.3	12.3	28.3
		60	37.8	4.45	23.4	45.1	5.66	24.0	52.4	7.02	24.7	56.1	7.76	25.1	59.7	8.54	25.4	67.0	10.2	26.1	74.3	12.0	26.9
		96	37.8	4.25	22.1	45.1	5.39	22.5	52.4	6.68	22.9	56.1	7.38	23.2	59.7	8.12	23.4	67.0	9.70	23.8	74.3	11.4	24.3
		120	37.8	4.17	21.7	45.1	5.29	22.0	52.4	6.55	22.3	56.1	7.24	22.5	59.7	7.96	22.7	67.0	9.51	23.0	74.3	11.2	23.4
	25	50	37.8	5.29	29.1	45.1	6.74	30.0	52.4	8.39	30.8	56.1	9.29	31.2	59.7	10.2	31.7	67.0	12.3	32.6	74.3	14.5	33.5
		60	37.8	5.19	28.4	45.1	6.62	29.1	52.4	8.24	29.8	56.1	9.12	30.2	59.7	10.0	30.6	67.0	12.0	31.3	74.3	14.2	32.0
		96	37.8	4.95	27.1	45.1	6.31	27.6	52.4	7.84	28.0	56.1	8.67	28.2	59.7	9.54	28.4	67.0	11.4	28.9	74.3	13.5	29.4
		120	37.8	4.86	26.7	45.1	6.19	27.0	52.4	7.69	27.4	56.1	8.50	27.6	59.7	9.36	27.8	67.0	11.2	28.1	74.3	13.2	28.5
	30	50	37.8	6.18	34.2	45.1	7.92	35.1	52.4	9.89	36.0	56.1	11.0	36.4	59.7	12.1	36.9	67.0	14.5	37.8	74.3	17.2	38.7
		60	37.8	6.07	33.5	45.1	7.78	34.2	52.4	9.70	34.9	56.1	10.8	35.3	59.7	11.9	35.7	67.0	14.2	36.5	74.3	16.8	37.3
		96	37.8	5.79	32.2	45.1	7.40	32.6	52.4	9.23	33.1	56.1	10.2	33.3	59.7	11.3	33.5	67.0	13.5	34.0	74.3	16.0	34.5
		120	37.8	5.68	31.7	45.1	7.27	32.1	52.4	9.05	32.4	56.1	10.0	32.6	59.7	11.0	32.8	67.0	13.3	33.2	74.3	15.7	33.6
	35	50	37.8	7.28	39.3	45.1	9.37	40.2	52.4	11.7	41.1	56.1	13.0	41.6	59.7	14.4	42.1	67.0	17.3	43.1	74.1	20.4	44.0
		60	37.8	7.15	38.6	45.1	9.20	39.3	52.4	11.5	40.1	56.1	12.8	40.5	59.7	14.1	40.9	67.0	17.0	41.7	74.3	20.1	42.5
		96	37.8	6.81	37.2	45.1	8.75	37.7	52.4	11.0	38.2	56.1	12.1	38.4	59.7	13.4	38.6	67.0	16.1	39.1	74.3	19.1	39.6
		120	37.8	6.69	36.8	45.1	8.59	37.1	52.4	10.7	37.5	56.1	11.9	37.7	59.7	13.2	37.9	67.0	15.8	38.3	74.3	18.7	38.7
	40	50	37.8	8.45	44.4	45.1	11.1	45.4	52.4	14.2	46.4	54.4	15.0	46.6	55.2	15.0	46.7	56.6	15.1	46.9	57.7	15.2	47.0
		60	37.8	8.31	43.7	45.1	10.9	44.5	52.4	13.9	45.3	56.1	15.5	45.7	58.0	16.2	45.9	59.5	16.4	46.0	60.8	16.5	46.1
		96	37.8	7.40	42.3	45.1	9.59	42.7	52.4	12.1	43.2	56.1	13.4	43.5	59.7	14.9	43.7	67.0	18.0	44.2	69.1	18.4	44.4
		120	37.8	7.17	41.8	45.1	9.29	42.2	52.4	11.7	42.6	56.1	13.0	42.8	59.7	14.4	43.0	67.0	17.4	43.4	69.7	18.1	43.5
	45	50	36.4	9.38	49.4	37.7	9.49	49.5	38.8	9.57	49.6	39.2	9.59	49.7	39.5	9.60	49.7	39.9	9.60	49.7	40.0	9.56	49.7
		60	37.8	9.53	48.8	40.8	10.4	49.1	42.0	10.5	49.2	42.6	10.5	49.2	43.0	10.6	49.3	43.7	10.6	49.3	44.0	10.6	49.3
		96	37.8	8.37	47.3	45.1	11.1	47.8	51.4	13.6	48.2	52.2	13.7	48.3	52.9	13.8	48.3	54.2	13.9	48.4	55.2	13.9	48.4
		120	37.8	8.13	46.8	45.1	10.7	47.2	52.4	13.6	47.6	56.1	15.2	47.8	57.9	15.8	47.9	59.3	15.9	48.0	60.6	16.0	48.1
60	10	50	32.4	3.47	13.4	38.7	4.35	14.1	44.9	5.33	14.8	48.1	5.86	15.2	51.2	6.42	15.5	57.4	7.63	16.2	63.7	8.93	16.9
		60	32.4	3.41	12.9	38.7	4.27	13.4	44.9	5.24	14.0	48.1	5.76	14.3	51.2	6.31	14.6	57.4	7.49	15.2	63.7	8.77	15.8
		96	32.4	3.26	11.8	38.7	4.07	12.1	44.9	4.99	12.5	48.1	5.48	12.7	51.2	6.00	12.8	57.4	7.12	13.2	63.7	8.33	13.6
		120	32.4	3.20	11.4	38.7	4.00	11.7	44.9	4.90	12.0	48.1	5.38	12.1	51.2	5.89	12.3	57.4	6.98	12.6	63.7	8.17	12.9
	15	50	32.4	3.59	18.4	38.7	4.50	19.1	44.9	5.52	19.8	48.1	6.07	20.2	51.2	6.65	20.5	57.4	7.89	21.2	63.7	9.25	22.0
		60	32.4	3.53	17.9	38.7	4.42	18.4	44.9	5.42	19.0	48.1	5.96	19.3	51.2	6.53	19.6	57.4	7.75	20.2	63.7	9.08	20.8
		96	32.4	3.37	16.8	38.7	4.21	17.1	44.9	5.16	17.5	48.1	5.67	17.7	51.2	6.21	17.9	57.4	7.37	18.2	63.7	8.62	18.6
		120	32.4	3.31	16.4	38.7	4.14	16.7	44.9	5.07	17.0	48.1	5.57	17.1	51.2	6.10	17.3	57.4	7.23	17.6	63.7	8.46	17.9
	20	50	32.4	3.72	23.5	38.7	4.66	24.1	44.9	5.73	24.8	48.1	6.30	25.2	51.2	6.90	25.6	57.4	8.20	26.3	63.7	9.61	27.0
		60	32.4	3.66	22.9	38.7	4.58	23.4	44.9	5.62	24.0	48.1	6.19	24.3	51.2	6.78	24.6	57.4	8.05	25.2	63.7	9.43	25.8
		96	32.4	3.49	21.8	38.7	4.37	22.1	44.9	5.36	22.5	48.1	5.89	22.7	51.2	6.45	22.9	57.4	7.65	23.2	63.7	8.96	23.6
		120	32.4	3.43	21.4	38.7	4.29	21.7	44.9	5.26	22.0	48.1	5.78	22.1	51.2	6.33	22.3	57.4	7.51	22.6	63.7	8.79	22.9
	25	50	32.4	4.33	28.5	38.7	5.44	29.2	44.9	6.70	29.9	48.1	7.38	30.3	51.2	8.10	30.7	57.4	9.64	31.4	63.7	11.3	32.2
		60	32.4	4.25	27.9	38.7	5.35	28.5	44.9	6.58	29.1	48.1	7.25	29.4	51.2	7.95	29.7	57.4	9.46	30.3	63.7	11.1	31.0
		96	32.4	4.06	26.8	38.7	5.10	27.2	44.9	6.27	27.5	48.1	6.90	27.7	51.2	7.56	27.9	57.4	8.99	28.3	63.7	10.5	28.7
		120	32.4	3.99	26.5	38.7	5.01	26.7	44.9	6.15	27.0	48.1	6.77	27.2	51.2	7.42	27.3	57.4	8.82	27.6	63.7	10.3	27.9
	30	50	32.4	5.04	33.6	38.7	6.37	34.3	44.9	7.87	35.0	48.1	8.68	35.4	51.2	9.54	35.8	57.4	11.4	36.6	63.7	13.4	37.4
		60	32.4	4.96	33.0	38.7	6.26	33.6	44.9	7.73	34.2	48.1	8.52	34.5	51.2	9.36	34.8	57.4	11.2	35.5	63.7	13.1	36.1
		96	32.4	4.73	31.8	38.7	5.97	32.2	44.9	7.36	32.6	48.1	8.11	32.8	51.2	8.90	33.0	57.4	10.6	33.4	63.7	12.5	33.8
		120	32.4	4.65	31.5	38.7	5.86	31.8	44.9	7.22	32.1	48.1	7.96	32.2	51.2	8.74	32.4	57.4	10.4	32.7	63.7	12.2	33.0
	35	50	32.4	5.91	38.7	38.7	7.51	39.4	44.9	9.31	40.2	48.1	10.3	40.6	51.2	11.3	41.0	57.4	13.5	41.8	63.7	16.0	42.6
		60	32.4	5.81	38.0	38.7	7.37	38.7	44.9	9.14	39.3	48.1	10.1	39.6	51.2	11.1	40.0	57.4	13.3	40.6	63.7	15.7	41.3
		96	32.4	5.54	36.9	38.7	7.02	37.3	44.9	8.70	37.7	48.1	9.61	37.9	51.2	10.6	38.1	57.4	12.6	38.5	63.7	14.9	38.9
		120	32.4	5.44	36.5	38.7	6.90	36.8	44.9	8.53	37.1	48.1	9.42	37.3	51.2	10.4	37.5	57.4	12.4	37.8	63.7	14.6	38.1
	40	50	32.4	6.70	43.7	38.7	8.74	44.5	44.9	11.1	45.4	48.1	12.3	45.8	51.2	13.7	46.2	54.7	15.0	46.7	56.0	15.1	46.8
		60	32.4	6.62	43.1	38.7	8.59	43.8	44.9	10.8	44.4	48.1	12.1	44.8	51.2	13.3	45.1	57.4	16.1	45.9	58.8	16.3	46.0
		96	32.4	5.97	41.9	38.7	7.64	42.3	44.9	9.53	42.7	48.1	10.6	42.9	51.2	11.6	43.1	57.4	14.0	43.6	63.7	16.5	44.0
		120	32.4	5.79	41.5	38.7	7.40	41.8	44.9	9.23	42.2	48.1	10.2	42.3	51.2	11.3	42.5	57.4	13.5	42.8	63.7	16.0	43.2
	45	50	32.4	7.89	48.9	36.5	9.39	49.4	37.7	9.49	49.5	38.2	9.53	49.6	38.6	9.56	49.6	39.3	9.60	49.7	39.8	9.61	49.7
		60	32.4	7.42	48.2	38.7	9.89	48.9	40.7	10.4	49.1	41.3	10.4	49.1	41.9	10.5	49.2	42.7	10.5	49.2	43.4	10.6	49.3
		96	32.4	6.62	46.9	38.7	8.66	47.4	44.9	11.0	47.8	48.1	12.3	48.0	51.2	13.6	48.2	52.5	13.7	48.3	53.6	13.8	48.4
		120	32.4	6.48	46.5	38.7	8.41	46.9	44.9	10.6	47.2	48.1	11.8	47.4	51.2	13.1	47.6	57.4	15.7	47.9	58.7	15.9	48.0

3 Capacity tables

3 - 1 Cooling capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	50	27.0	2.80	12.9	32.2	3.45	13.4	37.4	4.16	14.0	40.1	4.55	14.3	42.7	4.96	14.5	47.9	5.83	15.1	53.1	6.78	15.7
		60	27.0	2.76	12.4	32.2	3.39	12.8	37.4	4.09	13.3	40.1	4.47	13.5	42.7	4.87	13.8	47.9	5.73	14.3	53.1	6.65	14.8
		96	27.0	2.64	11.5	32.2	3.24	11.8	37.4	3.91	12.1	40.1	4.27	12.2	42.7	4.64	12.4	47.9	5.45	12.7	53.1	6.33	13.0
		120	27.0	2.59	11.2	32.2	3.18	11.4	37.4	3.84	11.6	40.1	4.19	11.8	42.7	4.56	11.9	47.9	5.35	12.1	53.1	6.21	12.4
	15	50	27.0	2.89	17.9	32.2	3.56	18.4	37.4	4.31	19.0	40.1	4.71	19.3	42.7	5.13	19.6	47.9	6.03	20.1	53.1	7.01	20.7
		60	27.0	2.85	17.4	32.2	3.50	17.8	37.4	4.23	18.3	40.1	4.63	18.6	42.7	5.04	18.8	47.9	5.92	19.3	53.1	6.88	19.8
		96	27.0	2.72	16.5	32.2	3.35	16.8	37.4	4.04	17.1	40.1	4.41	17.2	42.7	4.80	17.4	47.9	5.64	17.7	53.1	6.55	18.0
		120	27.0	2.68	16.2	32.2	3.29	16.4	37.4	3.97	16.6	40.1	4.33	16.8	42.7	4.72	16.9	47.9	5.54	17.1	53.1	6.43	17.4
	20	50	27.0	3.00	22.9	32.2	3.69	23.4	37.4	4.47	24.0	40.1	4.89	24.3	42.7	5.32	24.6	47.9	6.26	25.2	53.1	7.28	25.8
		60	27.0	2.95	22.4	32.2	3.63	22.9	37.4	4.39	23.3	40.1	4.80	23.6	42.7	5.23	23.8	47.9	6.15	24.3	53.1	7.15	24.8
		96	27.0	2.82	21.5	32.2	3.47	21.8	37.4	4.19	22.1	40.1	4.58	22.2	42.7	4.98	22.4	47.9	5.86	22.7	53.1	6.80	23.0
		120	27.0	2.78	21.2	32.2	3.41	21.4	37.4	4.11	21.7	40.1	4.50	21.8	42.7	4.89	21.9	47.9	5.75	22.1	53.1	6.67	22.4
	25	50	27.0	3.47	27.9	32.2	4.29	28.5	37.4	5.21	29.1	40.1	5.71	29.4	42.7	6.23	29.7	47.9	7.34	30.3	53.1	8.55	30.9
		60	27.0	3.42	27.4	32.2	4.22	27.9	37.4	5.12	28.4	40.1	5.61	28.6	42.7	6.12	28.9	47.9	7.21	29.4	53.1	8.39	29.9
		96	27.0	3.27	26.5	32.2	4.03	26.8	37.4	4.88	27.1	40.1	5.34	27.3	42.7	5.83	27.4	47.9	6.86	27.7	53.1	7.98	28.0
		120	27.0	3.21	26.2	32.2	3.96	26.4	37.4	4.80	26.7	40.1	5.25	26.8	42.7	5.72	26.9	47.9	6.73	27.2	53.1	7.83	27.4
	30	50	27.0	4.03	33.0	32.2	5.00	33.6	37.4	6.09	34.2	40.1	6.68	34.5	42.7	7.30	34.8	47.9	8.63	35.4	53.1	10.1	36.0
		60	27.0	3.96	32.5	32.2	4.92	33.0	37.4	5.99	33.5	40.1	6.57	33.7	42.7	7.17	34.0	47.9	8.47	34.5	53.1	9.89	35.0
		96	27.0	3.79	31.5	32.2	4.69	31.8	37.4	5.71	32.1	40.1	6.26	32.3	42.7	6.83	32.5	47.9	8.06	32.8	53.1	9.40	33.1
		120	27.0	3.72	31.2	32.2	4.61	31.5	37.4	5.60	31.7	40.1	6.14	31.8	42.7	6.70	32.0	47.9	7.91	32.2	53.1	9.22	32.5
	35	50	27.0	4.69	38.0	32.2	5.86	38.6	37.4	7.17	39.3	40.1	7.88	39.6	42.7	8.63	39.9	47.9	10.2	40.6	53.1	12.0	41.2
		60	27.0	4.62	37.5	32.2	5.76	38.0	37.4	7.05	38.5	40.1	7.74	38.8	42.7	8.47	39.1	47.9	10.0	39.6	53.1	11.7	40.2
		96	27.0	4.41	36.6	32.2	5.50	36.9	37.4	6.71	37.2	40.1	7.37	37.4	42.7	8.06	37.5	47.9	9.55	37.9	53.1	11.2	38.2
		120	27.0	4.34	36.2	32.2	5.40	36.5	37.4	6.59	36.8	40.1	7.24	36.9	42.7	7.91	37.0	47.9	9.37	37.3	53.1	10.9	37.5
	40	50	27.0	5.17	43.1	32.2	6.64	43.7	37.4	8.31	44.4	40.1	9.22	44.7	42.7	10.2	45.0	47.9	12.2	45.7	53.1	14.5	46.5
		60	27.0	5.14	42.6	32.2	6.56	43.1	37.4	8.18	43.6	40.1	9.06	43.9	42.7	9.98	44.2	47.9	12.0	44.8	53.1	14.2	45.4
		96	27.0	4.70	41.6	32.2	5.92	41.9	37.4	7.29	42.2	40.1	8.03	42.4	42.7	8.81	42.6	47.9	10.5	42.9	53.1	12.3	43.3
		120	27.0	4.56	41.3	32.2	5.74	41.5	37.4	7.06	41.8	40.1	7.78	41.9	42.7	8.54	42.0	47.9	10.2	42.3	53.1	11.9	42.6
	45	50	27.0	5.90	48.1	32.2	7.81	48.8	36.3	9.37	49.4	36.8	9.42	49.4	37.3	9.46	49.5	38.2	9.52	49.6	38.9	9.57	49.6
		60	27.0	5.59	47.6	32.2	7.35	48.2	37.4	9.37	48.7	39.7	10.3	49.0	40.3	10.3	49.0	41.3	10.4	49.1	42.1	10.5	49.2
		96	27.0	5.08	46.6	32.2	6.56	46.9	37.4	8.23	47.3	40.1	9.15	47.4	42.7	10.1	47.6	47.9	12.2	48.0	51.6	13.6	48.2
		120	27.0	5.02	46.3	32.2	6.42	46.5	37.4	8.00	46.8	40.1	8.86	46.9	42.7	9.77	47.1	47.9	11.7	47.4	53.1	13.9	47.7

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	
130	10	80	22.9	3.63	14.8	27.3	4.83	15.8	29.9	5.12	16.3	30.3	5.14	16.4	30.7	5.16	16.4	31.4	5.19	16.6	32.0	5.21	16.7	
		96	22.9	3.42	13.9	27.3	4.55	14.8	30.4	4.97	15.3	30.8	5.00	15.3	31.2	5.02	15.4	31.9	5.05	15.5	32.5	5.07	15.6	
		120	22.9	3.21	13.1	27.3	4.26	13.8	30.9	4.81	14.3	31.3	4.84	14.3	31.7	4.86	14.4	32.5	4.89	14.5	33.1	4.91	14.5	
		150	22.9	3.07	12.5	27.3	4.07	13.0	31.2	4.70	13.4	31.6	4.72	13.5	32.1	4.74	13.5	32.8	4.77	13.6	33.4	4.79	13.7	
	15	80	22.9	3.75	19.8	27.3	5.00	20.8	29.4	5.27	21.2	29.8	5.29	21.3	30.2	5.31	21.4	30.8	5.34	21.5	31.4	5.36	21.6	
		96	22.9	3.54	18.9	27.3	4.71	19.8	29.8	5.12	20.2	30.3	5.14	20.3	30.7	5.17	20.3	31.3	5.20	20.5	31.9	5.22	20.5	
		120	22.9	3.32	18.1	27.3	4.41	18.8	30.3	4.95	19.2	30.8	4.98	19.3	31.2	5.00	19.3	31.9	5.03	19.4	32.4	5.05	19.5	
		150	22.9	3.18	17.5	27.3	4.22	18.0	30.6	4.83	18.4	31.1	4.86	18.4	31.5	4.88	18.5	32.2	4.91	18.5	32.8	4.93	18.6	
	20	80	22.9	3.90	24.8	27.3	5.20	25.8	28.7	5.42	26.1	29.1	5.44	26.2	29.5	5.46	26.3	30.1	5.49	26.4	30.5	5.51	26.5	
		96	22.9	3.68	24.0	27.3	4.90	24.8	29.1	5.27	25.1	29.5	5.29	25.2	29.9	5.31	25.3	30.6	5.35	25.4	31.1	5.37	25.4	
		120	22.9	3.45	23.1	27.3	4.59	23.8	29.6	5.10	24.1	30.0	5.12	24.2	30.4	5.14	24.2	31.1	5.18	24.3	31.6	5.20	24.4	
		150	22.9	3.30	22.5	27.3	4.39	23.0	29.9	4.97	23.3	30.3	5.00	23.4	30.7	5.02	23.4	31.4	5.05	23.5	32.0	5.07	23.5	
	25	80	22.9	4.60	29.9	26.9	5.96	30.9	27.8	6.02	31.1	28.2	6.05	31.1	28.6	6.07	31.2	29.1	6.10	31.3	29.5	6.12	31.4	
		96	22.9	4.34	29.1	27.3	5.79	29.9	28.3	5.86	30.1	28.7	5.88	30.2	29.0	5.90	30.2	29.6	5.94	30.3	30.0	5.96	30.4	
		120	22.9	4.07	28.2	27.3	5.42	28.9	28.7	5.67	29.1	29.1	5.69	29.2	29.5	5.72	29.2	30.1	5.75	29.3	30.6	5.77	29.3	
		150	22.9	3.89	27.6	27.3	5.18	28.1	29.0	5.53	28.3	29.4	5.56	28.3	29.8	5.58	28.4	30.5	5.61	28.4	30.9	5.63	28.5	
	30	80	22.9	5.44	35.1	26.0	6.56	35.8	26.8	6.63	36.0	27.2	6.66	36.1	27.5	6.68	36.1	28.0	6.71	36.2	28.3	6.72	36.3	
		96	22.9	5.14	34.2	26.4	6.38	34.9	27.2	6.45	35.0	27.6	6.48	35.1	27.9	6.50	35.1	28.5	6.53	35.2	28.8	6.54	35.3	
		120	22.9	4.81	33.3	26.8	6.17	33.9	27.7	6.24	34.1	28.1	6.27	34.1	28.4	6.29	34.1	29.0	6.32	34.2	29.4	6.34	34.3	
		150	22.9	4.60	32.6	27.1	6.02	33.2	28.0	6.09	33.3	28.4	6.12	33.3	28.7	6.14	33.3	29.3	6.17	33.4	29.7	6.19	33.4	
	35	80	22.9	6.51	40.3	24.8	7.18	40.7	25.6	7.25	40.9	25.9	7.27	41.0	26.2	7.29	41.0	26.6	7.31	41.1	26.9	7.31	41.1	
		96	22.9	6.14	39.3	25.2	6.98	39.8	26.0	7.05	39.9	26.4	7.07	40.0	26.6	7.09	40.0	27.1	7.12	40.1	27.4	7.12	40.1	
		120	22.9	5.75	38.4	25.6	6.75	38.9	26.5	6.82	39.0	26.8	6.85	39.0	27.1	6.87	39.1	27.6	6.90	39.1	27.9	6.90	39.2	
		150	22.9	5.49	37.7	25.9	6.59	38.1	26.7	6.66	38.2	27.1	6.68	38.2	27.4	6.70	38.3	27.9	6.73	38.3	28.2	6.74	38.3	
	40	80	19.8	5.66	44.6	20.5	5.72	44.7	20.9	5.74	44.8	21.0	5.75	44.8	21.1	5.74	44.8	21.1	5.71	44.8	20.8	5.64	44.7	
		96	21.2	6.20	44.1	22.0	6.28	44.2	22.5	6.32	44.3	22.7	6.33	44.3	22.9	6.33	44.4	23.0	6.32	44.4	23.0	6.28	44.4	
		120	22.5	6.64	43.5	23.3	6.72	43.6	24.0	6.78	43.7	24.3	6.80	43.7	24.5	6.81	43.7	24.8	6.82	43.8	24.9	6.80	43.8	
		150	22.9	6.57	42.8	23.8	6.65	42.9	24.5	6.71	43.0	24.7	6.73	43.0	25.0	6.74	43.0	25.3	6.75	43.1	25.4	6.74	43.1	
	45	80	14.5	3.87	48.3	14.6	3.85	48.3	14.4	3.79	48.3	14.1	3.74	48.2	13.8	3.68	48.1	12.8	3.53	47.9	11.6	3.34	47.7	
		96	15.8	4.20	48.0	16.0	4.20	48.0	16.0	4.17	48.0	15.8	4.13	48.0	15.6	4.09	47.9	14.9	3.98	47.8	14.0	3.82	47.7	
		120	17.2	4.62	47.6	17.6	4.65	47.7	17.7	4.63	47.7	17.7	4.61	47.7	17.6	4.59	47.7	17.2	4.50	47.6	16.5	4.39	47.5	
		150	18.3	5.03	47.2	18.8	5.07	47.3	19.1	5.07	47.3	19.1	5.06	47.3	19.1	5.05	47.3	18.9	4.99	47.3	18.4	4.89	47.2	
120	10	80	21.1	3.20	14.4	25.2	4.23	15.3	29.3	5.08	16.2	29.8	5.11	16.3	30.2	5.13	16.3	31.0	5.17	16.5	31.6	5.20	16.6	
		96	21.1	3.02	13.6	25.2	3.99	14.4	29.3	4.91	15.1	30.3	4.97	15.3	30.7	4.99	15.3	31.4	5.03	15.4	32.1	5.06	15.5	
		120	21.1	2.83	12.9	25.2	3.74	13.5	29.3	4.72	14.1	30.8	4.81	14.2	31.2	4.83	14.3	32.0	4.87	14.4	32.6	4.89	14.5	
		150	21.1	2.71	12.3	25.2	3.58	12.8	29.3	4.57	13.2	31.1	4.69	13.4	31.5	4.71	13.5	32.3	4.75	13.5	33.0	4.78	13.6	
	15	80	21.1	3.31	19.4	25.2	4.38	20.3	28.9	5.24	21.1	29.3	5.26	21.2	29.7	5.28	21.3	30.4	5.32	21.4	31.0	5.35	21.5	
		96	21.1	3.12	18.6	25.2	4.13	19.4	29.3	5.09	20.1	29.7	5.12	20.2	30.1	5.14	20.3	30.9	5.18	20.4	31.5	5.20	20.5	
		120	21.1	2.93	17.9	25.2	3.87	18.5	29.3	4.89	19.1	30.2	4.95	19.2	30.6	4.97	19.3	31.4	5.01	19.3	32.0	5.04	19.4	
		150	21.1	2.81	17.3	25.2	3.70	17.8	29.3	4.73	18.3	30.5	4.83	18.4	31.0	4.85	18.4	31.7	4.89	18.5	32.4	4.92	18.6	
	20	80	21.1	3.44	24.4	25.2	4.56	25.3	28.2	5.39	26.0	28.6	5.41	26.1	29.0	5.44	26.2	29.7	5.47	26.3	30.2	5.50	26.4	
		96	21.1	3.25	23.6	25.2	4.30	24.4	28.6	5.24	25.1	29.0	5.26	25.1	29.4	5.29	25.2	30.1	5.32	25.3	30.7	5.35	25.4	
		120	21.1	3.05	22.9	25.2	4.03	23.5	29.1	5.07	24.1	29.5	5.09	24.1	29.9	5.11	24.2	30.6	5.15	24.3	31.2	5.18	24.3	
		150	21.1	2.92	22.3	25.2	3.85	22.8	29.3	4.92	23.3	29.8	4.97	23.3	30.2	4.99	23.4	31.0	5.03	23.4	31.6	5.06	23.5	
	25	80	21.1	4.05	29.5	25.2	5.38	30.5	27.4	5.99	31.0	27.8	6.02	31.1	28.1	6.04	31.1	28.7	6.08	31.2	29.2	6.11	31.3	
		96	21.1	3.82	28.7	25.2	5.07	29.5	27.8	5.82	30.0	28.2	5.85	30.1	28.6	5.88	30.1	29.2	5.92	30.2	29.7	5.94	30.3	
		120	21.1	3.58	28.0	25.2	4.75	28.6	28.2	5.63	29.0	28.7	5.66	29.1	29.0	5.69	29.1	29.7	5.73	29.2	30.2	5.75	29.3	
		150	21.1	3.43	27.3	25.2	4.54	27.8	28.5	5.50	28.3	28.9	5.52	28.3	29.3	5.55	28.3	30.0	5.59	28.4	30.6	5.62	28.5	
	30	80	21.1	4.79	34.6	25.2	6.38	35.7	26.4	6.60	35.9	26.7	6.63	36.0	27.1	6.65	36.0	27.7	6.69	36.2	28.1	6.71	36.2	
		96	21.1	4.52	33.8	25.2	6.01	34.7	26.8	6.41	35.0	27.2	6.44	35.0	27.5	6.47	35.1	28.1	6.51	35.2	28.6	6.53	35.2	
		120	21.1	4.24	33.0	25.2	5.63	33.7	27.2	6.21	34.0	27.6	6.24	34.0	28.0	6.26	34.1	28.6	6.30	34.2	29.1	6.33	34.2	
		150	21.1	4.05	32.4	25.2	5.38	32.9	27.5	6.06	33.2	27.9	6.09	33.2	28.3	6.11	33.3	28.9	6.15	33.3	29.4	6.18	33.4	
	35	80	21.1	5.71	39.8	24.4	7.13	40.7	25.2	7.21	40.8	25.6	7.24	40.9	25.9	7.27	40.9	26.4	7.30	41.0	26.7	7.31	41.1	
		96	21.1	5.39	39.0	24.8	6.94	39.7	25.6	7.01	39.9	26.0	7.04	39.9	26.3	7.07	40.0	26.8	7.10	40.1	27.2	7.12	40.1	
		120	21.1	5.05	38.1	25.2	6.71	38.8	26.0	6.78	38.9	26.4	6.81	39.0	26.7	6.84	39.0	27.3	6.88	39.1	27.7	6.90	39.1	
		150	21.1	4.83	37.5	25.2	6.43	38.0	26.3	6.62	38.1	26.7	6.65	38.2	27.0	6.68	38.2	27.6	6.71	38.3	28.0	6.74	38.3	
	40	80	19.5	5.63	44.5	20.2	5.70	44.6	20.7	5.73	44.7	20.9	5.74	44.8	20.5	5.72	44.7	20.9	5.74	44.8	21.1	5.75	44.8	
		96	20.8	6.17	44.0	21.6	6.25	44.2	22.2	6.30	44.3	22.5	6.32	44.3	22.0	6.28	44.2	22.5	6.32	44.3	22.8	6.33	44.3	
		120	21.1	6.05	43.2	23.0	6.69	43.5	23.7	6.75	43.6	24.0	6.78	43.7	23.4	6.73	43.6	23.9	6.78	43.7	24.4	6.81	43.7	
		150	21.1	5.79	42.6	23.3	6.61	42.9	24.1	6.68	42.9	24.4	6.70	43.0	23.8	6.66	42.9	24.4	6.70	43.0	24.8	6.73	43.0	
	45	80	14.4	3.86	48.3	14.6	3.86	48.3	14.5	3.83	48.3	14.4	3.79	48.3	14.6	3.84	48.3	14.4	3.80	48.3	14.0	3.72	48.2	
		96	15.6	4.19	48.0	15.9	4.21	48.0	16.0	4.19	48.0	16.0	4.17	48.0	16.0	4.20	48.0	16.0	4.17	48.0	15.8	4.12	48.0	
		120	16.9	4.60	47.6	17.4	4.64	47.6	17.7	4.64	47.7	17.7	4.64	47.7	17.6	4.65	47.7	17.7	4.64	47.7	17.7	4.61	47.7	
		150	18.0	5.01	47.2	18.6	5.06	47.3	19.0	5.08	47.3	19.1	5.08	47.3	18.8	5.07	47.3	19.1	5.08	47.3	19.1	5.06	47.3	

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	80	19.4	2.79	14.0	23.1	3.68	14.8	26.8	4.69	15.6	28.7	5.04	16.0	29.7	5.10	16.2	30.4	5.14	16.4	31.1	5.18	16.5
		96	19.4	2.64	13.3	23.1	3.47	14.0	26.8	4.42	14.7	28.7	4.87	15.0	30.1	4.96	15.2	30.9	5.00	15.4	31.5	5.03	15.5
		120	19.4	2.48	12.6	23.1	3.26	13.1	26.8	4.14	13.7	28.7	4.63	14.0	30.6	4.80	14.2	31.4	4.84	14.3	32.1	4.87	14.4
		150	19.4	2.37	12.1	23.1	3.12	12.5	26.8	3.96	12.9	28.7	4.42	13.2	30.6	4.66	13.4	31.7	4.72	13.5	32.4	4.76	13.6
	15	80	19.4	2.89	19.0	23.1	3.81	19.8	26.8	4.86	20.7	28.7	5.23	21.1	29.1	5.25	21.2	29.9	5.29	21.3	30.5	5.33	21.4
		96	19.4	2.73	18.3	23.1	3.60	19.0	26.8	4.58	19.7	28.7	5.05	20.0	29.6	5.11	20.2	30.3	5.15	20.3	31.0	5.18	20.4
		120	19.4	2.57	17.6	23.1	3.37	18.2	26.8	4.29	18.7	28.7	4.79	19.0	30.1	4.94	19.2	30.8	4.98	19.3	31.5	5.01	19.4
		150	19.4	2.46	17.1	23.1	3.23	17.5	26.8	4.10	18.0	28.7	4.58	18.2	30.4	4.82	18.4	31.1	4.86	18.4	31.8	4.89	18.5
	20	80	19.4	3.00	24.0	23.1	3.96	24.8	26.8	5.05	25.7	28.1	5.38	26.0	28.5	5.40	26.1	29.2	5.45	26.2	29.7	5.48	26.3
		96	19.4	2.84	23.3	23.1	3.74	24.0	26.8	4.76	24.7	28.5	5.23	25.0	28.9	5.25	25.1	29.6	5.30	25.2	30.2	5.33	25.3
		120	19.4	2.67	22.6	23.1	3.50	23.2	26.8	4.46	23.7	28.7	4.98	24.0	29.4	5.08	24.1	30.1	5.12	24.2	30.7	5.16	24.3
		150	19.4	2.55	22.1	23.1	3.35	22.5	26.8	4.26	23.0	28.7	4.76	23.2	29.7	4.96	23.3	30.4	5.00	23.4	31.1	5.03	23.4
	25	80	19.4	3.53	29.1	23.1	4.67	30.0	26.8	5.95	30.9	27.2	5.98	31.0	27.6	6.01	31.0	28.3	6.05	31.2	28.8	6.09	31.3
		96	19.4	3.34	28.4	23.1	4.40	29.1	26.8	5.62	29.8	27.7	5.81	30.0	28.0	5.84	30.1	28.7	5.89	30.2	29.3	5.92	30.3
		120	19.4	3.13	27.7	23.1	4.13	28.3	26.8	5.26	28.8	28.1	5.63	29.0	28.5	5.65	29.1	29.2	5.70	29.2	29.8	5.73	29.2
		150	19.4	3.00	27.1	23.1	3.95	27.6	26.8	5.03	28.0	28.4	5.49	28.2	28.8	5.52	28.3	29.5	5.56	28.4	30.1	5.59	28.4
	30	80	19.4	4.17	34.2	23.1	5.53	35.1	25.9	6.56	35.8	26.3	6.59	35.9	26.6	6.62	36.0	27.2	6.66	36.1	27.7	6.70	36.2
		96	19.4	3.94	33.5	23.1	5.21	34.2	26.3	6.37	34.9	26.7	6.41	34.9	27.0	6.43	35.0	27.7	6.48	35.1	28.2	6.51	35.2
		120	19.4	3.70	32.8	23.1	4.88	33.3	26.7	6.17	33.9	27.1	6.20	34.0	27.5	6.23	34.0	28.1	6.27	34.1	28.7	6.31	34.2
		150	19.4	3.54	32.2	23.1	4.67	32.7	26.8	5.97	33.1	27.4	6.05	33.2	27.8	6.08	33.2	28.4	6.12	33.3	29.0	6.16	33.4
	35	80	19.4	4.97	39.4	23.1	6.60	40.3	24.8	7.17	40.7	25.1	7.20	40.8	25.4	7.23	40.9	26.0	7.28	41.0	26.4	7.30	41.0
		96	19.4	4.69	38.6	23.1	6.23	39.4	25.1	6.97	39.8	25.5	7.00	39.9	25.8	7.03	39.9	26.4	7.08	40.0	26.9	7.11	40.1
		120	19.4	4.40	37.8	23.1	5.83	38.5	25.5	6.74	38.9	25.9	6.78	38.9	26.3	6.80	39.0	26.9	6.85	39.0	27.3	6.88	39.1
		150	19.4	4.21	37.3	23.1	5.58	37.7	25.8	6.58	38.1	26.2	6.61	38.1	26.5	6.64	38.2	27.2	6.69	38.2	27.6	6.72	38.3
	40	80	19.1	5.59	44.4	19.8	5.67	44.6	20.4	5.71	44.7	20.6	5.73	44.7	20.8	5.74	44.8	21.1	5.75	44.8	21.1	5.73	44.8
		96	19.4	5.53	43.7	21.2	6.21	44.1	21.9	6.27	44.2	22.2	6.29	44.2	22.4	6.31	44.3	22.8	6.33	44.3	23.0	6.33	44.4
		120	19.4	5.25	42.9	22.5	6.65	43.5	23.3	6.72	43.6	23.6	6.75	43.6	23.9	6.77	43.7	24.3	6.80	43.7	24.6	6.82	43.8
		150	19.4	5.02	42.3	22.9	6.57	42.8	23.7	6.64	42.9	24.0	6.67	42.9	24.3	6.70	43.0	24.8	6.73	43.0	25.1	6.75	43.0
	45	80	14.2	3.85	48.2	14.5	3.87	48.3	14.6	3.85	48.3	14.6	3.83	48.3	14.5	3.81	48.3	14.1	3.73	48.2	13.4	3.62	48.1
		96	15.3	4.17	47.9	15.8	4.20	48.0	16.0	4.20	48.0	16.0	4.20	48.0	16.0	4.18	48.0	15.8	4.13	48.0	15.4	4.05	47.9
		120	16.6	4.58	47.5	17.2	4.63	47.6	17.6	4.64	47.7	17.7	4.65	47.7	17.7	4.64	47.7	17.7	4.61	47.7	17.5	4.55	47.6
		150	17.7	4.98	47.2	18.3	5.03	47.2	18.8	5.07	47.3	18.9	5.07	47.3	19.0	5.08	47.3	19.1	5.06	47.3	19.0	5.02	47.3
100	10	80	17.6	2.42	13.6	21.0	3.17	14.3	24.4	4.01	15.1	26.1	4.48	15.5	27.8	4.97	15.9	29.8	5.11	16.3	30.5	5.15	16.4
		96	17.6	2.29	13.0	21.0	2.99	13.6	24.4	3.79	14.2	26.1	4.22	14.5	27.8	4.68	14.8	30.2	4.97	15.3	30.9	5.00	15.4
		120	17.6	2.15	12.4	21.0	2.81	12.8	24.4	3.55	13.3	26.1	3.96	13.6	27.8	4.39	13.8	30.7	4.81	14.2	31.4	4.84	14.3
		150	17.6	2.06	11.9	21.0	2.69	12.3	24.4	3.40	12.7	26.1	3.78	12.9	27.8	4.19	13.1	31.1	4.69	13.4	31.8	4.73	13.5
	15	80	17.6	2.50	18.6	21.0	3.28	19.4	24.4	4.16	20.1	26.1	4.64	20.5	27.8	5.14	20.9	29.3	5.26	21.2	29.9	5.30	21.3
		96	17.6	2.37	18.0	21.0	3.10	18.6	24.4	3.92	19.2	26.1	4.37	19.5	27.8	4.85	19.9	29.7	5.11	20.2	30.4	5.15	20.3
		120	17.6	2.23	17.4	21.0	2.90	17.9	24.4	3.68	18.4	26.1	4.10	18.6	27.8	4.54	18.9	30.2	4.95	19.2	30.9	4.98	19.3
		150	17.6	2.13	16.9	21.0	2.78	17.3	24.4	3.52	17.7	26.1	3.92	17.9	27.8	4.34	18.1	30.5	4.83	18.4	31.2	4.86	18.4
	20	80	17.6	2.60	23.6	21.0	3.40	24.4	24.4	4.32	25.1	26.1	4.82	25.5	27.8	5.35	25.9	28.6	5.41	26.1	29.2	5.45	26.2
		96	17.6	2.46	23.0	21.0	3.22	23.6	24.4	4.08	24.3	26.1	4.55	24.6	27.8	5.04	24.9	29.0	5.26	25.1	29.7	5.30	25.2
		120	17.6	2.31	22.4	21.0	3.02	22.9	24.4	3.82	23.4	26.1	4.26	23.6	27.8	4.72	23.9	29.5	5.09	24.1	30.2	5.13	24.2
		150	17.6	2.22	21.9	21.0	2.89	22.3	24.4	3.65	22.7	26.1	4.07	22.9	27.8	4.51	23.1	29.8	4.97	23.3	30.5	5.00	23.4
	25	80	17.6	3.05	28.7	21.0	4.01	29.5	24.4	5.10	30.3	26.1	5.69	30.7	27.0	5.97	30.9	27.7	6.02	31.0	28.3	6.06	31.2
		96	17.6	2.89	28.1	21.0	3.78	28.7	24.4	4.81	29.4	26.1	5.37	29.7	27.5	5.80	30.0	28.2	5.85	30.1	28.8	5.89	30.2
		120	17.6	2.71	27.4	21.0	3.55	27.9	24.4	4.50	28.5	26.1	5.03	28.7	27.8	5.58	29.0	28.6	5.66	29.1	29.3	5.70	29.2
		150	17.6	2.60	26.9	21.0	3.40	27.3	24.4	4.31	27.7	26.1	4.81	28.0	27.8	5.33	28.2	28.9	5.52	28.3	29.6	5.56	28.4
	30	80	17.6	3.60	33.8	21.0	4.74	34.6	24.4	6.04	35.5	25.7	6.54	35.8	26.1	6.57	35.8	26.7	6.62	36.0	27.3	6.67	36.1
		96	17.6	3.40	33.1	21.0	4.47	33.8	24.4	5.70	34.5	26.1	6.35	34.8	26.5	6.39	34.9	27.1	6.44	35.0	27.7	6.48	35.1
		120	17.6	3.19	32.5	21.0	4.19	33.0	24.4	5.34	33.6	26.1	5.96	33.8	26.9	6.18	34.0	27.6	6.23	34.0	28.2	6.28	34.1
		150	17.6	3.06	32.0	21.0	4.01	32.4	24.4	5.10	32.8	26.1	5.70	33.0	27.2	6.03	33.2	27.9	6.08	33.2	28.5	6.12	33.3
	35	80	17.6	4.28	38.9	21.0	5.65	39.8	24.2	7.12	40.6	24.6	7.15	40.7	24.9	7.18	40.8	25.5	7.24	40.9	26.0	7.28	41.0
		96	17.6	4.04	38.2	21.0	5.33	38.9	24.4	6.81	39.7	25.0	6.95	39.8	25.3	6.99	39.8	25.9	7.04	39.9	26.5	7.08	40.0
		120	17.6	3.79	37.6	21.0	5.00	38.1	24.4	6.38	38.7	25.4	6.73	38.8	25.7	6.76	38.9	26.4	6.81	39.0	26.9	6.85	39.0
		150	17.6	3.63	37.0	21.0	4.78	37.5	24.4	6.10	37.9	25.6	6.57	38.1	26.0	6.60	38.1	26.7	6.65	38.2	27.2	6.69	38.2
	40	80	17.6	4.94	44.0	19.4	5.63	44.5	20.0	5.68	44.6	20.3	5.71	44.7	20.5	5.72	44.7	20.9	5.74	44.8	21.1	5.75	44.8
		96	17.6	4.73	43.3	20.8	6.17	44.0	21.5	6.23	44.1	21.8	6.26	44.2	22.0	6.28	44.2	22.5	6.32	44.3	22.8	6.33	44.3
		120	17.6	4.51	42.6	21.0	5.99	43.2	22.8	6.67	43.5	23.1	6.70	43.6	23.4	6.73	43.6	23.9	6.78	43.7	24.4	6.81	43.7
		150	17.6	4.32	42.1	21.0	5.73	42.6	23.2	6.60	42.8	23.5	6.63	42.9	23.8	6.66	42.9	24.4	6.70	43.0	24.8	6.73	43.0
	45	80	14.0	3.84	48.2	14.4	3.86	48.3	14.6	3.87	48.3	14.6	3.86	48.3	14.6	3.84	48.3	14.4	3.80	48.3	14.0	3.72	48.2
		96	15.1	4.15	47.9	15.6	4.19	47.9	15.9	4.21	48.0	16.0	4.21	48.0	16.0	4.20	48.0	16.0	4.17	48.0	15.8	4.12	48.0
		120	16.3	4.55	47.5	16.9	4.60	47.6	17.3	4.63	47.6	17.5	4.64	47.6	17.6	4.65	47.7	17.7	4.64	47.7	17.7	4.61	47.7
		150	17.3	4.94	47.1	18.0	5.01	47.2	18.5	5.05	47.2	18.7	5.06	47.3	18.8	5.07	47.3	19.1	5.08	47.3	19.1	5.06	47.3

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	80	15.9	2.07	13.2	18.9	2.69	13.9	22.0	3.39	14.5	23.5	3.78	14.9	25.0	4.18	15.2	28.1	5.00	15.9	29.8	5.11	16.3
		96	15.9	1.96	12.7	18.9	2.55	13.2	22.0	3.20	13.8	23.5	3.56	14.0	25.0	3.94	14.3	28.1	4.76	14.9	30.2	4.97	15.3
		120	15.9	1.85	12.1	18.9	2.39	12.5	22.0	3.01	13.0	23.5	3.34	13.2	25.0	3.69	13.4	28.1	4.46	13.9	30.7	4.81	14.2
		150	15.9	1.77	11.7	18.9	2.29	12.0	22.0	2.88	12.4	23.5	3.20	12.6	25.0	3.53	12.7	28.1	4.26	13.1	31.0	4.69	13.4
	15	80	15.9	2.15	18.2	18.9	2.79	18.9	22.0	3.51	19.6	23.5	3.91	19.9	25.0	4.33	20.3	28.1	5.18	21.0	29.2	5.26	21.2
		96	15.9	2.03	17.7	18.9	2.63	18.2	22.0	3.32	18.8	23.5	3.69	19.1	25.0	4.08	19.3	28.1	4.93	19.9	29.7	5.11	20.2
		120	15.9	1.91	17.1	18.9	2.47	17.6	22.0	3.11	18.0	23.5	3.46	18.2	25.0	3.83	18.4	28.1	4.62	18.9	30.2	4.95	19.2
		150	15.9	1.83	16.7	18.9	2.37	17.0	22.0	2.98	17.4	23.5	3.31	17.6	25.0	3.66	17.7	28.1	4.41	18.1	30.5	4.83	18.4
	20	80	15.9	2.23	23.2	18.9	2.89	23.9	22.0	3.65	24.6	23.5	4.06	24.9	25.0	4.50	25.3	27.9	5.37	26.0	28.6	5.41	26.1
		96	15.9	2.11	22.7	18.9	2.74	23.2	22.0	3.45	23.8	23.5	3.83	24.1	25.0	4.24	24.4	28.1	5.13	25.0	29.0	5.26	25.1
		120	15.9	1.98	22.1	18.9	2.57	22.6	22.0	3.23	23.0	23.5	3.59	23.2	25.0	3.98	23.5	28.1	4.80	23.9	29.5	5.09	24.1
		150	15.9	1.90	21.7	18.9	2.46	22.0	22.0	3.09	22.4	23.5	3.44	22.6	25.0	3.80	22.8	28.1	4.59	23.1	29.8	4.97	23.3
	25	80	15.9	2.61	28.3	18.9	3.40	29.0	22.0	4.30	29.7	23.5	4.79	30.1	25.0	5.31	30.4	27.1	5.97	30.9	27.7	6.01	31.0
		96	15.9	2.47	27.7	18.9	3.21	28.3	22.0	4.06	28.9	23.5	4.52	29.2	25.0	5.01	29.5	27.5	5.80	30.0	28.1	5.85	30.1
		120	15.9	2.32	27.2	18.9	3.02	27.6	22.0	3.81	28.1	23.5	4.24	28.3	25.0	4.69	28.5	28.0	5.62	29.0	28.6	5.66	29.1
		150	15.9	2.23	26.7	18.9	2.89	27.1	22.0	3.64	27.4	23.5	4.05	27.6	25.0	4.48	27.8	28.1	5.42	28.2	28.9	5.52	28.3
	30	80	15.9	3.07	33.4	18.9	4.01	34.1	22.0	5.09	34.8	23.5	5.68	35.2	25.0	6.30	35.6	26.1	6.58	35.9	26.7	6.62	36.0
		96	15.9	2.91	32.8	18.9	3.79	33.4	22.0	4.80	34.0	23.5	5.35	34.3	25.0	5.94	34.6	26.5	6.39	34.9	27.1	6.44	35.0
		120	15.9	2.73	32.2	18.9	3.56	32.7	22.0	4.50	33.2	23.5	5.01	33.4	25.0	5.56	33.7	27.0	6.19	34.0	27.6	6.23	34.0
		150	15.9	2.62	31.8	18.9	3.41	32.1	22.0	4.31	32.5	23.5	4.80	32.7	25.0	5.31	32.9	27.2	6.04	33.2	27.9	6.08	33.2
	35	80	15.9	3.64	38.5	18.9	4.78	39.2	22.0	6.07	40.0	23.5	6.78	40.4	24.4	7.13	40.6	25.0	7.19	40.8	25.5	7.24	40.9
		96	15.9	3.44	37.9	18.9	4.51	38.5	22.0	5.73	39.1	23.5	6.40	39.5	24.7	6.93	39.7	25.4	6.99	39.8	25.9	7.04	39.9
		120	15.9	3.23	37.3	18.9	4.23	37.8	22.0	5.37	38.3	23.5	5.99	38.5	25.0	6.65	38.8	25.8	6.76	38.9	26.4	6.81	39.0
		150	15.9	3.10	36.8	18.9	4.05	37.2	22.0	5.13	37.6	23.5	5.73	37.8	25.0	6.35	38.0	26.1	6.60	38.1	26.6	6.65	38.2
	40	80	15.9	4.16	43.6	18.9	5.55	44.4	19.6	5.65	44.5	19.9	5.67	44.6	20.1	5.69	44.6	20.6	5.72	44.7	20.9	5.74	44.8
		96	15.9	4.00	43.0	18.9	5.31	43.6	21.0	6.19	44.1	21.3	6.22	44.1	21.6	6.24	44.2	22.1	6.29	44.2	22.5	6.32	44.3
		120	15.9	3.83	42.4	18.9	5.05	42.9	22.0	6.45	43.4	22.6	6.65	43.5	22.9	6.68	43.5	23.5	6.74	43.6	23.9	6.78	43.7
		150	15.9	3.67	41.9	18.9	4.83	42.3	22.0	6.16	42.7	23.0	6.58	42.8	23.3	6.61	42.9	23.9	6.66	42.9	24.4	6.70	43.0
	45	80	13.7	3.81	48.1	14.2	3.85	48.2	14.5	3.87	48.3	14.6	3.87	48.3	14.6	3.86	48.3	14.6	3.84	48.3	14.4	3.80	48.3
		96	14.7	4.12	47.8	15.3	4.17	47.9	15.7	4.20	48.0	15.8	4.20	48.0	15.9	4.21	48.0	16.0	4.20	48.0	16.0	4.17	48.0
		120	15.9	4.48	47.4	16.6	4.57	47.5	17.0	4.61	47.6	17.2	4.63	47.6	17.4	4.64	47.6	17.6	4.65	47.7	17.7	4.64	47.7
		150	15.9	4.32	46.9	17.6	4.97	47.2	18.1	5.02	47.2	18.4	5.04	47.2	18.6	5.05	47.3	18.9	5.07	47.3	19.1	5.08	47.3
80	10	80	14.1	1.76	12.8	16.8	2.26	13.4	19.5	2.83	14.0	20.9	3.13	14.3	22.2	3.46	14.6	25.0	4.16	15.2	27.7	4.93	15.8
		96	14.1	1.67	12.4	16.8	2.14	12.8	19.5	2.67	13.3	20.9	2.96	13.6	22.2	3.27	13.8	25.0	3.93	14.3	27.7	4.65	14.8
		120	14.1	1.57	11.9	16.8	2.01	12.2	19.5	2.51	12.6	20.9	2.78	12.8	22.2	3.06	13.0	25.0	3.68	13.4	27.7	4.35	13.8
		150	14.1	1.51	11.5	16.8	1.93	11.8	19.5	2.40	12.1	20.9	2.66	12.2	22.2	2.93	12.4	25.0	3.52	12.7	27.7	4.16	13.0
	15	80	14.1	1.82	17.9	16.8	2.34	18.4	19.5	2.93	19.0	20.9	3.25	19.3	22.2	3.58	19.6	25.0	4.31	20.2	27.7	5.11	20.9
		96	14.1	1.72	17.4	16.8	2.21	17.8	19.5	2.76	18.3	20.9	3.07	18.6	22.2	3.38	18.8	25.0	4.07	19.3	27.7	4.81	19.8
		120	14.1	1.62	16.9	16.8	2.08	17.3	19.5	2.60	17.6	20.9	2.88	17.8	22.2	3.17	18.0	25.0	3.81	18.4	27.7	4.51	18.8
		150	14.1	1.56	16.5	16.8	1.99	16.8	19.5	2.49	17.1	20.9	2.75	17.3	22.2	3.04	17.4	25.0	3.64	17.7	27.7	4.31	18.1
	20	80	14.1	1.89	22.9	16.8	2.43	23.4	19.5	3.04	24.0	20.9	3.37	24.3	22.2	3.72	24.7	25.0	4.48	25.3	27.7	5.31	25.9
		96	14.1	1.79	22.4	16.8	2.30	22.9	19.5	2.87	23.3	20.9	3.19	23.6	22.2	3.52	23.8	25.0	4.23	24.4	27.7	5.00	24.9
		120	14.1	1.68	21.9	16.8	2.16	22.3	19.5	2.70	22.7	20.9	2.99	22.9	22.2	3.30	23.0	25.0	3.96	23.5	27.7	4.69	23.9
		150	14.1	1.62	21.5	16.8	2.07	21.8	19.5	2.58	22.1	20.9	2.86	22.3	22.2	3.15	22.4	25.0	3.79	22.7	27.7	4.48	23.1
	25	80	14.1	2.21	27.9	16.8	2.85	28.5	19.5	3.57	29.1	20.9	3.97	29.5	22.2	4.39	29.8	25.0	5.29	30.4	27.0	5.96	30.9
		96	14.1	2.09	27.4	16.8	2.69	27.9	19.5	3.38	28.4	20.9	3.75	28.7	22.2	4.14	28.9	25.0	4.99	29.5	27.4	5.80	30.0
		120	14.1	1.97	26.9	16.8	2.53	27.3	19.5	3.17	27.7	20.9	3.52	27.9	22.2	3.88	28.1	25.0	4.67	28.5	27.7	5.53	29.0
		150	14.1	1.89	26.5	16.8	2.43	26.8	19.5	3.03	27.2	20.9	3.36	27.3	22.2	3.71	27.5	25.0	4.47	27.8	27.7	5.29	28.1
	30	80	14.1	2.59	33.0	16.8	3.35	33.6	19.5	4.22	34.3	20.9	4.69	34.6	22.2	5.19	34.9	25.0	6.27	35.6	26.1	6.57	35.8
		96	14.1	2.45	32.5	16.8	3.17	33.0	19.5	3.99	33.5	20.9	4.43	33.8	22.2	4.90	34.1	25.0	5.91	34.6	26.4	6.39	34.9
		120	14.1	2.31	32.0	16.8	2.98	32.4	19.5	3.74	32.8	20.9	4.15	33.0	22.2	4.59	33.2	25.0	5.53	33.6	26.9	6.18	33.9
		150	14.1	2.21	31.6	16.8	2.85	31.9	19.5	3.58	32.2	20.9	3.97	32.4	22.2	4.39	32.5	25.0	5.29	32.9	27.2	6.03	33.2
	35	80	14.1	3.06	38.1	16.8	3.98	38.7	19.5	5.03	39.4	20.9	5.60	39.7	22.2	6.20	40.1	24.4	7.13	40.6	24.9	7.18	40.8
		96	14.1	2.90	37.5	16.8	3.76	38.1	19.5	4.74	38.6	20.9	5.28	38.9	22.2	5.85	39.2	24.7	6.93	39.7	25.3	6.98	39.8
		120	14.1	2.72	37.0	16.8	3.53	37.4	19.5	4.45	37.9	20.9	4.95	38.1	22.2	5.48	38.3	25.0	6.62	38.8	25.7	6.76	38.9
		150	14.1	2.61	36.6	16.8	3.38	36.9	19.5	4.26	37.3	20.9	4.73	37.4	22.2	5.24	37.6	25.0	6.33	38.0	26.0	6.59	38.1
	40	80	14.1	3.46	43.1	16.8	4.57	43.8	19.1	5.60	44.4	19.4	5.63	44.5	19.7	5.65	44.5	20.1	5.69	44.6	20.5	5.72	44.7
		96	14.1	3.34	42.6	16.8	4.39	43.2	19.5	5.59	43.7	20.8	6.16	44.0	21.0	6.19	44.1	21.6	6.24	44.2	22.0	6.28	44.2
		120	14.1	3.20	42.1	16.8	4.19	42.5	19.5	5.32	43.0	20.9	5.93	43.2	22.2	6.58	43.4	22.9	6.68	43.5	23.4	6.73	43.6
		150	14.1	3.07	41.6	16.8	4.01	42.0	19.5	5.08	42.4	20.9	5.67	42.5	22.2	6.29	42.7	23.3	6.61	42.9	23.8	6.65	42.9
	45	80	13.3	3.78	48.1	13.9	3.83	48.2	14.2	3.85	48.2	14.4	3.86	48.3	14.5	3.87	48.3	14.6	3.86	48.3	14.6	3.84	48.3
		96	14.1	3.94	47.7	14.9	4.14	47.8	15.4	4.17	47.9	15.5	4.19	47.9	15.7	4.20	48.0	15.9	4.21	48.0	16.0	4.20	48.0
		120	14.1	3.69	47.1	16.1	4.53	47.5	16.7	4.58	47.5	16.9	4.60	47.6	17.1	4.62	47.6	17.4	4.64	47.6	17.6	4.65	47.7
		150	14.1	3.57	46.7	16.8	4.76	47.1	17.7	4.98	47.2	17.9	5.00	47.2	18.2	5.02	47.2	18.5	5.05	47.3	18.8	5.07	47.3

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	80	12.3	1.47	12.5	14.7	1.86	13.0	17.1	2.31	13.5	18.3	2.56	13.7	19.5	2.81	14.0	21.8	3.36	14.5	24.2	3.96	15.0
		96	12.3	1.39	12.0	14.7	1.77	12.5	17.1	2.19	12.9	18.3	2.42	13.1	19.5	2.66	13.3	21.8	3.18	13.7	24.2	3.74	14.2
		120	12.3	1.31	11.6	14.7	1.66	12.0	17.1	2.06	12.3	18.3	2.27	12.5	19.5	2.50	12.6	21.8	2.98	13.0	24.2	3.51	13.3
		150	12.3	1.26	11.3	14.7	1.60	11.6	17.1	1.97	11.8	18.3	2.18	12.0	19.5	2.39	12.1	21.8	2.85	12.4	24.2	3.35	12.6
	15	80	12.3	1.52	17.5	14.7	1.93	18.0	17.1	2.39	18.5	18.3	2.65	18.7	19.5	2.91	19.0	21.8	3.48	19.5	24.2	4.10	20.1
		96	12.3	1.44	17.1	14.7	1.83	17.5	17.1	2.26	17.9	18.3	2.50	18.1	19.5	2.75	18.3	21.8	3.29	18.8	24.2	3.87	19.2
		120	12.3	1.36	16.6	14.7	1.72	17.0	17.1	2.13	17.3	18.3	2.35	17.5	19.5	2.58	17.6	21.8	3.08	18.0	24.2	3.63	18.3
		150	12.3	1.31	16.3	14.7	1.65	16.6	17.1	2.04	16.8	18.3	2.25	17.0	19.5	2.47	17.1	21.8	2.95	17.4	24.2	3.47	17.6
	20	80	12.3	1.58	22.5	14.7	2.00	23.0	17.1	2.49	23.5	18.3	2.75	23.8	19.5	3.02	24.0	21.8	3.62	24.6	24.2	4.27	25.1
		96	12.3	1.50	22.1	14.7	1.90	22.5	17.1	2.35	22.9	18.3	2.60	23.1	19.5	2.86	23.3	21.8	3.42	23.8	24.2	4.02	24.2
		120	12.3	1.41	21.6	14.7	1.79	22.0	17.1	2.21	22.3	18.3	2.44	22.5	19.5	2.68	22.6	21.8	3.20	23.0	24.2	3.77	23.3
		150	12.3	1.35	21.3	14.7	1.71	21.6	17.1	2.12	21.8	18.3	2.34	22.0	19.5	2.57	22.1	21.8	3.07	22.4	24.2	3.61	22.7
	25	80	12.3	1.84	27.5	14.7	2.34	28.1	17.1	2.92	28.6	18.3	3.23	28.9	19.5	3.55	29.1	21.8	4.26	29.7	24.2	5.03	30.2
		96	12.3	1.74	27.1	14.7	2.22	27.5	17.1	2.76	28.0	18.3	3.05	28.2	19.5	3.36	28.4	21.8	4.02	28.9	24.2	4.75	29.3
		120	12.3	1.64	26.7	14.7	2.09	27.0	17.1	2.59	27.3	18.3	2.86	27.5	19.5	3.15	27.7	21.8	3.77	28.1	24.2	4.45	28.4
		150	12.3	1.58	26.3	14.7	2.00	26.6	17.1	2.48	26.9	18.3	2.74	27.0	19.5	3.02	27.1	21.8	3.61	27.4	24.2	4.25	27.7
	30	80	12.3	2.15	32.6	14.7	2.75	33.1	17.1	3.43	33.7	18.3	3.81	34.0	19.5	4.20	34.2	21.8	5.04	34.8	24.2	5.96	35.4
		96	12.3	2.04	32.1	14.7	2.61	32.6	17.1	3.25	33.0	18.3	3.60	33.3	19.5	3.97	33.5	21.8	4.76	34.0	24.2	5.62	34.5
		120	12.3	1.92	31.7	14.7	2.45	32.0	17.1	3.05	32.4	18.3	3.38	32.6	19.5	3.72	32.8	21.8	4.46	33.1	24.2	5.27	33.5
		150	12.3	1.84	31.4	14.7	2.35	31.6	17.1	2.92	31.9	18.3	3.23	32.1	19.5	3.56	32.2	21.8	4.27	32.5	24.2	5.04	32.8
	35	80	12.3	2.53	37.7	14.7	3.26	38.2	17.1	4.08	38.8	18.3	4.53	39.1	19.5	5.00	39.4	21.8	6.02	40.0	24.2	7.11	40.6
		96	12.3	2.40	37.2	14.7	3.08	37.7	17.1	3.85	38.1	18.3	4.28	38.4	19.5	4.72	38.6	21.8	5.68	39.1	24.2	6.72	39.6
		120	12.3	2.26	36.7	14.7	2.90	37.1	17.1	3.62	37.5	18.3	4.01	37.7	19.5	4.43	37.9	21.8	5.32	38.2	24.2	6.29	38.6
		150	12.3	2.17	36.4	14.7	2.78	36.7	17.1	3.46	37.0	18.3	3.84	37.1	19.5	4.24	37.3	21.8	5.09	37.6	24.2	6.02	37.9
	40	80	12.3	2.82	42.7	14.7	3.69	43.3	17.1	4.70	43.9	18.3	5.24	44.2	19.1	5.60	44.4	19.6	5.64	44.5	20.0	5.68	44.6
		96	12.3	2.73	42.2	14.7	3.56	42.7	17.1	4.51	43.2	18.3	5.02	43.5	19.5	5.56	43.7	21.0	6.18	44.1	21.4	6.23	44.1
		120	12.3	2.64	41.8	14.7	3.41	42.2	17.1	4.30	42.6	18.3	4.78	42.8	19.5	5.29	43.0	21.8	6.39	43.4	22.8	6.67	43.5
		150	12.3	2.53	41.4	14.7	3.27	41.7	17.1	4.11	42.0	18.3	4.57	42.2	19.5	5.06	42.3	21.8	6.10	42.7	23.1	6.59	42.8
	45	80	12.3	3.39	47.8	13.5	3.79	48.1	13.9	3.83	48.2	14.1	3.84	48.2	14.2	3.85	48.2	14.4	3.87	48.3	14.6	3.87	48.3
		96	12.3	3.17	47.3	14.5	4.10	47.8	15.0	4.14	47.9	15.2	4.16	47.9	15.4	4.17	47.9	15.7	4.20	48.0	15.9	4.21	48.0
		120	12.3	2.98	46.8	14.7	3.96	47.2	16.2	4.54	47.5	16.4	4.56	47.5	16.6	4.58	47.5	17.0	4.61	47.6	17.3	4.63	47.6
		150	12.3	2.90	46.5	14.7	3.83	46.8	17.1	4.89	47.1	17.4	4.96	47.1	17.7	4.98	47.2	18.1	5.02	47.2	18.5	5.05	47.2
60	10	80	10.6	1.21	12.1	12.6	1.51	12.5	14.6	1.85	13.0	15.7	2.04	13.2	16.7	2.23	13.4	18.7	2.65	13.8	20.8	3.10	14.3
		96	10.6	1.15	11.7	12.6	1.43	12.1	14.6	1.76	12.4	15.7	1.93	12.6	16.7	2.11	12.8	18.7	2.51	13.2	20.8	2.93	13.5
		120	10.6	1.08	11.4	12.6	1.35	11.7	14.6	1.65	11.9	15.7	1.82	12.1	16.7	1.99	12.2	18.7	2.35	12.5	20.8	2.75	12.8
		150	10.6	1.04	11.1	12.6	1.30	11.3	14.6	1.59	11.6	15.7	1.74	11.7	16.7	1.90	11.8	18.7	2.25	12.0	20.8	2.64	12.2
	15	80	10.6	1.25	17.1	12.6	1.56	17.5	14.6	1.92	18.0	15.7	2.11	18.2	16.7	2.31	18.4	18.7	2.74	18.8	20.8	3.21	19.3
		96	10.6	1.19	16.8	12.6	1.48	17.1	14.6	1.82	17.5	15.7	2.00	17.6	16.7	2.19	17.8	18.7	2.59	18.2	20.8	3.04	18.6
		120	10.6	1.12	16.4	12.6	1.40	16.7	14.6	1.71	17.0	15.7	1.88	17.1	16.7	2.06	17.2	18.7	2.44	17.5	20.8	2.85	17.8
		150	10.6	1.08	16.1	12.6	1.34	16.3	14.6	1.64	16.6	15.7	1.80	16.7	16.7	1.97	16.8	18.7	2.33	17.0	20.8	2.73	17.2
	20	80	10.6	1.29	22.1	12.6	1.62	22.5	14.6	1.99	23.0	15.7	2.19	23.2	16.7	2.40	23.4	18.7	2.85	23.9	20.8	3.34	24.3
		96	10.6	1.23	21.8	12.6	1.54	22.1	14.6	1.89	22.5	15.7	2.07	22.6	16.7	2.27	22.8	18.7	2.69	23.2	20.8	3.15	23.6
		120	10.6	1.16	21.4	12.6	1.45	21.7	14.6	1.78	22.0	15.7	1.95	22.1	16.7	2.13	22.2	18.7	2.53	22.5	20.8	2.96	22.8
		150	10.6	1.12	21.1	12.6	1.39	21.3	14.6	1.70	21.6	15.7	1.87	21.7	16.7	2.05	21.8	18.7	2.42	22.0	20.8	2.83	22.3
	25	80	10.6	1.50	27.2	12.6	1.89	27.6	14.6	2.33	28.0	15.7	2.57	28.3	16.7	2.81	28.5	18.7	3.35	29.0	20.8	3.93	29.4
		96	10.6	1.43	26.8	12.6	1.80	27.2	14.6	2.21	27.5	15.7	2.43	27.7	16.7	2.66	27.9	18.7	3.16	28.3	20.8	3.71	28.7
		120	10.6	1.35	26.4	12.6	1.69	26.7	14.6	2.08	27.0	15.7	2.28	27.1	16.7	2.50	27.3	18.7	2.97	27.6	20.8	3.48	27.9
		150	10.6	1.30	26.1	12.6	1.62	26.4	14.6	1.99	26.6	15.7	2.19	26.7	16.7	2.40	26.8	18.7	2.85	27.1	20.8	3.33	27.3
	30	80	10.6	1.75	32.2	12.6	2.21	32.7	14.6	2.73	33.1	15.7	3.02	33.3	16.7	3.31	33.6	18.7	3.95	34.1	20.8	4.65	34.6
		96	10.6	1.66	31.8	12.6	2.10	32.2	14.6	2.59	32.6	15.7	2.85	32.8	16.7	3.13	33.0	18.7	3.73	33.4	20.8	4.39	33.8
		120	10.6	1.57	31.5	12.6	1.98	31.7	14.6	2.43	32.0	15.7	2.68	32.2	16.7	2.94	32.3	18.7	3.50	32.7	20.8	4.11	33.0
		150	10.6	1.51	31.2	12.6	1.90	31.4	14.6	2.33	31.6	15.7	2.57	31.7	16.7	2.82	31.9	18.7	3.35	32.1	20.8	3.94	32.4
	35	80	10.6	2.05	37.3	12.6	2.61	37.7	14.6	3.23	38.2	15.7	3.57	38.4	16.7	3.93	38.7	18.7	4.70	39.2	20.8	5.54	39.7
		96	10.6	1.95	36.9	12.6	2.47	37.3	14.6	3.06	37.6	15.7	3.38	37.8	16.7	3.72	38.0	18.7	4.44	38.5	20.8	5.23	38.9
		120	10.6	1.84	36.5	12.6	2.33	36.8	14.6	2.88	37.1	15.7	3.18	37.2	16.7	3.49	37.4	18.7	4.16	37.7	20.8	4.90	38.1
		150	10.6	1.77	36.2	12.6	2.23	36.4	14.6	2.76	36.7	15.7	3.04	36.8	16.7	3.34	36.9	18.7	3.99	37.2	20.8	4.69	37.4
	40	80	10.6	2.25	42.3	12.6	2.91	42.8	14.6	3.67	43.3	15.7	4.08	43.5	16.7	4.52	43.8	18.7	5.46	44.3	19.4	5.62	44.5
		96	10.6	2.19	41.9	12.6	2.82	42.3	14.6	3.54	42.7	15.7	3.93	42.9	16.7	4.34	43.1	18.7	5.22	43.6	20.7	6.16	44.0
		120	10.6	2.13	41.5	12.6	2.72	41.8	14.6	3.39	42.2	15.7	3.76	42.3	16.7	4.14	42.5	18.7	4.97	42.8	20.8	5.87	43.2
		150	10.6	2.05	41.2	12.6	2.61	41.5	14.6	3.25	41.7	15.7	3.60	41.8	16.7	3.96	42.0	18.7	4.75	42.2	20.8	5.61	42.5
	45	80	10.6	2.64	47.4	12.6	3.52	47.9	13.5	3.79	48.1	13.7	3.81	48.1	13.8	3.82	48.2	14.1	3.85	48.2	14.4	3.86	48.3
		96	10.6	2.49	46.9	12.6	3.29	47.4	14.5	4.10	47.8	14.7	4.12	47.8	14.9	4.13	47.8	15.2	4.16	47.9	15.5	4.19	47.9
		120	10.6	2.35	46.5	12.6	3.09	46.9	14.6	3.93	47.2	15.7	4.39	47.4	16.1	4.53	47.5	16.5	4.57	47.5	16.9	4.60	47.6
		150	10.6	2.30	46.2	12.6	3.00	46.5	14.6	3.80	46.8	15.7	4.24	46.9	16.7	4.70	47.0	17.5	4.97	47.1	17.9	5.00	47.2

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	80	8.81	0.97	11.8	10.5	1.20	12.1	12.2	1.45	12.4	13.1	1.58	12.6	13.9	1.72	12.8	15.6	2.03	13.2	17.3	2.35	13.5
		96	8.81	0.93	11.5	10.5	1.14	11.7	12.2	1.37	12.0	13.1	1.50	12.2	13.9	1.63	12.3	15.6	1.92	12.6	17.3	2.23	12.9
		120	8.81	0.88	11.2	10.5	1.08	11.4	12.2	1.30	11.6	13.1	1.42	11.7	13.9	1.54	11.8	15.6	1.81	12.1	17.3	2.09	12.3
		150	8.81	0.85	10.9	10.5	1.04	11.1	12.2	1.25	11.3	13.1	1.36	11.4	13.9	1.48	11.5	15.6	1.73	11.7	17.3	2.01	11.8
	15	80	8.81	1.01	16.8	10.5	1.24	17.1	12.2	1.50	17.5	13.1	1.64	17.6	13.9	1.78	17.8	15.6	2.10	18.2	17.3	2.44	18.5
		96	8.81	0.96	16.5	10.5	1.18	16.7	12.2	1.42	17.0	13.1	1.55	17.2	13.9	1.69	17.3	15.6	1.99	17.6	17.3	2.31	17.9
		120	8.81	0.91	16.2	10.5	1.11	16.4	12.2	1.34	16.6	13.1	1.46	16.7	13.9	1.59	16.9	15.6	1.87	17.1	17.3	2.17	17.3
		150	8.81	0.87	15.9	10.5	1.07	16.1	12.2	1.29	16.3	13.1	1.41	16.4	13.9	1.53	16.5	15.6	1.79	16.7	17.3	2.08	16.9
	20	80	8.81	1.04	21.8	10.5	1.28	22.1	12.2	1.55	22.5	13.1	1.70	22.6	13.9	1.85	22.8	15.6	2.18	23.2	17.3	2.53	23.6
		96	8.81	0.99	21.5	10.5	1.22	21.8	12.2	1.47	22.0	13.1	1.61	22.2	13.9	1.75	22.3	15.6	2.06	22.6	17.3	2.39	22.9
		120	8.81	0.94	21.2	10.5	1.15	21.4	12.2	1.39	21.6	13.1	1.52	21.7	13.9	1.65	21.9	15.6	1.94	22.1	17.3	2.25	22.3
		150	8.81	0.91	20.9	10.5	1.11	21.1	12.2	1.34	21.3	13.1	1.46	21.4	13.9	1.59	21.5	15.6	1.86	21.7	17.3	2.16	21.9
	25	80	8.81	1.21	26.8	10.5	1.49	27.1	12.2	1.81	27.5	13.1	1.98	27.7	13.9	2.16	27.9	15.6	2.55	28.3	17.3	2.97	28.6
		96	8.81	1.15	26.5	10.5	1.42	26.8	12.2	1.72	27.1	13.1	1.88	27.2	13.9	2.05	27.4	15.6	2.41	27.7	17.3	2.81	28.0
		120	8.81	1.09	26.2	10.5	1.34	26.4	12.2	1.62	26.7	13.1	1.77	26.8	13.9	1.93	26.9	15.6	2.27	27.1	17.3	2.64	27.4
		150	8.81	1.05	25.9	10.5	1.29	26.1	12.2	1.56	26.3	13.1	1.70	26.4	13.9	1.85	26.5	15.6	2.18	26.7	17.3	2.53	26.9
	30	80	8.81	1.40	31.8	10.5	1.74	32.2	12.2	2.12	32.6	13.1	2.32	32.8	13.9	2.54	32.9	15.6	3.00	33.3	17.3	3.50	33.7
		96	8.81	1.33	31.5	10.5	1.65	31.8	12.2	2.01	32.1	13.1	2.20	32.3	13.9	2.40	32.4	15.6	2.84	32.8	17.3	3.31	33.1
		120	8.81	1.26	31.2	10.5	1.56	31.4	12.2	1.89	31.7	13.1	2.07	31.8	13.9	2.26	31.9	15.6	2.67	32.2	17.3	3.11	32.4
		150	8.81	1.21	31.0	10.5	1.50	31.1	12.2	1.82	31.3	13.1	1.99	31.4	13.9	2.17	31.5	15.6	2.56	31.7	17.3	2.98	31.9
	35	80	8.81	1.63	36.9	10.5	2.04	37.2	12.2	2.49	37.6	13.1	2.74	37.8	13.9	3.00	38.0	15.6	3.55	38.4	17.3	4.16	38.8
		96	8.81	1.55	36.5	10.5	1.93	36.9	12.2	2.36	37.2	13.1	2.59	37.3	13.9	2.84	37.5	15.6	3.36	37.8	17.3	3.93	38.2
		120	8.81	1.47	36.2	10.5	1.82	36.5	12.2	2.23	36.7	13.1	2.44	36.9	13.9	2.67	37.0	15.6	3.16	37.2	17.3	3.69	37.5
		150	8.81	1.41	36.0	10.5	1.75	36.2	12.2	2.14	36.4	13.1	2.34	36.5	13.9	2.56	36.6	15.6	3.02	36.8	17.3	3.53	37.0
	40	80	8.81	1.74	41.9	10.5	2.23	42.3	12.2	2.77	42.7	13.1	3.07	42.9	13.9	3.38	43.1	15.6	4.05	43.5	17.3	4.79	44.0
		96	8.81	1.72	41.6	10.5	2.18	41.9	12.2	2.69	42.2	13.1	2.97	42.4	13.9	3.27	42.6	15.6	3.90	42.9	17.3	4.59	43.3
		120	8.81	1.68	41.3	10.5	2.11	41.5	12.2	2.60	41.8	13.1	2.86	41.9	13.9	3.14	42.0	15.6	3.73	42.3	17.3	4.38	42.6
		150	8.81	1.62	41.0	10.5	2.03	41.2	12.2	2.49	41.4	13.1	2.74	41.5	13.9	3.01	41.6	15.6	3.58	41.8	17.3	4.19	42.1
	45	80	8.81	1.99	46.9	10.5	2.62	47.4	12.2	3.33	47.8	13.1	3.72	48.0	13.3	3.78	48.1	13.6	3.81	48.1	13.9	3.83	48.2
		96	8.81	1.89	46.6	10.5	2.46	46.9	12.2	3.12	47.3	13.1	3.48	47.5	13.9	3.85	47.7	14.7	4.11	47.8	15.0	4.14	47.9
		120	8.81	1.80	46.3	10.5	2.33	46.5	12.2	2.93	46.8	13.1	3.26	46.9	13.9	3.61	47.1	15.6	4.36	47.4	16.2	4.54	47.5
		150	8.81	1.77	46.0	10.5	2.27	46.2	12.2	2.85	46.4	13.1	3.16	46.5	13.9	3.50	46.7	15.6	4.21	46.9	17.2	4.94	47.1

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	80	45.8	7.25	14.8	54.6	9.65	15.8	59.8	10.2	16.3	60.7	10.3	16.4	61.5	10.3	16.4	62.9	10.4	16.6	63.9	10.4	16.7
		96	45.8	6.85	13.9	54.6	9.10	14.8	60.7	9.95	15.3	61.6	10.00	15.3	62.4	10.0	15.4	63.9	10.1	15.5	65.0	10.1	15.6
		120	45.8	6.42	13.1	54.6	8.52	13.8	61.7	9.63	14.3	62.6	9.67	14.3	63.5	9.71	14.4	65.0	9.78	14.5	66.2	9.82	14.5
		150	45.8	6.14	12.5	54.6	8.15	13.0	62.3	9.39	13.4	63.3	9.44	13.5	64.1	9.48	13.5	65.7	9.54	13.6	66.9	9.59	13.7
	15	80	45.8	7.51	19.8	54.6	10.00	20.8	58.7	10.5	21.2	59.6	10.6	21.3	60.4	10.6	21.4	61.7	10.7	21.5	62.7	10.7	21.6
		96	45.8	7.09	18.9	54.6	9.43	19.8	59.6	10.2	20.2	60.5	10.3	20.3	61.3	10.3	20.3	62.7	10.4	20.5	63.7	10.4	20.5
		120	45.8	6.65	18.1	54.6	8.83	18.8	60.6	9.91	19.2	61.5	9.96	19.3	62.3	10.00	19.3	63.8	10.1	19.4	64.9	10.1	19.5
		150	45.8	6.36	17.5	54.6	8.44	18.0	61.2	9.67	18.4	62.1	9.72	18.4	63.0	9.76	18.5	64.4	9.82	18.5	65.6	9.87	18.6
	20	80	45.8	7.80	24.8	54.6	10.4	25.8	57.4	10.8	26.1	58.2	10.9	26.2	58.9	10.9	26.3	60.2	11.0	26.4	61.1	11.0	26.5
		96	45.8	7.37	24.0	54.6	9.80	24.8	58.2	10.5	25.1	59.1	10.6	25.2	59.8	10.6	25.3	61.1	10.7	25.4	62.1	10.7	25.4
		120	45.8	6.91	23.1	54.6	9.17	23.8	59.2	10.2	24.1	60.1	10.2	24.2	60.9	10.3	24.2	62.2	10.4	24.3	63.2	10.4	24.4
		150	45.8	6.61	22.5	54.6	8.77	23.0	59.8	9.95	23.3	60.7	9.99	23.4	61.5	10.0	23.4	62.9	10.1	23.5	63.9	10.1	23.5
	25	80	45.8	9.20	29.9	53.9	11.9	30.9	55.7	12.0	31.1	56.4	12.1	31.1	57.1	12.1	31.2	58.3	12.2	31.3	59.1	12.2	31.4
		96	45.8	8.68	29.1	54.6	11.6	29.9	56.5	11.7	30.1	57.3	11.8	30.2	58.0	11.8	30.2	59.2	11.9	30.3	60.1	11.9	30.4
		120	45.8	8.13	28.2	54.6	10.8	28.9	57.5	11.3	29.1	58.3	11.4	29.2	59.0	11.4	29.2	60.3	11.5	29.3	61.2	11.5	29.3
		150	45.8	7.78	27.6	54.6	10.4	28.1	58.0	11.1	28.3	58.9	11.1	28.3	59.6	11.2	28.4	60.9	11.2	28.4	61.9	11.3	28.5
	30	80	45.8	10.9	35.1	51.9	13.1	35.8	53.6	13.3	36.0	54.3	13.3	36.1	55.0	13.4	36.1	56.0	13.4	36.2	56.6	13.4	36.3
		96	45.8	10.3	34.2	52.7	12.8	34.9	54.5	12.9	35.0	55.2	13.0	35.1	55.9	13.0	35.1	56.9	13.1	35.2	57.6	13.1	35.3
		120	45.8	9.63	33.3	53.6	12.3	33.9	55.4	12.5	34.1	56.1	12.5	34.1	56.8	12.6	34.1	57.9	12.6	34.2	58.7	12.7	34.3
		150	45.8	9.21	32.6	54.1	12.1	33.2	56.0	12.2	33.3	56.7	12.2	33.3	57.4	12.3	33.3	58.6	12.3	33.4	59.4	12.4	33.4
	35	80	45.8	13.0	40.3	49.7	14.4	40.7	51.2	14.5	40.9	51.9	14.5	41.0	52.4	14.6	41.0	53.2	14.6	41.1	53.7	14.6	41.1
		96	45.8	12.3	39.3	50.5	14.0	39.8	52.1	14.1	39.9	52.7	14.1	40.0	53.3	14.2	40.0	54.2	14.2	40.1	54.7	14.2	40.1
		120	45.8	11.5	38.4	51.3	13.5	38.9	52.9	13.6	39.0	53.6	13.7	39.0	54.2	13.7	39.1	55.2	13.8	39.1	55.8	13.8	39.2
		150	45.8	11.0	37.7	51.8	13.2	38.1	53.5	13.3	38.2	54.2	13.4	38.2	54.8	13.4	38.3	55.8	13.5	38.3	56.4	13.5	38.3
	40	80	39.6	11.3	44.6	40.9	11.4	44.7	41.8	11.5	44.8	42.1	11.5	44.8	42.2	11.5	44.8	42.2	11.4	44.8	41.7	11.3	44.7
		96	42.4	12.4	44.1	43.9	12.6	44.2	45.1	12.6	44.3	45.5	12.7	44.3	45.8	12.7	44.4	46.1	12.6	44.4	45.9	12.6	44.4
		120	44.9	13.3	43.5	46.7	13.4	43.6	48.0	13.6	43.7	48.6	13.6	43.7	49.0	13.6	43.7	49.6	13.6	43.8	49.7	13.6	43.8
		150	45.7	13.1	42.8	47.5	13.3	42.9	48.9	13.4	43.0	49.5	13.5	43.0	49.9	13.5	43.0	50.6	13.5	43.1	50.8	13.5	43.1
	45	80	29.0	7.74	48.3	29.2	7.70	48.3	28.7	7.57	48.3	28.2	7.48	48.2	27.5	7.36	48.1	25.7	7.06	47.9	23.2	6.68	47.7
		96	31.5	8.40	48.0	32.0	8.41	48.0	31.9	8.33	48.0	31.7	8.27	48.0	31.2	8.18	47.9	29.9	7.95	47.8	28.0	7.65	47.7
		120	34.3	9.25	47.6	35.2	9.29	47.7	35.5	9.27	47.7	35.4	9.23	47.7	35.2	9.17	47.7	34.4	9.01	47.6	33.0	8.77	47.5
		150	36.5	10.1	47.2	37.6	10.1	47.3	38.2	10.1	47.3	38.2	10.1	47.3	38.2	10.1	47.3	37.7	9.97	47.3	36.8	9.78	47.2
120	10	80	42.3	6.39	14.4	50.4	8.47	15.3	58.6	10.2	16.2	59.6	10.2	16.3	60.5	10.3	16.3	61.9	10.3	16.5	63.1	10.4	16.6
		96	42.3	6.04	13.6	50.4	7.99	14.4	58.6	9.82	15.1	60.5	9.94	15.3	61.4	9.98	15.3	62.9	10.1	15.4	64.1	10.1	15.5
		120	42.3	5.66	12.9	50.4	7.48	13.5	58.6	9.44	14.1	61.5	9.62	14.2	62.4	9.66	14.3	63.9	9.74	14.4	65.2	9.79	14.5
		150	42.3	5.42	12.3	50.4	7.16	12.8	58.6	9.14	13.2	62.2	9.39	13.4	63.0	9.43	13.5	64.6	9.50	13.5	65.9	9.56	13.6
	15	80	42.3	6.62	19.4	50.4	8.77	20.3	57.7	10.5	21.1	58.6	10.5	21.2	59.4	10.6	21.3	60.8	10.6	21.4	61.9	10.7	21.5
		96	42.3	6.25	18.6	50.4	8.27	19.4	58.6	10.2	20.1	59.5	10.2	20.2	60.3	10.3	20.3	61.7	10.4	20.4	62.9	10.4	20.5
		120	42.3	5.86	17.9	50.4	7.75	18.5	58.6	9.78	19.1	60.4	9.90	19.2	61.3	9.95	19.3	62.8	10.0	19.3	64.0	10.1	19.4
		150	42.3	5.61	17.3	50.4	7.41	17.8	58.6	9.47	18.3	61.1	9.66	18.4	61.9	9.70	18.4	63.4	9.78	18.5	64.7	9.83	18.6
	20	80	42.3	6.87	24.4	50.4	9.11	25.3	56.4	10.8	26.0	57.2	10.8	26.1	58.0	10.9	26.2	59.3	10.9	26.3	60.4	11.0	26.4
		96	42.3	6.49	23.6	50.4	8.60	24.4	57.2	10.5	25.1	58.1	10.5	25.1	58.9	10.6	25.2	60.3	10.6	25.3	61.4	10.7	25.4
		120	42.3	6.09	22.9	50.4	8.05	23.5	58.2	10.1	24.1	59.0	10.2	24.1	59.8	10.2	24.2	61.3	10.3	24.3	62.5	10.4	24.3
		150	42.3	5.83	22.3	50.4	7.70	22.8	58.6	9.84	23.3	59.6	9.94	23.3	60.5	9.98	23.4	61.9	10.1	23.4	63.1	10.1	23.5
	25	80	42.3	8.09	29.5	50.4	10.8	30.5	54.7	12.0	31.0	55.5	12.0	31.1	56.2	12.1	31.1	57.5	12.2	31.2	58.5	12.2	31.3
		96	42.3	7.64	28.7	50.4	10.1	29.5	55.6	11.6	30.0	56.4	11.7	30.1	57.1	11.8	30.1	58.4	11.8	30.2	59.4	11.9	30.3
		120	42.3	7.17	28.0	50.4	9.50	28.6	56.5	11.3	29.0	57.3	11.3	29.1	58.1	11.4	29.1	59.4	11.5	29.2	60.5	11.5	29.3
		150	42.3	6.86	27.3	50.4	9.08	27.8	57.0	11.0	28.3	57.9	11.0	28.3	58.7	11.1	28.3	60.0	11.2	28.4	61.2	11.2	28.5
	30	80	42.3	9.57	34.6	50.4	12.8	35.7	52.7	13.2	35.9	53.5	13.3	36.0	54.2	13.3	36.0	55.3	13.4	36.2	56.1	13.4	36.2
		96	42.3	9.04	33.8	50.4	12.0	34.7	53.6	12.8	35.0	54.3	12.9	35.0	55.0	12.9	35.1	56.2	13.0	35.2	57.1	13.1	35.2
		120	42.3	8.47	33.0	50.4	11.3	33.7	54.4	12.4	34.0	55.2	12.5	34.0	56.0	12.5	34.1	57.2	12.6	34.2	58.1	12.7	34.2
		150	42.3	8.11	32.4	50.4	10.8	32.9	55.0	12.1	33.2	55.8	12.2	33.2	56.5	12.2	33.3	57.8	12.3	33.3	58.8	12.4	33.4
	35	80	42.3	11.4	39.8	48.8	14.3	40.7	50.4	14.4	40.8	51.1	14.5	40.9	51.7	14.5	40.9	52.7	14.6	41.0	53.4	14.6	41.1
		96	42.3	10.8	39.0	49.6	13.9	39.7	51.2	14.0	39.9	51.9	14.1	39.9	52.6	14.1	40.0	53.6	14.2	40.1	54.3	14.2	40.1
		120	42.3	10.1	38.1	50.4	13.4	38.8	52.1	13.6	38.9	52.8	13.6	39.0	53.5	13.7	39.0	54.5	13.8	39.1	55.3	13.8	39.1
		150	42.3	9.66	37.5	50.4	12.9	38.0	52.6	13.2	38.1	53.3	13.3	38.2	54.0	13.4	38.2	55.1	13.4	38.3	56.0	13.5	38.3
	40	80	38.9	11.3	44.5	40.3	11.4	44.6	41.4	11.5	44.7	41.8	11.5	44.8	41.0	11.4	44.7	41.7	11.5	44.8	42.1	11.5	44.8
		96	41.6	12.3	44.0	43.2	12.5	44.2	44.5	12.6	44.3	45.0	12.6	44.3	44.1	12.6	44.2	44.9	12.6	44.3	45.6	12.7	44.3
		120	42.3	12.1	43.2	45.9	13.4	43.5	47.3	13.5	43.6	47.9	13.6	43.7	46.9	13.5	43.6	47.9	13.6	43.7	48.7	13.6	43.7
		150	42.3	11.6	42.6	46.7	13.2	42.9	48.2	13.4	42.9	48.8	13.4	43.0	47.7	13.3	42.9	48.8	13.4	43.0	49.6	13.5	43.0
	45	80	28.8	7.73	48.3	29.2	7.73	48.3	29.1	7.65	48.3	28.8	7.59	48.3	29.2	7.69	48.3	28.8	7.59	48.3	28.0	7.44	48.2
		96	31.2	8.38	48.0	31.9	8.41	48.0	32.1	8.38	48.0	32.0	8.34	48.0	32.1	8.40	48.0	32.0	8.35	48.0	31.5	8.24	48.0
		120	33.8	9.21	47.6	34.8	9.28	47.6	35.4	9.29	47.7	35.5	9.27	47.7	35.2	9.29	47.7	35.5	9.27	47.7	35.4	9.21	47.7
		150	36.0	10.0	47.2	37.2	10.1	47.3	37.9	10.2	47.3	38.1	10.2	47.3	37.7	10.1	47.3	38.1	10.2	47.3	38.3	10.1	47.3

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	80	38.8	5.59	14.0	46.2	7.36	14.8	53.7	9.38	15.6	57.4	10.1	16.0	59.3	10.2	16.2	60.8	10.3	16.4	62.1	10.4	16.5
		96	38.8	5.28	13.3	46.2	6.95	14.0	53.7	8.85	14.7	57.4	9.75	15.0	60.2	9.92	15.2	61.8	10.0	15.4	63.1	10.1	15.5
		120	38.8	4.96	12.6	46.2	6.51	13.1	53.7	8.28	13.7	57.4	9.25	14.0	61.2	9.60	14.2	62.8	9.68	14.3	64.2	9.74	14.4
		150	38.8	4.75	12.1	46.2	6.23	12.5	53.7	7.92	12.9	57.4	8.85	13.2	61.2	9.33	13.4	63.4	9.45	13.5	64.8	9.51	13.6
	15	80	38.8	5.78	19.0	46.2	7.62	19.8	53.7	9.71	20.7	57.4	10.5	21.1	58.3	10.5	21.2	59.7	10.6	21.3	61.0	10.7	21.4
		96	38.8	5.47	18.3	46.2	7.19	19.0	53.7	9.16	19.7	57.4	10.1	20.0	59.1	10.2	20.2	60.7	10.3	20.3	61.9	10.4	20.4
		120	38.8	5.13	17.6	46.2	6.74	18.2	53.7	8.58	18.7	57.4	9.58	19.0	60.1	9.88	19.2	61.7	9.96	19.3	63.0	10.0	19.4
		150	38.8	4.92	17.1	46.2	6.45	17.5	53.7	8.20	18.0	57.4	9.16	18.2	60.7	9.64	18.4	62.3	9.72	18.4	63.6	9.79	18.5
	20	80	38.8	6.01	24.0	46.2	7.92	24.8	53.7	10.1	25.7	56.1	10.8	26.0	56.9	10.8	26.1	58.3	10.9	26.2	59.5	11.0	26.3
		96	38.8	5.68	23.3	46.2	7.47	24.0	53.7	9.52	24.7	57.0	10.5	25.0	57.8	10.5	25.1	59.2	10.6	25.2	60.4	10.7	25.3
		120	38.8	5.33	22.6	46.2	7.01	23.2	53.7	8.92	23.7	57.4	9.96	24.0	58.7	10.2	24.1	60.2	10.2	24.2	61.5	10.3	24.3
		150	38.8	5.11	22.1	46.2	6.70	22.5	53.7	8.53	23.0	57.4	9.52	23.2	59.3	9.92	23.3	60.8	10.0	23.4	62.1	10.1	23.4
	25	80	38.8	7.06	29.1	46.2	9.33	30.0	53.7	11.9	30.9	54.5	12.0	31.0	55.2	12.0	31.0	56.6	12.1	31.2	57.7	12.2	31.3
		96	38.8	6.68	28.4	46.2	8.81	29.1	53.7	11.2	29.8	55.3	11.6	30.0	56.1	11.7	30.1	57.4	11.8	30.2	58.6	11.8	30.3
		120	38.8	6.27	27.7	46.2	8.25	28.3	53.7	10.5	28.8	56.2	11.3	29.0	57.0	11.3	29.1	58.4	11.4	29.2	59.6	11.5	29.2
		150	38.8	6.00	27.1	46.2	7.90	27.6	53.7	10.1	28.0	56.8	11.0	28.2	57.6	11.0	28.3	59.0	11.1	28.4	60.2	11.2	28.4
	30	80	38.8	8.34	34.2	46.2	11.1	35.1	51.8	13.1	35.8	52.5	13.2	35.9	53.2	13.2	36.0	54.5	13.3	36.1	55.4	13.4	36.2
		96	38.8	7.88	33.5	46.2	10.4	34.2	52.5	12.7	34.9	53.3	12.8	34.9	54.1	12.9	35.0	55.3	13.0	35.1	56.4	13.0	35.2
		120	38.8	7.39	32.8	46.2	9.77	33.3	53.4	12.3	33.9	54.2	12.4	34.0	55.0	12.5	34.0	56.3	12.5	34.1	57.3	12.6	34.2
		150	38.8	7.08	32.2	46.2	9.34	32.7	53.7	11.9	33.1	54.8	12.1	33.2	55.5	12.2	33.2	56.9	12.2	33.3	58.0	12.3	33.4
	35	80	38.8	9.93	39.4	46.2	13.2	40.3	49.5	14.3	40.7	50.2	14.4	40.8	50.9	14.5	40.9	52.0	14.6	41.0	52.8	14.6	41.0
		96	38.8	9.38	38.6	46.2	12.5	39.4	50.3	13.9	39.8	51.0	14.0	39.9	51.7	14.1	39.9	52.8	14.2	40.0	53.7	14.2	40.1
		120	38.8	8.79	37.8	46.2	11.7	38.5	51.1	13.5	38.9	51.8	13.6	38.9	52.5	13.6	39.0	53.7	13.7	39.0	54.7	13.8	39.1
		150	38.8	8.42	37.3	46.2	11.2	37.7	51.6	13.2	38.1	52.4	13.2	38.1	53.1	13.3	38.2	54.3	13.4	38.2	55.3	13.4	38.3
	40	80	38.2	11.2	44.4	39.7	11.3	44.6	40.8	11.4	44.7	41.3	11.5	44.7	41.6	11.5	44.8	42.1	11.5	44.8	42.3	11.5	44.8
		96	38.8	11.1	43.7	42.4	12.4	44.1	43.8	12.5	44.2	44.3	12.6	44.2	44.8	12.6	44.3	45.5	12.7	44.3	46.0	12.7	44.4
		120	38.8	10.5	42.9	45.0	13.3	43.5	46.5	13.4	43.6	47.2	13.5	43.6	47.7	13.5	43.7	48.6	13.6	43.7	49.3	13.6	43.8
		150	38.8	10.0	42.3	45.8	13.1	42.8	47.3	13.3	42.9	48.0	13.3	42.9	48.6	13.4	43.0	49.6	13.5	43.0	50.2	13.5	43.0
	45	80	28.4	7.71	48.2	29.1	7.74	48.3	29.2	7.70	48.3	29.1	7.67	48.3	28.9	7.61	48.3	28.1	7.46	48.2	26.8	7.24	48.1
		96	30.7	8.35	47.9	31.6	8.41	48.0	32.0	8.41	48.0	32.1	8.39	48.0	32.0	8.36	48.0	31.6	8.25	48.0	30.7	8.09	47.9
		120	33.3	9.16	47.5	34.4	9.25	47.6	35.1	9.29	47.7	35.3	9.29	47.7	35.4	9.28	47.7	35.4	9.22	47.7	34.9	9.11	47.6
		150	35.3	9.96	47.2	36.6	10.1	47.2	37.5	10.1	47.3	37.8	10.1	47.3	38.1	10.2	47.3	38.3	10.1	47.3	38.1	10.0	47.3
100	10	80	35.2	4.84	13.6	42.0	6.33	14.3	48.8	8.03	15.1	52.2	8.96	15.5	55.6	9.94	15.9	59.6	10.2	16.3	60.9	10.3	16.4
		96	35.2	4.58	13.0	42.0	5.98	13.6	48.8	7.58	14.2	52.2	8.45	14.5	55.6	9.37	14.8	60.5	9.94	15.3	61.9	10.0	15.4
		120	35.2	4.30	12.4	42.0	5.61	12.8	48.8	7.10	13.3	52.2	7.91	13.6	55.6	8.77	13.8	61.5	9.62	14.2	62.9	9.69	14.3
		150	35.2	4.12	11.9	42.0	5.37	12.3	48.8	6.79	12.7	52.2	7.57	12.9	55.6	8.39	13.1	62.1	9.38	13.4	63.5	9.45	13.5
	15	80	35.2	5.01	18.6	42.0	6.55	19.4	48.8	8.31	20.1	52.2	9.28	20.5	55.6	10.3	20.9	58.5	10.5	21.2	59.8	10.6	21.3
		96	35.2	4.74	18.0	42.0	6.19	18.6	48.8	7.85	19.2	52.2	8.75	19.6	55.6	9.70	19.9	59.4	10.2	20.2	60.8	10.3	20.3
		120	35.2	4.45	17.4	42.0	5.81	17.9	48.8	7.35	18.4	52.2	8.19	18.6	55.6	9.08	18.9	60.4	9.90	19.2	61.8	9.97	19.3
		150	35.2	4.27	16.9	42.0	5.56	17.3	48.8	7.03	17.7	52.2	7.84	17.9	55.6	8.69	18.1	61.0	9.66	18.4	62.4	9.73	18.4
	20	80	35.2	5.20	23.6	42.0	6.81	24.4	48.8	8.64	25.1	52.2	9.64	25.5	55.6	10.7	25.9	57.2	10.8	26.1	58.4	10.9	26.2
		96	35.2	4.92	23.0	42.0	6.43	23.6	48.8	8.15	24.3	52.2	9.10	24.6	55.6	10.1	24.9	58.0	10.5	25.1	59.3	10.6	25.2
		120	35.2	4.62	22.4	42.0	6.03	22.9	48.8	7.64	23.4	52.2	8.52	23.6	55.6	9.44	23.9	59.0	10.2	24.1	60.3	10.3	24.2
		150	35.2	4.43	21.9	42.0	5.78	22.3	48.8	7.31	22.7	52.2	8.15	22.9	55.6	9.03	23.1	59.6	9.93	23.3	60.9	10.0	23.4
	25	80	35.2	6.11	28.7	42.0	8.02	29.5	48.8	10.2	30.3	52.2	11.4	30.7	54.1	11.9	30.9	55.5	12.0	31.0	56.6	12.1	31.2
		96	35.2	5.78	28.1	42.0	7.57	28.7	48.8	9.62	29.4	52.2	10.7	29.7	54.9	11.6	30.0	56.3	11.7	30.1	57.5	11.8	30.2
		120	35.2	5.43	27.4	42.0	7.10	27.9	48.8	9.01	28.5	52.2	10.1	28.7	55.6	11.2	29.0	57.3	11.3	29.1	58.5	11.4	29.2
		150	35.2	5.20	26.9	42.0	6.80	27.3	48.8	8.62	27.7	52.2	9.61	28.0	55.6	10.7	28.2	57.8	11.0	28.3	59.1	11.1	28.4
	30	80	35.2	7.20	33.8	42.0	9.48	34.6	48.8	12.1	35.5	51.4	13.1	35.8	52.2	13.1	35.8	53.4	13.2	36.0	54.5	13.3	36.1
		96	35.2	6.81	33.1	42.0	8.95	33.8	48.8	11.4	34.5	52.2	12.7	34.8	52.9	12.8	34.9	54.3	12.9	35.0	55.4	13.0	35.1
		120	35.2	6.39	32.5	42.0	8.39	33.0	48.8	10.7	33.6	52.2	11.9	33.8	53.8	12.4	34.0	55.2	12.5	34.0	56.4	12.6	34.1
		150	35.2	6.12	32.0	42.0	8.03	32.4	48.8	10.2	32.8	52.2	11.4	33.0	54.4	12.1	33.2	55.8	12.2	33.2	56.9	12.2	33.3
	35	80	35.2	8.55	38.9	42.0	11.3	39.8	48.5	14.2	40.6	49.2	14.3	40.7	49.9	14.4	40.8	51.1	14.5	40.9	52.1	14.6	41.0
		96	35.2	8.08	38.2	42.0	10.7	38.9	48.8	13.6	39.7	50.0	13.9	39.8	50.7	14.0	39.8	51.9	14.1	39.9	52.9	14.2	40.0
		120	35.2	7.58	37.6	42.0	10.00	38.1	48.8	12.8	38.7	50.8	13.5	38.8	51.5	13.5	38.9	52.8	13.6	39.0	53.8	13.7	39.0
		150	35.2	7.26	37.0	42.0	9.56	37.5	48.8	12.2	37.9	51.3	13.1	38.1	52.0	13.2	38.1	53.3	13.3	38.2	54.4	13.4	38.2
	40	80	35.2	9.87	44.0	38.9	11.3	44.5	40.1	11.4	44.6	40.6	11.4	44.7	41.0	11.4	44.7	41.7	11.5	44.8	42.1	11.5	44.8
		96	35.2	9.46	43.3	41.6	12.3	44.0	42.9	12.5	44.1	43.5	12.5	44.2	44.1	12.6	44.2	44.9	12.6	44.3	45.6	12.7	44.3
		120	35.2	9.02	42.6	42.0	12.0	43.2	45.6	13.3	43.5	46.3	13.4	43.6	46.9	13.5	43.6	47.9	13.6	43.7	48.7	13.6	43.7
		150	35.2	8.63	42.1	42.0	11.5	42.6	46.4	13.2	42.8	47.0	13.3	42.9	47.7	13.3	42.9	48.8	13.4	43.0	49.6	13.5	43.0
	45	80	28.0	7.67	48.2	28.8	7.73	48.3	29.2	7.73	48.3	29.2	7.72	48.3	29.2	7.69	48.3	28.8	7.59	48.3	28.0	7.44	48.2
		96	30.1	8.30	47.9	31.1	8.38	47.9	31.8	8.41	48.0	32.0	8.41	48.0	32.1	8.40	48.0	32.0	8.35	48.0	31.5	8.24	48.0
		120	32.6	9.10	47.5	33.8	9.21	47.6	34.7	9.27	47.6	35.0	9.29	47.6	35.2	9.29	47.7	35.5	9.27	47.7	35.4	9.21	47.7
		150	34.6	9.89	47.1	35.9	10.0	47.2	37.0	10.1	47.2	37.4	10.1	47.3	37.7	10.1	47.3	38.1	10.2	47.3	38.3	10.1	47.3

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	80	31.7	4.15	13.2	37.8	5.38	13.9	43.9	6.79	14.5	47.0	7.55	14.9	50.0	8.36	15.2	56.1	10.00	15.9	59.6	10.2	16.3
		96	31.7	3.93	12.7	37.8	5.09	13.2	43.9	6.41	13.8	47.0	7.13	14.0	50.0	7.89	14.3	56.1	9.52	14.9	60.5	9.94	15.3
		120	31.7	3.70	12.1	37.8	4.78	12.5	43.9	6.01	13.0	47.0	6.68	13.2	50.0	7.39	13.4	56.1	8.92	13.9	61.4	9.61	14.2
		150	31.7	3.54	11.7	37.8	4.58	12.0	43.9	5.75	12.4	47.0	6.39	12.6	50.0	7.07	12.7	56.1	8.52	13.1	62.1	9.38	13.4
	15	80	31.7	4.29	18.2	37.8	5.57	18.9	43.9	7.03	19.6	47.0	7.82	19.9	50.0	8.66	20.3	56.1	10.4	21.0	58.5	10.5	21.2
		96	31.7	4.07	17.7	37.8	5.27	18.2	43.9	6.64	18.8	47.0	7.38	19.1	50.0	8.17	19.3	56.1	9.86	19.9	59.4	10.2	20.2
		120	31.7	3.82	17.1	37.8	4.95	17.6	43.9	6.22	18.0	47.0	6.92	18.2	50.0	7.65	18.4	56.1	9.23	18.9	60.4	9.90	19.2
		150	31.7	3.67	16.7	37.8	4.74	17.0	43.9	5.96	17.4	47.0	6.62	17.6	50.0	7.32	17.7	56.1	8.83	18.1	61.0	9.66	18.4
	20	80	31.7	4.46	23.2	37.8	5.79	23.9	43.9	7.30	24.6	47.0	8.13	24.9	50.0	9.00	25.3	55.8	10.7	26.0	57.1	10.8	26.1
		96	31.7	4.22	22.7	37.8	5.47	23.2	43.9	6.90	23.8	47.0	7.67	24.1	50.0	8.49	24.4	56.1	10.3	25.0	58.0	10.5	25.1
		120	31.7	3.97	22.1	37.8	5.14	22.6	43.9	6.47	23.0	47.0	7.19	23.2	50.0	7.95	23.5	56.1	9.60	23.9	59.0	10.2	24.1
		150	31.7	3.81	21.7	37.8	4.92	22.0	43.9	6.19	22.4	47.0	6.88	22.6	50.0	7.61	22.8	56.1	9.18	23.1	59.6	9.93	23.3
	25	80	31.7	5.22	28.3	37.8	6.80	29.0	43.9	8.60	29.7	47.0	9.58	30.1	50.0	10.6	30.4	54.2	11.9	30.9	55.4	12.0	31.0
		96	31.7	4.94	27.7	37.8	6.43	28.3	43.9	8.12	28.9	47.0	9.04	29.2	50.0	10.0	29.5	55.0	11.6	30.0	56.3	11.7	30.1
		120	31.7	4.65	27.2	37.8	6.04	27.6	43.9	7.61	28.1	47.0	8.47	28.3	50.0	9.38	28.5	55.9	11.2	29.0	57.2	11.3	29.1
		150	31.7	4.46	26.7	37.8	5.78	27.1	43.9	7.28	27.4	47.0	8.10	27.6	50.0	8.97	27.8	56.1	10.8	28.2	57.8	11.0	28.3
	30	80	31.7	6.14	33.4	37.8	8.03	34.1	43.9	10.2	34.8	47.0	11.4	35.2	50.0	12.6	35.6	52.3	13.2	35.9	53.4	13.2	36.0
		96	31.7	5.81	32.8	37.8	7.59	33.4	43.9	9.61	34.0	47.0	10.7	34.3	50.0	11.9	34.6	53.1	12.8	34.9	54.3	12.9	35.0
		120	31.7	5.46	32.2	37.8	7.12	32.7	43.9	9.00	33.2	47.0	10.0	33.4	50.0	11.1	33.7	53.9	12.4	34.0	55.2	12.5	34.0
		150	31.7	5.24	31.8	37.8	6.82	32.1	43.9	8.61	32.5	47.0	9.59	32.7	50.0	10.6	32.9	54.5	12.1	33.2	55.7	12.2	33.2
	35	80	31.7	7.28	38.5	37.8	9.56	39.2	43.9	12.2	40.0	47.0	13.6	40.4	48.7	14.3	40.6	50.0	14.4	40.8	51.1	14.5	40.9
		96	31.7	6.89	37.9	37.8	9.02	38.5	43.9	11.5	39.1	47.0	12.8	39.5	49.5	13.9	39.7	50.8	14.0	39.8	51.9	14.1	39.9
		120	31.7	6.47	37.3	37.8	8.46	37.8	43.9	10.7	38.3	47.0	12.0	38.5	50.0	13.3	38.8	51.6	13.5	38.9	52.7	13.6	39.0
		150	31.7	6.20	36.8	37.8	8.10	37.2	43.9	10.3	37.6	47.0	11.5	37.8	50.0	12.7	38.0	52.1	13.2	38.1	53.3	13.3	38.2
	40	80	31.7	8.32	43.6	37.8	11.1	44.4	39.2	11.3	44.5	39.8	11.3	44.6	40.3	11.4	44.6	41.1	11.4	44.7	41.7	11.5	44.8
		96	31.7	8.01	43.0	37.8	10.6	43.6	42.0	12.4	44.1	42.6	12.4	44.1	43.2	12.5	44.2	44.2	12.6	44.2	44.9	12.6	44.3
		120	31.7	7.66	42.4	37.8	10.1	42.9	43.9	12.9	43.4	45.2	13.3	43.5	45.8	13.4	43.5	47.0	13.5	43.6	47.9	13.6	43.7
		150	31.7	7.33	41.9	37.8	9.66	42.3	43.9	12.3	42.7	46.0	13.2	42.8	46.6	13.2	42.9	47.8	13.3	42.9	48.7	13.4	43.0
	45	80	27.4	7.62	48.1	28.3	7.70	48.2	28.9	7.73	48.3	29.1	7.74	48.3	29.2	7.73	48.3	29.2	7.68	48.3	28.8	7.59	48.3
		96	29.5	8.24	47.8	30.5	8.33	47.9	31.3	8.39	48.0	31.6	8.41	48.0	31.9	8.41	48.0	32.1	8.40	48.0	32.0	8.35	48.0
		120	31.7	8.96	47.4	33.1	9.15	47.5	34.1	9.23	47.6	34.5	9.26	47.6	34.8	9.28	47.6	35.3	9.29	47.7	35.5	9.27	47.7
		150	31.7	8.65	46.9	35.1	9.94	47.2	36.2	10.0	47.2	36.7	10.1	47.2	37.1	10.1	47.3	37.7	10.1	47.3	38.1	10.2	47.3
80	10	80	28.2	3.52	12.8	33.6	4.52	13.4	39.0	5.65	14.0	41.8	6.27	14.3	44.5	6.92	14.6	49.9	8.33	15.2	55.3	9.86	15.8
		96	28.2	3.33	12.4	33.6	4.28	12.8	39.0	5.34	13.3	41.8	5.92	13.6	44.5	6.54	13.8	49.9	7.86	14.3	55.3	9.30	14.8
		120	28.2	3.14	11.9	33.6	4.02	12.2	39.0	5.02	12.6	41.8	5.56	12.8	44.5	6.13	13.0	49.9	7.36	13.4	55.3	8.71	13.8
		150	28.2	3.01	11.5	33.6	3.85	11.8	39.0	4.80	12.1	41.8	5.32	12.2	44.5	5.87	12.4	49.9	7.04	12.7	55.3	8.32	13.0
	15	80	28.2	3.64	17.9	33.6	4.67	18.4	39.0	5.85	19.0	41.8	6.49	19.3	44.5	7.17	19.6	49.9	8.62	20.2	55.3	10.2	20.9
		96	28.2	3.45	17.4	33.6	4.42	17.8	39.0	5.53	18.3	41.8	6.13	18.6	44.5	6.77	18.8	49.9	8.13	19.3	55.3	9.63	19.8
		120	28.2	3.25	16.9	33.6	4.16	17.3	39.0	5.19	17.6	41.8	5.75	17.8	44.5	6.35	18.0	49.9	7.62	18.4	55.3	9.02	18.8
		150	28.2	3.12	16.5	33.6	3.99	16.8	39.0	4.97	17.1	41.8	5.51	17.3	44.5	6.07	17.4	49.9	7.29	17.7	55.3	8.62	18.1
	20	80	28.2	3.77	22.9	33.6	4.85	23.4	39.0	6.08	24.0	41.8	6.74	24.3	44.5	7.45	24.7	49.9	8.96	25.3	55.3	10.6	25.9
		96	28.2	3.58	22.4	33.6	4.59	22.9	39.0	5.74	23.3	41.8	6.37	23.6	44.5	7.03	23.8	49.9	8.45	24.4	55.3	10.0	24.9
		120	28.2	3.37	21.9	33.6	4.32	22.3	39.0	5.39	22.7	41.8	5.98	22.9	44.5	6.59	23.0	49.9	7.92	23.5	55.3	9.37	23.9
		150	28.2	3.23	21.5	33.6	4.14	21.8	39.0	5.16	22.1	41.8	5.72	22.3	44.5	6.31	22.4	49.9	7.58	22.7	55.3	8.96	23.1
	25	80	28.2	4.41	27.9	33.6	5.69	28.5	39.0	7.15	29.1	41.8	7.94	29.5	44.5	8.77	29.8	49.9	10.6	30.4	54.0	11.9	30.9
		96	28.2	4.18	27.4	33.6	5.39	27.9	39.0	6.75	28.4	41.8	7.50	28.7	44.5	8.28	28.9	49.9	9.97	29.5	54.9	11.6	30.0
		120	28.2	3.94	26.9	33.6	5.06	27.3	39.0	6.34	27.7	41.8	7.03	27.9	44.5	7.76	28.1	49.9	9.34	28.5	55.3	11.1	29.0
		150	28.2	3.78	26.5	33.6	4.85	26.8	39.0	6.07	27.2	41.8	6.73	27.3	44.5	7.43	27.5	49.9	8.93	27.8	55.3	10.6	28.1
	30	80	28.2	5.18	33.0	33.6	6.70	33.6	39.0	8.44	34.3	41.8	9.39	34.6	44.5	10.4	34.9	49.9	12.5	35.6	52.1	13.1	35.8
		96	28.2	4.90	32.5	33.6	6.34	33.0	39.0	7.97	33.5	41.8	8.86	33.8	44.5	9.80	34.1	49.9	11.8	34.6	52.9	12.8	34.9
		120	28.2	4.61	32.0	33.6	5.96	32.4	39.0	7.48	32.8	41.8	8.31	33.0	44.5	9.18	33.2	49.9	11.1	33.6	53.8	12.4	33.9
		150	28.2	4.42	31.6	33.6	5.71	31.9	39.0	7.16	32.2	41.8	7.95	32.4	44.5	8.79	32.5	49.9	10.6	32.9	54.3	12.1	33.2
	35	80	28.2	6.12	38.1	33.6	7.96	38.7	39.0	10.1	39.4	41.8	11.2	39.7	44.5	12.4	40.1	48.7	14.3	40.6	49.8	14.4	40.8
		96	28.2	5.79	37.5	33.6	7.52	38.1	39.0	9.49	38.6	41.8	10.6	38.9	44.5	11.7	39.2	49.5	13.9	39.7	50.6	14.0	39.8
		120	28.2	5.45	37.0	33.6	7.06	37.4	39.0	8.90	37.9	41.8	9.90	38.1	44.5	11.0	38.3	49.9	13.2	38.8	51.4	13.5	38.9
		150	28.2	5.22	36.6	33.6	6.76	36.9	39.0	8.52	37.3	41.8	9.47	37.4	44.5	10.5	37.6	49.9	12.7	38.0	52.0	13.2	38.1
	40	80	28.2	6.91	43.1	33.6	9.15	43.8	38.2	11.2	44.4	38.8	11.3	44.5	39.3	11.3	44.5	40.3	11.4	44.6	41.0	11.4	44.7
		96	28.2	6.67	42.6	33.6	8.78	43.2	39.0	11.2	43.7	41.5	12.3	44.0	42.1	12.4	44.1	43.1	12.5	44.2	44.0	12.6	44.2
		120	28.2	6.41	42.1	33.6	8.38	42.5	39.0	10.6	43.0	41.8	11.9	43.2	44.5	13.2	43.4	45.8	13.4	43.5	46.8	13.5	43.6
		150	28.2	6.14	41.6	33.6	8.02	42.0	39.0	10.2	42.4	41.8	11.3	42.5	44.5	12.6	42.7	46.6	13.2	42.9	47.6	13.3	42.9
	45	80	26.7	7.56	48.1	27.7	7.65	48.2	28.5	7.71	48.2	28.7	7.73	48.3	29.0	7.74	48.3	29.2	7.73	48.3	29.2	7.69	48.3
		96	28.2	7.89	47.7	29.8	8.27	47.8	30.7	8.35	47.9	31.1	8.38	47.9	31.4	8.40	48.0	31.8	8.41	48.0	32.1	8.40	48.0
		120	28.2	7.39	47.1	32.3	9.07	47.5	33.3	9.16	47.5	33.8	9.20	47.6	34.2	9.23	47.6	34.8	9.28	47.6	35.2	9.29	47.7
		150	28.2	7.15	46.7	33.6	9.52	47.1	35.4	9.96	47.2	35.9	10.0	47.2	36.3	10.0	47.2	37.1	10.1	47.3	37.7	10.1	47.3

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	80	24.7	2.94	12.5	29.4	3.73	13.0	34.2	4.63	13.5	36.5	5.11	13.7	38.9	5.62	14.0	43.7	6.72	14.5	48.4	7.93	15.0
		96	24.7	2.79	12.0	29.4	3.53	12.5	34.2	4.38	12.9	36.5	4.84	13.1	38.9	5.32	13.3	43.7	6.35	13.7	48.4	7.48	14.2
		120	24.7	2.63	11.6	29.4	3.33	12.0	34.2	4.11	12.3	36.5	4.54	12.5	38.9	4.99	12.6	43.7	5.96	13.0	48.4	7.01	13.3
		150	24.7	2.53	11.3	29.4	3.19	11.6	34.2	3.94	11.8	36.5	4.35	12.0	38.9	4.78	12.1	43.7	5.70	12.4	48.4	6.71	12.6
	15	80	24.7	3.04	17.5	29.4	3.86	18.0	34.2	4.79	18.5	36.5	5.29	18.7	38.9	5.82	19.0	43.7	6.96	19.5	48.4	8.21	20.1
		96	24.7	2.88	17.1	29.4	3.66	17.5	34.2	4.53	17.9	36.5	5.00	18.1	38.9	5.50	18.3	43.7	6.57	18.8	48.4	7.75	19.2
		120	24.7	2.72	16.6	29.4	3.44	17.0	34.2	4.26	17.3	36.5	4.70	17.5	38.9	5.17	17.6	43.7	6.17	18.0	48.4	7.26	18.3
		150	24.7	2.61	16.3	29.4	3.30	16.6	34.2	4.08	16.8	36.5	4.50	17.0	38.9	4.95	17.1	43.7	5.90	17.4	48.4	6.94	17.6
	20	80	24.7	3.15	22.5	29.4	4.01	23.0	34.2	4.97	23.5	36.5	5.50	23.8	38.9	6.05	24.0	43.7	7.23	24.6	48.4	8.53	25.1
		96	24.7	2.99	22.1	29.4	3.80	22.5	34.2	4.70	22.9	36.5	5.20	23.1	38.9	5.72	23.3	43.7	6.83	23.8	48.4	8.05	24.2
		120	24.7	2.82	21.6	29.4	3.57	22.0	34.2	4.42	22.3	36.5	4.88	22.5	38.9	5.37	22.6	43.7	6.41	23.0	48.4	7.54	23.3
		150	24.7	2.71	21.3	29.4	3.43	21.6	34.2	4.24	21.8	36.5	4.68	22.0	38.9	5.14	22.1	43.7	6.13	22.4	48.4	7.22	22.7
	25	80	24.7	3.67	27.5	29.4	4.69	28.1	34.2	5.83	28.6	36.5	6.46	28.9	38.9	7.11	29.1	43.7	8.52	29.7	48.4	10.1	30.2
		96	24.7	3.49	27.1	29.4	4.44	27.5	34.2	5.52	28.0	36.5	6.10	28.2	38.9	6.72	28.4	43.7	8.04	28.9	48.4	9.49	29.3
		120	24.7	3.29	26.7	29.4	4.18	27.0	34.2	5.18	27.3	36.5	5.73	27.5	38.9	6.31	27.7	43.7	7.54	28.1	48.4	8.89	28.4
		150	24.7	3.16	26.3	29.4	4.01	26.6	34.2	4.97	26.9	36.5	5.49	27.0	38.9	6.04	27.1	43.7	7.22	27.4	48.4	8.51	27.7
	30	80	24.7	4.30	32.6	29.4	5.50	33.1	34.2	6.87	33.7	36.5	7.61	34.0	38.9	8.40	34.2	43.7	10.1	34.8	48.4	11.9	35.4
		96	24.7	4.08	32.1	29.4	5.21	32.6	34.2	6.50	33.0	36.5	7.20	33.3	38.9	7.93	33.5	43.7	9.52	34.0	48.4	11.2	34.5
		120	24.7	3.84	31.7	29.4	4.90	32.0	34.2	6.10	32.4	36.5	6.75	32.6	38.9	7.44	32.8	43.7	8.92	33.1	48.4	10.5	33.5
		150	24.7	3.69	31.4	29.4	4.70	31.6	34.2	5.84	31.9	36.5	6.47	32.1	38.9	7.12	32.2	43.7	8.53	32.5	48.4	10.1	32.8
	35	80	24.7	5.06	37.7	29.4	6.51	38.2	34.2	8.16	38.8	36.5	9.05	39.1	38.9	10.00	39.4	43.7	12.0	40.0	48.4	14.2	40.6
		96	24.7	4.80	37.2	29.4	6.16	37.7	34.2	7.71	38.1	36.5	8.55	38.4	38.9	9.44	38.6	43.7	11.4	39.1	48.4	13.5	39.6
		120	24.7	4.52	36.7	29.4	5.79	37.1	34.2	7.24	37.5	36.5	8.02	37.7	38.9	8.85	37.9	43.7	10.6	38.2	48.4	12.6	38.6
		150	24.7	4.33	36.4	29.4	5.55	36.7	34.2	6.93	37.0	36.5	7.68	37.1	38.9	8.47	37.3	43.7	10.2	37.6	48.4	12.0	37.9
	40	80	24.7	5.63	42.7	29.4	7.39	43.3	34.2	9.39	43.9	36.5	10.5	44.2	38.2	11.2	44.4	39.2	11.3	44.5	40.0	11.4	44.6
		96	24.7	5.47	42.2	29.4	7.12	42.7	34.2	9.01	43.2	36.5	10.0	43.5	38.9	11.1	43.7	41.9	12.4	44.1	42.9	12.5	44.1
		120	24.7	5.27	41.8	29.4	6.83	42.2	34.2	8.60	42.6	36.5	9.56	42.8	38.9	10.6	43.0	43.7	12.8	43.4	45.5	13.3	43.5
		150	24.7	5.06	41.4	29.4	6.54	41.7	34.2	8.23	42.0	36.5	9.15	42.2	38.9	10.1	42.3	43.7	12.2	42.7	46.3	13.2	42.8
	45	80	24.7	6.78	47.8	26.9	7.58	48.1	27.8	7.66	48.2	28.1	7.69	48.2	28.4	7.71	48.2	28.9	7.73	48.3	29.2	7.73	48.3
		96	24.7	6.34	47.3	29.0	8.19	47.8	29.9	8.28	47.9	30.3	8.32	47.9	30.7	8.35	47.9	31.3	8.39	48.0	31.7	8.41	48.0
		120	24.7	5.97	46.8	29.4	7.92	47.2	32.4	9.08	47.5	32.9	9.12	47.5	33.3	9.16	47.5	34.1	9.22	47.6	34.6	9.27	47.6
		150	24.7	5.80	46.5	29.4	7.65	46.8	34.2	9.78	47.1	34.9	9.92	47.1	35.3	9.96	47.2	36.2	10.0	47.2	36.9	10.1	47.2
60	10	80	21.1	2.41	12.1	25.2	3.02	12.5	29.3	3.71	13.0	31.3	4.08	13.2	33.4	4.47	13.4	37.4	5.30	13.8	41.5	6.21	14.3
		96	21.1	2.30	11.7	25.2	2.87	12.1	29.3	3.51	12.4	31.3	3.86	12.6	33.4	4.23	12.8	37.4	5.01	13.2	41.5	5.87	13.5
		120	21.1	2.17	11.4	25.2	2.71	11.7	29.3	3.31	11.9	31.3	3.63	12.1	33.4	3.97	12.2	37.4	4.71	12.5	41.5	5.51	12.8
		150	21.1	2.09	11.1	25.2	2.60	11.3	29.3	3.17	11.6	31.3	3.48	11.7	33.4	3.81	11.8	37.4	4.51	12.0	41.5	5.27	12.2
	15	80	21.1	2.50	17.1	25.2	3.13	17.5	29.3	3.84	18.0	31.3	4.22	18.2	33.4	4.62	18.4	37.4	5.49	18.8	41.5	6.43	19.3
		96	21.1	2.37	16.8	25.2	2.97	17.1	29.3	3.63	17.5	31.3	4.00	17.6	33.4	4.37	17.8	37.4	5.19	18.2	41.5	6.07	18.6
		120	21.1	2.24	16.4	25.2	2.80	16.7	29.3	3.42	17.0	31.3	3.76	17.1	33.4	4.11	17.2	37.4	4.87	17.5	41.5	5.70	17.8
		150	21.1	2.16	16.1	25.2	2.69	16.3	29.3	3.28	16.6	31.3	3.60	16.7	33.4	3.94	16.8	37.4	4.67	17.0	41.5	5.46	17.2
	20	80	21.1	2.59	22.1	25.2	3.24	22.5	29.3	3.98	23.0	31.3	4.38	23.2	33.4	4.80	23.4	37.4	5.70	23.9	41.5	6.68	24.3
		96	21.1	2.46	21.8	25.2	3.08	22.1	29.3	3.77	22.5	31.3	4.15	22.6	33.4	4.54	22.8	37.4	5.39	23.2	41.5	6.31	23.6
		120	21.1	2.32	21.4	25.2	2.90	21.7	29.3	3.55	22.0	31.3	3.90	22.1	33.4	4.27	22.2	37.4	5.06	22.5	41.5	5.92	22.8
		150	21.1	2.23	21.1	25.2	2.79	21.3	29.3	3.41	21.6	31.3	3.74	21.7	33.4	4.09	21.8	37.4	4.85	22.0	41.5	5.67	22.3
	25	80	21.1	3.01	27.2	25.2	3.78	27.6	29.3	4.66	28.0	31.3	5.13	28.3	33.4	5.63	28.5	37.4	6.70	29.0	41.5	7.86	29.4
		96	21.1	2.86	26.8	25.2	3.59	27.2	29.3	4.41	27.5	31.3	4.86	27.7	33.4	5.33	27.9	37.4	6.33	28.3	41.5	7.43	28.7
		120	21.1	2.70	26.4	25.2	3.38	26.7	29.3	4.15	27.0	31.3	4.57	27.1	33.4	5.00	27.3	37.4	5.94	27.6	41.5	6.96	27.9
		150	21.1	2.60	26.1	25.2	3.25	26.4	29.3	3.98	26.6	31.3	4.38	26.7	33.4	4.80	26.8	37.4	5.69	27.1	41.5	6.67	27.3
	30	80	21.1	3.51	32.2	25.2	4.43	32.7	29.3	5.47	33.1	31.3	6.03	33.3	33.4	6.63	33.6	37.4	7.90	34.1	41.5	9.29	34.6
		96	21.1	3.33	31.8	25.2	4.20	32.2	29.3	5.18	32.6	31.3	5.71	32.8	33.4	6.27	33.0	37.4	7.47	33.4	41.5	8.78	33.8
		120	21.1	3.14	31.5	25.2	3.96	31.7	29.3	4.87	32.0	31.3	5.37	32.2	33.4	5.89	32.3	37.4	7.01	32.7	41.5	8.23	33.0
		150	21.1	3.02	31.2	25.2	3.80	31.4	29.3	4.67	31.6	31.3	5.14	31.7	33.4	5.64	31.9	37.4	6.71	32.1	41.5	7.87	32.4
	35	80	21.1	4.11	37.3	25.2	5.22	37.7	29.3	6.47	38.2	31.3	7.15	38.4	33.4	7.86	38.7	37.4	9.40	39.2	41.5	11.1	39.7
		96	21.1	3.90	36.9	25.2	4.94	37.3	29.3	6.12	37.6	31.3	6.76	37.8	33.4	7.43	38.0	37.4	8.88	38.5	41.5	10.5	38.9
		120	21.1	3.68	36.5	25.2	4.65	36.8	29.3	5.75	37.1	31.3	6.35	37.2	33.4	6.98	37.4	37.4	8.33	37.7	41.5	9.80	38.1
		150	21.1	3.53	36.2	25.2	4.47	36.4	29.3	5.52	36.7	31.3	6.09	36.8	33.4	6.68	36.9	37.4	7.97	37.2	41.5	9.38	37.4
	40	80	21.1	4.49	42.3	25.2	5.83	42.8	29.3	7.34	43.3	31.3	8.16	43.5	33.4	9.03	43.8	37.4	10.9	44.3	38.8	11.2	44.5
		96	21.1	4.39	41.9	25.2	5.65	42.3	29.3	7.08	42.7	31.3	7.85	42.9	33.4	8.67	43.1	37.4	10.4	43.6	41.4	12.3	44.0
		120	21.1	4.25	41.5	25.2	5.44	41.8	29.3	6.78	42.2	31.3	7.51	42.3	33.4	8.28	42.5	37.4	9.94	42.8	41.5	11.7	43.2
		150	21.1	4.09	41.2	25.2	5.22	41.5	29.3	6.50	41.7	31.3	7.20	41.8	33.4	7.93	42.0	37.4	9.50	42.2	41.5	11.2	42.5
	45	80	21.1	5.29	47.4	25.2	7.03	47.9	26.9	7.58	48.1	27.3	7.62	48.1	27.7	7.65	48.2	28.3	7.70	48.2	28.7	7.73	48.3
		96	21.1	4.97	46.9	25.2	6.57	47.4	28.9	8.19	47.8	29.4	8.23	47.8	29.8	8.27	47.8	30.5	8.33	47.9	31.1	8.37	47.9
		120	21.1	4.70	46.5	25.2	6.18	46.9	29.3	7.86	47.2	31.3	8.78	47.4	32.2	9.06	47.5	33.0	9.14	47.5	33.7	9.20	47.6
		150	21.1	4.59	46.2	25.2	6.00	46.5	29.3	7.60	46.8	31.3	8.47	46.9	33.4	9.40	47.0	35.0	9.93	47.1	35.8	10.0	47.2

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	80	17.6	1.95	11.8	21.0	2.40	12.1	24.4	2.90	12.4	26.1	3.17	12.6	27.8	3.45	12.8	31.2	4.05	13.2	34.6	4.71	13.5
		96	17.6	1.86	11.5	21.0	2.28	11.7	24.4	2.75	12.0	26.1	3.00	12.2	27.8	3.27	12.3	31.2	3.84	12.6	34.6	4.46	12.9
		120	17.6	1.76	11.2	21.0	2.15	11.4	24.4	2.59	11.6	26.1	2.83	11.7	27.8	3.08	11.8	31.2	3.61	12.1	34.6	4.19	12.3
		150	17.6	1.69	10.9	21.0	2.07	11.1	24.4	2.49	11.3	26.1	2.72	11.4	27.8	2.96	11.5	31.2	3.46	11.7	34.6	4.01	11.8
	15	80	17.6	2.01	16.8	21.0	2.48	17.1	24.4	3.00	17.5	26.1	3.27	17.6	27.8	3.57	17.8	31.2	4.19	18.2	34.6	4.87	18.5
		96	17.6	1.92	16.5	21.0	2.36	16.7	24.4	2.84	17.0	26.1	3.11	17.2	27.8	3.38	17.3	31.2	3.97	17.6	34.6	4.61	17.9
		120	17.6	1.82	16.2	21.0	2.23	16.4	24.4	2.68	16.6	26.1	2.93	16.7	27.8	3.19	16.9	31.2	3.74	17.1	34.6	4.33	17.3
		150	17.6	1.75	15.9	21.0	2.14	16.1	24.4	2.58	16.3	26.1	2.81	16.4	27.8	3.06	16.5	31.2	3.58	16.7	34.6	4.15	16.9
	20	80	17.6	2.09	21.8	21.0	2.57	22.1	24.4	3.11	22.5	26.1	3.40	22.6	27.8	3.70	22.8	31.2	4.35	23.2	34.6	5.06	23.6
		96	17.6	1.99	21.5	21.0	2.44	21.8	24.4	2.95	22.0	26.1	3.22	22.2	27.8	3.51	22.3	31.2	4.12	22.6	34.6	4.79	22.9
		120	17.6	1.88	21.2	21.0	2.31	21.4	24.4	2.78	21.6	26.1	3.04	21.7	27.8	3.31	21.9	31.2	3.88	22.1	34.6	4.50	22.3
		150	17.6	1.81	20.9	21.0	2.22	21.1	24.4	2.67	21.3	26.1	2.92	21.4	27.8	3.17	21.5	31.2	3.72	21.7	34.6	4.31	21.9
	25	80	17.6	2.42	26.8	21.0	2.99	27.1	24.4	3.62	27.5	26.1	3.97	27.7	27.8	4.33	27.9	31.2	5.10	28.3	34.6	5.94	28.6
		96	17.6	2.30	26.5	21.0	2.84	26.8	24.4	3.44	27.1	26.1	3.76	27.2	27.8	4.10	27.4	31.2	4.83	27.7	34.6	5.62	28.0
		120	17.6	2.18	26.2	21.0	2.68	26.4	24.4	3.24	26.7	26.1	3.54	26.8	27.8	3.86	26.9	31.2	4.54	27.1	34.6	5.28	27.4
		150	17.6	2.10	25.9	21.0	2.58	26.1	24.4	3.11	26.3	26.1	3.40	26.4	27.8	3.71	26.5	31.2	4.35	26.7	34.6	5.06	26.9
	30	80	17.6	2.80	31.8	21.0	3.48	32.2	24.4	4.24	32.6	26.1	4.65	32.8	27.8	5.08	32.9	31.2	6.00	33.3	34.6	7.00	33.7
		96	17.6	2.67	31.5	21.0	3.30	31.8	24.4	4.02	32.1	26.1	4.40	32.3	27.8	4.81	32.4	31.2	5.68	32.8	34.6	6.62	33.1
		120	17.6	2.52	31.2	21.0	3.12	31.4	24.4	3.79	31.7	26.1	4.15	31.8	27.8	4.52	31.9	31.2	5.33	32.2	34.6	6.21	32.4
		150	17.6	2.43	31.0	21.0	3.00	31.1	24.4	3.63	31.3	26.1	3.98	31.4	27.8	4.34	31.5	31.2	5.11	31.7	34.6	5.95	31.9
	35	80	17.6	3.26	36.9	21.0	4.08	37.2	24.4	4.99	37.6	26.1	5.48	37.8	27.8	6.00	38.0	31.2	7.10	38.4	34.6	8.31	38.8
		96	17.6	3.10	36.5	21.0	3.87	36.9	24.4	4.73	37.2	26.1	5.19	37.3	27.8	5.68	37.5	31.2	6.72	37.8	34.6	7.86	38.2
		120	17.6	2.93	36.2	21.0	3.65	36.5	24.4	4.45	36.7	26.1	4.88	36.9	27.8	5.34	37.0	31.2	6.31	37.2	34.6	7.37	37.5
		150	17.6	2.82	36.0	21.0	3.51	36.2	24.4	4.27	36.4	26.1	4.68	36.5	27.8	5.12	36.6	31.2	6.05	36.8	34.6	7.06	37.0
	40	80	17.6	3.49	41.9	21.0	4.45	42.3	24.4	5.55	42.7	26.1	6.14	42.9	27.8	6.76	43.1	31.2	8.11	43.5	34.6	9.58	44.0
		96	17.6	3.43	41.6	21.0	4.35	41.9	24.4	5.38	42.2	26.1	5.94	42.4	27.8	6.53	42.6	31.2	7.80	42.9	34.6	9.19	43.3
		120	17.6	3.35	41.3	21.0	4.22	41.5	24.4	5.19	41.8	26.1	5.72	41.9	27.8	6.27	42.0	31.2	7.47	42.3	34.6	8.76	42.6
		150	17.6	3.23	41.0	21.0	4.06	41.2	24.4	4.99	41.4	26.1	5.49	41.5	27.8	6.02	41.6	31.2	7.15	41.8	34.6	8.39	42.1
	45	80	17.6	3.98	46.9	21.0	5.24	47.4	24.4	6.67	47.8	26.1	7.45	48.0	26.6	7.55	48.1	27.3	7.61	48.1	27.9	7.66	48.2
		96	17.6	3.77	46.6	21.0	4.92	46.9	24.4	6.24	47.3	26.1	6.95	47.5	27.8	7.71	47.7	29.3	8.23	47.8	30.0	8.29	47.9
		120	17.6	3.60	46.3	21.0	4.66	46.5	24.4	5.87	46.8	26.1	6.53	46.9	27.8	7.22	47.1	31.2	8.72	47.4	32.5	9.09	47.5
		150	17.6	3.53	46.0	21.0	4.55	46.2	24.4	5.70	46.4	26.1	6.33	46.5	27.8	6.99	46.7	31.2	8.42	46.9	34.4	9.87	47.1

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	
130	10	80	68.7	10.9	14.8	81.9	14.5	15.8	89.7	15.3	16.3	91.0	15.4	16.4	92.2	15.5	16.4	94.3	15.6	16.6	95.9	15.6	16.7	
		96	68.7	10.3	13.9	81.9	13.7	14.8	91.1	14.9	15.3	92.4	15.0	15.3	93.7	15.1	15.4	95.8	15.2	15.5	97.5	15.2	15.6	
		120	68.7	9.63	13.1	81.9	12.8	13.8	92.6	14.4	14.3	93.9	14.5	14.3	95.2	14.6	14.4	97.5	14.7	14.5	99.2	14.7	14.5	
		150	68.7	9.21	12.5	81.9	12.2	13.0	93.5	14.1	13.4	94.9	14.2	13.5	96.2	14.2	13.5	98.5	14.3	13.6	100	14.4	13.7	
	15	80	68.7	11.3	19.8	81.9	15.0	20.8	88.1	15.8	21.2	89.4	15.9	21.3	90.5	15.9	21.4	92.5	16.0	21.5	94.0	16.1	21.6	
		96	68.7	10.6	18.9	81.9	14.1	19.8	89.5	15.4	20.2	90.8	15.4	20.3	92.0	15.5	20.3	94.0	15.6	20.5	95.6	15.7	20.5	
		120	68.7	9.97	18.1	81.9	13.2	18.8	90.9	14.9	19.2	92.3	14.9	19.3	93.5	15.0	19.3	95.6	15.1	19.4	97.3	15.2	19.5	
		150	68.7	9.54	17.5	81.9	12.7	18.0	91.8	14.5	18.4	93.2	14.6	18.4	94.5	14.6	18.5	96.7	14.7	18.5	98.4	14.8	18.6	
	20	80	68.7	11.7	24.8	81.9	15.6	25.8	86.0	16.2	26.1	87.3	16.3	26.2	88.4	16.4	26.3	90.2	16.5	26.4	91.6	16.5	26.5	
		96	68.7	11.0	24.0	81.9	14.7	24.8	87.4	15.8	25.1	88.6	15.9	25.2	89.8	15.9	25.3	91.7	16.0	25.4	93.2	16.1	25.4	
		120	68.7	10.4	23.1	81.9	13.8	23.8	88.8	15.3	24.1	90.1	15.4	24.2	91.3	15.4	24.2	93.3	15.5	24.3	94.9	15.6	24.4	
		150	68.7	9.91	22.5	81.9	13.2	23.0	89.7	14.9	23.3	91.0	15.0	23.4	92.2	15.1	23.4	94.3	15.2	23.5	95.9	15.2	23.5	
	25	80	68.7	13.8	29.9	80.8	17.9	30.9	83.5	18.1	31.1	84.7	18.1	31.1	85.7	18.2	31.2	87.4	18.3	31.3	88.6	18.4	31.4	
		96	68.7	13.0	29.1	81.9	17.4	29.9	84.8	17.6	30.1	86.0	17.6	30.2	87.1	17.7	30.2	88.8	17.8	30.3	90.1	17.9	30.4	
		120	68.7	12.2	28.2	81.9	16.2	28.9	86.2	17.0	29.1	87.4	17.1	29.2	88.5	17.1	29.2	90.4	17.2	29.3	91.8	17.3	29.3	
		150	68.7	11.7	27.6	81.9	15.5	28.1	87.1	16.6	28.3	88.3	16.7	28.3	89.5	16.7	28.4	91.4	16.8	28.4	92.8	16.9	28.5	
	30	80	68.7	16.3	35.1	77.9	19.7	35.8	80.5	19.9	36.0	81.5	20.0	36.1	82.5	20.0	36.1	84.0	20.1	36.2	84.9	20.2	36.3	
		96	68.7	15.4	34.2	79.1	19.1	34.9	81.7	19.3	35.0	82.8	19.4	35.1	83.8	19.5	35.1	85.4	19.6	35.2	86.4	19.6	35.3	
		120	68.7	14.4	33.3	80.4	18.5	33.9	83.1	18.7	34.1	84.2	18.8	34.1	85.2	18.9	34.1	86.9	19.0	34.2	88.1	19.0	34.3	
		150	68.7	13.8	32.6	81.2	18.1	33.2	83.9	18.3	33.3	85.1	18.4	33.3	86.1	18.4	33.3	87.9	18.5	33.4	89.1	18.6	33.4	
	35	80	68.7	19.5	40.3	74.5	21.5	40.7	76.9	21.7	40.9	77.8	21.8	41.0	78.6	21.9	41.0	79.9	21.9	41.1	80.6	21.9	41.1	
		96	68.7	18.4	39.3	75.7	20.9	39.8	78.1	21.1	39.9	79.1	21.2	40.0	79.9	21.3	40.0	81.3	21.4	40.1	82.0	21.4	40.1	
		120	68.7	17.2	38.4	76.9	20.3	38.9	79.4	20.5	39.0	80.4	20.5	39.0	81.3	20.6	39.1	82.8	20.7	39.1	83.7	20.7	39.2	
		150	68.7	16.5	37.7	77.7	19.8	38.1	80.2	20.0	38.2	81.3	20.0	38.2	82.2	20.1	38.3	83.7	20.2	38.3	84.7	20.2	38.3	
	40	80	59.4	17.0	44.6	61.4	17.2	44.7	62.7	17.2	44.8	63.1	17.2	44.8	63.3	17.2	44.8	63.3	17.1	44.8	62.5	16.9	44.7	
		96	63.5	18.6	44.1	65.9	18.8	44.2	67.6	19.0	44.3	68.2	19.0	44.3	68.7	19.0	44.4	69.1	19.0	44.4	68.9	18.8	44.4	
		120	67.4	19.9	43.5	70.0	20.2	43.6	72.1	20.3	43.7	72.8	20.4	43.7	73.5	20.4	43.7	74.3	20.5	43.8	74.6	20.4	43.8	
		150	68.6	19.7	42.8	71.3	19.9	42.9	73.4	20.1	43.0	74.2	20.2	43.0	74.9	20.2	43.0	75.8	20.3	43.1	76.2	20.2	43.1	
	45	80	43.6	11.6	48.3	43.8	11.5	48.3	43.1	11.4	48.3	42.3	11.2	48.2	41.3	11.0	48.1	38.5	10.6	47.9	34.8	10.0	47.7	
		96	47.3	12.6	48.0	48.1	12.6	48.0	47.9	12.5	48.0	47.5	12.4	48.0	46.8	12.3	47.9	44.8	11.9	47.8	41.9	11.5	47.7	
		120	51.5	13.9	47.6	52.8	13.9	47.7	53.2	13.9	47.7	53.1	13.8	47.7	52.8	13.8	47.7	51.6	13.5	47.6	49.5	13.2	47.5	
		150	54.8	15.1	47.2	56.4	15.2	47.3	57.2	15.2	47.3	57.4	15.2	47.3	57.3	15.1	47.3	56.6	15.0	47.3	55.1	14.7	47.2	
120	10	80	63.4	9.59	14.4	75.6	12.7	15.3	87.9	15.2	16.2	89.4	15.3	16.3	90.7	15.4	16.3	92.9	15.5	16.5	94.7	15.6	16.6	
		96	63.4	9.06	13.6	75.6	12.0	14.4	87.9	14.7	15.1	90.8	14.9	15.3	92.1	15.0	15.3	94.3	15.1	15.4	96.2	15.2	15.5	
		120	63.4	8.50	12.9	75.6	11.2	13.5	87.9	14.2	14.1	92.3	14.4	14.2	93.6	14.5	14.3	95.9	14.6	14.4	97.9	14.7	14.5	
		150	63.4	8.13	12.3	75.6	10.7	12.8	87.9	13.7	13.2	93.2	14.1	13.4	94.6	14.1	13.5	96.9	14.3	13.5	98.9	14.3	13.6	
	15	80	63.4	9.92	19.4	75.6	13.1	20.3	86.6	15.7	21.1	87.9	15.8	21.2	89.1	15.9	21.3	91.2	16.0	21.4	92.9	16.0	21.5	
		96	63.4	9.38	18.6	75.6	12.4	19.4	87.9	15.3	20.1	89.2	15.3	20.2	90.4	15.4	20.3	92.6	15.5	20.4	94.4	15.6	20.5	
		120	63.4	8.80	17.9	75.6	11.6	18.5	87.9	14.7	19.1	90.7	14.9	19.2	91.9	14.9	19.3	94.2	15.0	19.3	96.0	15.1	19.4	
		150	63.4	8.42	17.3	75.6	11.1	17.8	87.9	14.2	18.3	91.6	14.5	18.4	92.9	14.6	18.4	95.2	14.7	18.5	97.1	14.8	18.6	
	20	80	63.4	10.3	24.4	75.6	13.7	25.3	84.5	16.2	26.0	85.8	16.2	26.1	87.0	16.3	26.2	89.0	16.4	26.3	90.6	16.5	26.4	
		96	63.4	9.74	23.6	75.6	12.9	24.4	85.8	15.7	25.1	87.1	15.8	25.1	88.3	15.9	25.2	90.4	16.0	25.3	92.1	16.1	25.4	
		120	63.4	9.14	22.9	75.6	12.1	23.5	87.2	15.2	24.1	88.6	15.3	24.1	89.8	15.3	24.2	91.9	15.5	24.3	93.7	15.5	24.3	
		150	63.4	8.75	22.3	75.6	11.6	22.8	87.9	14.8	23.3	89.5	14.9	23.3	90.7	15.0	23.4	92.9	15.1	23.4	94.7	15.2	23.5	
	25	80	63.4	12.1	29.5	75.6	16.1	30.5	82.1	18.0	31.0	83.3	18.1	31.1	84.4	18.1	31.1	86.2	18.2	31.2	87.7	18.3	31.3	
		96	63.4	11.5	28.7	75.6	15.2	29.5	83.3	17.5	30.0	84.6	17.6	30.1	85.7	17.6	30.1	87.6	17.7	30.2	89.2	17.8	30.3	
		120	63.4	10.8	28.0	75.6	14.2	28.6	84.7	16.9	29.0	86.0	17.0	29.1	87.1	17.1	29.1	89.1	17.2	29.2	90.7	17.3	29.3	
		150	63.4	10.3	27.3	75.6	13.6	27.8	85.6	16.5	28.3	86.8	16.6	28.3	88.0	16.6	28.3	90.1	16.8	28.4	91.7	16.9	28.5	
	30	80	63.4	14.4	34.6	75.6	19.1	35.7	79.1	19.8	35.9	80.2	19.9	36.0	81.3	20.0	36.0	83.0	20.1	36.2	84.2	20.1	36.2	
		96	63.4	13.6	33.8	75.6	18.0	34.7	80.3	19.2	35.0	81.5	19.3	35.0	82.5	19.4	35.1	84.3	19.5	35.2	85.6	19.6	35.2	
		120	63.4	12.7	33.0	75.6	16.9	33.7	81.7	18.6	34.0	82.8	18.7	34.0	83.9	18.8	34.1	85.8	18.9	34.2	87.2	19.0	34.2	
		150	63.4	12.2	32.4	75.6	16.1	32.9	82.5	18.2	33.2	83.7	18.3	33.2	84.8	18.3	33.3	86.7	18.5	33.3	88.2	18.5	33.4	
	35	80	63.4	17.1	39.8	73.2	21.4	40.7	75.6	21.6	40.8	76.7	21.7	40.9	77.6	21.8	40.9	79.1	21.9	41.0	80.1	21.9	41.1	
		96	63.4	16.2	39.0	74.4	20.8	39.7	76.8	21.0	39.9	77.9	21.1	39.9	78.8	21.2	40.0	80.4	21.3	40.1	81.5	21.4	40.1	
		120	63.4	15.1	38.1	75.6	20.1	38.8	78.1	20.4	38.9	79.2	20.4	39.0	80.2	20.5	39.0	81.8	20.6	39.1	83.0	20.7	39.1	
		150	63.4	14.5	37.5	75.6	19.3	38.0	78.9	19.9	38.1	80.0	20.0	38.2	81.0	20.0	38.2	82.7	20.1	38.3	84.0	20.2	38.3	
	40	80	58.4	16.9	44.5	60.5	17.1	44.6	62.1	17.2	44.7	62.6	17.2	44.8	61.6	17.2	44.7	62.6	17.2	44.8	63.2	17.2	44.8	
		96	62.4	18.5	44.0	64.8	18.7	44.2	66.7	18.9	44.3	67.5	19.0	44.3	66.1	18.8	44.2	67.4	18.9	44.3	68.4	19.0	44.3	
		120	63.4	18.2	43.2	68.9	20.1	43.5	71.0	20.3	43.6	71.9	20.3	43.7	70.3	20.2	43.6	71.8	20.3	43.7	73.1	20.4	43.7	
		150	63.4	17.4	42.6	70.0	19.8	42.9	72.3	20.0	42.9	73.2	20.1	43.0	71.5	20.0	42.9	73.1	20.1	43.0	74.4	20.2	43.0	
	45	80	43.2	11.6	48.3	43.8	11.6	48.3	43.6	11.5	48.3	43.2	11.4	48.3	43.8	11.5	48.3	43.2	11.4	48.3	42.0	11.2	48.2	
		96	46.7	12.6	48.0	47.8	12.6	48.0	48.1	12.6	48.0	48.0	12.5	48.0	48.1	12.6	48.0	48.0	12.5	48.0	47.3	12.4	48.0	
		120	50.8	13.8	47.6	52.3	13.9	47.6	53.1	13.9	47.7	53.2	13.9	47.7	52.9	13.9	47.7	53.2	13.9	47.7	53.0	13.8	47.7	
		150	53.9	15.0	47.2	55.7	15.2	47.3	56.9	15.2	47.3	57.2	15.2	47.3	56.5	15.2	47.3	57.2	15.2	47.3	57.4	15.2	47.3	

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	80	58.1	8.38	14.0	69.3	11.0	14.8	80.5	14.1	15.6	86.1	15.1	16.0	89.0	15.3	16.2	91.2	15.4	16.4	93.2	15.5	16.5
		96	58.1	7.92	13.3	69.3	10.4	14.0	80.5	13.3	14.7	86.1	14.6	15.0	90.3	14.9	15.2	92.6	15.0	15.4	94.6	15.1	15.5
		120	58.1	7.44	12.6	69.3	9.77	13.1	80.5	12.4	13.7	86.1	13.9	14.0	91.7	14.4	14.2	94.2	14.5	14.3	96.2	14.6	14.4
		150	58.1	7.13	12.1	69.3	9.35	12.5	80.5	11.9	12.9	86.1	13.3	13.2	91.7	14.0	13.4	95.1	14.2	13.5	97.2	14.3	13.6
	15	80	58.1	8.68	19.0	69.3	11.4	19.8	80.5	14.6	20.7	86.1	15.7	21.1	87.4	15.8	21.2	89.6	15.9	21.3	91.5	16.0	21.4
		96	58.1	8.20	18.3	69.3	10.8	19.0	80.5	13.7	19.7	86.1	15.1	20.0	88.7	15.3	20.2	91.0	15.4	20.3	92.9	15.5	20.4
		120	58.1	7.70	17.6	69.3	10.1	18.2	80.5	12.9	18.7	86.1	14.4	19.0	90.2	14.8	19.2	92.5	14.9	19.3	94.5	15.0	19.4
		150	58.1	7.37	17.1	69.3	9.68	17.5	80.5	12.3	18.0	86.1	13.7	18.2	91.1	14.5	18.4	93.4	14.6	18.4	95.5	14.7	18.5
	20	80	58.1	9.01	24.0	69.3	11.9	24.8	80.5	15.1	25.7	84.2	16.1	26.0	85.4	16.2	26.1	87.5	16.3	26.2	89.2	16.4	26.3
		96	58.1	8.52	23.3	69.3	11.2	24.0	80.5	14.3	24.7	85.5	15.7	25.0	86.7	15.8	25.1	88.8	15.9	25.2	90.7	16.0	25.3
		120	58.1	8.00	22.6	69.3	10.5	23.2	80.5	13.4	23.7	86.1	14.9	24.0	88.1	15.2	24.1	90.3	15.4	24.2	92.2	15.5	24.3
		150	58.1	7.66	22.1	69.3	10.1	22.5	80.5	12.8	23.0	86.1	14.3	23.2	89.0	14.9	23.3	91.2	15.0	23.4	93.2	15.1	23.4
	25	80	58.1	10.6	29.1	69.3	14.0	30.0	80.5	17.8	30.9	81.7	17.9	31.0	82.8	18.0	31.0	84.8	18.2	31.2	86.5	18.3	31.3
		96	58.1	10.0	28.4	69.3	13.2	29.1	80.5	16.9	29.8	83.0	17.4	30.0	84.1	17.5	30.1	86.2	17.7	30.2	87.9	17.8	30.3
		120	58.1	9.40	27.7	69.3	12.4	28.3	80.5	15.8	28.8	84.3	16.9	29.0	85.5	17.0	29.1	87.6	17.1	29.2	89.4	17.2	29.2
		150	58.1	9.00	27.1	69.3	11.8	27.6	80.5	15.1	28.0	85.2	16.5	28.2	86.4	16.5	28.3	88.5	16.7	28.4	90.4	16.8	28.4
	30	80	58.1	12.5	34.2	69.3	16.6	35.1	77.6	19.7	35.8	78.8	19.8	35.9	79.8	19.8	36.0	81.7	20.0	36.1	83.2	20.1	36.2
		96	58.1	11.8	33.5	69.3	15.6	34.2	78.8	19.1	34.9	80.0	19.2	34.9	81.1	19.3	35.0	83.0	19.4	35.1	84.5	19.5	35.2
		120	58.1	11.1	32.8	69.3	14.7	33.3	80.1	18.5	33.9	81.3	18.6	34.0	82.4	18.7	34.0	84.4	18.8	34.1	86.0	18.9	34.2
		150	58.1	10.6	32.2	69.3	14.0	32.7	80.5	17.9	33.1	82.1	18.1	33.2	83.3	18.2	33.2	85.3	18.4	33.3	86.9	18.5	33.4
	35	80	58.1	14.9	39.4	69.3	19.8	40.3	74.3	21.5	40.7	75.3	21.6	40.8	76.3	21.7	40.9	78.0	21.8	41.0	79.2	21.9	41.0
		96	58.1	14.1	38.6	69.3	18.7	39.4	75.4	20.9	39.8	76.5	21.0	39.9	77.5	21.1	39.9	79.2	21.2	40.0	80.6	21.3	40.1
		120	58.1	13.2	37.8	69.3	17.5	38.5	76.6	20.2	38.9	77.8	20.3	38.9	78.8	20.4	39.0	80.6	20.6	39.0	82.0	20.6	39.1
		150	58.1	12.6	37.3	69.3	16.7	37.7	77.4	19.7	38.1	78.6	19.8	38.1	79.6	19.9	38.2	81.5	20.1	38.2	82.9	20.2	38.3
	40	80	57.3	16.8	44.4	59.5	17.0	44.6	61.2	17.1	44.7	61.9	17.2	44.7	62.4	17.2	44.8	63.2	17.2	44.8	63.4	17.2	44.8
		96	58.1	16.6	43.7	63.7	18.6	44.1	65.7	18.8	44.2	66.5	18.9	44.2	67.2	18.9	44.3	68.3	19.0	44.3	68.9	19.0	44.4
		120	58.1	15.8	42.9	67.6	19.9	43.5	69.8	20.2	43.6	70.7	20.2	43.6	71.6	20.3	43.7	73.0	20.4	43.7	73.9	20.5	43.8
		150	58.1	15.1	42.3	68.7	19.7	42.8	71.0	19.9	42.9	72.0	20.0	42.9	72.9	20.1	43.0	74.3	20.2	43.0	75.4	20.2	43.0
	45	80	42.6	11.6	48.2	43.6	11.6	48.3	43.8	11.6	48.3	43.7	11.5	48.3	43.4	11.4	48.3	42.2	11.2	48.2	40.2	10.9	48.1
		96	46.0	12.5	47.9	47.4	12.6	48.0	48.0	12.6	48.0	48.1	12.6	48.0	48.0	12.5	48.0	47.4	12.4	48.0	46.1	12.1	47.9
		120	49.9	13.7	47.5	51.6	13.9	47.6	52.7	13.9	47.7	53.0	13.9	47.7	53.2	13.9	47.7	53.1	13.8	47.7	52.4	13.7	47.6
		150	53.0	14.9	47.2	54.9	15.1	47.2	56.3	15.2	47.3	56.8	15.2	47.3	57.1	15.2	47.3	57.4	15.2	47.3	57.1	15.1	47.3
100	10	80	52.8	7.26	13.6	63.0	9.50	14.3	73.2	12.0	15.1	78.3	13.4	15.5	83.4	14.9	15.9	89.4	15.3	16.3	91.4	15.4	16.4
		96	52.8	6.87	13.0	63.0	8.97	13.6	73.2	11.4	14.2	78.3	12.7	14.5	83.4	14.1	14.8	90.7	14.9	15.3	92.8	15.0	15.4
		120	52.8	6.46	12.4	63.0	8.42	12.8	73.2	10.7	13.3	78.3	11.9	13.6	83.4	13.2	13.8	92.2	14.4	14.2	94.3	14.5	14.3
		150	52.8	6.19	11.9	63.0	8.06	12.3	73.2	10.2	12.7	78.3	11.4	12.9	83.4	12.6	13.1	93.1	14.1	13.4	95.3	14.2	13.5
	15	80	52.8	7.51	18.6	63.0	9.83	19.4	73.2	12.5	20.1	78.3	13.9	20.5	83.4	15.4	20.9	87.8	15.8	21.2	89.7	15.9	21.3
		96	52.8	7.11	18.0	63.0	9.29	18.6	73.2	11.8	19.2	78.3	13.1	19.6	83.4	14.6	19.9	89.1	15.3	20.2	91.1	15.5	20.3
		120	52.8	6.68	17.4	63.0	8.71	17.9	73.2	11.0	18.4	78.3	12.3	18.6	83.4	13.6	18.9	90.6	14.8	19.2	92.6	15.0	19.3
		150	52.8	6.40	16.9	63.0	8.34	17.3	73.2	10.5	17.7	78.3	11.8	17.9	83.4	13.0	18.1	91.5	14.5	18.4	93.6	14.6	18.4
	20	80	52.8	7.80	23.6	63.0	10.2	24.4	73.2	13.0	25.1	78.3	14.5	25.5	83.4	16.1	25.9	85.7	16.2	26.1	87.6	16.3	26.2
		96	52.8	7.38	23.0	63.0	9.65	23.6	73.2	12.2	24.3	78.3	13.6	24.6	83.4	15.1	24.9	87.0	15.8	25.1	89.0	15.9	25.2
		120	52.8	6.94	22.4	63.0	9.05	22.9	73.2	11.5	23.4	78.3	12.8	23.6	83.4	14.2	23.9	88.5	15.3	24.1	90.5	15.4	24.2
		150	52.8	6.65	21.9	63.0	8.67	22.3	73.2	11.0	22.7	78.3	12.2	22.9	83.4	13.5	23.1	89.4	14.9	23.3	91.4	15.0	23.4
	25	80	52.8	9.16	28.7	63.0	12.0	29.5	73.2	15.3	30.3	78.3	17.1	30.7	81.1	17.9	30.9	83.2	18.0	31.0	85.0	18.2	31.2
		96	52.8	8.66	28.1	63.0	11.4	28.7	73.2	14.4	29.4	78.3	16.1	29.7	82.4	17.4	30.0	84.5	17.5	30.1	86.3	17.7	30.2
		120	52.8	8.14	27.4	63.0	10.6	27.9	73.2	13.5	28.5	78.3	15.1	28.7	83.4	16.7	29.0	85.9	17.0	29.1	87.8	17.1	29.2
		150	52.8	7.80	26.9	63.0	10.2	27.3	73.2	12.9	27.7	78.3	14.4	28.0	83.4	16.0	28.2	86.8	16.6	28.3	88.7	16.7	28.4
	30	80	52.8	10.8	33.8	63.0	14.2	34.6	73.2	18.1	35.5	77.1	19.6	35.8	78.2	19.7	35.8	80.2	19.9	36.0	81.8	20.0	36.1
		96	52.8	10.2	33.1	63.0	13.4	33.8	73.2	17.1	34.5	78.3	19.1	34.8	79.4	19.2	34.9	81.4	19.3	35.0	83.1	19.5	35.1
		120	52.8	9.58	32.5	63.0	12.6	33.0	73.2	16.0	33.6	78.3	17.9	33.8	80.7	18.5	34.0	82.8	18.7	34.0	84.5	18.8	34.1
		150	52.8	9.18	32.0	63.0	12.0	32.4	73.2	15.3	32.8	78.3	17.1	33.0	81.5	18.1	33.2	83.6	18.3	33.2	85.4	18.4	33.3
	35	80	52.8	12.8	38.9	63.0	17.0	39.8	72.7	21.3	40.6	73.8	21.5	40.7	74.8	21.6	40.8	76.6	21.7	40.9	78.1	21.8	41.0
		96	52.8	12.1	38.2	63.0	16.0	38.9	73.2	20.4	39.7	74.9	20.9	39.8	76.0	21.0	39.8	77.8	21.1	39.9	79.3	21.2	40.0
		120	52.8	11.4	37.6	63.0	15.0	38.1	73.2	19.1	38.7	76.2	20.2	38.8	77.2	20.3	38.9	79.1	20.4	39.0	80.7	20.6	39.0
		150	52.8	10.9	37.0	63.0	14.3	37.5	73.2	18.3	37.9	76.9	19.7	38.1	78.0	19.8	38.1	80.0	19.9	38.2	81.6	20.1	38.2
	40	80	52.8	14.8	44.0	58.3	16.9	44.5	60.1	17.1	44.6	60.9	17.1	44.7	61.6	17.2	44.7	62.6	17.2	44.8	63.2	17.2	44.8
		96	52.8	14.2	43.3	62.3	18.5	44.0	64.4	18.7	44.1	65.3	18.8	44.2	66.1	18.8	44.2	67.4	18.9	44.3	68.4	19.0	44.3
		120	52.8	13.5	42.6	63.0	18.0	43.2	68.4	20.0	43.5	69.4	20.1	43.6	70.3	20.2	43.6	71.8	20.3	43.7	73.1	20.4	43.7
		150	52.8	13.0	42.1	63.0	17.2	42.6	69.5	19.8	42.8	70.6	19.9	42.9	71.5	20.0	42.9	73.1	20.1	43.0	74.4	20.2	43.0
	45	80	41.9	11.5	48.2	43.1	11.6	48.3	43.8	11.6	48.3	43.8	11.6	48.3	43.8	11.5	48.3	43.2	11.4	48.3	42.0	11.2	48.2
		96	45.2	12.4	47.9	46.7	12.6	47.9	47.7	12.6	48.0	47.9	12.6	48.0	48.1	12.6	48.0	48.0	12.5	48.0	47.3	12.4	48.0
		120	48.9	13.7	47.5	50.7	13.8	47.6	52.0	13.9	47.6	52.5	13.9	47.6	52.9	13.9	47.7	53.2	13.9	47.7	53.0	13.8	47.7
		150	51.9	14.8	47.1	53.9	15.0	47.2	55.4	15.1	47.2	56.0	15.2	47.3	56.5	15.2	47.3	57.2	15.2	47.3	57.4	15.2	47.3

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	80	47.6	6.22	13.2	56.7	8.08	13.9	65.9	10.2	14.5	70.5	11.3	14.9	75.1	12.5	15.2	84.2	15.0	15.9	89.3	15.3	16.3
		96	47.6	5.89	12.7	56.7	7.64	13.2	65.9	9.62	13.8	70.5	10.7	14.0	75.1	11.8	14.3	84.2	14.3	14.9	90.7	14.9	15.3
		120	47.6	5.54	12.1	56.7	7.17	12.5	65.9	9.02	13.0	70.5	10.0	13.2	75.1	11.1	13.4	84.2	13.4	13.9	92.2	14.4	14.2
		150	47.6	5.32	11.7	56.7	6.87	12.0	65.9	8.63	12.4	70.5	9.59	12.6	75.1	10.6	12.7	84.2	12.8	13.1	93.1	14.1	13.4
	15	80	47.6	6.44	18.2	56.7	8.36	18.9	65.9	10.5	19.6	70.5	11.7	19.9	75.1	13.0	20.3	84.2	15.5	21.0	87.7	15.8	21.2
		96	47.6	6.10	17.7	56.7	7.90	18.2	65.9	9.95	18.8	70.5	11.1	19.1	75.1	12.3	19.3	84.2	14.8	19.9	89.1	15.3	20.2
		120	47.6	5.74	17.1	56.7	7.42	17.6	65.9	9.33	18.0	70.5	10.4	18.2	75.1	11.5	18.4	84.2	13.8	18.9	90.5	14.8	19.2
		150	47.6	5.50	16.7	56.7	7.11	17.0	65.9	8.93	17.4	70.5	9.93	17.6	75.1	11.0	17.7	84.2	13.2	18.1	91.5	14.5	18.4
	20	80	47.6	6.69	23.2	56.7	8.68	23.9	65.9	11.0	24.6	70.5	12.2	24.9	75.1	13.5	25.3	83.7	16.1	26.0	85.7	16.2	26.1
		96	47.6	6.33	22.7	56.7	8.21	23.2	65.9	10.3	23.8	70.5	11.5	24.1	75.1	12.7	24.4	84.2	15.4	25.0	87.0	15.8	25.1
		120	47.6	5.96	22.1	56.7	7.71	22.6	65.9	9.70	23.0	70.5	10.8	23.2	75.1	11.9	23.5	84.2	14.4	23.9	88.4	15.3	24.1
		150	47.6	5.71	21.7	56.7	7.38	22.0	65.9	9.28	22.4	70.5	10.3	22.6	75.1	11.4	22.8	84.2	13.8	23.1	89.3	14.9	23.3
	25	80	47.6	7.84	28.3	56.7	10.2	29.0	65.9	12.9	29.7	70.5	14.4	30.1	75.1	15.9	30.4	81.3	17.9	30.9	83.2	18.0	31.0
		96	47.6	7.42	27.7	56.7	9.65	28.3	65.9	12.2	28.9	70.5	13.6	29.2	75.1	15.0	29.5	82.5	17.4	30.0	84.4	17.5	30.1
		120	47.6	6.97	27.2	56.7	9.05	27.6	65.9	11.4	28.1	70.5	12.7	28.3	75.1	14.1	28.5	83.9	16.8	29.0	85.8	17.0	29.1
		150	47.6	6.69	26.7	56.7	8.67	27.1	65.9	10.9	27.4	70.5	12.2	27.6	75.1	13.5	27.8	84.2	16.3	28.2	86.7	16.6	28.3
	30	80	47.6	9.22	33.4	56.7	12.0	34.1	65.9	15.3	34.8	70.5	17.0	35.2	75.1	18.9	35.6	78.4	19.7	35.9	80.1	19.9	36.0
		96	47.6	8.72	32.8	56.7	11.4	33.4	65.9	14.4	34.0	70.5	16.1	34.3	75.1	17.8	34.6	79.6	19.2	34.9	81.4	19.3	35.0
		120	47.6	8.19	32.2	56.7	10.7	32.7	65.9	13.5	33.2	70.5	15.0	33.4	75.1	16.7	33.7	80.9	18.6	34.0	82.7	18.7	34.0
		150	47.6	7.85	31.8	56.7	10.2	32.1	65.9	12.9	32.5	70.5	14.4	32.7	75.1	15.9	32.9	81.7	18.1	33.2	83.6	18.2	33.2
	35	80	47.6	10.9	38.5	56.7	14.3	39.2	65.9	18.2	40.0	70.5	20.4	40.4	73.1	21.4	40.6	75.0	21.6	40.8	76.6	21.7	40.9
		96	47.6	10.3	37.9	56.7	13.5	38.5	65.9	17.2	39.1	70.5	19.2	39.5	74.2	20.8	39.7	76.1	21.0	39.8	77.8	21.1	39.9
		120	47.6	9.70	37.3	56.7	12.7	37.8	65.9	16.1	38.3	70.5	18.0	38.5	75.1	19.9	38.8	77.4	20.3	38.9	79.1	20.4	39.0
		150	47.6	9.30	36.8	56.7	12.2	37.2	65.9	15.4	37.6	70.5	17.2	37.8	75.1	19.1	38.0	78.2	19.8	38.1	79.9	19.9	38.2
	40	80	47.6	12.5	43.6	56.7	16.6	44.4	58.9	16.9	44.5	59.7	17.0	44.6	60.4	17.1	44.6	61.7	17.2	44.7	62.6	17.2	44.8
		96	47.6	12.0	43.0	56.7	15.9	43.6	63.0	18.6	44.1	63.9	18.6	44.1	64.7	18.7	44.2	66.2	18.9	44.2	67.4	18.9	44.3
		120	47.6	11.5	42.4	56.7	15.2	42.9	65.9	19.3	43.4	67.8	20.0	43.5	68.8	20.1	43.5	70.4	20.2	43.6	71.8	20.3	43.7
		150	47.6	11.0	41.9	56.7	14.5	42.3	65.9	18.5	42.7	69.0	19.7	42.8	69.9	19.8	42.9	71.7	20.0	42.9	73.1	20.1	43.0
	45	80	41.1	11.4	48.1	42.5	11.5	48.2	43.4	11.6	48.3	43.7	11.6	48.3	43.8	11.6	48.3	43.8	11.5	48.3	43.2	11.4	48.3
		96	44.2	12.4	47.8	45.8	12.5	47.9	47.0	12.6	48.0	47.5	12.6	48.0	47.8	12.6	48.0	48.1	12.6	48.0	48.0	12.5	48.0
		120	47.6	13.4	47.4	49.7	13.7	47.5	51.1	13.8	47.6	51.7	13.9	47.6	52.2	13.9	47.6	52.9	13.9	47.7	53.2	13.9	47.7
		150	47.6	13.0	46.9	52.7	14.9	47.2	54.4	15.1	47.2	55.1	15.1	47.2	55.7	15.2	47.3	56.6	15.2	47.3	57.2	15.2	47.3
80	10	80	42.3	5.27	12.8	50.4	6.78	13.4	58.6	8.48	14.0	62.6	9.41	14.3	66.7	10.4	14.6	74.9	12.5	15.2	83.0	14.8	15.8
		96	42.3	5.00	12.4	50.4	6.41	12.8	58.6	8.02	13.3	62.6	8.89	13.6	66.7	9.80	13.8	74.9	11.8	14.3	83.0	13.9	14.8
		120	42.3	4.71	11.9	50.4	6.03	12.2	58.6	7.52	12.6	62.6	8.34	12.8	66.7	9.19	13.0	74.9	11.0	13.4	83.0	13.1	13.8
		150	42.3	4.52	11.5	50.4	5.78	11.8	58.6	7.21	12.1	62.6	7.98	12.2	66.7	8.80	12.4	74.9	10.6	12.7	83.0	12.5	13.0
	15	80	42.3	5.45	17.9	50.4	7.01	18.4	58.6	8.78	19.0	62.6	9.74	19.3	66.7	10.7	19.6	74.9	12.9	20.2	83.0	15.3	20.9
		96	42.3	5.17	17.4	50.4	6.64	17.8	58.6	8.30	18.3	62.6	9.20	18.6	66.7	10.2	18.8	74.9	12.2	19.3	83.0	14.4	19.8
		120	42.3	4.87	16.9	50.4	6.24	17.3	58.6	7.79	17.6	62.6	8.63	17.8	66.7	9.52	18.0	74.9	11.4	18.4	83.0	13.5	18.8
		150	42.3	4.67	16.5	50.4	5.98	16.8	58.6	7.46	17.1	62.6	8.26	17.3	66.7	9.11	17.4	74.9	10.9	17.7	83.0	12.9	18.1
	20	80	42.3	5.66	22.9	50.4	7.28	23.4	58.6	9.12	24.0	62.6	10.1	24.3	66.7	11.2	24.7	74.9	13.4	25.3	83.0	15.9	25.9
		96	42.3	5.37	22.4	50.4	6.89	22.9	58.6	8.62	23.3	62.6	9.56	23.6	66.7	10.5	23.8	74.9	12.7	24.4	83.0	15.0	24.9
		120	42.3	5.05	21.9	50.4	6.48	22.3	58.6	8.09	22.7	62.6	8.97	22.9	66.7	9.89	23.0	74.9	11.9	23.5	83.0	14.1	23.9
		150	42.3	4.85	21.5	50.4	6.21	21.8	58.6	7.75	22.1	62.6	8.58	22.3	66.7	9.47	22.4	74.9	11.4	22.7	83.0	13.4	23.1
	25	80	42.3	6.62	27.9	50.4	8.54	28.5	58.6	10.7	29.1	62.6	11.9	29.5	66.7	13.2	29.8	74.9	15.9	30.4	81.0	17.9	30.9
		96	42.3	6.27	27.4	50.4	8.08	27.9	58.6	10.1	28.4	62.6	11.2	28.7	66.7	12.4	28.9	74.9	15.0	29.5	82.3	17.4	30.0
		120	42.3	5.90	26.9	50.4	7.59	27.3	58.6	9.51	27.7	62.6	10.5	27.9	66.7	11.6	28.1	74.9	14.0	28.5	83.0	16.6	29.0
		150	42.3	5.66	26.5	50.4	7.28	26.8	58.6	9.10	27.2	62.6	10.1	27.3	66.7	11.1	27.5	74.9	13.4	27.8	83.0	15.9	28.1
	30	80	42.3	7.77	33.0	50.4	10.1	33.6	58.6	12.7	34.3	62.6	14.1	34.6	66.7	15.6	34.9	74.9	18.8	35.6	78.1	19.7	35.8
		96	42.3	7.36	32.5	50.4	9.51	33.0	58.6	12.0	33.5	62.6	13.3	33.8	66.7	14.7	34.1	74.9	17.7	34.6	79.3	19.2	34.9
		120	42.3	6.92	32.0	50.4	8.93	32.4	58.6	11.2	32.8	62.6	12.5	33.0	66.7	13.8	33.2	74.9	16.6	33.6	80.6	18.5	33.9
		150	42.3	6.64	31.6	50.4	8.56	31.9	58.6	10.7	32.2	62.6	11.9	32.4	66.7	13.2	32.5	74.9	15.9	32.9	81.5	18.1	33.2
	35	80	42.3	9.18	38.1	50.4	11.9	38.7	58.6	15.1	39.4	62.6	16.8	39.7	66.7	18.6	40.1	73.1	21.4	40.6	74.8	21.5	40.8
		96	42.3	8.69	37.5	50.4	11.3	38.1	58.6	14.2	38.6	62.6	15.8	38.9	66.7	17.5	39.2	74.2	20.8	39.7	75.9	21.0	39.8
		120	42.3	8.17	37.0	50.4	10.6	37.4	58.6	13.3	37.9	62.6	14.9	38.1	66.7	16.4	38.3	74.9	19.9	38.8	77.2	20.3	38.9
		150	42.3	7.83	36.6	50.4	10.1	36.9	58.6	12.8	37.3	62.6	14.2	37.4	66.7	15.7	37.6	74.9	19.0	38.0	77.9	19.8	38.1
	40	80	42.3	10.4	43.1	50.4	13.7	43.8	57.4	16.8	44.4	58.2	16.9	44.5	59.0	17.0	44.5	60.4	17.1	44.6	61.5	17.2	44.7
		96	42.3	10.0	42.6	50.4	13.2	43.2	58.6	16.8	43.7	62.3	18.5	44.0	63.1	18.6	44.1	64.7	18.7	44.2	66.0	18.8	44.2
		120	42.3	9.61	42.1	50.4	12.6	42.5	58.6	16.0	43.0	62.6	17.8	43.2	66.7	19.8	43.4	68.7	20.1	43.5	70.2	20.2	43.6
		150	42.3	9.21	41.6	50.4	12.0	42.0	58.6	15.3	42.4	62.6	17.0	42.5	66.7	18.9	42.7	69.9	19.8	42.9	71.4	20.0	42.9
	45	80	40.0	11.3	48.1	41.6	11.5	48.2	42.7	11.6	48.2	43.1	11.6	48.3	43.4	11.6	48.3	43.8	11.6	48.3	43.8	11.5	48.3
		96	42.3	11.8	47.7	44.7	12.4	47.8	46.1	12.5	47.9	46.6	12.6	47.9	47.1	12.6	48.0	47.8	12.6	48.0	48.1	12.6	48.0
		120	42.3	11.1	47.1	48.4	13.6	47.5	50.0	13.7	47.5	50.7	13.8	47.6	51.2	13.9	47.6	52.2	13.9	47.6	52.8	13.9	47.7
		150	42.3	10.7	46.7	50.4	14.3	47.1	53.1	14.9	47.2	53.8	15.0	47.2	54.5	15.1	47.2	55.6	15.2	47.3	56.5	15.2	47.3

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																				
			14,0			16,0			18,0			19,0			20,0			22,0			24,0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	80	37.0	4.40	12.5	44.1	5.60	13.0	51.2	6.94	13.5	54.8	7.67	13.7	58.4	8.44	14.0	65.5	10.1	14.5	72.6	11.9	15.0
		96	37.0	4.18	12.0	44.1	5.30	12.5	51.2	6.57	12.9	54.8	7.25	13.1	58.4	7.97	13.3	65.5	9.53	13.7	72.6	11.2	14.2
		120	37.0	3.94	11.6	44.1	4.99	12.0	51.2	6.17	12.3	54.8	6.81	12.5	58.4	7.49	12.6	65.5	8.94	13.0	72.6	10.5	13.3
		150	37.0	3.79	11.3	44.1	4.79	11.6	51.2	5.92	11.8	54.8	6.53	12.0	58.4	7.17	12.1	65.5	8.55	12.4	72.6	10.1	12.6
	15	80	37.0	4.56	17.5	44.1	5.79	18.0	51.2	7.18	18.5	54.8	7.94	18.7	58.4	8.73	19.0	65.5	10.4	19.5	72.6	12.3	20.1
		96	37.0	4.32	17.1	44.1	5.49	17.5	51.2	6.79	17.9	54.8	7.51	18.1	58.4	8.25	18.3	65.5	9.86	18.8	72.6	11.6	19.2
		120	37.0	4.08	16.6	44.1	5.16	17.0	51.2	6.39	17.3	54.8	7.05	17.5	58.4	7.75	17.6	65.5	9.25	18.0	72.6	10.9	18.3
		150	37.0	3.92	16.3	44.1	4.95	16.6	51.2	6.12	16.8	54.8	6.75	17.0	58.4	7.42	17.1	65.5	8.85	17.4	72.6	10.4	17.6
	20	80	37.0	4.73	22.5	44.1	6.01	23.0	51.2	7.46	23.5	54.8	8.24	23.8	58.4	9.07	24.0	65.5	10.9	24.6	72.6	12.8	25.1
		96	37.0	4.49	22.1	44.1	5.69	22.5	51.2	7.06	22.9	54.8	7.80	23.1	58.4	8.57	23.3	65.5	10.2	23.8	72.6	12.1	24.2
		120	37.0	4.23	21.6	44.1	5.36	22.0	51.2	6.63	22.3	54.8	7.32	22.5	58.4	8.05	22.6	65.5	9.61	23.0	72.6	11.3	23.3
		150	37.0	4.06	21.3	44.1	5.14	21.6	51.2	6.36	21.8	54.8	7.01	22.0	58.4	7.71	22.1	65.5	9.20	22.4	72.6	10.8	22.7
	25	80	37.0	5.51	27.5	44.1	7.03	28.1	51.2	8.75	28.6	54.8	9.68	28.9	58.4	10.7	29.1	65.5	12.8	29.7	72.6	15.1	30.2
		96	37.0	5.23	27.1	44.1	6.66	27.5	51.2	8.28	28.0	54.8	9.15	28.2	58.4	10.1	28.4	65.5	12.1	28.9	72.6	14.2	29.3
		120	37.0	4.93	26.7	44.1	6.27	27.0	51.2	7.78	27.3	54.8	8.60	27.5	58.4	9.46	27.7	65.5	11.3	28.1	72.6	13.3	28.4
		150	37.0	4.73	26.3	44.1	6.01	26.6	51.2	7.45	26.9	54.8	8.23	27.0	58.4	9.06	27.1	65.5	10.8	27.4	72.6	12.8	27.7
	30	80	37.0	6.45	32.6	44.1	8.26	33.1	51.2	10.3	33.7	54.8	11.4	34.0	58.4	12.6	34.2	65.5	15.1	34.8	72.6	17.9	35.4
		96	37.0	6.11	32.1	44.1	7.82	32.6	51.2	9.75	33.0	54.8	10.8	33.3	58.4	11.9	33.5	65.5	14.3	34.0	72.6	16.9	34.5
		120	37.0	5.76	31.7	44.1	7.35	32.0	51.2	9.15	32.4	54.8	10.1	32.6	58.4	11.2	32.8	65.5	13.4	33.1	72.6	15.8	33.5
		150	37.0	5.53	31.4	44.1	7.05	31.6	51.2	8.77	31.9	54.8	9.70	32.1	58.4	10.7	32.2	65.5	12.8	32.5	72.6	15.1	32.8
	35	80	37.0	7.59	37.7	44.1	9.77	38.2	51.2	12.2	38.8	54.8	13.6	39.1	58.4	15.0	39.4	65.5	18.1	40.0	72.6	21.3	40.6
		96	37.0	7.19	37.2	44.1	9.24	37.7	51.2	11.6	38.1	54.8	12.8	38.4	58.4	14.2	38.6	65.5	17.0	39.1	72.6	20.2	39.6
		120	37.0	6.77	36.7	44.1	8.69	37.1	51.2	10.9	37.5	54.8	12.0	37.7	58.4	13.3	37.9	65.5	16.0	38.2	72.6	18.9	38.6
		150	37.0	6.50	36.4	44.1	8.33	36.7	51.2	10.4	37.0	54.8	11.5	37.1	58.4	12.7	37.3	65.5	15.3	37.6	72.6	18.1	37.9
	40	80	37.0	8.45	42.7	44.1	11.1	43.3	51.2	14.1	43.9	54.8	15.7	44.2	57.3	16.8	44.4	58.8	16.9	44.5	60.0	17.0	44.6
		96	37.0	8.20	42.2	44.1	10.7	42.7	51.2	13.5	43.2	54.8	15.1	43.5	58.4	16.7	43.7	62.9	18.5	44.1	64.3	18.7	44.1
		120	37.0	7.91	41.8	44.1	10.2	42.2	51.2	12.9	42.6	54.8	14.3	42.8	58.4	15.9	43.0	65.5	19.2	43.4	68.3	20.0	43.5
		150	37.0	7.59	41.4	44.1	9.82	41.7	51.2	12.3	42.0	54.8	13.7	42.2	58.4	15.2	42.3	65.5	18.3	42.7	69.4	19.8	42.8
	45	80	37.0	10.2	47.8	40.4	11.4	48.1	41.7	11.5	48.2	42.2	11.5	48.2	42.7	11.6	48.2	43.3	11.6	48.3	43.7	11.6	48.3
		96	37.0	9.51	47.3	43.4	12.3	47.8	44.9	12.4	47.9	45.5	12.5	47.9	46.1	12.5	47.9	47.0	12.6	48.0	47.6	12.6	48.0
		120	37.0	8.95	46.8	44.1	11.9	47.2	48.6	13.6	47.5	49.3	13.7	47.5	49.9	13.7	47.5	51.1	13.8	47.6	52.0	13.9	47.6
		150	37.0	8.69	46.5	44.1	11.5	46.8	51.2	14.7	47.1	52.3	14.9	47.1	53.0	14.9	47.2	54.3	15.1	47.2	55.4	15.1	47.2
60	10	80	31.7	3.62	12.1	37.8	4.53	12.5	43.9	5.56	13.0	47.0	6.12	13.2	50.0	6.70	13.4	56.1	7.95	13.8	62.3	9.32	14.3
		96	31.7	3.44	11.7	37.8	4.30	12.1	43.9	5.27	12.4	47.0	5.79	12.6	50.0	6.34	12.8	56.1	7.52	13.2	62.3	8.80	13.5
		120	31.7	3.25	11.4	37.8	4.06	11.7	43.9	4.96	11.9	47.0	5.45	12.1	50.0	5.96	12.2	56.1	7.06	12.5	62.3	8.26	12.8
		150	31.7	3.13	11.1	37.8	3.90	11.3	43.9	4.76	11.6	47.0	5.23	11.7	50.0	5.72	11.8	56.1	6.76	12.0	62.3	7.91	12.2
	15	80	31.7	3.74	17.1	37.8	4.69	17.5	43.9	5.75	18.0	47.0	6.33	18.2	50.0	6.93	18.4	56.1	8.23	18.8	62.3	9.64	19.3
		96	31.7	3.56	16.8	37.8	4.45	17.1	43.9	5.45	17.5	47.0	5.99	17.6	50.0	6.56	17.8	56.1	7.78	18.2	62.3	9.11	18.6
		120	31.7	3.36	16.4	37.8	4.20	16.7	43.9	5.13	17.0	47.0	5.64	17.1	50.0	6.17	17.2	56.1	7.31	17.5	62.3	8.55	17.8
		150	31.7	3.23	16.1	37.8	4.03	16.3	43.9	4.92	16.6	47.0	5.41	16.7	50.0	5.91	16.8	56.1	7.00	17.0	62.3	8.18	17.2
	20	80	31.7	3.88	22.1	37.8	4.87	22.5	43.9	5.97	23.0	47.0	6.57	23.2	50.0	7.20	23.4	56.1	8.55	23.9	62.3	10.0	24.3
		96	31.7	3.69	21.8	37.8	4.62	22.1	43.9	5.66	22.5	47.0	6.22	22.6	50.0	6.81	22.8	56.1	8.08	23.2	62.3	9.47	23.6
		120	31.7	3.49	21.4	37.8	4.35	21.7	43.9	5.33	22.0	47.0	5.85	22.1	50.0	6.40	22.2	56.1	7.59	22.5	62.3	8.88	22.8
		150	31.7	3.35	21.1	37.8	4.18	21.3	43.9	5.11	21.6	47.0	5.61	21.7	50.0	6.14	21.8	56.1	7.27	22.0	62.3	8.50	22.3
	25	80	31.7	4.51	27.2	37.8	5.68	27.6	43.9	6.99	28.0	47.0	7.70	28.3	50.0	8.44	28.5	56.1	10.0	29.0	62.3	11.8	29.4
		96	31.7	4.29	26.8	37.8	5.39	27.2	43.9	6.62	27.5	47.0	7.29	27.7	50.0	7.99	27.9	56.1	9.49	28.3	62.3	11.1	28.7
		120	31.7	4.05	26.4	37.8	5.08	26.7	43.9	6.23	27.0	47.0	6.85	27.1	50.0	7.51	27.3	56.1	8.91	27.6	62.3	10.4	27.9
		150	31.7	3.89	26.1	37.8	4.87	26.4	43.9	5.97	26.6	47.0	6.57	26.7	50.0	7.19	26.8	56.1	8.54	27.1	62.3	10.00	27.3
	30	80	31.7	5.26	32.2	37.8	6.64	32.7	43.9	8.20	33.1	47.0	9.05	33.3	50.0	9.94	33.6	56.1	11.9	34.1	62.3	13.9	34.6
		96	31.7	4.99	31.8	37.8	6.30	32.2	43.9	7.77	32.6	47.0	8.56	32.8	50.0	9.40	33.0	56.1	11.2	33.4	62.3	13.2	33.8
		120	31.7	4.71	31.5	37.8	5.93	31.7	43.9	7.31	32.0	47.0	8.05	32.2	50.0	8.83	32.3	56.1	10.5	32.7	62.3	12.3	33.0
		150	31.7	4.53	31.2	37.8	5.69	31.4	43.9	7.00	31.6	47.0	7.71	31.7	50.0	8.46	31.9	56.1	10.1	32.1	62.3	11.8	32.4
	35	80	31.7	6.16	37.3	37.8	7.83	37.7	43.9	9.70	38.2	47.0	10.7	38.4	50.0	11.8	38.7	56.1	14.1	39.2	62.3	16.6	39.7
		96	31.7	5.85	36.9	37.8	7.42	37.3	43.9	9.18	37.6	47.0	10.1	37.8	50.0	11.2	38.0	56.1	13.3	38.5	62.3	15.7	38.9
		120	31.7	5.52	36.5	37.8	6.98	36.8	43.9	8.63	37.1	47.0	9.53	37.2	50.0	10.5	37.4	56.1	12.5	37.7	62.3	14.7	38.1
		150	31.7	5.30	36.2	37.8	6.70	36.4	43.9	8.27	36.7	47.0	9.13	36.8	50.0	10.0	36.9	56.1	12.0	37.2	62.3	14.1	37.4
	40	80	31.7	6.74	42.3	37.8	8.74	42.8	43.9	11.0	43.3	47.0	12.2	43.5	50.0	13.5	43.8	56.1	16.4	44.3	58.1	16.9	44.5
		96	31.7	6.58	41.9	37.8	8.47	42.3	43.9	10.6	42.7	47.0	11.8	42.9	50.0	13.0	43.1	56.1	15.7	43.6	62.2	18.5	44.0
		120	31.7	6.38	41.5	37.8	8.16	41.8	43.9	10.2	42.2	47.0	11.3	42.3	50.0	12.4	42.5	56.1	14.9	42.8	62.3	17.6	43.2
		150	31.7	6.14	41.2	37.8	7.83	41.5	43.9	9.75	41.7	47.0	10.8	41.8	50.0	11.9	42.0	56.1	14.3	42.2	62.3	16.8	42.5
	45	80	31.7	7.93	47.4	37.8	10.5	47.9	40.4	11.4	48.1	41.0	11.4	48.1	41.5	11.5	48.2	42.4	11.5	48.2	43.1	11.6	48.3
		96	31.7	7.46	46.9	37.8	9.86	47.4	43.4	12.3	47.8	44.1	12.3	47.8	44.7	12.4	47.8	45.7	12.5	47.9	46.6	12.6	47.9
		120	31.7	7.06	46.5	37.8	9.27	46.9	43.9	11.8	47.2	47.0	13.2	47.4	48.3	13.6	47.5	49.5	13.7	47.5	50.6	13.8	47.6
		150	31.7	6.89	46.2	37.8	9.00	46.5	43.9	11.4	46.8	47.0	12.7	46.9	50.0	14.1	47.0	52.6	14.9	47.1	53.7	15.0	47.2

3 Capacity tables

3 - 2 Cooling capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CWB																					
			14,0			16,0			18,0			19,0			20,0			22,0			24,0			
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	80	26.4	2.92	11.8	31.5	3.59	12.1	36.6	4.34	12.4	39.2	4.75	12.6	41.7	5.17	12.8	46.8	6.08	13.2	51.9	7.07	13.5
		96	26.4	2.78	11.5	31.5	3.42	11.7	36.6	4.12	12.0	39.2	4.51	12.2	41.7	4.91	12.3	46.8	5.76	12.6	51.9	6.69	12.9
		120	26.4	2.64	11.2	31.5	3.23	11.4	36.6	3.89	11.6	39.2	4.25	11.7	41.7	4.62	11.8	46.8	5.42	12.1	51.9	6.28	12.3
		150	26.4	2.54	10.9	31.5	3.11	11.1	36.6	3.74	11.3	39.2	4.08	11.4	41.7	4.43	11.5	46.8	5.20	11.7	51.9	6.02	11.8
	15	80	26.4	3.02	16.8	31.5	3.72	17.1	36.6	4.49	17.5	39.2	4.91	17.6	41.7	5.35	17.8	46.8	6.29	18.2	51.9	7.31	18.5
		96	26.4	2.88	16.5	31.5	3.53	16.7	36.6	4.27	17.0	39.2	4.66	17.2	41.7	5.07	17.3	46.8	5.96	17.6	51.9	6.92	17.9
		120	26.4	2.72	16.2	31.5	3.34	16.4	36.6	4.02	16.6	39.2	4.39	16.7	41.7	4.78	16.9	46.8	5.61	17.1	51.9	6.50	17.3
		150	26.4	2.62	15.9	31.5	3.21	16.1	36.6	3.86	16.3	39.2	4.22	16.4	41.7	4.59	16.5	46.8	5.38	16.7	51.9	6.23	16.9
	20	80	26.4	3.13	21.8	31.5	3.85	22.1	36.6	4.66	22.5	39.2	5.10	22.6	41.7	5.55	22.8	46.8	6.53	23.2	51.9	7.59	23.6
		96	26.4	2.98	21.5	31.5	3.66	21.8	36.6	4.42	22.0	39.2	4.83	22.2	41.7	5.26	22.3	46.8	6.18	22.6	51.9	7.18	22.9
		120	26.4	2.82	21.2	31.5	3.46	21.4	36.6	4.17	21.6	39.2	4.56	21.7	41.7	4.96	21.9	46.8	5.82	22.1	51.9	6.75	22.3
		150	26.4	2.72	20.9	31.5	3.33	21.1	36.6	4.01	21.3	39.2	4.37	21.4	41.7	4.76	21.5	46.8	5.58	21.7	51.9	6.47	21.9
	25	80	26.4	3.62	26.8	31.5	4.48	27.1	36.6	5.43	27.5	39.2	5.95	27.7	41.7	6.49	27.9	46.8	7.65	28.3	51.9	8.91	28.6
		96	26.4	3.45	26.5	31.5	4.26	26.8	36.6	5.16	27.1	39.2	5.64	27.2	41.7	6.15	27.4	46.8	7.24	27.7	51.9	8.43	28.0
		120	26.4	3.27	26.2	31.5	4.02	26.4	36.6	4.86	26.7	39.2	5.32	26.8	41.7	5.79	26.9	46.8	6.81	27.1	51.9	7.92	27.4
		150	26.4	3.14	25.9	31.5	3.86	26.1	36.6	4.67	26.3	39.2	5.10	26.4	41.7	5.56	26.5	46.8	6.53	26.7	51.9	7.59	26.9
	30	80	26.4	4.20	31.8	31.5	5.22	32.2	36.6	6.35	32.6	39.2	6.97	32.8	41.7	7.61	32.9	46.8	9.00	33.3	51.9	10.5	33.7
		96	26.4	4.00	31.5	31.5	4.96	31.8	36.6	6.03	32.1	39.2	6.61	32.3	41.7	7.21	32.4	46.8	8.51	32.8	51.9	9.93	33.1
		120	26.4	3.78	31.2	31.5	4.68	31.4	36.6	5.68	31.7	39.2	6.22	31.8	41.7	6.79	31.9	46.8	8.00	32.2	51.9	9.32	32.4
		150	26.4	3.64	31.0	31.5	4.49	31.1	36.6	5.45	31.3	39.2	5.97	31.4	41.7	6.51	31.5	46.8	7.67	31.7	51.9	8.93	31.9
	35	80	26.4	4.90	36.9	31.5	6.11	37.2	36.6	7.48	37.6	39.2	8.22	37.8	41.7	8.99	38.0	46.8	10.7	38.4	51.9	12.5	38.8
		96	26.4	4.66	36.5	31.5	5.80	36.9	36.6	7.09	37.2	39.2	7.78	37.3	41.7	8.51	37.5	46.8	10.1	37.8	51.9	11.8	38.2
		120	26.4	4.40	36.2	31.5	5.47	36.5	36.6	6.68	36.7	39.2	7.33	36.9	41.7	8.01	37.0	46.8	9.47	37.2	51.9	11.1	37.5
		150	26.4	4.23	36.0	31.5	5.26	36.2	36.6	6.41	36.4	39.2	7.03	36.5	41.7	7.68	36.6	46.8	9.07	36.8	51.9	10.6	37.0
	40	80	26.4	5.23	41.9	31.5	6.68	42.3	36.6	8.32	42.7	39.2	9.21	42.9	41.7	10.1	43.1	46.8	12.2	43.5	51.9	14.4	44.0
		96	26.4	5.15	41.6	31.5	6.53	41.9	36.6	8.08	42.2	39.2	8.92	42.4	41.7	9.80	42.6	46.8	11.7	42.9	51.9	13.8	43.3
		120	26.4	5.03	41.3	31.5	6.33	41.5	36.6	7.79	41.8	39.2	8.58	41.9	41.7	9.41	42.0	46.8	11.2	42.3	51.9	13.1	42.6
		150	26.4	4.85	41.0	31.5	6.09	41.2	36.6	7.48	41.4	39.2	8.23	41.5	41.7	9.03	41.6	46.8	10.7	41.8	51.9	12.6	42.1
	45	80	26.4	5.97	46.9	31.5	7.85	47.4	36.6	10.00	47.8	39.2	11.2	48.0	39.9	11.3	48.1	40.9	11.4	48.1	41.8	11.5	48.2
		96	26.4	5.66	46.6	31.5	7.38	46.9	36.6	9.35	47.3	39.2	10.4	47.5	41.7	11.6	47.7	44.0	12.3	47.8	45.0	12.4	47.9
		120	26.4	5.40	46.3	31.5	6.99	46.5	36.6	8.80	46.8	39.2	9.79	46.9	41.7	10.8	47.1	46.8	13.1	47.4	48.7	13.6	47.5
		150	26.4	5.30	46.0	31.5	6.82	46.2	36.6	8.55	46.4	39.2	9.49	46.5	41.7	10.5	46.7	46.8	12.6	46.9	51.7	14.8	47.1

3 Capacity tables

3 - 3 Heating capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	50	14.8	3.90	6.88	15.4	3.58	6.61	15.9	3.31	6.38	16.2	3.20	6.28	16.4	3.10	6.19	16.7	2.95	6.05
		60	18.4	3.89	6.54	18.8	3.68	6.39	19.1	3.53	6.27	19.3	3.47	6.22	19.4	3.42	6.18	19.6	3.37	6.13
		96	25.5	4.61	6.89	25.6	4.60	6.87	25.6	4.64	6.87	25.6	4.67	6.87	25.6	4.72	6.88	25.5	4.84	6.91
		120	26.8	4.78	7.37	26.9	4.81	7.36	26.9	4.88	7.37	26.9	4.93	7.38	26.8	4.99	7.39	26.7	5.14	7.43
	15	50	26.8	4.73	8.69	26.8	4.76	8.68	26.8	4.83	8.70	26.8	4.88	8.72	26.8	4.93	8.74	26.6	5.08	8.82
		60	27.5	4.74	9.56	27.6	4.79	9.56	27.5	4.87	9.59	27.5	4.93	9.61	27.4	4.99	9.64	27.3	5.15	9.71
		96	29.5	4.81	11.3	29.5	4.89	11.3	29.4	5.01	11.4	29.3	5.08	11.4	29.2	5.15	11.4	29.0	5.33	11.5
		120	30.2	4.85	12.0	30.2	4.94	12.0	30.0	5.06	12.0	30.0	5.14	12.0	29.9	5.22	12.1	29.7	5.41	12.1
	20	50	32.1	4.95	12.2	32.0	5.07	12.3	31.8	5.22	12.4	31.7	5.30	12.4	31.6	5.39	12.5	31.3	5.59	12.6
		60	32.3	4.97	13.5	32.2	5.09	13.5	32.0	5.23	13.6	31.9	5.32	13.6	31.8	5.41	13.7	31.5	5.61	13.8
		96	32.9	5.01	15.8	32.7	5.13	15.9	32.6	5.29	15.9	32.4	5.37	16.0	32.3	5.46	16.0	32.0	5.67	16.1
		120	33.1	5.02	16.7	32.9	5.15	16.7	32.7	5.30	16.7	32.6	5.39	16.7	32.5	5.48	16.8	32.2	5.69	16.8
	25	50	35.3	5.20	16.4	35.1	5.34	16.5	34.9	5.52	16.6	34.8	5.61	16.6	34.6	5.71	16.7	34.3	5.93	16.9
		60	35.6	5.22	17.8	35.4	5.37	17.8	35.1	5.54	17.9	35.0	5.63	18.0	34.8	5.73	18.0	34.5	5.95	18.2
		96	36.2	5.26	20.4	36.0	5.42	20.4	35.7	5.59	20.5	35.6	5.69	20.5	35.4	5.79	20.6	35.1	6.01	20.7
		120	36.4	5.28	21.3	36.2	5.44	21.3	35.9	5.61	21.4	35.7	5.71	21.4	35.6	5.81	21.4	35.2	6.03	21.5
	30	50	38.5	5.47	20.5	38.3	5.64	20.6	38.0	5.83	20.8	37.8	5.93	20.9	37.6	6.03	20.9	35.7	5.65	21.4
		60	38.8	5.50	22.0	38.5	5.66	22.2	38.2	5.85	22.3	38.0	5.95	22.3	37.9	6.06	22.4	35.7	5.58	22.8
		96	39.4	5.55	24.9	39.2	5.72	25.0	38.8	5.91	25.1	38.7	6.01	25.1	38.3	6.06	25.2	35.7	5.43	25.5
		120	39.7	5.57	25.9	39.4	5.74	26.0	39.0	5.93	26.0	38.9	6.03	26.1	38.3	6.00	26.1	35.7	5.38	26.4
	35	50	41.7	5.77	24.7	41.4	5.95	24.8	41.0	6.11	25.0	39.6	5.80	25.3	38.3	5.51	25.6	35.7	4.95	26.2
		60	42.0	5.79	26.3	41.7	5.97	26.5	41.0	6.04	26.7	39.6	5.74	26.9	38.3	5.45	27.1	35.7	4.89	27.6
		96	42.7	5.85	29.5	42.4	6.03	29.6	41.0	5.87	29.8	39.6	5.58	29.9	38.3	5.30	30.1	35.7	4.76	30.4
		120	42.9	5.87	30.6	42.6	6.05	30.6	41.0	5.81	30.8	39.6	5.53	30.9	38.3	5.25	31.1	35.7	4.72	31.3
	40	50	44.9	6.07	28.9	43.6	5.93	29.2	41.0	5.87	29.9	39.6	5.58	30.2	38.3	5.31	30.5	35.7	4.78	31.1
		60	45.2	6.09	30.7	43.6	5.86	31.0	41.0	5.80	31.6	39.6	5.52	31.9	38.3	5.25	32.1	35.7	4.73	32.6
		96	46.0	6.15	34.1	43.6	5.70	34.3	41.0	5.64	34.7	39.6	5.37	34.9	38.3	5.11	35.0	35.7	4.60	35.4
		120	46.2	6.17	35.2	43.6	5.64	35.5	41.0	5.59	35.8	39.6	5.33	35.9	38.3	5.06	36.0	35.7	4.56	36.3
	45	50	46.2	6.02	33.5	43.6	5.78	34.2	41.0	5.66	34.9	39.6	5.39	35.2	38.3	5.13	35.5	35.7	4.63	36.1
		60	46.2	5.96	35.4	43.6	5.71	36.0	41.0	5.60	36.6	39.6	5.34	36.8	38.3	5.08	37.1	35.7	4.59	37.6
		96	46.2	5.79	39.0	43.6	5.55	39.3	41.0	5.45	39.7	39.6	5.19	39.9	38.3	4.95	40.0	35.7	4.47	40.3
		120	46.2	5.74	40.2	43.6	5.50	40.5	41.0	5.40	40.8	39.6	5.15	40.9	38.3	4.90	41.0	35.7	4.43	41.3
120	10	50	15.6	3.48	6.52	16.1	3.25	6.32	16.5	3.07	6.16	16.6	2.99	6.09	16.8	2.93	6.03	17.0	2.85	5.95
		60	18.9	3.62	6.34	19.2	3.49	6.24	19.4	3.41	6.17	19.5	3.38	6.14	19.6	3.37	6.12	19.7	3.37	6.10
		96	25.6	4.61	6.87	25.6	4.66	6.87	25.6	4.74	6.89	25.5	4.79	6.90	25.5	4.86	6.92	25.4	5.01	6.96
		120	26.9	4.83	7.37	26.9	4.91	7.38	26.8	5.02	7.40	26.7	5.08	7.41	26.7	5.16	7.43	26.5	5.34	7.47
	15	50	26.8	4.78	8.68	26.8	4.85	8.71	26.7	4.96	8.76	26.7	5.03	8.79	26.6	5.10	8.83	26.4	5.27	8.93
		60	27.6	4.81	9.57	27.5	4.90	9.60	27.4	5.02	9.65	27.4	5.09	9.68	27.3	5.17	9.72	27.1	5.35	9.81
		96	29.5	4.93	11.3	29.4	5.05	11.4	29.2	5.19	11.4	29.1	5.27	11.4	29.0	5.36	11.5	28.8	5.56	11.5
		120	30.1	4.98	12.0	30.0	5.10	12.0	29.8	5.25	12.1	29.7	5.34	12.1	29.6	5.43	12.1	29.4	5.63	12.2
	20	50	31.9	5.12	12.3	31.7	5.26	12.4	31.5	5.43	12.5	31.4	5.52	12.6	31.3	5.61	12.6	31.0	5.83	12.8
		60	32.1	5.14	13.6	31.9	5.28	13.6	31.7	5.45	13.7	31.6	5.54	13.8	31.5	5.64	13.8	31.2	5.85	13.9
		96	32.7	5.18	15.9	32.5	5.33	15.9	32.3	5.50	16.0	32.1	5.60	16.0	32.0	5.70	16.1	31.7	5.91	16.1
		120	32.9	5.20	16.7	32.7	5.35	16.7	32.4	5.52	16.8	32.3	5.61	16.8	32.2	5.71	16.8	31.9	5.93	16.9
	25	50	35.1	5.40	16.5	34.8	5.57	16.6	34.5	5.75	16.7	34.4	5.85	16.8	34.2	5.95	16.9	32.9	5.77	17.2
		60	35.3	5.42	17.9	35.0	5.59	18.0	34.8	5.77	18.1	34.6	5.87	18.1	34.5	5.98	18.2	32.9	5.70	18.5
		96	35.9	5.48	20.5	35.6	5.65	20.5	35.3	5.83	20.6	35.2	5.93	20.6	35.0	6.04	20.7	32.9	5.54	20.9
		120	36.1	5.50	21.3	35.8	5.67	21.4	35.5	5.85	21.5	35.4	5.95	21.5	35.2	6.06	21.5	32.9	5.49	21.7
	30	50	38.2	5.71	20.7	37.9	5.88	20.8	37.6	6.08	21.0	36.6	5.87	21.2	35.4	5.57	21.5	32.9	5.00	22.0
		60	38.4	5.73	22.2	38.1	5.91	22.3	37.8	6.10	22.4	36.6	5.80	22.6	35.4	5.51	22.9	32.9	4.94	23.3
		96	39.1	5.79	25.0	38.7	5.97	25.1	37.8	5.93	25.2	36.6	5.64	25.4	35.4	5.36	25.5	32.9	4.81	25.8
		120	39.3	5.81	26.0	38.9	5.99	26.1	37.8	5.88	26.2	36.6	5.59	26.3	35.4	5.31	26.4	32.9	4.77	26.6
	35	50	41.3	6.01	24.9	40.2	5.94	25.2	37.8	5.40	25.7	36.6	5.13	26.0	35.4	4.88	26.3	32.9	4.39	26.8
		60	41.6	6.04	26.5	40.2	5.87	26.8	37.8	5.34	27.2	36.6	5.08	27.5	35.4	4.83	27.7	32.9	4.34	28.2
		96	42.2	6.10	29.6	40.2	5.71	29.8	37.8	5.19	30.1	36.6	4.94	30.3	35.4	4.70	30.4	32.9	4.23	30.7
		120	42.4	6.12	30.7	40.2	5.66	30.9	37.8	5.14	31.1	36.6	4.90	31.2	35.4	4.66	31.3	32.9	4.19	31.6
	40	50	42.7	5.73	29.4	40.2	5.71	30.1	37.8	5.20	30.7	36.6	4.96	30.9	35.4	4.72	31.2	32.9	4.26	31.8
		60	42.7	5.67	31.2	40.2	5.65	31.7	37.8	5.15	32.2	36.6	4.90	32.4	35.4	4.67	32.7	32.9	4.21	33.1
		96	42.7	5.51	34.5	40.2	5.49	34.8	37.8	5.01	35.1	36.6	4.77	35.3	35.4	4.54	35.4	32.9	4.10	35.7
		120	42.7	5.46	35.6	40.2	5.45	35.8	37.8	4.96	36.1	36.6	4.73	36.2	35.4	4.50	36.3	32.9	4.07	36.6
	45	50	42.7	5.59	34.4	40.2	5.51	35.0	37.8	5.03	35.6	36.6	4.80	35.9	35.4	4.57	36.2	32.9	4.14	36.7
		60	42.7	5.53	36.1	40.2	5.46	36.7	37.8	4.98	37.2	36.6	4.75	37.4	35.4	4.53	37.6	32.9	4.10	38.1
		96	42.7	5.37	39.4	40.2	5.31	39.8	37.8	4.85	40.1	36.6	4.63	40.2	35.4	4.41	40.4	32.9	4.00	40.7
		120	42.7	5.32	40.5	40.2	5.26	40.8	37.8	4.81	41.1	36.6	4.59	41.2	35.4	4.38	41.3	32.9	3.97	41.5

3 Capacity tables

3 - 3 Heating capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	50	16.3	3.16	6.24	16.6	3.01	6.11	16.8	2.90	6.00	16.9	2.87	5.96	17.0	2.84	5.93	17.2	2.81	5.89
		60	19.3	3.45	6.21	19.5	3.39	6.15	19.6	3.36	6.11	19.7	3.36	6.10	19.7	3.37	6.10	19.7	3.43	6.11
		96	25.6	4.69	6.88	25.6	4.78	6.90	25.5	4.90	6.93	25.4	4.97	6.95	25.3	5.05	6.97	25.1	5.23	7.03
		120	26.8	4.95	7.39	26.8	5.07	7.41	26.6	5.21	7.44	26.5	5.29	7.46	26.5	5.38	7.48	26.2	5.58	7.53
	15	50	26.8	4.90	8.73	26.7	5.01	8.78	26.6	5.15	8.86	26.5	5.23	8.91	26.4	5.32	8.96	26.2	5.51	9.07
		60	27.5	4.95	9.62	27.4	5.07	9.67	27.2	5.22	9.74	27.1	5.30	9.78	27.0	5.39	9.83	26.8	5.60	9.93
		96	29.3	5.11	11.4	29.1	5.25	11.4	29.0	5.41	11.5	28.8	5.51	11.5	28.7	5.60	11.5	28.5	5.82	11.6
		120	29.9	5.17	12.0	29.8	5.32	12.1	29.6	5.49	12.1	29.4	5.58	12.1	29.3	5.68	12.2	29.0	5.89	12.2
	20	50	31.6	5.33	12.5	31.4	5.49	12.6	31.2	5.67	12.7	31.1	5.77	12.7	30.9	5.88	12.8	30.2	5.89	13.0
		60	31.9	5.35	13.7	31.6	5.52	13.8	31.4	5.70	13.9	31.3	5.80	13.9	31.1	5.90	14.0	30.2	5.83	14.2
		96	32.4	5.41	16.0	32.2	5.57	16.0	31.9	5.76	16.1	31.8	5.86	16.1	31.6	5.96	16.2	30.2	5.67	16.3
		120	32.6	5.43	16.8	32.3	5.59	16.8	32.1	5.78	16.9	31.9	5.88	16.9	31.8	5.98	16.9	30.2	5.61	17.1
	25	50	34.7	5.65	16.7	34.4	5.82	16.8	34.1	6.02	16.9	33.5	5.93	17.1	32.4	5.63	17.3	30.2	5.05	17.8
		60	34.9	5.67	18.0	34.7	5.85	18.1	34.4	6.04	18.2	33.5	5.86	18.4	32.4	5.56	18.6	30.2	4.99	19.0
		96	35.5	5.73	20.6	35.2	5.91	20.6	34.7	5.99	20.7	33.5	5.70	20.8	32.4	5.41	21.0	30.2	4.86	21.2
		120	35.7	5.75	21.4	35.4	5.93	21.5	34.7	5.94	21.6	33.5	5.65	21.7	32.4	5.36	21.8	30.2	4.81	22.0
	30	50	37.7	5.97	20.9	36.9	5.94	21.1	34.7	5.40	21.6	33.5	5.13	21.9	32.4	4.88	22.1	30.2	4.39	22.6
		60	38.0	5.99	22.4	36.9	5.87	22.6	34.7	5.34	23.0	33.5	5.08	23.2	32.4	4.83	23.4	30.2	4.34	23.8
		96	38.6	6.06	25.1	36.9	5.71	25.3	34.7	5.19	25.6	33.5	4.94	25.7	32.4	4.70	25.9	30.2	4.23	26.1
		120	38.8	6.08	26.1	36.9	5.66	26.3	34.7	5.14	26.5	33.5	4.90	26.6	32.4	4.66	26.7	30.2	4.19	26.9
	35	50	39.1	5.68	25.4	36.9	5.20	25.9	34.7	4.73	26.4	33.5	4.51	26.7	32.4	4.29	26.9	30.2	3.87	27.5
		60	39.1	5.62	27.0	36.9	5.14	27.4	34.7	4.68	27.8	33.5	4.46	28.1	32.4	4.25	28.3	30.2	3.83	28.7
		96	39.1	5.46	30.0	36.9	5.00	30.2	34.7	4.56	30.5	33.5	4.34	30.6	32.4	4.13	30.8	30.2	3.73	31.0
		120	39.1	5.42	31.0	36.9	4.95	31.2	34.7	4.52	31.4	33.5	4.30	31.5	32.4	4.10	31.6	30.2	3.70	31.8
	40	50	39.1	5.47	30.4	36.9	5.01	30.9	34.7	4.58	31.4	33.5	4.37	31.6	32.4	4.16	31.9	30.2	3.77	32.4
		60	39.1	5.41	32.0	36.9	4.96	32.4	34.7	4.53	32.8	33.5	4.32	33.0	32.4	4.12	33.2	30.2	3.73	33.7
		96	39.1	5.27	34.9	36.9	4.83	35.2	34.7	4.41	35.5	33.5	4.21	35.6	32.4	4.01	35.8	30.2	3.64	36.0
		120	39.1	5.22	36.0	36.9	4.79	36.2	34.7	4.37	36.4	33.5	4.17	36.5	32.4	3.98	36.6	30.2	3.61	36.8
	45	50	39.1	5.29	35.3	36.9	4.86	35.8	34.7	4.44	36.3	33.5	4.24	36.6	32.4	4.05	36.9	30.2	3.67	37.4
		60	39.1	5.23	36.9	36.9	4.81	37.3	34.7	4.40	37.8	33.5	4.20	38.0	32.4	4.01	38.2	30.2	3.64	38.7
		96	39.1	5.09	39.9	36.9	4.68	40.2	34.7	4.29	40.5	33.5	4.10	40.6	32.4	3.91	40.7	30.2	3.55	41.0
		120	39.1	5.05	40.9	36.9	4.64	41.1	34.7	4.25	41.4	33.5	4.06	41.5	32.4	3.88	41.6	30.2	3.52	41.8
100	10	50	16.7	2.94	6.04	16.9	2.87	5.96	17.1	2.82	5.91	17.1	2.81	5.89	17.2	2.81	5.88	17.2	2.84	5.88
		60	19.6	3.37	6.12	19.7	3.36	6.10	19.7	3.39	6.10	19.7	3.42	6.11	19.7	3.45	6.12	19.6	3.54	6.16
		96	25.5	4.85	6.92	25.4	4.97	6.95	25.2	5.12	7.00	25.2	5.21	7.02	25.1	5.30	7.05	24.8	5.50	7.11
		120	26.7	5.15	7.43	26.5	5.29	7.46	26.4	5.46	7.50	26.3	5.55	7.53	26.2	5.65	7.55	25.9	5.86	7.60
	15	50	26.6	5.09	8.83	26.5	5.23	8.91	26.3	5.39	9.00	26.2	5.49	9.06	26.1	5.58	9.12	25.9	5.79	9.25
		60	27.3	5.16	9.71	27.1	5.30	9.78	27.0	5.47	9.87	26.8	5.57	9.92	26.7	5.67	9.97	26.5	5.88	10.1
		96	29.0	5.35	11.5	28.8	5.51	11.5	28.6	5.69	11.6	28.5	5.79	11.6	28.4	5.89	11.6	27.5	5.78	11.8
		120	29.7	5.42	12.1	29.4	5.58	12.1	29.2	5.77	12.2	29.1	5.87	12.2	28.9	5.97	12.3	27.5	5.59	12.4
	20	50	31.3	5.60	12.6	31.1	5.77	12.7	30.8	5.96	12.9	30.5	5.98	13.0	29.5	5.68	13.2	27.5	5.09	13.6
		60	31.5	5.62	13.8	31.3	5.80	13.9	31.0	5.99	14.0	30.5	5.92	14.1	29.5	5.62	14.3	27.5	5.04	14.6
		96	32.0	5.68	16.1	31.8	5.86	16.1	31.5	6.05	16.2	30.5	5.75	16.3	29.5	5.46	16.4	27.5	4.90	16.6
		120	32.2	5.70	16.8	31.9	5.88	16.9	31.5	5.99	17.0	30.5	5.70	17.0	29.5	5.41	17.1	27.5	4.86	17.3
	25	50	34.3	5.94	16.9	33.5	5.93	17.1	31.5	5.38	17.5	30.5	5.12	17.7	29.5	4.87	17.9	27.5	4.38	18.4
		60	34.5	5.96	18.2	33.5	5.86	18.4	31.5	5.32	18.7	30.5	5.07	18.9	29.5	4.81	19.1	27.5	4.33	19.5
		96	35.0	6.02	20.7	33.5	5.70	20.8	31.5	5.18	21.1	30.5	4.93	21.2	29.5	4.68	21.3	27.5	4.22	21.5
		120	35.2	6.04	21.5	33.5	5.64	21.7	31.5	5.13	21.9	30.5	4.88	21.9	29.5	4.64	22.0	27.5	4.18	22.2
	30	50	35.5	5.61	21.4	33.5	5.13	21.9	31.5	4.67	22.3	30.5	4.45	22.5	29.5	4.24	22.8	27.5	3.83	23.2
		60	35.5	5.55	22.8	33.5	5.08	23.2	31.5	4.62	23.6	30.5	4.41	23.8	29.5	4.19	24.0	27.5	3.79	24.3
		96	35.5	5.40	25.5	33.5	4.94	25.7	31.5	4.50	26.0	30.5	4.29	26.1	29.5	4.08	26.2	27.5	3.69	26.5
		120	35.5	5.35	26.4	33.5	4.89	26.6	31.5	4.46	26.8	30.5	4.25	26.9	29.5	4.05	27.0	27.5	3.66	27.2
	35	50	35.5	4.92	26.2	33.5	4.51	26.7	31.5	4.11	27.1	30.5	3.93	27.4	29.5	3.74	27.6	27.5	3.39	28.1
		60	35.5	4.86	27.7	33.5	4.46	28.1	31.5	4.07	28.4	30.5	3.89	28.6	29.5	3.70	28.8	27.5	3.36	29.2
		96	35.5	4.73	30.4	33.5	4.34	30.6	31.5	3.97	30.9	30.5	3.79	31.0	29.5	3.61	31.1	27.5	3.27	31.4
		120	35.5	4.69	31.3	33.5	4.30	31.5	31.5	3.93	31.7	30.5	3.75	31.8	29.5	3.58	31.9	27.5	3.25	32.1
	40	50	35.5	4.78	31.2	33.5	4.38	31.6	31.5	4.00	32.1	30.5	3.82	32.4	29.5	3.64	32.6	27.5	3.30	33.1
		60	35.5	4.73	32.6	33.5	4.33	33.0	31.5	3.96	33.4	30.5	3.78	33.6	29.5	3.61	33.8	27.5	3.27	34.2
		96	35.5	4.60	35.4	33.5	4.22	35.6	31.5	3.86	35.9	30.5	3.68	36.0	29.5	3.51	36.1	27.5	3.19	36.4
		120	35.5	4.56	36.3	33.5	4.18	36.5	31.5	3.83	36.7	30.5	3.65	36.8	29.5	3.49	36.9	27.5	3.16	37.1
	45	50	35.5	4.66	36.1	33.5	4.28	36.6	31.5	3.91	37.1	30.5	3.73	37.3	29.5	3.56	37.6	27.5	3.23	38.1
		60	35.5	4.61	37.6	33.5	4.23	38.0	31.5	3.87	38.4	30.5	3.70	38.6	29.5	3.53	38.8	27.5	3.20	39.2
		96	35.5	4.49	40.4	33.5	4.12	40.6	31.5	3.77	40.9	30.5	3.60	41.0	29.5	3.44	41.1	27.5	3.12	41.4
		120	35.5	4.45	41.3	33.5	4.09	41.5	31.5	3.74	41.7	30.5	3.57	41.8	29.5	3.41	41.9	27.5	3.10	42.1

3 Capacity tables

3 - 3 Heating capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	50	17.1	2.83	5.92	17.2	2.81	5.89	17.2	2.82	5.88	17.2	2.84	5.88	17.2	2.86	5.89	17.2	2.93	5.92
		60	19.7	3.38	6.10	19.7	3.43	6.11	19.7	3.50	6.14	19.6	3.54	6.16	19.6	3.59	6.18	19.5	3.71	6.24
		96	25.3	5.08	6.98	25.1	5.23	7.03	24.9	5.40	7.08	24.8	5.50	7.11	24.7	5.59	7.14	24.5	5.81	7.21
		120	26.4	5.42	7.49	26.2	5.58	7.53	26.0	5.77	7.58	25.9	5.86	7.60	25.8	5.97	7.63	24.7	5.72	7.73
	15	50	26.4	5.35	8.98	26.2	5.51	9.08	26.0	5.70	9.19	25.9	5.79	9.25	25.7	5.90	9.31	24.7	5.68	9.54
		60	27.0	5.43	9.85	26.8	5.60	9.93	26.6	5.78	10.0	26.5	5.88	10.1	26.3	5.99	10.1	24.7	5.45	10.4
		96	28.7	5.64	11.6	28.5	5.82	11.6	28.2	6.01	11.7	27.4	5.78	11.8	26.5	5.49	11.9	24.7	4.92	12.0
		120	29.3	5.72	12.2	29.0	5.90	12.2	28.4	5.87	12.3	27.4	5.58	12.4	26.5	5.30	12.5	24.7	4.76	12.6
	20	50	30.9	5.92	12.8	30.2	5.89	13.0	28.4	5.35	13.4	27.4	5.09	13.6	26.5	4.84	13.8	24.7	4.35	14.2
		60	31.1	5.94	14.0	30.2	5.82	14.2	28.4	5.29	14.5	27.4	5.03	14.6	26.5	4.78	14.8	24.7	4.31	15.1
		96	31.6	6.00	16.2	30.2	5.66	16.3	28.4	5.14	16.5	27.4	4.90	16.6	26.5	4.65	16.7	24.7	4.19	16.9
		120	31.7	6.02	16.9	30.2	5.61	17.1	28.4	5.10	17.2	27.4	4.85	17.3	26.5	4.61	17.4	24.7	4.16	17.5
	25	50	32.0	5.51	17.4	30.2	5.04	17.8	28.4	4.59	18.2	27.4	4.38	18.4	26.5	4.17	18.6	24.7	3.76	19.0
		60	32.0	5.45	18.7	30.2	4.99	19.0	28.4	4.54	19.3	27.4	4.33	19.5	26.5	4.12	19.6	24.7	3.72	20.0
		96	32.0	5.30	21.0	30.2	4.85	21.2	28.4	4.42	21.4	27.4	4.22	21.5	26.5	4.01	21.6	24.7	3.63	21.9
		120	32.0	5.25	21.8	30.2	4.81	22.0	28.4	4.38	22.1	27.4	4.18	22.2	26.5	3.98	22.3	24.7	3.60	22.5
	30	50	32.0	4.78	22.2	30.2	4.39	22.6	28.4	4.01	23.0	27.4	3.82	23.2	26.5	3.65	23.4	24.7	3.30	23.9
		60	32.0	4.73	23.5	30.2	4.34	23.8	28.4	3.97	24.2	27.4	3.78	24.3	26.5	3.61	24.5	24.7	3.27	24.9
		96	32.0	4.60	25.9	30.2	4.22	26.1	28.4	3.86	26.3	27.4	3.69	26.5	26.5	3.52	26.6	24.7	3.19	26.8
		120	32.0	4.56	26.7	30.2	4.19	26.9	28.4	3.83	27.1	27.4	3.66	27.2	26.5	3.49	27.2	24.7	3.17	27.4
	35	50	32.0	4.21	27.0	30.2	3.87	27.5	28.4	3.54	27.9	27.4	3.39	28.1	26.5	3.23	28.3	24.7	2.94	28.8
		60	32.0	4.16	28.4	30.2	3.83	28.7	28.4	3.51	29.1	27.4	3.35	29.2	26.5	3.20	29.4	24.7	2.91	29.8
		96	32.0	4.06	30.8	30.2	3.73	31.1	28.4	3.42	31.3	27.4	3.27	31.4	26.5	3.12	31.5	24.7	2.84	31.7
		120	32.0	4.02	31.7	30.2	3.70	31.8	28.4	3.39	32.0	27.4	3.24	32.1	26.5	3.10	32.2	24.7	2.82	32.4
	40	50	32.0	4.08	32.0	30.2	3.76	32.4	28.4	3.45	32.9	27.4	3.30	33.1	26.5	3.15	33.3	24.7	2.87	33.7
		60	32.0	4.04	33.3	30.2	3.73	33.7	28.4	3.42	34.0	27.4	3.27	34.2	26.5	3.12	34.4	24.7	2.84	34.8
		96	32.0	3.94	35.8	30.2	3.63	36.0	28.4	3.33	36.3	27.4	3.19	36.4	26.5	3.05	36.5	24.7	2.77	36.7
		120	32.0	3.91	36.6	30.2	3.60	36.8	28.4	3.31	37.0	27.4	3.16	37.1	26.5	3.02	37.2	24.7	2.75	37.4
	45	50	32.0	3.98	37.0	30.2	3.67	37.4	28.4	3.37	37.8	27.4	3.22	38.1	26.5	3.07	38.3	24.7	2.80	38.7
		60	32.0	3.94	38.3	30.2	3.63	38.7	28.4	3.33	39.0	27.4	3.19	39.2	26.5	3.04	39.4	24.7	2.77	39.8
		96	32.0	3.84	40.8	30.2	3.54	41.0	28.4	3.25	41.3	27.4	3.11	41.4	26.5	2.97	41.5	24.7	2.70	41.7
		120	32.0	3.49	41.6	30.2	3.51	41.8	28.4	3.22	42.0	27.4	3.08	42.1	26.5	2.95	42.2	24.7	2.68	42.4
80	10	50	17.2	2.82	5.88	17.2	2.85	5.88	17.2	2.91	5.91	17.2	2.94	5.92	17.1	2.98	5.95	17.0	3.08	6.00
		60	19.7	3.49	6.14	19.6	3.57	6.17	19.5	3.67	6.22	19.4	3.73	6.25	19.4	3.80	6.28	19.2	3.94	6.35
		96	25.0	5.40	7.08	24.8	5.56	7.13	24.6	5.75	7.19	24.4	5.81	7.23	23.6	5.51	7.30	22.0	4.94	7.46
		120	26.0	5.76	7.58	25.8	5.93	7.62	25.2	5.90	7.69	24.4	5.60	7.76	23.6	5.32	7.82	22.0	4.78	7.95
	15	50	26.0	5.69	9.18	25.8	5.86	9.29	25.2	5.85	9.45	24.4	5.57	9.60	23.6	5.28	9.75	22.0	4.74	10.1
		60	26.6	5.77	10.0	26.4	5.95	10.1	25.2	5.62	10.3	24.4	5.34	10.4	23.6	5.08	10.6	22.0	4.56	10.8
		96	28.2	6.00	11.7	26.8	5.58	11.8	25.2	5.07	12.0	24.4	4.83	12.1	23.6	4.59	12.2	22.0	4.14	12.3
		120	28.4	5.90	12.3	26.8	5.39	12.4	25.2	4.90	12.6	24.4	4.67	12.6	23.6	4.44	12.7	22.0	4.00	12.9
	20	50	28.4	5.37	13.4	26.8	4.92	13.7	25.2	4.48	14.1	24.4	4.27	14.2	23.6	4.07	14.4	22.0	3.67	14.8
		60	28.4	5.31	14.5	26.8	4.86	14.8	25.2	4.43	15.0	24.4	4.23	15.2	23.6	4.02	15.3	22.0	3.64	15.6
		96	28.4	5.17	16.5	26.8	4.73	16.7	25.2	4.31	16.9	24.4	4.11	17.0	23.6	3.92	17.1	22.0	3.54	17.3
		120	28.4	5.12	17.2	26.8	4.69	17.4	25.2	4.28	17.5	24.4	4.08	17.6	23.6	3.89	17.6	22.0	3.51	17.8
	25	50	28.4	4.61	18.2	26.8	4.23	18.5	25.2	3.87	18.9	24.4	3.69	19.1	23.6	3.52	19.3	22.0	3.19	19.6
		60	28.4	4.56	19.3	26.8	4.19	19.6	25.2	3.83	19.9	24.4	3.66	20.0	23.6	3.49	20.2	22.0	3.16	20.5
		96	28.4	4.44	21.4	26.8	4.08	21.6	25.2	3.73	21.8	24.4	3.56	21.9	23.6	3.40	22.0	22.0	3.09	22.2
		120	28.4	4.40	22.1	26.8	4.04	22.3	25.2	3.70	22.4	24.4	3.53	22.5	23.6	3.37	22.6	22.0	3.06	22.7
	30	50	28.4	4.02	23.0	26.8	3.70	23.4	25.2	3.39	23.7	24.4	3.25	23.9	23.6	3.10	24.1	22.0	2.82	24.5
		60	28.4	3.98	24.2	26.8	3.66	24.5	25.2	3.36	24.8	24.4	3.21	24.9	23.6	3.07	25.1	22.0	2.80	25.4
		96	28.4	3.88	26.3	26.8	3.57	26.5	25.2	3.28	26.7	24.4	3.14	26.8	23.6	3.00	26.9	22.0	2.73	27.1
		120	28.4	3.85	27.1	26.8	3.54	27.2	25.2	3.25	27.4	24.4	3.11	27.5	23.6	2.97	27.5	22.0	2.71	27.7
	35	50	28.4	3.56	27.9	26.8	3.28	28.3	25.2	3.02	28.6	24.4	2.89	28.8	23.6	2.77	29.0	22.0	2.53	29.4
		60	28.4	3.52	29.0	26.8	3.25	29.4	25.2	2.99	29.7	24.4	2.86	29.9	23.6	2.74	30.0	22.0	2.50	30.4
		96	28.4	3.43	31.3	26.8	3.17	31.5	25.2	2.92	31.7	24.4	2.80	31.8	23.6	2.68	31.9	22.0	2.45	32.1
		120	28.4	3.41	32.0	26.8	3.15	32.2	25.2	2.90	32.3	24.4	2.78	32.4	23.6	2.66	32.5	22.0	2.43	32.7
	40	50	28.4	3.47	32.8	26.8	3.20	33.2	25.2	2.94	33.6	24.4	2.82	33.8	23.6	2.70	34.0	22.0	2.46	34.4
		60	28.4	3.43	34.0	26.8	3.17	34.4	25.2	2.91	34.7	24.4	2.79	34.8	23.6	2.67	35.0	22.0	2.44	35.3
		96	28.4	3.35	36.3	26.8	3.09	36.5	25.2	2.85	36.7	24.4	2.73	36.8	23.6	2.61	36.9	22.0	2.39	37.1
		120	28.4	3.32	37.0	26.8	3.07	37.2	25.2	2.82	37.3	24.4	2.71	37.4	23.6	2.59	37.5	22.0	2.37	37.7
	45	50	28.4	3.38	37.8	26.8	3.12	38.2	25.2	2.87	38.6	24.4	2.75	38.8	23.6	2.63	39.0	22.0	2.40	39.4
		60	28.4	3.35	39.0	26.8	3.09	39.3	25.2	2.84	39.7	24.4	2.72	39.8	23.6	2.61	40.0	22.0	2.38	40.3
		96	28.4	3.27	41.2	26.8	3.01	41.4	25.2	2.77	41.7	24.4	2.66	41.8	23.6	2.55	41.9	22.0	2.33	42.1
		120	28.4	3.24	42.0	26.8	2.99	42.2	25.2	2.75	42.3	24.4	2.64	42.4	23.6	2.53	42.5	22.0	2.31	42.7

3 Capacity tables

3 - 3 Heating capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	50	17.2	2.92	5.91	17.1	2.99	5.95	17.0	3.07	6.00	17.0	3.12	6.03	16.9	3.17	6.06	16.8	3.29	6.13
		60	19.5	3.70	6.23	19.4	3.80	6.28	19.2	3.93	6.35	19.1	4.00	6.38	19.1	4.07	6.42	18.9	4.22	6.50
		96	24.5	5.78	7.20	23.5	5.47	7.31	22.1	4.98	7.45	21.3	4.74	7.52	20.6	4.50	7.59	19.2	4.05	7.74
		120	24.9	5.78	7.72	23.5	5.28	7.83	22.1	4.81	7.94	21.3	4.58	8.00	20.6	4.36	8.06	19.2	3.93	8.17
	15	50	24.9	5.74	9.51	23.5	5.25	9.78	22.1	4.77	10.0	21.3	4.55	10.2	20.6	4.33	10.3	19.2	3.90	10.6
		60	24.9	5.51	10.4	23.5	5.04	10.6	22.1	4.59	10.8	21.3	4.37	10.9	20.6	4.16	11.1	19.2	3.76	11.3
		96	24.9	4.98	12.0	23.5	4.56	12.2	22.1	4.16	12.3	21.3	3.97	12.4	20.6	3.78	12.5	19.2	3.42	12.6
		120	24.9	4.81	12.6	23.5	4.41	12.7	22.1	4.03	12.8	21.3	3.84	12.9	20.6	3.66	13.0	19.2	3.32	13.1
	20	50	24.9	4.40	14.1	23.5	4.04	14.4	22.1	3.69	14.7	21.3	3.53	14.9	20.6	3.37	15.1	19.2	3.06	15.4
		60	24.9	4.35	15.1	23.5	4.00	15.3	22.1	3.66	15.6	21.3	3.49	15.7	20.6	3.33	15.9	19.2	3.03	16.1
		96	24.9	4.24	16.9	23.5	3.89	17.1	22.1	3.56	17.2	21.3	3.41	17.3	20.6	3.25	17.4	19.2	2.95	17.6
		120	24.9	4.20	17.5	23.5	3.86	17.7	22.1	3.53	17.8	21.3	3.38	17.9	20.6	3.22	17.9	19.2	2.93	18.1
	25	50	24.9	3.80	19.0	23.5	3.50	19.3	22.1	3.21	19.6	21.3	3.07	19.8	20.6	2.94	19.9	19.2	2.68	20.3
		60	24.9	3.76	20.0	23.5	3.46	20.2	22.1	3.18	20.5	21.3	3.04	20.6	20.6	2.91	20.8	19.2	2.65	21.0
		96	24.9	3.66	21.8	23.5	3.38	22.0	22.1	3.10	22.2	21.3	2.97	22.3	20.6	2.84	22.3	19.2	2.59	22.5
		120	24.9	3.63	22.5	23.5	3.35	22.6	22.1	3.08	22.7	21.3	2.95	22.8	20.6	2.82	22.9	19.2	2.57	23.0
	30	50	24.9	3.34	23.8	23.5	3.08	24.2	22.1	2.84	24.5	21.3	2.72	24.7	20.6	2.61	24.8	19.2	2.38	25.2
		60	24.9	3.30	24.8	23.5	3.05	25.1	22.1	2.81	25.4	21.3	2.69	25.5	20.6	2.58	25.7	19.2	2.36	26.0
		96	24.9	3.22	26.8	23.5	2.98	26.9	22.1	2.74	27.1	21.3	2.63	27.2	20.6	2.52	27.3	19.2	2.31	27.5
		120	24.9	3.20	27.4	23.5	2.95	27.5	22.1	2.72	27.7	21.3	2.61	27.8	20.6	2.50	27.8	19.2	2.29	28.0
	35	50	24.9	2.97	28.7	23.5	2.75	29.1	22.1	2.54	29.4	21.3	2.44	29.6	20.6	2.34	29.8	19.2	2.15	30.1
		60	24.9	2.94	29.8	23.5	2.72	30.0	22.1	2.52	30.3	21.3	2.42	30.5	20.6	2.32	30.6	19.2	2.13	30.9
		96	24.9	2.87	31.7	23.5	2.66	31.9	22.1	2.46	32.1	21.3	2.36	32.2	20.6	2.27	32.3	19.2	2.09	32.4
		120	24.9	2.85	32.4	23.5	2.64	32.5	22.1	2.44	32.7	21.3	2.35	32.7	20.6	2.25	32.8	19.2	2.07	33.0
	40	50	24.9	2.89	33.7	23.5	2.68	34.0	22.1	2.48	34.4	21.3	2.38	34.6	20.6	2.28	34.7	19.2	2.10	35.1
		60	24.9	2.87	34.7	23.5	2.66	35.0	22.1	2.45	35.3	21.3	2.36	35.5	20.6	2.26	35.6	19.2	2.08	35.9
		96	24.9	2.80	36.7	23.5	2.59	36.9	22.1	2.40	37.1	21.3	2.30	37.2	20.6	2.21	37.2	19.2	2.03	37.4
		120	24.9	2.78	37.4	23.5	2.58	37.5	22.1	2.38	37.7	21.3	2.29	37.7	20.6	2.20	37.8	19.2	2.02	37.9
	45	50	24.9	2.82	38.7	23.5	2.61	39.0	22.1	2.41	39.4	21.3	2.32	39.5	20.6	2.22	39.7	19.2	2.04	40.1
		60	24.9	2.80	39.7	23.5	2.59	40.0	22.1	2.39	40.3	21.3	2.30	40.5	20.6	2.21	40.6	19.2	2.03	40.9
		96	24.9	2.73	41.7	23.5	2.53	41.9	22.1	2.34	42.1	21.3	2.25	42.1	20.6	2.16	42.2	19.2	1.98	42.4
		120	24.9	2.71	42.4	23.5	2.51	42.5	22.1	2.32	42.6	21.3	2.23	42.7	20.6	2.14	42.8	19.2	1.97	42.9
60	10	50	17.0	3.12	6.03	16.9	3.22	6.08	16.8	3.32	6.15	16.7	3.38	6.19	16.6	3.44	6.22	16.4	3.57	6.31
		60	19.1	4.00	6.38	19.0	4.12	6.45	18.8	4.26	6.52	18.3	4.08	6.61	17.7	3.88	6.70	16.5	3.48	6.90
		96	21.3	4.73	7.52	20.1	4.34	7.64	18.9	3.96	7.77	18.3	3.78	7.83	17.7	3.60	7.90	16.5	3.26	8.03
		120	21.3	4.58	8.00	20.1	4.20	8.10	18.9	3.84	8.20	18.3	3.66	8.25	17.7	3.50	8.31	16.5	3.17	8.41
	15	50	21.3	4.54	10.2	20.1	4.17	10.4	18.9	3.81	10.7	18.3	3.64	10.8	17.7	3.47	10.9	16.5	3.15	11.2
		60	21.3	4.37	10.9	20.1	4.01	11.2	18.9	3.67	11.4	18.3	3.51	11.5	17.7	3.35	11.6	16.5	3.04	11.8
		96	21.3	3.96	12.4	20.1	3.65	12.5	18.9	3.34	12.7	18.3	3.20	12.7	17.7	3.06	12.8	16.5	2.78	13.0
		120	21.3	3.84	12.9	20.1	3.53	13.0	18.9	3.24	13.1	18.3	3.10	13.2	17.7	2.97	13.2	16.5	2.70	13.4
	20	50	21.3	3.53	14.9	20.1	3.25	15.2	18.9	2.99	15.4	18.3	2.86	15.6	17.7	2.74	15.7	16.5	2.50	16.0
		60	21.3	3.49	15.7	20.1	3.22	16.0	18.9	2.96	16.2	18.3	2.84	16.3	17.7	2.71	16.4	16.5	2.48	16.7
		96	21.3	3.40	17.3	20.1	3.14	17.5	18.9	2.89	17.6	18.3	2.77	17.7	17.7	2.65	17.8	16.5	2.42	17.9
		120	21.3	3.37	17.9	20.1	3.12	18.0	18.9	2.87	18.1	18.3	2.75	18.1	17.7	2.63	18.2	16.5	2.41	18.3
	25	50	21.3	3.07	19.8	20.1	2.84	20.0	18.9	2.62	20.3	18.3	2.52	20.5	17.7	2.41	20.6	16.5	2.21	20.9
		60	21.3	3.04	20.6	20.1	2.82	20.9	18.9	2.60	21.1	18.3	2.49	21.2	17.7	2.39	21.3	16.5	2.19	21.6
		96	21.3	2.97	22.3	20.1	2.75	22.4	18.9	2.54	22.6	18.3	2.44	22.6	17.7	2.34	22.7	16.5	2.15	22.9
		120	21.3	2.95	22.8	20.1	2.73	22.9	18.9	2.52	23.0	18.3	2.42	23.1	17.7	2.32	23.2	16.5	2.13	23.3
	30	50	21.3	2.72	24.7	20.1	2.52	25.0	18.9	2.34	25.3	18.3	2.25	25.4	17.7	2.16	25.5	16.5	1.99	25.8
		60	21.3	2.69	25.5	20.1	2.50	25.8	18.9	2.32	26.0	18.3	2.23	26.2	17.7	2.14	26.3	16.5	1.97	26.5
		96	21.3	2.63	27.2	20.1	2.44	27.4	18.9	2.27	27.5	18.3	2.18	27.6	17.7	2.09	27.7	16.5	1.93	27.8
		120	21.3	2.61	27.8	20.1	2.43	27.9	18.9	2.25	28.0	18.3	2.16	28.1	17.7	2.08	28.1	16.5	1.92	28.3
	35	50	21.3	2.44	29.6	20.1	2.27	29.9	18.9	2.11	30.2	18.3	2.03	30.3	17.7	1.95	30.5	16.5	1.81	30.8
		60	21.3	2.42	30.5	20.1	2.25	30.7	18.9	2.09	31.0	18.3	2.01	31.1	17.7	1.94	31.2	16.5	1.79	31.5
		96	21.3	2.36	32.2	20.1	2.20	32.3	18.9	2.05	32.5	18.3	1.97	32.6	17.7	1.90	32.6	16.5	1.76	32.8
		120	21.3	2.35	32.7	20.1	2.19	32.9	18.9	2.03	33.0	18.3	1.96	33.0	17.7	1.89	33.1	16.5	1.75	33.2
	40	50	21.3	2.38	34.6	20.1	2.21	34.9	18.9	2.06	35.2	18.3	1.98	35.3	17.7	1.91	35.5	16.5	1.76	35.8
		60	21.3	2.36	35.5	20.1	2.19	35.7	18.9	2.04	36.0	18.3	1.96	36.1	17.7	1.89	36.2	16.5	1.75	36.5
		96	21.3	2.30	37.2	20.1	2.15	37.3	18.9	2.00	37.5	18.3	1.92	37.6	17.7	1.85	37.6	16.5	1.72	37.8
		120	21.3	2.29	37.7	20.1	2.13	37.9	18.9	1.98	38.0	18.3	1.91	38.0	17.7	1.84	38.1	16.5	1.70	38.2
	45	50	21.3	2.32	39.5	20.1	2.16	39.9	18.9	2.00	40.2	18.3	1.93	40.3	17.7	1.86	40.5	16.5	1.72	40.8
		60	21.3	2.30	40.5	20.1	2.14	40.7	18.9	1.99	41.0	18.3	1.91	41.1	17.7	1.84	41.2	16.5	1.71	41.5
		96	21.3	2.25	42.2	20.1	2.09	42.3	18.9	1.95	42.5	18.3	1.88	42.5	17.7	1.81	42.6	16.5	1.67	42.8
		120	21.3	2.23	42.7	20.1	2.08	42.8	18.9	1.93	43.0	18.3	1.86	43.0	17.7	1.79	43.1	16.5	1.66	43.2

3 Capacity tables

3 - 3 Heating capacity tables

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	50	16.6	3.43	6.22	16.5	3.53	6.29	15.8	3.34	6.44	15.2	3.18	6.54	14.7	3.02	6.64	13.7	2.71	6.84
		60	17.8	3.91	6.69	16.8	3.57	6.85	15.8	3.25	7.01	15.2	3.10	7.10	14.7	2.95	7.18	13.7	2.66	7.36
		96	17.8	3.62	7.89	16.8	3.34	8.00	15.8	3.06	8.11	15.2	2.93	8.16	14.7	2.80	8.22	13.7	2.56	8.33
		120	17.8	3.52	8.30	16.8	3.25	8.39	15.8	2.99	8.48	15.2	2.86	8.52	14.7	2.74	8.57	13.7	2.50	8.66
	15	50	17.8	3.49	10.9	16.8	3.22	11.1	15.8	2.96	11.3	15.2	2.84	11.4	14.7	2.72	11.6	13.7	2.48	11.8
		60	17.8	3.37	11.6	16.8	3.11	11.7	15.8	2.86	11.9	15.2	2.74	12.0	14.7	2.63	12.1	13.7	2.40	12.3
		96	17.8	3.08	12.8	16.8	2.85	12.9	15.8	2.63	13.0	15.2	2.52	13.1	14.7	2.42	13.2	13.7	2.21	13.3
		120	17.8	2.99	13.2	16.8	2.76	13.3	15.8	2.55	13.4	15.2	2.45	13.5	14.7	2.35	13.5	13.7	2.16	13.6
	20	50	17.8	2.76	15.7	16.8	2.56	15.9	15.8	2.37	16.2	15.2	2.28	16.3	14.7	2.18	16.4	13.7	2.01	16.6
		60	17.8	2.73	16.4	16.8	2.54	16.6	15.8	2.35	16.8	15.2	2.26	16.9	14.7	2.17	17.0	13.7	1.99	17.2
		96	17.8	2.67	17.7	16.8	2.48	17.9	15.8	2.29	18.0	15.2	2.21	18.1	14.7	2.12	18.1	13.7	1.95	18.2
		120	17.8	2.65	18.2	16.8	2.46	18.3	15.8	2.28	18.4	15.2	2.19	18.4	14.7	2.11	18.5	13.7	1.94	18.6
	25	50	17.8	2.43	20.6	16.8	2.26	20.8	15.8	2.10	21.1	15.2	2.02	21.2	14.7	1.95	21.3	13.7	1.80	21.6
		60	17.8	2.41	21.3	16.8	2.24	21.5	15.8	2.08	21.7	15.2	2.01	21.8	14.7	1.93	21.9	13.7	1.79	22.1
		96	17.8	2.35	22.7	16.8	2.19	22.8	15.8	2.04	23.0	15.2	1.96	23.0	14.7	1.89	23.1	13.7	1.75	23.2
		120	17.8	2.34	23.2	16.8	2.18	23.3	15.8	2.02	23.4	15.2	1.95	23.4	14.7	1.88	23.5	13.7	1.74	23.6
	30	50	17.8	2.17	25.5	16.8	2.03	25.8	15.8	1.89	26.0	15.2	1.82	26.2	14.7	1.76	26.3	13.7	1.63	26.5
		60	17.8	2.15	26.3	16.8	2.01	26.5	15.8	1.88	26.7	15.2	1.81	26.8	14.7	1.75	26.9	13.7	1.62	27.1
		96	17.8	2.11	27.7	16.8	1.97	27.8	15.8	1.84	27.9	15.2	1.77	28.0	14.7	1.71	28.1	13.7	1.59	28.2
		120	17.8	2.09	28.1	16.8	1.96	28.2	15.8	1.83	28.3	15.2	1.76	28.4	14.7	1.70	28.4	13.7	1.58	28.5
	35	50	17.8	1.97	30.5	16.8	1.84	30.7	15.8	1.72	31.0	15.2	1.67	31.1	14.7	1.61	31.2	13.7	1.50	31.5
		60	17.8	1.95	31.2	16.8	1.83	31.4	15.8	1.71	31.6	15.2	1.65	31.8	14.7	1.60	31.9	13.7	1.49	32.1
		96	17.8	1.91	32.6	16.8	1.79	32.8	15.8	1.68	32.9	15.2	1.62	33.0	14.7	1.57	33.0	13.7	1.46	33.2
		120	17.8	1.90	33.1	16.8	1.78	33.2	15.8	1.67	33.3	15.2	1.61	33.4	14.7	1.56	33.4	13.7	1.46	33.5
	40	50	17.8	1.92	35.5	16.8	1.80	35.7	15.8	1.68	36.0	15.2	1.62	36.1	14.7	1.57	36.2	13.7	1.46	36.5
		60	17.8	1.90	36.2	16.8	1.78	36.4	15.8	1.67	36.6	15.2	1.61	36.7	14.7	1.56	36.9	13.7	1.45	37.1
		96	17.8	1.86	37.6	16.8	1.75	37.8	15.8	1.64	37.9	15.2	1.58	38.0	14.7	1.53	38.0	13.7	1.43	38.2
		120	17.8	1.85	38.1	16.8	1.74	38.2	15.8	1.63	38.3	15.2	1.57	38.4	14.7	1.52	38.4	13.7	1.42	38.5
	45	50	17.8	1.87	40.4	16.8	1.75	40.7	15.8	1.64	41.0	15.2	1.58	41.1	14.7	1.53	41.2	13.7	1.43	41.5
		60	17.8	1.85	41.2	16.8	1.74	41.4	15.8	1.63	41.6	15.2	1.57	41.7	14.7	1.52	41.8	13.7	1.42	42.1
		96	17.8	1.82	42.6	16.8	1.70	42.8	15.8	1.60	42.9	15.2	1.54	43.0	14.7	1.49	43.0	13.7	1.39	43.2
		120	17.8	1.80	43.1	16.8	1.69	43.2	15.8	1.59	43.3	15.2	1.53	43.4	14.7	1.48	43.4	13.7	1.38	43.5

3 Capacity tables

3 - 3 Heating capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	50	29.6	7.80	6.88	30.8	7.16	6.61	31.9	6.62	6.38	32.4	6.40	6.28	32.8	6.20	6.19	33.5	5.90	6.05
		60	36.7	7.79	6.54	37.6	7.37	6.39	38.3	7.05	6.27	38.6	6.94	6.22	38.8	6.84	6.18	39.2	6.74	6.13
		96	50.9	9.21	6.89	51.1	9.20	6.87	51.2	9.28	6.87	51.2	9.35	6.87	51.2	9.44	6.88	51.0	9.68	6.91
		120	53.7	9.57	7.37	53.8	9.63	7.36	53.8	9.76	7.37	53.7	9.86	7.38	53.6	9.98	7.39	53.4	10.3	7.43
	15	50	53.5	9.46	8.69	53.6	9.52	8.68	53.6	9.65	8.70	53.6	9.75	8.72	53.5	9.87	8.74	53.3	10.2	8.82
		60	55.1	9.49	9.56	55.1	9.58	9.56	55.1	9.74	9.59	55.0	9.85	9.61	54.9	9.98	9.64	54.6	10.3	9.71
		96	59.0	9.63	11.3	59.0	9.79	11.3	58.8	10.0	11.4	58.7	10.2	11.4	58.5	10.3	11.4	58.1	10.7	11.5
		120	60.4	9.70	12.0	60.3	9.88	12.0	60.1	10.1	12.0	59.9	10.3	12.0	59.8	10.4	12.1	59.3	10.8	12.1
	20	50	64.1	9.91	12.2	63.9	10.1	12.3	63.6	10.4	12.4	63.4	10.6	12.4	63.2	10.8	12.5	62.6	11.2	12.6
		60	64.6	9.94	13.5	64.3	10.2	13.5	64.0	10.5	13.6	63.8	10.6	13.6	63.6	10.8	13.7	63.0	11.2	13.8
		96	65.7	10.0	15.8	65.5	10.3	15.9	65.1	10.6	15.9	64.9	10.7	16.0	64.6	10.9	16.0	64.1	11.3	16.1
		120	66.1	10.0	16.7	65.8	10.3	16.7	65.5	10.6	16.7	65.2	10.8	16.7	65.0	11.0	16.8	64.4	11.4	16.8
	25	50	70.6	10.4	16.4	70.3	10.7	16.5	69.8	11.0	16.6	69.5	11.2	16.6	69.2	11.4	16.7	68.6	11.9	16.9
		60	71.1	10.4	17.8	70.7	10.7	17.8	70.2	11.1	17.9	70.0	11.3	18.0	69.7	11.5	18.0	69.0	11.9	18.2
		96	72.3	10.5	20.4	71.9	10.8	20.4	71.4	11.2	20.5	71.1	11.4	20.5	70.8	11.6	20.6	70.1	12.0	20.7
		120	72.7	10.6	21.3	72.3	10.9	21.3	71.8	11.2	21.4	71.5	11.4	21.4	71.2	11.6	21.4	70.5	12.1	21.5
	30	50	77.1	10.9	20.5	76.6	11.3	20.6	75.9	11.7	20.8	75.6	11.9	20.9	75.2	12.1	20.9	71.4	11.3	21.4
		60	77.6	11.0	22.0	77.0	11.3	22.2	76.4	11.7	22.3	76.1	11.9	22.3	75.7	12.1	22.4	71.4	11.2	22.8
		96	78.9	11.1	24.9	78.3	11.4	25.0	77.7	11.8	25.1	77.3	12.0	25.1	76.6	12.1	25.2	71.4	10.9	25.5
		120	79.3	11.1	25.9	78.7	11.5	26.0	78.1	11.9	26.0	77.7	12.1	26.1	76.6	12.0	26.1	71.4	10.8	26.4
	35	50	83.5	11.5	24.7	82.8	11.9	24.8	81.9	12.2	25.0	79.3	11.6	25.3	76.6	11.0	25.6	71.4	9.89	26.2
		60	84.0	11.6	26.3	83.4	11.9	26.5	81.9	12.1	26.7	79.3	11.5	26.9	76.6	10.9	27.1	71.4	9.78	27.6
		96	85.4	11.7	29.5	84.7	12.1	29.6	81.9	11.7	29.8	79.3	11.2	29.9	76.6	10.6	30.1	71.4	9.52	30.4
		120	85.8	11.7	30.6	85.1	12.1	30.6	81.9	11.6	30.8	79.3	11.1	30.9	76.6	10.5	31.1	71.4	9.44	31.3
	40	50	89.9	12.1	28.9	87.2	11.9	29.2	81.9	11.7	29.9	79.3	11.2	30.2	76.6	10.6	30.5	71.4	9.55	31.1
		60	90.4	12.2	30.7	87.2	11.7	31.0	81.9	11.6	31.6	79.3	11.0	31.9	76.6	10.5	32.1	71.4	9.45	32.6
		96	91.9	12.3	34.1	87.2	11.4	34.3	81.9	11.3	34.7	79.3	10.7	34.9	76.6	10.2	35.0	71.4	9.21	35.4
		120	92.4	12.3	35.2	87.2	11.3	35.5	81.9	11.2	35.8	79.3	10.7	35.9	76.6	10.1	36.0	71.4	9.13	36.3
	45	50	92.4	12.0	33.5	87.2	11.6	34.2	81.9	11.3	34.9	79.3	10.8	35.2	76.6	10.3	35.5	71.4	9.27	36.1
		60	92.4	11.9	35.4	87.2	11.4	36.0	81.9	11.2	36.6	79.3	10.7	36.8	76.6	10.2	37.1	71.4	9.17	37.6
		96	92.4	11.6	39.0	87.2	11.1	39.3	81.9	10.9	39.7	79.3	10.4	39.9	76.6	9.89	40.0	71.4	8.94	40.3
		120	92.4	11.5	40.2	87.2	11.0	40.5	81.9	10.8	40.8	79.3	10.3	40.9	76.6	9.81	41.0	71.4	8.86	41.3
120	10	50	31.2	6.95	6.52	32.1	6.49	6.32	32.9	6.13	6.16	33.2	5.99	6.09	33.5	5.87	6.03	34.0	5.70	5.95
		60	37.8	7.25	6.34	38.4	6.99	6.24	38.9	6.81	6.17	39.1	6.76	6.14	39.2	6.73	6.12	39.4	6.74	6.10
		96	51.2	9.22	6.87	51.2	9.31	6.87	51.2	9.48	6.89	51.1	9.59	6.90	51.0	9.72	6.92	50.7	10.0	6.96
		120	53.8	9.67	7.37	53.7	9.82	7.38	53.6	10.0	7.40	53.5	10.2	7.41	53.3	10.3	7.43	53.0	10.7	7.47
	15	50	53.6	9.56	8.68	53.6	9.70	8.71	53.5	9.92	8.76	53.4	10.1	8.79	53.2	10.2	8.83	52.9	10.5	8.93
		60	55.1	9.63	9.57	55.0	9.80	9.60	54.8	10.0	9.65	54.7	10.2	9.68	54.6	10.3	9.72	54.2	10.7	9.81
		96	58.9	9.86	11.3	58.7	10.1	11.4	58.4	10.4	11.4	58.2	10.5	11.4	58.0	10.7	11.5	57.6	11.1	11.5
		120	60.2	9.96	12.0	60.0	10.2	12.0	59.7	10.5	12.1	59.5	10.7	12.1	59.3	10.9	12.1	58.8	11.3	12.2
	20	50	63.8	10.2	12.3	63.5	10.5	12.4	63.1	10.9	12.5	62.8	11.0	12.6	62.6	11.2	12.6	62.0	11.7	12.8
		60	64.2	10.3	13.6	63.9	10.6	13.6	63.5	10.9	13.7	63.2	11.1	13.8	63.0	11.3	13.8	62.4	11.7	13.9
		96	65.3	10.4	15.9	65.0	10.7	15.9	64.5	11.0	16.0	64.3	11.2	16.0	64.0	11.4	16.1	63.4	11.8	16.1
		120	65.7	10.4	16.7	65.3	10.7	16.7	64.9	11.0	16.8	64.6	11.2	16.8	64.3	11.4	16.8	63.7	11.9	16.9
	25	50	70.1	10.8	16.5	69.6	11.1	16.6	69.1	11.5	16.7	68.8	11.7	16.8	68.5	11.9	16.9	65.9	11.5	17.2
		60	70.6	10.8	17.9	70.1	11.2	18.0	69.5	11.5	18.1	69.2	11.7	18.1	68.9	12.0	18.2	65.9	11.4	18.5
		96	71.7	11.0	20.5	71.2	11.3	20.5	70.7	11.7	20.6	70.4	11.9	20.6	70.0	12.1	20.7	65.9	11.1	20.9
		120	72.1	11.0	21.3	71.6	11.3	21.4	71.0	11.7	21.5	70.7	11.9	21.5	70.4	12.1	21.5	65.9	11.0	21.7
	30	50	76.3	11.4	20.7	75.8	11.8	20.8	75.1	12.2	21.0	73.2	11.7	21.2	70.7	11.1	21.5	65.9	10.00	22.0
		60	76.8	11.5	22.2	76.2	11.8	22.3	75.6	12.2	22.4	73.2	11.6	22.6	70.7	11.0	22.9	65.9	9.89	23.3
		96	78.1	11.6	25.0	77.5	11.9	25.1	75.6	11.9	25.2	73.2	11.3	25.4	70.7	10.7	25.5	65.9	9.62	25.8
		120	78.5	11.6	26.0	77.9	12.0	26.1	75.6	11.8	26.2	73.2	11.2	26.3	70.7	10.6	26.4	65.9	9.53	26.6
	35	50	82.6	12.0	24.9	80.5	11.9	25.2	75.6	10.8	25.7	73.2	10.3	26.0	70.7	9.76	26.3	65.9	8.78	26.8
		60	83.1	12.1	26.5	80.5	11.7	26.8	75.6	10.7	27.2	73.2	10.2	27.5	70.7	9.65	27.7	65.9	8.69	28.2
		96	84.5	12.2	29.6	80.5	11.4	29.8	75.6	10.4	30.1	73.2	9.88	30.3	70.7	9.39	30.4	65.9	8.46	30.7
		120	84.9	12.2	30.7	80.5	11.3	30.9	75.6	10.3	31.1	73.2	9.79	31.2	70.7	9.31	31.3	65.9	8.39	31.6
	40	50	85.3	11.5	29.4	80.5	11.4	30.1	75.6	10.4	30.7	73.2	9.91	30.9	70.7	9.43	31.2	65.9	8.51	31.8
		60	85.3	11.3	31.2	80.5	11.3	31.7	75.6	10.3	32.2	73.2	9.81	32.4	70.7	9.33	32.7	65.9	8.42	33.1
		96	85.3	11.0	34.5	80.5	11.0	34.8	75.6	10.0	35.1	73.2	9.54	35.3	70.7	9.09	35.4	65.9	8.21	35.7
		120	85.3	10.9	35.6	80.5	10.9	35.8	75.6	9.93	36.1	73.2	9.46	36.2	70.7	9.01	36.3	65.9	8.14	36.6
	45	50	85.3	11.2	34.4	80.5	11.0	35.0	75.6	10.1	35.6	73.2	9.60	35.9	70.7	9.15	36.2	65.9	8.28	36.7
		60	85.3	11.1	36.1	80.5	10.9	36.7	75.6	9.96	37.2	73.2	9.50	37.4	70.7	9.06	37.6	65.9	8.20	38.1
		96	85.3	10.7	39.4	80.5	10.6	39.8	75.6	9.70	40.1	73.2	9.26	40.2	70.7	8.82	40.4	65.9	7.99	40.7
		120	85.3	10.6	40.5	80.5	10.5	40.8	75.6	9.62	41.1	73.2	9.18	41.2	70.7	8.75	41.3	65.9	7.93	41.5

3 Capacity tables

3 - 3 Heating capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	50	32.5	6.31	6.24	33.2	6.02	6.11	33.7	5.81	6.00	33.9	5.73	5.96	34.1	5.68	5.93	34.3	5.63	5.89
		60	38.7	6.90	6.21	39.0	6.77	6.15	39.3	6.72	6.11	39.3	6.73	6.10	39.4	6.75	6.10	39.4	6.85	6.11
		96	51.2	9.38	6.88	51.1	9.56	6.90	50.9	9.80	6.93	50.8	9.94	6.95	50.6	10.1	6.97	50.3	10.5	7.03
		120	53.7	9.91	7.39	53.5	10.1	7.41	53.3	10.4	7.44	53.1	10.6	7.46	52.9	10.8	7.48	52.5	11.2	7.53
	15	50	53.6	9.79	8.73	53.4	10.0	8.78	53.1	10.3	8.86	53.0	10.5	8.91	52.8	10.6	8.96	52.4	11.0	9.07
		60	55.0	9.90	9.62	54.7	10.1	9.67	54.5	10.4	9.74	54.3	10.6	9.78	54.1	10.8	9.83	53.6	11.2	9.93
		96	58.6	10.2	11.4	58.3	10.5	11.4	57.9	10.8	11.5	57.7	11.0	11.5	57.5	11.2	11.5	56.9	11.6	11.6
		120	59.9	10.3	12.0	59.5	10.6	12.1	59.1	11.0	12.1	58.9	11.2	12.1	58.6	11.4	12.2	58.1	11.8	12.2
	20	50	63.3	10.7	12.5	62.9	11.0	12.6	62.4	11.3	12.7	62.1	11.5	12.7	61.9	11.8	12.8	60.4	11.8	13.0
		60	63.7	10.7	13.7	63.3	11.0	13.8	62.8	11.4	13.9	62.5	11.6	13.9	62.2	11.8	14.0	60.4	11.7	14.2
		96	64.8	10.8	16.0	64.3	11.1	16.0	63.8	11.5	16.1	63.6	11.7	16.1	63.3	11.9	16.2	60.4	11.3	16.3
		120	65.1	10.9	16.8	64.7	11.2	16.8	64.2	11.6	16.9	63.9	11.8	16.9	63.6	12.0	16.9	60.4	11.2	17.1
	25	50	69.4	11.3	16.7	68.9	11.6	16.8	68.3	12.0	16.9	67.1	11.9	17.1	64.8	11.3	17.3	60.4	10.1	17.8
		60	69.8	11.3	18.0	69.3	11.7	18.1	68.7	12.1	18.2	67.1	11.7	18.4	64.8	11.1	18.6	60.4	9.99	19.0
		96	71.0	11.5	20.6	70.4	11.8	20.6	69.3	12.0	20.7	67.1	11.4	20.8	64.8	10.8	21.0	60.4	9.71	21.2
		120	71.4	11.5	21.4	70.8	11.9	21.5	69.3	11.9	21.6	67.1	11.3	21.7	64.8	10.7	21.8	60.4	9.63	22.0
	30	50	75.5	11.9	20.9	73.8	11.9	21.1	69.3	10.8	21.6	67.1	10.3	21.9	64.8	9.76	22.1	60.4	8.78	22.6
		60	75.9	12.0	22.4	73.8	11.7	22.6	69.3	10.7	23.0	67.1	10.2	23.2	64.8	9.66	23.4	60.4	8.69	23.8
		96	77.2	12.1	25.1	73.8	11.4	25.3	69.3	10.4	25.6	67.1	9.88	25.7	64.8	9.39	25.9	60.4	8.46	26.1
		120	77.6	12.2	26.1	73.8	11.3	26.3	69.3	10.3	26.5	67.1	9.79	26.6	64.8	9.31	26.7	60.4	8.39	26.9
	35	50	78.2	11.4	25.4	73.8	10.4	25.9	69.3	9.46	26.4	67.1	9.02	26.7	64.8	8.58	26.9	60.4	7.74	27.5
		60	78.2	11.2	27.0	73.8	10.3	27.4	69.3	9.36	27.8	67.1	8.92	28.1	64.8	8.49	28.3	60.4	7.67	28.7
		96	78.2	10.9	30.0	73.8	10.00	30.2	69.3	9.11	30.5	67.1	8.68	30.6	64.8	8.27	30.8	60.4	7.47	31.0
		120	78.2	10.8	31.0	73.8	9.91	31.2	69.3	9.03	31.4	67.1	8.61	31.5	64.8	8.20	31.6	60.4	7.41	31.8
	40	50	78.2	10.9	30.4	73.8	10.0	30.9	69.3	9.15	31.4	67.1	8.73	31.6	64.8	8.32	31.9	60.4	7.53	32.4
		60	78.2	10.8	32.0	73.8	9.92	32.4	69.3	9.06	32.8	67.1	8.64	33.0	64.8	8.24	33.2	60.4	7.46	33.7
		96	78.2	10.5	34.9	73.8	9.66	35.2	69.3	8.82	35.5	67.1	8.42	35.6	64.8	8.03	35.8	60.4	7.27	36.0
		120	78.2	10.4	36.0	73.8	9.57	36.2	69.3	8.75	36.4	67.1	8.35	36.5	64.8	7.96	36.6	60.4	7.22	36.8
	45	50	78.2	10.6	35.3	73.8	9.71	35.8	69.3	8.89	36.3	67.1	8.49	36.6	64.8	8.10	36.9	60.4	7.35	37.4
		60	78.2	10.5	36.9	73.8	9.61	37.3	69.3	8.80	37.8	67.1	8.40	38.0	64.8	7.37	38.1	60.4	7.27	38.7
		96	78.2	10.2	39.9	73.8	9.36	40.2	69.3	8.57	40.5	67.1	8.19	40.6	64.8	7.82	40.7	60.4	7.09	41.0
		120	78.2	10.1	40.9	73.8	9.28	41.1	69.3	8.50	41.4	67.1	8.13	41.5	64.8	7.12	41.6	60.4	7.04	41.8
100	10	50	33.5	5.88	6.04	33.9	5.73	5.96	34.2	5.65	5.91	34.3	5.63	5.89	34.4	5.63	5.88	34.4	5.68	5.88
		60	39.2	6.73	6.12	39.3	6.73	6.10	39.4	6.78	6.10	39.4	6.83	6.11	39.4	6.90	6.12	39.2	7.08	6.16
		96	51.0	9.70	6.92	50.8	9.95	6.95	50.5	10.2	7.00	50.3	10.4	7.02	50.1	10.6	7.05	49.7	11.0	7.11
		120	53.4	10.3	7.43	53.1	10.6	7.46	52.7	10.9	7.50	52.5	11.1	7.53	52.3	11.3	7.55	51.8	11.7	7.60
	15	50	53.2	10.2	8.83	53.0	10.5	8.91	52.6	10.8	9.00	52.4	11.0	9.06	52.2	11.2	9.12	51.7	11.6	9.25
		60	54.6	10.3	9.71	54.3	10.6	9.78	53.9	10.9	9.87	53.7	11.1	9.92	53.5	11.3	9.97	53.0	11.8	10.1
		96	58.1	10.7	11.5	57.7	11.0	11.5	57.2	11.4	11.6	57.0	11.6	11.6	56.7	11.8	11.6	54.9	11.6	11.8
		120	59.3	10.8	12.1	58.9	11.2	12.1	58.4	11.5	12.2	58.2	11.7	12.2	57.9	11.9	12.3	54.9	11.2	12.4
	20	50	62.6	11.2	12.6	62.1	11.5	12.7	61.6	11.9	12.9	61.0	12.0	13.0	59.0	11.4	13.2	54.9	10.2	13.6
		60	63.0	11.2	13.8	62.5	11.6	13.9	62.0	12.0	14.0	61.0	11.8	14.1	59.0	11.2	14.3	54.9	10.1	14.6
		96	64.1	11.4	16.1	63.6	11.7	16.1	63.0	12.1	16.2	61.0	11.5	16.3	59.0	10.9	16.4	54.9	9.80	16.6
		120	64.4	11.4	16.8	63.9	11.8	16.9	63.0	12.0	17.0	61.0	11.4	17.0	59.0	10.8	17.1	54.9	9.71	17.3
	25	50	68.5	11.9	16.9	67.0	11.9	17.1	63.0	10.8	17.5	61.0	10.2	17.7	59.0	9.73	17.9	54.9	8.76	18.4
		60	69.0	11.9	18.2	67.0	11.7	18.4	63.0	10.6	18.7	61.0	10.1	18.9	59.0	9.63	19.1	54.9	8.67	19.5
		96	70.1	12.0	20.7	67.0	11.4	20.8	63.0	10.4	21.1	61.0	9.85	21.2	59.0	9.37	21.3	54.9	8.44	21.5
		120	70.4	12.1	21.5	67.0	11.3	21.7	63.0	10.3	21.9	61.0	9.77	21.9	59.0	9.29	22.0	54.9	8.36	22.2
	30	50	71.1	11.2	21.4	67.0	10.3	21.9	63.0	9.35	22.3	61.0	8.91	22.5	59.0	8.48	22.8	54.9	7.65	23.2
		60	71.1	11.1	22.8	67.0	10.2	23.2	63.0	9.25	23.6	61.0	8.81	23.8	59.0	8.39	24.0	54.9	7.57	24.3
		96	71.1	10.8	25.5	67.0	9.87	25.7	63.0	9.00	26.0	61.0	8.58	26.1	59.0	8.17	26.2	54.9	7.38	26.5
		120	71.1	10.7	26.4	67.0	9.79	26.6	63.0	8.92	26.8	61.0	8.51	26.9	59.0	8.10	27.0	54.9	7.32	27.2
	35	50	71.1	9.83	26.2	67.0	9.01	26.7	63.0	8.23	27.1	61.0	7.85	27.4	59.0	7.48	27.6	54.9	6.78	28.1
		60	71.1	9.73	27.7	67.0	8.92	28.1	63.0	8.14	28.4	61.0	7.77	28.6	59.0	7.41	28.8	54.9	6.71	29.2
		96	71.1	9.46	30.4	67.0	8.68	30.6	63.0	7.93	30.9	61.0	7.57	31.0	59.0	7.22	31.1	54.9	6.54	31.4
		120	71.1	9.38	31.3	67.0	8.60	31.5	63.0	7.86	31.7	61.0	7.51	31.8	59.0	7.16	31.9	54.9	6.49	32.1
	40	50	71.1	9.55	31.2	67.0	8.76	31.6	63.0	8.00	32.1	61.0	7.64	32.4	59.0	7.28	32.6	54.9	6.60	33.1
		60	71.1	9.45	32.6	67.0	8.67	33.0	63.0	7.92	33.4	61.0	7.56	33.6	59.0	7.21	33.8	54.9	6.54	34.2
		96	71.1	9.20	35.4	67.0	8.44	35.6	63.0	7.72	35.9	61.0	7.37	36.0	59.0	7.03	36.1	54.9	6.38	36.4
		120	71.1	9.12	36.3	67.0	8.37	36.5	63.0	7.65	36.7	61.0	7.31	36.8	59.0	6.97	36.9	54.9	6.33	37.1
	45	50	71.1	9.33	36.1	67.0	8.56	36.6	63.0	7.82	37.1	61.0	7.47	37.3	59.0	7.12	37.6	54.9	6.46	38.1
		60	71.1	9.23	37.6	67.0	8.47	38.0	63.0	7.74	38.4	61.0	7.39	38.6	59.0	7.05	38.8	54.9	6.40	39.2
		96	71.1	8.98	40.4	67.0	8.24	40.6	63.0	7.54	40.9	61.0	7.20	41.0	59.0	6.87	41.1	54.9	6.24	41.4
		120	71.1	8.90	41.3	67.0	8.17	41.5	63.0	7.48	41.7	61.0	7.14	41.8	59.0	6.82	41.9	54.9	6.19	42.1

3 Capacity tables

3 - 3 Heating capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	50	34.1	5.66	5.92	34.3	5.63	5.89	34.4	5.65	5.88	34.4	5.68	5.88	34.4	5.72	5.89	34.3	5.86	5.92
		60	39.4	6.76	6.10	39.4	6.85	6.11	39.3	6.99	6.14	39.2	7.08	6.16	39.2	7.18	6.18	38.9	7.42	6.24
		96	50.6	10.2	6.98	50.3	10.5	7.03	49.9	10.8	7.08	49.7	11.0	7.11	49.5	11.2	7.14	49.0	11.6	7.21
		120	52.8	10.8	7.49	52.5	11.2	7.53	52.1	11.5	7.58	51.8	11.7	7.60	51.6	11.9	7.63	49.4	11.4	7.73
	15	50	52.7	10.7	8.98	52.4	11.0	9.08	52.0	11.4	9.19	51.7	11.6	9.25	51.5	11.8	9.31	49.4	11.4	9.54
		60	54.0	10.9	9.85	53.6	11.2	9.93	53.2	11.6	10.0	52.9	11.8	10.1	52.7	12.0	10.1	49.4	10.9	10.4
		96	57.4	11.3	11.6	56.9	11.6	11.6	56.4	12.0	11.7	54.9	11.6	11.8	53.1	11.0	11.9	49.4	9.85	12.0
		120	58.5	11.4	12.2	58.1	11.8	12.2	56.7	11.7	12.3	54.9	11.2	12.4	53.1	10.6	12.5	49.4	9.52	12.6
	20	50	61.7	11.8	12.8	60.3	11.8	13.0	56.7	10.7	13.4	54.9	10.2	13.6	53.1	9.67	13.8	49.4	8.70	14.2
		60	62.1	11.9	14.0	60.3	11.6	14.2	56.7	10.6	14.5	54.9	10.1	14.6	53.1	9.57	14.8	49.4	8.61	15.1
		96	63.1	12.0	16.2	60.3	11.3	16.3	56.7	10.3	16.5	54.9	9.79	16.6	53.1	9.31	16.7	49.4	8.38	16.9
		120	63.5	12.0	16.9	60.3	11.2	17.1	56.7	10.2	17.2	54.9	9.70	17.3	53.1	9.23	17.4	49.4	8.31	17.5
	25	50	64.0	11.0	17.4	60.3	10.1	17.8	56.7	9.18	18.2	54.9	8.75	18.4	53.1	8.33	18.6	49.4	7.52	19.0
		60	64.0	10.9	18.7	60.3	9.97	19.0	56.7	9.09	19.3	54.9	8.66	19.5	53.1	8.24	19.6	49.4	7.45	20.0
		96	64.0	10.6	21.0	60.3	9.70	21.2	56.7	8.84	21.4	54.9	8.43	21.5	53.1	8.03	21.6	49.4	7.26	21.9
		120	64.0	10.5	21.8	60.3	9.62	22.0	56.7	8.77	22.1	54.9	8.36	22.2	53.1	7.96	22.3	49.4	7.20	22.5
	30	50	64.0	9.57	22.2	60.3	8.77	22.6	56.7	8.01	23.0	54.9	7.65	23.2	53.1	7.29	23.4	49.4	6.61	23.9
		60	64.0	9.46	23.5	60.3	8.68	23.8	56.7	7.93	24.2	54.9	7.57	24.3	53.1	7.22	24.5	49.4	6.54	24.9
		96	64.0	9.21	25.9	60.3	8.45	26.1	56.7	7.72	26.3	54.9	7.38	26.5	53.1	7.04	26.6	49.4	6.38	26.8
		120	64.0	9.13	26.7	60.3	8.38	26.9	56.7	7.66	27.1	54.9	7.31	27.2	53.1	6.98	27.2	49.4	6.33	27.4
	35	50	64.0	8.42	27.0	60.3	7.74	27.5	56.7	7.09	27.9	54.9	6.77	28.1	53.1	6.47	28.3	49.4	5.88	28.8
		60	64.0	8.33	28.4	60.3	7.66	28.7	56.7	7.02	29.1	54.9	6.71	29.2	53.1	6.41	29.4	49.4	5.83	29.8
		96	64.0	8.11	30.8	60.3	7.46	31.1	56.7	6.84	31.3	54.9	6.54	31.4	53.1	6.25	31.5	49.4	5.69	31.7
		120	64.0	8.04	31.7	60.3	7.40	31.8	56.7	6.78	32.0	54.9	6.49	32.1	53.1	6.20	32.2	49.4	5.64	32.4
	40	50	64.0	8.17	32.0	60.3	7.53	32.4	56.7	6.91	32.9	54.9	6.60	33.1	53.1	6.31	33.3	49.4	5.73	33.7
		60	64.0	8.08	33.3	60.3	7.45	33.7	56.7	6.84	34.0	54.9	6.54	34.2	53.1	6.25	34.4	49.4	5.68	34.8
		96	64.0	7.88	35.8	60.3	7.27	36.0	56.7	6.67	36.3	54.9	6.38	36.4	53.1	6.09	36.5	49.4	5.55	36.7
		120	64.0	7.81	36.6	60.3	7.21	36.8	56.7	6.61	37.0	54.9	6.33	37.1	53.1	6.04	37.2	49.4	5.50	37.4
	45	50	64.0	7.95	37.0	60.3	7.34	37.4	56.7	6.74	37.8	54.9	6.44	38.1	53.1	6.15	38.3	49.4	5.59	38.7
		60	64.0	7.88	38.3	60.3	7.26	38.7	56.7	6.67	39.0	54.9	6.38	39.2	53.1	5.61	39.3	49.4	5.54	39.8
		96	64.0	7.68	40.8	60.3	7.08	41.0	56.7	6.50	41.3	54.9	6.22	41.4	53.1	5.48	41.4	49.4	5.41	41.7
		120	64.0	7.62	41.6	60.3	7.03	41.8	56.7	6.45	42.0	54.9	6.17	42.1	53.1	5.89	42.2	49.4	5.37	42.4
80	10	50	34.4	5.65	5.88	34.4	5.71	5.88	34.4	5.82	5.91	34.3	5.88	5.92	34.3	5.96	5.95	34.1	6.16	6.00
		60	39.3	6.98	6.14	39.2	7.15	6.17	39.0	7.35	6.22	38.9	7.46	6.25	38.7	7.59	6.28	38.4	7.87	6.35
		96	49.9	10.8	7.08	49.5	11.1	7.13	49.1	11.5	7.19	48.8	11.6	7.23	47.2	11.0	7.30	43.9	9.89	7.46
		120	52.1	11.5	7.58	51.7	11.9	7.62	50.4	11.8	7.69	48.8	11.2	7.76	47.2	10.6	7.82	43.9	9.56	7.95
	15	50	52.0	11.4	9.18	51.6	11.7	9.29	50.4	11.7	9.45	48.8	11.1	9.60	47.2	10.6	9.75	43.9	9.49	10.1
		60	53.2	11.5	10.0	52.8	11.9	10.1	50.4	11.2	10.3	48.8	10.7	10.4	47.2	10.2	10.6	43.9	9.12	10.8
		96	56.4	12.0	11.7	53.6	11.2	11.8	50.4	10.1	12.0	48.8	9.66	12.1	47.2	9.18	12.2	43.9	8.27	12.3
		120	56.9	11.8	12.3	53.6	10.8	12.4	50.4	9.80	12.6	48.8	9.34	12.6	47.2	8.88	12.7	43.9	8.01	12.9
	20	50	56.9	10.7	13.4	53.6	9.83	13.7	50.4	8.96	14.1	48.8	8.54	14.2	47.2	8.13	14.4	43.9	7.35	14.8
		60	56.9	10.6	14.5	53.6	9.73	14.8	50.4	8.86	15.0	48.8	8.45	15.2	47.2	8.05	15.3	43.9	7.27	15.6
		96	56.9	10.3	16.5	53.6	9.46	16.7	50.4	8.63	16.9	48.8	8.23	17.0	47.2	7.84	17.1	43.9	7.09	17.3
		120	56.9	10.2	17.2	53.6	9.38	17.4	50.4	8.55	17.5	48.8	8.16	17.6	47.2	7.77	17.6	43.9	7.03	17.8
	25	50	56.9	9.23	18.2	53.6	8.46	18.5	50.4	7.74	18.9	48.8	7.39	19.1	47.2	7.05	19.3	43.9	6.39	19.6
		60	56.9	9.13	19.3	53.6	8.38	19.6	50.4	7.66	19.9	48.8	7.31	20.0	47.2	6.98	20.2	43.9	6.33	20.5
		96	56.9	8.88	21.4	53.6	8.16	21.6	50.4	7.46	21.8	48.8	7.13	21.9	47.2	6.80	22.0	43.9	6.17	22.2
		120	56.9	8.81	22.1	53.6	8.09	22.3	50.4	7.40	22.4	48.8	7.07	22.5	47.2	6.75	22.6	43.9	6.12	22.7
	30	50	56.9	8.05	23.0	53.6	7.40	23.4	50.4	6.79	23.7	48.8	6.49	23.9	47.2	6.20	24.1	43.9	5.64	24.5
		60	56.9	7.97	24.2	53.6	7.33	24.5	50.4	6.72	24.8	48.8	6.43	24.9	47.2	6.14	25.1	43.9	5.59	25.4
		96	56.9	7.76	26.3	53.6	7.14	26.5	50.4	6.55	26.7	48.8	6.27	26.8	47.2	5.99	26.9	43.9	5.46	27.1
		120	56.9	7.69	27.1	53.6	7.08	27.2	50.4	6.50	27.4	48.8	6.22	27.5	47.2	5.95	27.5	43.9	5.42	27.7
	35	50	56.9	7.12	27.9	53.6	6.56	28.3	50.4	6.04	28.6	48.8	5.78	28.8	47.2	5.53	29.0	43.9	5.05	29.4
		60	56.9	7.05	29.0	53.6	6.50	29.4	50.4	5.98	29.7	48.8	5.73	29.9	47.2	5.48	30.0	43.9	5.01	30.4
		96	56.9	6.87	31.3	53.6	6.34	31.5	50.4	5.84	31.7	48.8	5.59	31.8	47.2	5.36	31.9	43.9	4.90	32.1
		120	56.9	6.81	32.0	53.6	6.29	32.2	50.4	5.79	32.3	48.8	5.55	32.4	47.2	5.32	32.5	43.9	4.86	32.7
	40	50	56.9	6.94	32.8	53.6	6.40	33.2	50.4	5.89	33.6	48.8	5.64	33.8	47.2	5.40	34.0	43.9	4.93	34.4
		60	56.9	6.87	34.0	53.6	6.34	34.4	50.4	5.83	34.7	48.8	5.58	34.8	47.2	5.35	35.0	43.9	4.88	35.3
		96	56.9	6.70	36.3	53.6	6.18	36.5	50.4	5.69	36.7	48.8	5.45	36.8	47.2	5.22	36.9	43.9	4.77	37.1
		120	56.9	6.64	37.0	53.6	6.13	37.2	50.4	5.65	37.3	48.8	5.41	37.4	47.2	5.18	37.5	43.9	4.74	37.7
	45	50	56.9	6.77	37.8	53.6	6.24	38.2	50.4	5.74	38.6	48.8	5.50	38.8	47.2	5.26	39.0	43.9	4.81	39.4
		60	56.9	6.70	39.0	53.6	6.18	39.3	50.4	5.68	39.7	48.8	5.45	39.8	47.2	4.83	39.9	43.9	4.76	40.3
		96	56.9	6.53	41.2	53.6	6.03	41.4	50.4	5.55	41.7	48.8	5.32	41.8	47.2	5.09	41.9	43.9	4.66	42.1
		120	56.9	6.48	42.0	53.6	5.98	42.2	50.4	5.51	42.3	48.8	5.28	42.4	47.2	4.69	42.5	43.9	4.62	42.7

3 Capacity tables

3 - 3 Heating capacity tables

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	50	34.4	5.84	5.91	34.2	5.98	5.95	34.1	6.15	6.00	34.0	6.24	6.03	33.9	6.35	6.06	33.6	6.58	6.13
		60	39.0	7.39	6.23	38.7	7.61	6.28	38.4	7.86	6.35	38.3	7.99	6.38	38.1	8.13	6.42	37.7	8.44	6.50
		96	49.0	11.6	7.20	46.9	10.9	7.31	44.1	9.95	7.45	42.7	9.47	7.52	41.3	9.00	7.59	38.4	8.11	7.74
		120	49.8	11.6	7.72	46.9	10.6	7.83	44.1	9.62	7.94	42.7	9.16	8.00	41.3	8.71	8.06	38.4	7.86	8.17
	15	50	49.8	11.5	9.51	46.9	10.5	9.78	44.1	9.55	10.0	42.7	9.09	10.2	41.3	8.65	10.3	38.4	7.80	10.6
		60	49.8	11.0	10.4	46.9	10.1	10.6	44.1	9.18	10.8	42.7	8.75	10.9	41.3	8.32	11.1	38.4	7.51	11.3
		96	49.8	9.95	12.0	46.9	9.12	12.2	44.1	8.32	12.3	42.7	7.94	12.4	41.3	7.56	12.5	38.4	6.84	12.6
		120	49.8	9.62	12.6	46.9	8.82	12.7	44.1	8.05	12.8	42.7	7.68	12.9	41.3	7.32	13.0	38.4	6.63	13.1
	20	50	49.8	8.79	14.1	46.9	8.07	14.4	44.1	7.39	14.7	42.7	7.06	14.9	41.3	6.73	15.1	38.4	6.11	15.4
		60	49.8	8.70	15.1	46.9	7.99	15.3	44.1	7.31	15.6	42.7	6.99	15.7	41.3	6.67	15.9	38.4	6.05	16.1
		96	49.8	8.47	16.9	46.9	7.78	17.1	44.1	7.13	17.2	42.7	6.81	17.3	41.3	6.50	17.4	38.4	5.91	17.6
		120	49.8	8.40	17.5	46.9	7.72	17.7	44.1	7.07	17.8	42.7	6.75	17.9	41.3	6.45	17.9	38.4	5.86	18.1
	25	50	49.8	7.60	19.0	46.9	7.00	19.3	44.1	6.42	19.6	42.7	6.15	19.8	41.3	5.88	19.9	38.4	5.36	20.3
		60	49.8	7.52	20.0	46.9	6.93	20.2	44.1	6.36	20.5	42.7	6.09	20.6	41.3	5.82	20.8	38.4	5.31	21.0
		96	49.8	7.33	21.8	46.9	6.76	22.0	44.1	6.21	22.2	42.7	5.94	22.3	41.3	5.68	22.3	38.4	5.19	22.5
		120	49.8	7.27	22.5	46.9	6.70	22.6	44.1	6.16	22.7	42.7	5.90	22.8	41.3	5.64	22.9	38.4	5.15	23.0
	30	50	49.8	6.67	23.8	46.9	6.16	24.2	44.1	5.67	24.5	42.7	5.44	24.7	41.3	5.21	24.8	38.4	4.77	25.2
		60	49.8	6.61	24.8	46.9	6.10	25.1	44.1	5.62	25.4	42.7	5.39	25.5	41.3	5.16	25.7	38.4	4.73	26.0
		96	49.8	6.44	26.8	46.9	5.96	26.9	44.1	5.49	27.1	42.7	5.27	27.2	41.3	5.05	27.3	38.4	4.62	27.5
		120	49.8	6.39	27.4	46.9	5.91	27.5	44.1	5.45	27.7	42.7	5.23	27.8	41.3	5.01	27.8	38.4	4.59	28.0
	35	50	49.8	5.94	28.7	46.9	5.50	29.1	44.1	5.08	29.4	42.7	4.88	29.6	41.3	4.68	29.8	38.4	4.30	30.1
		60	49.8	5.88	29.8	46.9	5.45	30.0	44.1	5.04	30.3	42.7	4.84	30.5	41.3	4.64	30.6	38.4	4.26	30.9
		96	49.8	5.74	31.7	46.9	5.32	31.9	44.1	4.92	32.1	42.7	4.73	32.2	41.3	4.54	32.3	38.4	4.17	32.4
		120	49.8	5.70	32.4	46.9	5.28	32.5	44.1	4.89	32.7	42.7	4.69	32.7	41.3	4.51	32.8	38.4	4.15	33.0
	40	50	49.8	5.79	33.7	46.9	5.36	34.0	44.1	4.95	34.4	42.7	4.76	34.6	41.3	4.56	34.7	38.4	4.19	35.1
		60	49.8	5.73	34.7	46.9	5.31	35.0	44.1	4.91	35.3	42.7	4.71	35.5	41.3	4.52	35.6	38.4	4.16	35.9
		96	49.8	5.60	36.7	46.9	5.19	36.9	44.1	4.80	37.1	42.7	4.61	37.2	41.3	4.43	37.2	38.4	4.07	37.4
		120	49.8	5.55	37.4	46.9	5.15	37.5	44.1	4.76	37.7	42.7	4.58	37.7	41.3	4.39	37.8	38.4	4.04	37.9
	45	50	49.8	5.64	38.7	46.9	5.23	39.0	44.1	4.83	39.4	42.7	4.64	39.5	41.3	4.45	39.7	38.4	4.09	40.1
		60	49.8	5.59	39.7	46.9	5.18	40.0	44.1	4.79	40.3	42.7	4.60	40.5	41.3	4.41	40.6	38.4	4.05	40.9
		96	49.8	5.46	41.7	46.9	5.06	41.9	44.1	4.68	42.1	42.7	4.49	42.1	41.3	4.31	42.2	38.4	3.97	42.4
		120	49.8	5.42	42.4	46.9	5.02	42.5	44.1	4.64	42.6	42.7	4.46	42.7	41.3	4.28	42.8	38.4	3.94	42.9
60	10	50	34.0	6.24	6.03	33.8	6.43	6.08	33.5	6.64	6.15	33.4	6.75	6.19	33.2	6.88	6.22	32.9	7.13	6.31
		60	38.3	7.99	6.38	38.0	8.24	6.45	37.7	8.51	6.52	36.6	8.17	6.61	35.4	7.75	6.70	32.9	6.96	6.90
		96	42.7	9.46	7.52	40.2	8.67	7.64	37.8	7.92	7.77	36.6	7.55	7.83	35.4	7.20	7.90	32.9	6.52	8.03
		120	42.7	9.15	8.00	40.2	8.40	8.10	37.8	7.68	8.20	36.6	7.33	8.25	35.4	6.99	8.31	32.9	6.34	8.41
	15	50	42.7	9.09	10.2	40.2	8.34	10.4	37.8	7.62	10.7	36.6	7.28	10.8	35.4	6.94	10.9	32.9	6.29	11.2
		60	42.7	8.74	10.9	40.2	8.02	11.2	37.8	7.34	11.4	36.6	7.01	11.5	35.4	6.69	11.6	32.9	6.07	11.8
		96	42.7	7.93	12.4	40.2	7.29	12.5	37.8	6.69	12.7	36.6	6.40	12.7	35.4	6.11	12.8	32.9	5.56	13.0
		120	42.7	7.68	12.9	40.2	7.07	13.0	37.8	6.49	13.1	36.6	6.20	13.2	35.4	5.93	13.2	32.9	5.40	13.4
	20	50	42.7	7.05	14.9	40.2	6.50	15.2	37.8	5.98	15.4	36.6	5.73	15.6	35.4	5.48	15.7	32.9	5.01	16.0
		60	42.7	6.98	15.7	40.2	6.44	16.0	37.8	5.92	16.2	36.6	5.67	16.3	35.4	5.43	16.4	32.9	4.96	16.7
		96	42.7	6.80	17.3	40.2	6.28	17.5	37.8	5.78	17.6	36.6	5.54	17.7	35.4	5.30	17.8	32.9	4.85	17.9
		120	42.7	6.75	17.9	40.2	6.23	18.0	37.8	5.74	18.1	36.6	5.50	18.1	35.4	5.26	18.2	32.9	4.81	18.3
	25	50	42.7	6.14	19.8	40.2	5.68	20.0	37.8	5.24	20.3	36.6	5.03	20.5	35.4	4.83	20.6	32.9	4.43	20.9
		60	42.7	6.08	20.6	40.2	5.63	20.9	37.8	5.20	21.1	36.6	4.99	21.2	35.4	4.78	21.3	32.9	4.39	21.6
		96	42.7	5.94	22.3	40.2	5.50	22.4	37.8	5.08	22.6	36.6	4.88	22.6	35.4	4.68	22.7	32.9	4.30	22.9
		120	42.7	5.89	22.8	40.2	5.46	22.9	37.8	5.04	23.0	36.6	4.84	23.1	35.4	4.64	23.2	32.9	4.27	23.3
	30	50	42.7	5.44	24.7	40.2	5.05	25.0	37.8	4.67	25.3	36.6	4.49	25.4	35.4	4.32	25.5	32.9	3.97	25.8
		60	42.7	5.39	25.5	40.2	5.00	25.8	37.8	4.63	26.0	36.6	4.45	26.2	35.4	4.28	26.3	32.9	3.94	26.5
		96	42.7	5.26	27.2	40.2	4.89	27.4	37.8	4.53	27.5	36.6	4.36	27.6	35.4	4.19	27.7	32.9	3.86	27.8
		120	42.7	5.22	27.8	40.2	4.85	27.9	37.8	4.50	28.0	36.6	4.33	28.1	35.4	4.16	28.1	32.9	3.84	28.3
	35	50	42.7	4.87	29.6	40.2	4.54	29.9	37.8	4.22	30.2	36.6	4.06	30.3	35.4	3.91	30.5	32.9	3.61	30.8
		60	42.7	4.83	30.5	40.2	4.50	30.7	37.8	4.18	31.0	36.6	4.03	31.1	35.4	3.88	31.2	32.9	3.59	31.5
		96	42.7	4.72	32.2	40.2	4.40	32.3	37.8	4.10	32.5	36.6	3.95	32.6	35.4	3.80	32.6	32.9	3.52	32.8
		120	42.7	4.69	32.7	40.2	4.37	32.9	37.8	4.07	33.0	36.6	3.92	33.0	35.4	3.78	33.1	32.9	3.50	33.2
	40	50	42.7	4.75	34.6	40.2	4.43	34.9	37.8	4.11	35.2	36.6	3.96	35.3	35.4	3.81	35.5	32.9	3.52	35.8
		60	42.7	4.71	35.5	40.2	4.39	35.7	37.8	4.08	36.0	36.6	3.93	36.1	35.4	3.78	36.2	32.9	3.50	36.5
		96	42.7	4.61	37.2	40.2	4.29	37.3	37.8	3.99	37.5	36.6	3.85	37.6	35.4	3.71	37.6	32.9	3.43	37.8
		120	42.7	4.57	37.7	40.2	4.26	37.9	37.8	3.97	38.0	36.6	3.82	38.0	35.4	3.68	38.1	32.9	3.41	38.2
	45	50	42.7	4.63	39.5	40.2	4.31	39.9	37.8	4.01	40.2	36.6	3.86	40.3	35.4	3.72	40.5	32.9	3.44	40.8
		60	42.7	4.59	40.5	40.2	4.28	40.7	37.8	3.98	41.0	36.6	3.83	41.1	35.4	3.69	41.2	32.9	3.41	41.5
		96	42.7	4.49	42.2	40.2	4.19	42.3	37.8	3.89	42.5	36.6	3.75	42.5	35.4	3.61	42.6	32.9	3.34	42.8
		120	42.7	4.46	42.7	40.2	4.16	42.8	37.8	3.87	43.0	36.6	3.73	43.0	35.4	3.59	43.1	32.9	3.32	43.2

3 Capacity tables

3 - 3 Heating capacity tables

20HP

TC: Total capacity; PI: Power Input

Com-bination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	50	33.2	6.86	6.22	33.0	7.07	6.29	31.5	6.68	6.44	30.5	6.35	6.54	29.5	6.04	6.64	27.5	5.42	6.84
		60	35.5	7.81	6.69	33.5	7.14	6.85	31.5	6.51	7.01	30.5	6.20	7.10	29.5	5.90	7.18	27.5	5.33	7.36
		96	35.5	7.25	7.89	33.5	6.68	8.00	31.5	6.13	8.11	30.5	5.87	8.16	29.5	5.61	8.22	27.5	5.11	8.33
		120	35.5	7.04	8.30	33.5	6.49	8.39	31.5	5.97	8.48	30.5	5.72	8.52	29.5	5.47	8.57	27.5	5.00	8.66
	15	50	35.5	6.99	10.9	33.5	6.45	11.1	31.5	5.93	11.3	30.5	5.68	11.4	29.5	5.43	11.6	27.5	4.96	11.8
		60	35.5	6.74	11.6	33.5	6.22	11.7	31.5	5.72	11.9	30.5	5.48	12.0	29.5	5.25	12.1	27.5	4.80	12.3
		96	35.5	6.15	12.8	33.5	5.69	12.9	31.5	5.25	13.0	30.5	5.04	13.1	29.5	4.83	13.2	27.5	4.43	13.3
		120	35.5	5.97	13.2	33.5	5.53	13.3	31.5	5.10	13.4	30.5	4.90	13.5	29.5	4.70	13.5	27.5	4.31	13.6
	20	50	35.5	5.52	15.7	33.5	5.12	15.9	31.5	4.73	16.2	30.5	4.55	16.3	29.5	4.37	16.4	27.5	4.02	16.6
		60	35.5	5.46	16.4	33.5	5.07	16.6	31.5	4.69	16.8	30.5	4.51	16.9	29.5	4.33	17.0	27.5	3.99	17.2
		96	35.5	5.34	17.7	33.5	4.96	17.9	31.5	4.59	18.0	30.5	4.41	18.1	29.5	4.24	18.1	27.5	3.91	18.2
		120	35.5	5.30	18.2	33.5	4.92	18.3	31.5	4.56	18.4	30.5	4.38	18.4	29.5	4.21	18.5	27.5	3.88	18.6
	25	50	35.5	4.86	20.6	33.5	4.52	20.8	31.5	4.20	21.1	30.5	4.04	21.2	29.5	3.89	21.3	27.5	3.60	21.6
		60	35.5	4.81	21.3	33.5	4.48	21.5	31.5	4.16	21.7	30.5	4.01	21.8	29.5	3.86	21.9	27.5	3.57	22.1
		96	35.5	4.71	22.7	33.5	4.39	22.8	31.5	4.08	23.0	30.5	3.93	23.0	29.5	3.78	23.1	27.5	3.50	23.2
		120	35.5	4.67	23.2	33.5	4.35	23.3	31.5	4.05	23.4	30.5	3.90	23.4	29.5	3.76	23.5	27.5	3.48	23.6
	30	50	35.5	4.34	25.5	33.5	4.05	25.8	31.5	3.78	26.0	30.5	3.65	26.2	29.5	3.52	26.3	27.5	3.27	26.5
		60	35.5	4.30	26.3	33.5	4.02	26.5	31.5	3.75	26.7	30.5	3.62	26.8	29.5	3.49	26.9	27.5	3.24	27.1
		96	35.5	4.21	27.7	33.5	3.94	27.8	31.5	3.68	27.9	30.5	3.55	28.0	29.5	3.42	28.1	27.5	3.18	28.2
		120	35.5	4.18	28.1	33.5	3.91	28.2	31.5	3.65	28.3	30.5	3.53	28.4	29.5	3.40	28.4	27.5	3.16	28.5
	35	50	35.5	3.93	30.5	33.5	3.68	30.7	31.5	3.45	31.0	30.5	3.33	31.1	29.5	3.22	31.2	27.5	3.00	31.5
		60	35.5	3.90	31.2	33.5	3.66	31.4	31.5	3.42	31.6	30.5	3.31	31.8	29.5	3.20	31.9	27.5	2.98	32.1
		96	35.5	3.82	32.6	33.5	3.58	32.8	31.5	3.36	32.9	30.5	3.25	33.0	29.5	3.14	33.0	27.5	2.93	33.2
		120	35.5	3.80	33.1	33.5	3.56	33.2	31.5	3.34	33.3	30.5	3.23	33.4	29.5	3.12	33.4	27.5	2.91	33.5
	40	50	35.5	3.83	35.5	33.5	3.59	35.7	31.5	3.36	36.0	30.5	3.25	36.1	29.5	3.14	36.2	27.5	2.93	36.5
		60	35.5	3.80	36.2	33.5	3.56	36.4	31.5	3.34	36.6	30.5	3.22	36.7	29.5	3.12	36.9	27.5	2.91	37.1
		96	35.5	3.73	37.6	33.5	3.49	37.8	31.5	3.27	37.9	30.5	3.17	38.0	29.5	3.06	38.0	27.5	2.86	38.2
		120	35.5	3.70	38.1	33.5	3.47	38.2	31.5	3.25	38.3	30.5	3.15	38.4	29.5	3.04	38.4	27.5	2.84	38.5
	45	50	35.5	3.74	40.4	33.5	3.50	40.7	31.5	3.28	41.0	30.5	3.17	41.1	29.5	3.06	41.2	27.5	2.85	41.5
		60	35.5	3.71	41.2	33.5	3.48	41.4	31.5	3.25	41.6	30.5	3.14	41.7	29.5	3.04	41.8	27.5	2.83	42.1
		96	35.5	3.63	42.6	33.5	3.41	42.8	31.5	3.19	42.9	30.5	3.09	43.0	29.5	2.98	43.0	27.5	2.78	43.2
		120	35.5	3.61	43.1	33.5	3.39	43.2	31.5	3.17	43.3	30.5	3.07	43.4	29.5	2.97	43.4	27.5	2.77	43.5

3 Capacity tables

3 - 3 Heating capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	50	44.4	11.7	6.88	46.2	10.7	6.61	47.8	9.93	6.38	48.5	9.60	6.28	49.1	9.30	6.19	50.2	8.84	6.05
		60	55.1	11.7	6.54	56.4	11.1	6.39	57.4	10.6	6.27	57.8	10.4	6.22	58.2	10.3	6.18	58.7	10.1	6.13
		96	76.4	13.8	6.89	76.7	13.8	6.87	76.8	13.9	6.87	76.8	14.0	6.87	76.8	14.2	6.88	76.5	14.5	6.91
		120	80.5	14.4	7.37	80.7	14.4	7.36	80.6	14.6	7.37	80.6	14.8	7.38	80.4	15.0	7.39	80.1	15.4	7.43
	15	50	80.3	14.2	8.69	80.5	14.3	8.68	80.4	14.5	8.70	80.4	14.6	8.72	80.3	14.8	8.74	79.9	15.2	8.82
		60	82.6	14.2	9.56	82.7	14.4	9.56	82.6	14.6	9.59	82.5	14.8	9.61	82.3	15.0	9.64	81.9	15.4	9.71
		96	88.5	14.4	11.3	88.4	14.7	11.3	88.2	15.0	11.4	88.0	15.2	11.4	87.7	15.5	11.4	87.1	16.0	11.5
		120	90.6	14.5	12.0	90.5	14.8	12.0	90.1	15.2	12.0	89.9	15.4	12.0	89.6	15.7	12.1	89.0	16.2	12.1
	20	50	96.2	14.9	12.2	95.9	15.2	12.3	95.4	15.6	12.4	95.1	15.9	12.4	94.7	16.2	12.5	94.0	16.8	12.6
		60	96.9	14.9	13.5	96.5	15.3	13.5	96.0	15.7	13.6	95.7	16.0	13.6	95.4	16.2	13.7	94.6	16.8	13.8
		96	98.6	15.0	15.8	98.2	15.4	15.9	97.7	15.9	15.9	97.3	16.1	16.0	97.0	16.4	16.0	96.1	17.0	16.1
		120	99.2	15.1	16.7	98.7	15.4	16.7	98.2	15.9	16.7	97.9	16.2	16.7	97.5	16.4	16.8	96.6	17.1	16.8
	25	50	106	15.6	16.4	105	16.0	16.5	105	16.5	16.6	104	16.8	16.6	104	17.1	16.7	103	17.8	16.9
		60	107	15.6	17.8	106	16.1	17.8	105	16.6	17.9	105	16.9	18.0	104	17.2	18.0	103	17.8	18.2
		96	109	15.8	20.4	108	16.3	20.4	107	16.8	20.5	107	17.1	20.5	106	17.4	20.6	105	18.0	20.7
		120	109	15.8	21.3	108	16.3	21.3	108	16.8	21.4	107	17.1	21.4	107	17.4	21.4	106	18.1	21.5
	30	50	116	16.4	20.5	115	16.9	20.6	114	17.5	20.8	113	17.8	20.9	113	18.1	20.9	107	16.9	21.4
		60	116	16.5	22.0	116	17.0	22.2	115	17.6	22.3	114	17.9	22.3	114	18.2	22.4	107	16.8	22.8
		96	118	16.7	24.9	117	17.2	25.0	117	17.7	25.1	116	18.0	25.1	115	18.2	25.2	107	16.3	25.5
		120	119	16.7	25.9	118	17.2	26.0	117	17.8	26.0	117	18.1	26.1	115	18.0	26.1	107	16.1	26.4
	35	50	125	17.3	24.7	124	17.8	24.8	123	18.3	25.0	119	17.4	25.3	115	16.5	25.6	107	14.8	26.2
		60	126	17.4	26.3	125	17.9	26.5	123	18.1	26.7	119	17.2	26.9	115	16.3	27.1	107	14.7	27.6
		96	128	17.6	29.5	127	18.1	29.6	123	17.6	29.8	119	16.7	29.9	115	15.9	30.1	107	14.3	30.4
		120	129	17.6	30.6	128	18.2	30.6	123	17.4	30.8	119	16.6	30.9	115	15.8	31.1	107	14.2	31.3
	40	50	135	18.2	28.9	131	17.8	29.2	123	17.6	29.9	119	16.8	30.2	115	15.9	30.5	107	14.3	31.1
		60	136	18.3	30.7	131	17.6	31.0	123	17.4	31.6	119	16.6	31.9	115	15.8	32.1	107	14.2	32.6
		96	138	18.5	34.1	131	17.1	34.3	123	16.9	34.7	119	16.1	34.9	115	15.3	35.0	107	13.8	35.4
		120	139	18.5	35.2	131	16.9	35.5	123	16.8	35.8	119	16.0	35.9	115	15.2	36.0	107	13.7	36.3
	45	50	139	18.1	33.5	131	17.3	34.2	123	17.0	34.9	119	16.2	35.2	115	15.4	35.5	107	13.9	36.1
		60	139	17.9	35.4	131	17.1	36.0	123	16.8	36.6	119	16.0	36.8	115	15.2	37.1	107	13.8	37.6
		96	139	17.4	39.0	131	16.7	39.3	123	16.4	39.7	119	15.6	39.9	115	14.8	40.0	107	13.4	40.3
		120	139	17.2	40.2	131	16.5	40.5	123	16.2	40.8	119	15.5	40.9	115	14.7	41.0	107	13.3	41.3
120	10	50	46.8	10.4	6.52	48.2	9.74	6.32	49.4	9.20	6.16	49.9	8.98	6.09	50.3	8.80	6.03	51.0	8.55	5.95
		60	56.8	10.9	6.34	57.7	10.5	6.24	58.3	10.2	6.17	58.6	10.1	6.14	58.8	10.1	6.12	59.1	10.1	6.10
		96	76.8	13.8	6.87	76.8	14.0	6.87	76.7	14.2	6.89	76.6	14.4	6.90	76.5	14.6	6.92	76.1	15.0	6.96
		120	80.7	14.5	7.37	80.6	14.7	7.38	80.4	15.1	7.40	80.2	15.3	7.41	80.0	15.5	7.43	79.5	16.0	7.47
	15	50	80.5	14.3	8.68	80.4	14.6	8.71	80.2	14.9	8.76	80.0	15.1	8.79	79.8	15.3	8.83	79.3	15.8	8.93
		60	82.7	14.4	9.57	82.5	14.7	9.60	82.3	15.1	9.65	82.1	15.3	9.68	81.8	15.5	9.72	81.3	16.1	9.81
		96	88.4	14.8	11.3	88.1	15.1	11.4	87.6	15.6	11.4	87.4	15.8	11.4	87.1	16.1	11.5	86.4	16.7	11.5
		120	90.4	14.9	12.0	90.0	15.3	12.0	89.5	15.8	12.1	89.2	16.0	12.1	88.9	16.3	12.1	88.1	16.9	12.2
	20	50	95.7	15.4	12.3	95.2	15.8	12.4	94.6	16.3	12.5	94.2	16.6	12.6	93.9	16.8	12.6	93.0	17.5	12.8
		60	96.4	15.4	13.6	95.8	15.8	13.6	95.2	16.3	13.7	94.9	16.6	13.8	94.5	16.9	13.8	93.6	17.6	13.9
		96	98.0	15.6	15.9	97.5	16.0	15.9	96.8	16.5	16.0	96.4	16.8	16.0	96.0	17.1	16.1	95.1	17.7	16.1
		120	98.6	15.6	16.7	98.0	16.0	16.7	97.3	16.6	16.8	96.9	16.8	16.8	96.5	17.1	16.8	95.6	17.8	16.9
	25	50	105	16.2	16.5	104	16.7	16.6	104	17.2	16.7	103	17.5	16.8	103	17.9	16.9	98.8	17.3	17.2
		60	106	16.3	17.9	105	16.8	18.0	104	17.3	18.1	104	17.6	18.1	103	17.9	18.2	98.8	17.1	18.5
		96	108	16.4	20.5	107	16.9	20.5	106	17.5	20.6	106	17.8	20.6	105	18.1	20.7	98.8	16.6	20.9
		120	108	16.5	21.3	107	17.0	21.4	107	17.6	21.5	106	17.9	21.5	106	18.2	21.5	98.8	16.5	21.7
	30	50	115	17.1	20.7	114	17.6	20.8	113	18.2	21.0	110	17.6	21.2	106	16.7	21.5	98.8	15.0	22.0
		60	115	17.2	22.2	114	17.7	22.3	113	18.3	22.4	110	17.4	22.6	106	16.5	22.9	98.8	14.8	23.3
		96	117	17.4	25.0	116	17.9	25.1	113	17.8	25.2	110	16.9	25.4	106	16.1	25.5	98.8	14.4	25.8
		120	118	17.4	26.0	117	18.0	26.1	113	17.6	26.2	110	16.8	26.3	106	15.9	26.4	98.8	14.3	26.6
	35	50	124	18.0	24.9	121	17.8	25.2	113	16.2	25.7	110	15.4	26.0	106	14.6	26.3	98.8	13.2	26.8
		60	125	18.1	26.5	121	17.6	26.8	113	16.0	27.2	110	15.2	27.5	106	14.5	27.7	98.8	13.0	28.2
		96	127	18.3	29.6	121	17.1	29.8	113	15.6	30.1	110	14.8	30.3	106	14.1	30.4	98.8	12.7	30.7
		120	127	18.4	30.7	121	17.0	30.9	113	15.4	31.1	110	14.7	31.2	106	14.0	31.3	98.8	12.6	31.6
	40	50	128	17.2	29.4	121	17.1	30.1	113	15.6	30.7	110	14.9	30.9	106	14.1	31.2	98.8	12.8	31.8
		60	128	17.0	31.2	121	16.9	31.7	113	15.4	32.2	110	14.7	32.4	106	14.0	32.7	98.8	12.6	33.1
		96	128	16.5	34.5	121	16.5	34.8	113	15.0	35.1	110	14.3	35.3	106	13.6	35.4	98.8	12.3	35.7
		120	128	16.4	35.6	121	16.3	35.8	113	14.9	36.1	110	14.2	36.2	106	13.5	36.3	98.8	12.2	36.6
	45	50	128	16.8	34.4	121	16.5	35.0	113	15.1	35.6	110	14.4	35.9	106	13.7	36.2	98.8	12.4	36.7
		60	128	16.6	36.1	121	16.4	36.7	113	14.9	37.2	110	14.3	37.4	106	13.6	37.6	98.8	12.3	38.1
		96	128	16.1	39.4	121	15.9	39.8	113	14.5	40.1	110	13.9	40.2	106	13.2	40.4	98.8	12.0	40.7
		120	128	16.0	40.5	121	15.8	40.8	113	14.4	41.1	110	13.8	41.2	106	13.1	41.3	98.8	11.9	41.5

3 Capacity tables

3 - 3 Heating capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	50	48.8	9.47	6.24	49.8	9.03	6.11	50.5	8.71	6.00	50.8	8.60	5.96	51.1	8.51	5.93	51.5	8.44	5.89
		60	58.0	10.3	6.21	58.5	10.2	6.15	58.9	10.1	6.11	59.0	10.1	6.10	59.1	10.1	6.10	59.1	10.3	6.11
		96	76.8	14.1	6.88	76.7	14.3	6.90	76.4	14.7	6.93	76.2	14.9	6.95	76.0	15.2	6.97	75.4	15.7	7.03
		120	80.5	14.9	7.39	80.3	15.2	7.41	79.9	15.6	7.44	79.6	15.9	7.46	79.4	16.1	7.48	78.7	16.7	7.53
	15	50	80.3	14.7	8.73	80.1	15.0	8.78	79.7	15.4	8.86	79.5	15.7	8.91	79.2	15.9	8.96	78.6	16.5	9.07
		60	82.4	14.9	9.62	82.1	15.2	9.67	81.7	15.7	9.74	81.4	15.9	9.78	81.1	16.2	9.83	80.4	16.8	9.93
		96	87.9	15.3	11.4	87.4	15.7	11.4	86.9	16.2	11.5	86.5	16.5	11.5	86.2	16.8	11.5	85.4	17.4	11.6
		120	89.8	15.5	12.0	89.3	16.0	12.1	88.7	16.5	12.1	88.3	16.7	12.1	88.0	17.0	12.2	87.1	17.7	12.2
	20	50	94.9	16.0	12.5	94.3	16.5	12.6	93.6	17.0	12.7	93.2	17.3	12.7	92.8	17.6	12.8	90.6	17.7	13.0
		60	95.6	16.1	13.7	94.9	16.5	13.8	94.2	17.1	13.9	93.8	17.4	13.9	93.4	17.7	14.0	90.6	17.5	14.2
		96	97.2	16.2	16.0	96.5	16.7	16.0	95.8	17.3	16.1	95.3	17.6	16.1	94.9	17.9	16.2	90.6	17.0	16.3
		120	97.7	16.3	16.8	97.0	16.8	16.8	96.3	17.3	16.9	95.8	17.6	16.9	95.4	17.9	16.9	90.6	16.8	17.1
	25	50	104	16.9	16.7	103	17.5	16.8	102	18.0	16.9	101	17.8	17.1	97.3	16.9	17.3	90.6	15.1	17.8
		60	105	17.0	18.0	104	17.5	18.1	103	18.1	18.2	101	17.6	18.4	97.3	16.7	18.6	90.6	15.0	19.0
		96	106	17.2	20.6	106	17.7	20.6	104	18.0	20.7	101	17.1	20.8	97.3	16.2	21.0	90.6	14.6	21.2
		120	107	17.2	21.4	106	17.8	21.5	104	17.8	21.6	101	16.9	21.7	97.3	16.1	21.8	90.6	14.4	22.0
	30	50	113	17.9	20.9	111	17.8	21.1	104	16.2	21.6	101	15.4	21.9	97.3	14.6	22.1	90.6	13.2	22.6
		60	114	18.0	22.4	111	17.6	22.6	104	16.0	23.0	101	15.2	23.2	97.3	14.5	23.4	90.6	13.0	23.8
		96	116	18.2	25.1	111	17.1	25.3	104	15.6	25.6	101	14.8	25.7	97.3	14.1	25.9	90.6	12.7	26.1
		120	116	18.2	26.1	111	17.0	26.3	104	15.4	26.5	101	14.7	26.6	97.3	14.0	26.7	90.6	12.6	26.9
	35	50	117	17.1	25.4	111	15.6	25.9	104	14.2	26.4	101	13.5	26.7	97.3	12.9	26.9	90.6	11.6	27.5
		60	117	16.9	27.0	111	15.4	27.4	104	14.0	27.8	101	13.4	28.1	97.3	12.7	28.3	90.6	11.5	28.7
		96	117	16.4	30.0	111	15.0	30.2	104	13.7	30.5	101	13.0	30.6	97.3	12.4	30.8	90.6	11.2	31.0
		120	117	16.2	31.0	111	14.9	31.2	104	13.5	31.4	101	12.9	31.5	97.3	12.3	31.6	90.6	11.1	31.8
	40	50	117	16.4	30.4	111	15.0	30.9	104	13.7	31.4	101	13.1	31.6	97.3	12.5	31.9	90.6	11.3	32.4
		60	117	16.2	32.0	111	14.9	32.4	104	13.6	32.8	101	13.0	33.0	97.3	12.4	33.2	90.6	11.2	33.7
		96	117	15.8	34.9	111	14.5	35.2	104	13.2	35.5	101	12.6	35.6	97.3	12.0	35.8	90.6	10.9	36.0
		120	117	15.7	36.0	111	14.4	36.2	104	13.1	36.4	101	12.5	36.5	97.3	11.9	36.6	90.6	10.8	36.8
	45	50	117	15.9	35.3	111	14.6	35.8	104	13.3	36.3	101	12.7	36.6	97.3	12.2	36.9	90.6	11.0	37.4
		60	117	15.7	36.9	111	14.4	37.3	104	13.2	37.8	101	12.6	38.0	97.3	12.0	38.2	90.6	10.9	38.7
		96	117	15.3	39.9	111	14.0	40.2	104	12.9	40.5	101	12.3	40.6	97.3	11.7	40.7	90.6	10.6	41.0
		120	117	15.1	40.9	111	13.9	41.1	104	12.8	41.4	101	12.2	41.5	97.3	11.6	41.6	90.6	10.6	41.8
100	10	50	50.2	8.82	6.04	50.8	8.60	5.96	51.3	8.47	5.91	51.4	8.44	5.89	51.5	8.44	5.88	51.6	8.52	5.88
		60	58.8	10.1	6.12	59.0	10.1	6.10	59.1	10.2	6.10	59.1	10.2	6.11	59.1	10.3	6.12	58.9	10.6	6.16
		96	76.5	14.5	6.92	76.2	14.9	6.95	75.7	15.4	7.00	75.5	15.6	7.02	75.2	15.9	7.05	74.5	16.5	7.11
		120	80.0	15.4	7.43	79.6	15.9	7.46	79.1	16.4	7.50	78.8	16.7	7.53	78.5	16.9	7.55	77.8	17.6	7.60
	15	50	79.9	15.3	8.83	79.5	15.7	8.91	78.9	16.2	9.00	78.6	16.5	9.06	78.3	16.7	9.12	77.6	17.4	9.25
		60	81.9	15.5	9.71	81.4	15.9	9.78	80.9	16.4	9.87	80.5	16.7	9.92	80.2	17.0	9.97	79.4	17.6	10.1
		96	87.1	16.0	11.5	86.5	16.5	11.5	85.9	17.1	11.6	85.5	17.4	11.6	85.1	17.7	11.6	82.4	17.4	11.8
		120	89.0	16.2	12.1	88.3	16.7	12.1	87.6	17.3	12.2	87.2	17.6	12.2	86.8	17.9	12.3	82.4	16.8	12.4
	20	50	93.9	16.8	12.6	93.2	17.3	12.7	92.4	17.9	12.9	91.5	18.0	13.0	88.4	17.0	13.2	82.4	15.3	13.6
		60	94.5	16.9	13.8	93.8	17.4	13.9	93.0	18.0	14.0	91.5	17.8	14.1	88.4	16.8	14.3	82.4	15.1	14.6
		96	96.1	17.0	16.1	95.3	17.6	16.1	94.5	18.2	16.2	91.5	17.3	16.3	88.4	16.4	16.4	82.4	14.7	16.6
		120	96.6	17.1	16.8	95.8	17.6	16.9	94.5	18.0	17.0	91.5	17.1	17.0	88.4	16.2	17.1	82.4	14.6	17.3
	25	50	103	17.8	16.9	101	17.8	17.1	94.5	16.1	17.5	91.5	15.4	17.7	88.4	14.6	17.9	82.4	13.1	18.4
		60	103	17.9	18.2	101	17.6	18.4	94.5	16.0	18.7	91.5	15.2	18.9	88.4	14.4	19.1	82.4	13.0	19.5
		96	105	18.1	20.7	101	17.1	20.8	94.5	15.5	21.1	91.5	14.8	21.2	88.4	14.1	21.3	82.4	12.7	21.5
		120	106	18.1	21.5	101	16.9	21.7	94.5	15.4	21.9	91.5	14.7	21.9	88.4	13.9	22.0	82.4	12.5	22.2
	30	50	107	16.8	21.4	101	15.4	21.9	94.5	14.0	22.3	91.5	13.4	22.5	88.4	12.7	22.8	82.4	11.5	23.2
		60	107	16.7	22.8	101	15.2	23.2	94.5	13.9	23.6	91.5	13.2	23.8	88.4	12.6	24.0	82.4	11.4	24.3
		96	107	16.2	25.5	101	14.8	25.7	94.5	13.5	26.0	91.5	12.9	26.1	88.4	12.3	26.2	82.4	11.1	26.5
		120	107	16.0	26.4	101	14.7	26.6	94.5	13.4	26.8	91.5	12.8	26.9	88.4	12.1	27.0	82.4	11.0	27.2
	35	50	107	14.7	26.2	101	13.5	26.7	94.5	12.3	27.1	91.5	11.8	27.4	88.4	11.2	27.6	82.4	10.2	28.1
		60	107	14.6	27.7	101	13.4	28.1	94.5	12.2	28.4	91.5	11.7	28.6	88.4	11.1	28.8	82.4	10.1	29.2
		96	107	14.2	30.4	101	13.0	30.6	94.5	11.9	30.9	91.5	11.4	31.0	88.4	10.8	31.1	82.4	9.82	31.4
		120	107	14.1	31.3	101	12.9	31.5	94.5	11.8	31.7	91.5	11.3	31.8	88.4	10.7	31.9	82.4	9.74	32.1
	40	50	107	14.3	31.2	101	13.1	31.6	94.5	12.0	32.1	91.5	11.5	32.4	88.4	10.9	32.6	82.4	9.90	33.1
		60	107	14.2	32.6	101	13.0	33.0	94.5	11.9	33.4	91.5	11.3	33.6	88.4	10.8	33.8	82.4	9.81	34.2
		96	107	13.8	35.4	101	12.7	35.6	94.5	11.6	35.9	91.5	11.1	36.0	88.4	10.5	36.1	82.4	9.57	36.4
		120	107	13.7	36.3	101	12.6	36.5	94.5	11.5	36.7	91.5	11.0	36.8	88.4	10.5	36.9	82.4	9.49	37.1
	45	50	107	14.0	36.1	101	12.8	36.6	94.5	11.7	37.1	91.5	11.2	37.3	88.4	10.7	37.6	82.4	9.69	38.1
		60	107	13.8	37.6	101	12.7	38.0	94.5	11.6	38.4	91.5	11.1	38.6	88.4	10.6	38.8	82.4	9.59	39.2
		96	107	13.5	40.4	101	12.4	40.6	94.5	11.3	40.9	91.5	10.8	41.0	88.4	10.3	41.1	82.4	9.36	41.4
		120	107	13.4	41.3	101	12.3	41.5	94.5	11.2	41.7	91.5	10.7	41.8	88.4	10.2	41.9	82.4	9.29	42.1

3 Capacity tables

3 - 3 Heating capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	50	51.2	8.49	5.92	51.5	8.44	5.89	51.6	8.47	5.88	51.6	8.52	5.88	51.6	8.59	5.89	51.5	8.78	5.92
		60	59.1	10.1	6.10	59.1	10.3	6.11	59.0	10.5	6.14	58.9	10.6	6.16	58.7	10.8	6.18	58.4	11.1	6.24
		96	75.9	15.2	6.98	75.4	15.7	7.03	74.8	16.2	7.08	74.5	16.5	7.11	74.2	16.8	7.14	73.5	17.4	7.21
		120	79.3	16.2	7.49	78.7	16.7	7.53	78.1	17.3	7.58	77.8	17.6	7.60	77.4	17.9	7.63	74.1	17.2	7.73
	15	50	79.1	16.1	8.98	78.5	16.5	9.08	77.9	17.1	9.19	77.6	17.4	9.25	77.2	17.7	9.31	74.1	17.0	9.54
		60	81.0	16.3	9.85	80.4	16.8	9.93	79.8	17.3	10.0	79.4	17.6	10.1	79.0	18.0	10.1	74.1	16.4	10.4
		96	86.0	16.9	11.6	85.4	17.5	11.6	84.6	18.0	11.7	82.3	17.3	11.8	79.6	16.5	11.9	74.1	14.8	12.0
		120	87.8	17.2	12.2	87.1	17.7	12.2	85.1	17.6	12.3	82.3	16.7	12.4	79.6	15.9	12.5	74.1	14.3	12.6
	20	50	92.6	17.7	12.8	90.5	17.7	13.0	85.1	16.0	13.4	82.3	15.3	13.6	79.6	14.5	13.8	74.1	13.1	14.2
		60	93.2	17.8	14.0	90.5	17.5	14.2	85.1	15.9	14.5	82.3	15.1	14.6	79.6	14.4	14.8	74.1	12.9	15.1
		96	94.7	18.0	16.2	90.5	17.0	16.3	85.1	15.4	16.5	82.3	14.7	16.6	79.6	14.0	16.7	74.1	12.6	16.9
		120	95.2	18.1	16.9	90.5	16.8	17.1	85.1	15.3	17.2	82.3	14.6	17.3	79.6	13.8	17.4	74.1	12.5	17.5
	25	50	96.0	16.5	17.4	90.5	15.1	17.8	85.1	13.8	18.2	82.3	13.1	18.4	79.6	12.5	18.6	74.1	11.3	19.0
		60	96.0	16.4	18.7	90.5	15.0	19.0	85.1	13.6	19.3	82.3	13.0	19.5	79.6	12.4	19.6	74.1	11.2	20.0
		96	96.0	15.9	21.0	90.5	14.6	21.2	85.1	13.3	21.4	82.3	12.6	21.5	79.6	12.0	21.6	74.1	10.9	21.9
		120	96.0	15.8	21.8	90.5	14.4	22.0	85.1	13.2	22.1	82.3	12.5	22.2	79.6	11.9	22.3	74.1	10.8	22.5
	30	50	96.0	14.3	22.2	90.5	13.2	22.6	85.1	12.0	23.0	82.3	11.5	23.2	79.6	10.9	23.4	74.1	9.91	23.9
		60	96.0	14.2	23.5	90.5	13.0	23.8	85.1	11.9	24.2	82.3	11.4	24.3	79.6	10.8	24.5	74.1	9.81	24.9
		96	96.0	13.8	25.9	90.5	12.7	26.1	85.1	11.6	26.3	82.3	11.1	26.5	79.6	10.6	26.6	74.1	9.57	26.8
		120	96.0	13.7	26.7	90.5	12.6	26.9	85.1	11.5	27.1	82.3	11.0	27.2	79.6	10.5	27.2	74.1	9.50	27.4
	35	50	96.0	12.6	27.0	90.5	11.6	27.5	85.1	10.6	27.9	82.3	10.2	28.1	79.6	9.70	28.3	74.1	8.82	28.8
		60	96.0	12.5	28.4	90.5	11.5	28.7	85.1	10.5	29.1	82.3	10.1	29.2	79.6	9.61	29.4	74.1	8.74	29.8
		96	96.0	12.2	30.8	90.5	11.2	31.1	85.1	10.3	31.3	82.3	9.81	31.4	79.6	9.37	31.5	74.1	8.53	31.7
		120	96.0	12.1	31.7	90.5	11.1	31.8	85.1	10.2	32.0	82.3	9.73	32.1	79.6	9.30	32.2	74.1	8.47	32.4
	40	50	96.0	12.2	32.0	90.5	11.3	32.4	85.1	10.4	32.9	82.3	9.91	33.1	79.6	9.46	33.3	74.1	8.60	33.7
		60	96.0	12.1	33.3	90.5	11.2	33.7	85.1	10.3	34.0	82.3	9.81	34.2	79.6	9.37	34.4	74.1	8.52	34.8
		96	96.0	11.8	35.8	90.5	10.9	36.0	85.1	10.0	36.3	82.3	9.57	36.4	79.6	9.14	36.5	74.1	8.32	36.7
		120	96.0	11.7	36.6	90.5	10.8	36.8	85.1	9.92	37.0	82.3	9.49	37.1	79.6	9.07	37.2	74.1	8.25	37.4
	45	50	96.0	11.9	37.0	90.5	11.0	37.4	85.1	10.1	37.8	82.3	9.66	38.1	79.6	9.22	38.3	74.1	8.39	38.7
		60	96.0	11.8	38.3	90.5	10.9	38.7	85.1	10.0	39.0	82.3	9.56	39.2	79.6	9.13	39.4	74.1	8.31	39.8
		96	96.0	11.5	40.8	90.5	10.6	41.0	85.1	9.75	41.3	82.3	9.33	41.4	79.6	8.91	41.5	74.1	8.11	41.7
		120	96.0	10.5	41.6	90.5	10.5	41.8	85.1	9.67	42.0	82.3	9.25	42.1	79.6	8.84	42.2	74.1	8.05	42.4
80	10	50	51.6	8.47	5.88	51.6	8.56	5.88	51.6	8.72	5.91	51.5	8.83	5.92	51.4	8.95	5.95	51.1	9.24	6.00
		60	59.0	10.5	6.14	58.8	10.7	6.17	58.5	11.0	6.22	58.3	11.2	6.25	58.1	11.4	6.28	57.6	11.8	6.35
		96	74.9	16.2	7.08	74.3	16.7	7.13	73.7	17.2	7.19	73.2	17.4	7.23	70.7	16.5	7.30	65.9	14.8	7.46
		120	78.1	17.3	7.58	77.5	17.8	7.62	75.6	17.7	7.69	73.2	16.8	7.76	70.7	16.0	7.82	65.9	14.3	7.95
	15	50	78.0	17.1	9.18	77.3	17.6	9.29	75.6	17.6	9.45	73.2	16.7	9.60	70.7	15.9	9.75	65.9	14.2	10.1
		60	79.8	17.3	10.0	79.2	17.9	10.1	75.6	16.9	10.3	73.2	16.0	10.4	70.7	15.2	10.6	65.9	13.7	10.8
		96	84.7	18.0	11.7	80.5	16.7	11.8	75.6	15.2	12.0	73.2	14.5	12.1	70.7	13.8	12.2	65.9	12.4	12.3
		120	85.3	17.7	12.3	80.5	16.2	12.4	75.6	14.7	12.6	73.2	14.0	12.6	70.7	13.3	12.7	65.9	12.0	12.9
	20	50	85.3	16.1	13.4	80.5	14.7	13.7	75.6	13.4	14.1	73.2	12.8	14.2	70.7	12.2	14.4	65.9	11.0	14.8
		60	85.3	15.9	14.5	80.5	14.6	14.8	75.6	13.3	15.0	73.2	12.7	15.2	70.7	12.1	15.3	65.9	10.9	15.6
		96	85.3	15.5	16.5	80.5	14.2	16.7	75.6	12.9	16.9	73.2	12.3	17.0	70.7	11.8	17.1	65.9	10.6	17.3
		120	85.3	15.4	17.2	80.5	14.1	17.4	75.6	12.8	17.5	73.2	12.2	17.6	70.7	11.7	17.6	65.9	10.5	17.8
	25	50	85.3	13.8	18.2	80.5	12.7	18.5	75.6	11.6	18.9	73.2	11.1	19.1	70.7	10.6	19.3	65.9	9.58	19.6
		60	85.3	13.7	19.3	80.5	12.6	19.6	75.6	11.5	19.9	73.2	11.0	20.0	70.7	10.5	20.2	65.9	9.49	20.5
		96	85.3	13.3	21.4	80.5	12.2	21.6	75.6	11.2	21.8	73.2	10.7	21.9	70.7	10.2	22.0	65.9	9.26	22.2
		120	85.3	13.2	22.1	80.5	12.1	22.3	75.6	11.1	22.4	73.2	10.6	22.5	70.7	10.1	22.6	65.9	9.19	22.7
	30	50	85.3	12.1	23.0	80.5	11.1	23.4	75.6	10.2	23.7	73.2	9.74	23.9	70.7	9.30	24.1	65.9	8.47	24.5
		60	85.3	11.9	24.2	80.5	11.0	24.5	75.6	10.1	24.8	73.2	9.64	24.9	70.7	9.21	25.1	65.9	8.39	25.4
		96	85.3	11.6	26.3	80.5	10.7	26.5	75.6	9.83	26.7	73.2	9.41	26.8	70.7	8.99	26.9	65.9	8.19	27.1
		120	85.3	11.5	27.1	80.5	10.6	27.2	75.6	9.75	27.4	73.2	9.33	27.5	70.7	8.92	27.5	65.9	8.13	27.7
	35	50	85.3	10.7	27.9	80.5	9.85	28.3	75.6	9.06	28.6	73.2	8.67	28.8	70.7	8.30	29.0	65.9	7.58	29.4
		60	85.3	10.6	29.0	80.5	9.75	29.4	75.6	8.97	29.7	73.2	8.59	29.9	70.7	8.22	30.0	65.9	7.51	30.4
		96	85.3	10.3	31.3	80.5	9.51	31.5	75.6	8.75	31.7	73.2	8.39	31.8	70.7	8.03	31.9	65.9	7.35	32.1
		120	85.3	10.2	32.0	80.5	9.44	32.2	75.6	8.69	32.3	73.2	8.33	32.4	70.7	7.97	32.5	65.9	7.29	32.7
	40	50	85.3	10.4	32.8	80.5	9.60	33.2	75.6	8.83	33.6	73.2	8.46	33.8	70.7	8.09	34.0	65.9	7.39	34.4
		60	85.3	10.3	34.0	80.5	9.51	34.4	75.6	8.74	34.7	73.2	8.38	34.8	70.7	8.02	35.0	65.9	7.33	35.3
		96	85.3	10.0	36.3	80.5	9.27	36.5	75.6	8.54	36.7	73.2	8.18	36.8	70.7	7.83	36.9	65.9	7.16	37.1
		120	85.3	9.96	37.0	80.5	9.20	37.2	75.6	8.47	37.3	73.2	8.12	37.4	70.7	7.77	37.5	65.9	7.11	37.7
	45	50	85.3	10.1	37.8	80.5	9.36	38.2	75.6	8.61	38.6	73.2	8.24	38.8	70.7	7.89	39.0	65.9	7.21	39.4
		60	85.3	10.0	39.0	80.5	9.27	39.3	75.6	8.53	39.7	73.2	8.17	39.8	70.7	7.82	40.0	65.9	7.14	40.3
		96	85.3	9.80	41.2	80.5	9.04	41.4	75.6	8.32	41.7	73.2	7.98	41.8	70.7	7.64	41.9	65.9	6.98	42.1
		120	85.3	9.72	42.0	80.5	8.97	42.2	75.6	8.26	42.3	73.2	7.91	42.4	70.7	7.58	42.5	65.9	6.93	42.7

3 Capacity tables

3 - 3 Heating capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	50	51.5	8.76	5.91	51.4	8.97	5.95	51.1	9.22	6.00	51.0	9.36	6.03	50.8	9.52	6.06	50.4	9.88	6.13
		60	58.4	11.1	6.23	58.1	11.4	6.28	57.7	11.8	6.35	57.4	12.0	6.38	57.2	12.2	6.42	56.6	12.7	6.50
		96	73.5	17.4	7.20	70.4	16.4	7.31	66.2	14.9	7.45	64.0	14.2	7.52	61.9	13.5	7.59	57.6	12.2	7.74
		120	74.7	17.3	7.72	70.4	15.8	7.83	66.2	14.4	7.94	64.0	13.7	8.00	61.9	13.1	8.06	57.6	11.8	8.17
	15	50	74.7	17.2	9.51	70.4	15.7	9.78	66.2	14.3	10.0	64.0	13.6	10.2	61.9	13.0	10.3	57.6	11.7	10.6
		60	74.7	16.5	10.4	70.4	15.1	10.6	66.2	13.8	10.8	64.0	13.1	10.9	61.9	12.5	11.1	57.6	11.3	11.3
		96	74.7	14.9	12.0	70.4	13.7	12.2	66.2	12.5	12.3	64.0	11.9	12.4	61.9	11.3	12.5	57.6	10.3	12.6
		120	74.7	14.4	12.6	70.4	13.2	12.7	66.2	12.1	12.8	64.0	11.5	12.9	61.9	11.0	13.0	57.6	9.95	13.1
	20	50	74.7	13.2	14.1	70.4	12.1	14.4	66.2	11.1	14.7	64.0	10.6	14.9	61.9	10.1	15.1	57.6	9.17	15.4
		60	74.7	13.1	15.1	70.4	12.0	15.3	66.2	11.0	15.6	64.0	10.5	15.7	61.9	10.0	15.9	57.6	9.08	16.1
		96	74.7	12.7	16.9	70.4	11.7	17.1	66.2	10.7	17.2	64.0	10.2	17.3	61.9	9.75	17.4	57.6	8.86	17.6
		120	74.7	12.6	17.5	70.4	11.6	17.7	66.2	10.6	17.8	64.0	10.1	17.9	61.9	9.67	17.9	57.6	8.79	18.1
	25	50	74.7	11.4	19.0	70.4	10.5	19.3	66.2	9.64	19.6	64.0	9.22	19.8	61.9	8.82	19.9	57.6	8.04	20.3
		60	74.7	11.3	20.0	70.4	10.4	20.2	66.2	9.54	20.5	64.0	9.13	20.6	61.9	8.73	20.8	57.6	7.96	21.0
		96	74.7	11.0	21.8	70.4	10.1	22.0	66.2	9.31	22.2	64.0	8.91	22.3	61.9	8.52	22.3	57.6	7.78	22.5
		120	74.7	10.9	22.5	70.4	10.1	22.6	66.2	9.24	22.7	64.0	8.84	22.8	61.9	8.46	22.9	57.6	7.72	23.0
	30	50	74.7	10.0	23.8	70.4	9.24	24.2	66.2	8.51	24.5	64.0	8.16	24.7	61.9	7.82	24.8	57.6	7.15	25.2
		60	74.7	9.91	24.8	70.4	9.15	25.1	66.2	8.43	25.4	64.0	8.08	25.5	61.9	7.74	25.7	57.6	7.09	26.0
		96	74.7	9.66	26.8	70.4	8.93	26.9	66.2	8.23	27.1	64.0	7.90	27.2	61.9	7.57	27.3	57.6	6.93	27.5
		120	74.7	9.59	27.4	70.4	8.86	27.5	66.2	8.17	27.7	64.0	7.84	27.8	61.9	7.51	27.8	57.6	6.88	28.0
	35	50	74.7	8.90	28.7	70.4	8.25	29.1	66.2	7.62	29.4	64.0	7.32	29.6	61.9	7.02	29.8	57.6	6.45	30.1
		60	74.7	8.82	29.8	70.4	8.17	30.0	66.2	7.55	30.3	64.0	7.25	30.5	61.9	6.96	30.6	57.6	6.40	30.9
		96	74.7	8.61	31.7	70.4	7.98	31.9	66.2	7.38	32.1	64.0	7.09	32.2	61.9	6.81	32.3	57.6	6.26	32.4
		120	74.7	8.55	32.4	70.4	7.92	32.5	66.2	7.33	32.7	64.0	7.04	32.7	61.9	6.76	32.8	57.6	6.22	33.0
	40	50	74.7	8.68	33.7	70.4	8.04	34.0	66.2	7.43	34.4	64.0	7.13	34.6	61.9	6.85	34.7	57.6	6.29	35.1
		60	74.7	8.60	34.7	70.4	7.97	35.0	66.2	7.36	35.3	64.0	7.07	35.5	61.9	6.79	35.6	57.6	6.24	35.9
		96	74.7	8.40	36.7	70.4	7.78	36.9	66.2	7.20	37.1	64.0	6.91	37.2	61.9	6.64	37.2	57.6	6.10	37.4
		120	74.7	8.33	37.4	70.4	7.73	37.5	66.2	7.15	37.7	64.0	6.87	37.7	61.9	6.59	37.8	57.6	6.06	37.9
	45	50	74.7	8.47	38.7	70.4	7.84	39.0	66.2	7.24	39.4	64.0	6.96	39.5	61.9	6.67	39.7	57.6	6.13	40.1
		60	74.7	8.39	39.7	70.4	7.77	40.0	66.2	7.18	40.3	64.0	6.89	40.5	61.9	6.62	40.6	57.6	6.08	40.9
		96	74.7	8.19	41.7	70.4	7.59	41.9	66.2	7.02	42.1	64.0	6.74	42.1	61.9	6.47	42.2	57.6	5.95	42.4
		120	74.7	8.12	42.4	70.4	7.53	42.5	66.2	6.97	42.6	64.0	6.69	42.7	61.9	6.43	42.8	57.6	5.91	42.9
60	10	50	50.9	9.37	6.03	50.6	9.65	6.08	50.3	9.96	6.15	50.0	10.1	6.19	49.8	10.3	6.22	49.3	10.7	6.31
		60	57.4	12.0	6.38	57.0	12.4	6.45	56.5	12.8	6.52	54.9	12.2	6.61	53.1	11.6	6.70	49.4	10.4	6.90
		96	64.0	14.2	7.52	60.3	13.0	7.64	56.7	11.9	7.77	54.9	11.3	7.83	53.1	10.8	7.90	49.4	9.77	8.03
		120	64.0	13.7	8.00	60.3	12.6	8.10	56.7	11.5	8.20	54.9	11.0	8.25	53.1	10.5	8.31	49.4	9.51	8.41
	15	50	64.0	13.6	10.2	60.3	12.5	10.4	56.7	11.4	10.7	54.9	10.9	10.8	53.1	10.4	10.9	49.4	9.44	11.2
		60	64.0	13.1	10.9	60.3	12.0	11.2	56.7	11.0	11.4	54.9	10.5	11.5	53.1	10.0	11.6	49.4	9.11	11.8
		96	64.0	11.9	12.4	60.3	10.9	12.5	56.7	10.0	12.7	54.9	9.59	12.7	53.1	9.17	12.8	49.4	8.34	13.0
		120	64.0	11.5	12.9	60.3	10.6	13.0	56.7	9.73	13.1	54.9	9.31	13.2	53.1	8.90	13.2	49.4	8.11	13.4
	20	50	64.0	10.6	14.9	60.3	9.75	15.2	56.7	8.97	15.4	54.9	8.59	15.6	53.1	8.22	15.7	49.4	7.51	16.0
		60	64.0	10.5	15.7	60.3	9.66	16.0	56.7	8.88	16.2	54.9	8.51	16.3	53.1	8.14	16.4	49.4	7.44	16.7
		96	64.0	10.2	17.3	60.3	9.42	17.5	56.7	8.67	17.6	54.9	8.31	17.7	53.1	7.95	17.8	49.4	7.27	17.9
		120	64.0	10.1	17.9	60.3	9.35	18.0	56.7	8.60	18.1	54.9	8.24	18.1	53.1	7.89	18.2	49.4	7.22	18.3
	25	50	64.0	9.21	19.8	60.3	8.53	20.0	56.7	7.87	20.3	54.9	7.55	20.5	53.1	7.24	20.6	49.4	6.64	20.9
		60	64.0	9.13	20.6	60.3	8.45	20.9	56.7	7.80	21.1	54.9	7.48	21.2	53.1	7.18	21.3	49.4	6.58	21.6
		96	64.0	8.91	22.3	60.3	8.25	22.4	56.7	7.62	22.6	54.9	7.31	22.6	53.1	7.02	22.7	49.4	6.44	22.9
		120	64.0	8.84	22.8	60.3	8.18	22.9	56.7	7.56	23.0	54.9	7.26	23.1	53.1	6.97	23.2	49.4	6.40	23.3
	30	50	64.0	8.15	24.7	60.3	7.57	25.0	56.7	7.01	25.3	54.9	6.74	25.4	53.1	6.47	25.5	49.4	5.96	25.8
		60	64.0	8.08	25.5	60.3	7.50	25.8	56.7	6.95	26.0	54.9	6.68	26.2	53.1	6.42	26.3	49.4	5.91	26.5
		96	64.0	7.89	27.2	60.3	7.33	27.4	56.7	6.80	27.5	54.9	6.54	27.6	53.1	6.28	27.7	49.4	5.79	27.8
		120	64.0	7.83	27.8	60.3	7.28	27.9	56.7	6.75	28.0	54.9	6.49	28.1	53.1	6.24	28.1	49.4	5.76	28.3
	35	50	64.0	7.31	29.6	60.3	6.81	29.9	56.7	6.33	30.2	54.9	6.09	30.3	53.1	5.86	30.5	49.4	5.42	30.8
		60	64.0	7.25	30.5	60.3	6.75	30.7	56.7	6.27	31.0	54.9	6.04	31.1	53.1	5.82	31.2	49.4	5.38	31.5
		96	64.0	7.09	32.2	60.3	6.61	32.3	56.7	6.14	32.5	54.9	5.92	32.6	53.1	5.70	32.6	49.4	5.28	32.8
		120	64.0	7.04	32.7	60.3	6.56	32.9	56.7	6.10	33.0	54.9	5.88	33.0	53.1	5.66	33.1	49.4	5.24	33.2
	40	50	64.0	7.13	34.6	60.3	6.64	34.9	56.7	6.17	35.2	54.9	5.94	35.3	53.1	5.72	35.5	49.4	5.29	35.8
		60	64.0	7.07	35.5	60.3	6.58	35.7	56.7	6.12	36.0	54.9	5.89	36.1	53.1	5.67	36.2	49.4	5.25	36.5
		96	64.0	6.91	37.2	60.3	6.44	37.3	56.7	5.99	37.5	54.9	5.77	37.6	53.1	5.56	37.6	49.4	5.15	37.8
		120	64.0	6.86	37.7	60.3	6.40	37.9	56.7	5.95	38.0	54.9	5.73	38.0	53.1	5.52	38.1	49.4	5.11	38.2
	45	50	64.0	6.95	39.5	60.3	6.47	39.9	56.7	6.01	40.2	54.9	5.79	40.3	53.1	5.57	40.5	49.4	5.15	40.8
		60	64.0	6.89	40.5	60.3	6.42	40.7	56.7	5.96	41.0	54.9	5.74	41.1	53.1	5.53	41.2	49.4	5.12	41.5
		96	64.0	6.74	42.2	60.3	6.28	42.3	56.7	5.84	42.5	54.9	5.63	42.5	53.1	5.42	42.6	49.4	5.02	42.8
		120	64.0	6.69	42.7	60.3	6.24	42.8	56.7	5.80	43.0	54.9	5.59	43.0	53.1	5.38	43.1	49.4	4.99	43.2

3 Capacity tables

3 - 3 Heating capacity tables

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	50	49.9	10.3	6.22	49.5	10.6	6.29	47.3	10.0	6.44	45.7	9.53	6.54	44.2	9.05	6.64	41.2	8.14	6.84
		60	53.3	11.7	6.69	50.3	10.7	6.85	47.3	9.76	7.01	45.7	9.30	7.10	44.2	8.85	7.18	41.2	7.99	7.36
		96	53.3	10.9	7.89	50.3	10.0	8.00	47.3	9.19	8.11	45.7	8.80	8.16	44.2	8.41	8.22	41.2	7.67	8.33
		120	53.3	10.6	8.30	50.3	9.74	8.39	47.3	8.96	8.48	45.7	8.58	8.52	44.2	8.21	8.57	41.2	7.50	8.66
	15	50	53.3	10.5	10.9	50.3	9.67	11.1	47.3	8.89	11.3	45.7	8.51	11.4	44.2	8.15	11.6	41.2	7.44	11.8
		60	53.3	10.1	11.6	50.3	9.33	11.7	47.3	8.59	11.9	45.7	8.23	12.0	44.2	7.88	12.1	41.2	7.20	12.3
		96	53.3	9.23	12.8	50.3	8.54	12.9	47.3	7.88	13.0	45.7	7.56	13.1	44.2	7.25	13.2	41.2	6.64	13.3
		120	53.3	8.96	13.2	50.3	8.29	13.3	47.3	7.66	13.4	45.7	7.35	13.5	44.2	7.05	13.5	41.2	6.47	13.6
	20	50	53.3	8.27	15.7	50.3	7.67	15.9	47.3	7.10	16.2	45.7	6.83	16.3	44.2	6.55	16.4	41.2	6.03	16.6
		60	53.3	8.20	16.4	50.3	7.61	16.6	47.3	7.04	16.8	45.7	6.77	16.9	44.2	6.50	17.0	41.2	5.98	17.2
		96	53.3	8.01	17.7	50.3	7.43	17.9	47.3	6.88	18.0	45.7	6.62	18.1	44.2	6.36	18.1	41.2	5.86	18.2
		120	53.3	7.95	18.2	50.3	7.38	18.3	47.3	6.84	18.4	45.7	6.57	18.4	44.2	6.32	18.5	41.2	5.82	18.6
	25	50	53.3	7.28	20.6	50.3	6.78	20.8	47.3	6.30	21.1	45.7	6.07	21.2	44.2	5.84	21.3	41.2	5.40	21.6
		60	53.3	7.22	21.3	50.3	6.72	21.5	47.3	6.25	21.7	45.7	6.02	21.8	44.2	5.79	21.9	41.2	5.36	22.1
		96	53.3	7.06	22.7	50.3	6.58	22.8	47.3	6.12	23.0	45.7	5.89	23.0	44.2	5.67	23.1	41.2	5.25	23.2
		120	53.3	7.01	23.2	50.3	6.53	23.3	47.3	6.07	23.4	45.7	5.85	23.4	44.2	5.64	23.5	41.2	5.22	23.6
	30	50	53.3	6.51	25.5	50.3	6.08	25.8	47.3	5.67	26.0	45.7	5.47	26.2	44.2	5.28	26.3	41.2	4.90	26.5
		60	53.3	6.46	26.3	50.3	6.03	26.5	47.3	5.63	26.7	45.7	5.43	26.8	44.2	5.24	26.9	41.2	4.86	27.1
		96	53.3	6.32	27.7	50.3	5.91	27.8	47.3	5.51	27.9	45.7	5.32	28.0	44.2	5.14	28.1	41.2	4.77	28.2
		120	53.3	6.28	28.1	50.3	5.87	28.2	47.3	5.48	28.3	45.7	5.29	28.4	44.2	5.10	28.4	41.2	4.75	28.5
	35	50	53.3	5.90	30.5	50.3	5.53	30.7	47.3	5.17	31.0	45.7	5.00	31.1	44.2	4.83	31.2	41.2	4.50	31.5
		60	53.3	5.85	31.2	50.3	5.48	31.4	47.3	5.13	31.6	45.7	4.96	31.8	44.2	4.79	31.9	41.2	4.47	32.1
		96	53.3	5.73	32.6	50.3	5.38	32.8	47.3	5.04	32.9	45.7	4.87	33.0	44.2	4.71	33.0	41.2	4.39	33.2
		120	53.3	5.69	33.1	50.3	5.34	33.2	47.3	5.00	33.3	45.7	4.84	33.4	44.2	4.68	33.4	41.2	4.37	33.5
	40	50	53.3	5.75	35.5	50.3	5.39	35.7	47.3	5.04	36.0	45.7	4.87	36.1	44.2	4.71	36.2	41.2	4.39	36.5
		60	53.3	5.70	36.2	50.3	5.35	36.4	47.3	5.00	36.6	45.7	4.84	36.7	44.2	4.67	36.9	41.2	4.36	37.1
		96	53.3	5.59	37.6	50.3	5.24	37.8	47.3	4.91	37.9	45.7	4.75	38.0	44.2	4.59	38.0	41.2	4.28	38.2
		120	53.3	5.55	38.1	50.3	5.21	38.2	47.3	4.88	38.3	45.7	4.72	38.4	44.2	4.56	38.4	41.2	4.26	38.5
	45	50	53.3	5.61	40.4	50.3	5.25	40.7	47.3	4.91	41.0	45.7	4.75	41.1	44.2	4.59	41.2	41.2	4.28	41.5
		60	53.3	5.56	41.2	50.3	5.21	41.4	47.3	4.88	41.6	45.7	4.72	41.7	44.2	4.56	41.8	41.2	4.25	42.1
		96	53.3	5.45	42.6	50.3	5.11	42.8	47.3	4.79	42.9	45.7	4.63	43.0	44.2	4.48	43.0	41.2	4.18	43.2
		120	53.3	5.41	43.1	50.3	5.08	43.2	47.3	4.76	43.3	45.7	4.60	43.4	44.2	4.45	43.4	41.2	4.15	43.5

3 Capacity tables

3 - 4 Heating capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	80	20.2	4.28	7.15	20.5	4.12	7.06	20.8	4.01	6.99	20.9	3.97	6.97	21.0	3.94	6.95	21.1	3.93	6.92
		96	22.6	4.49	7.30	22.8	4.40	7.25	23.0	4.35	7.22	23.0	4.34	7.21	23.1	4.34	7.20	23.1	4.38	7.20
		120	25.3	4.87	7.56	25.5	4.85	7.54	25.5	4.87	7.53	25.5	4.89	7.53	25.5	4.92	7.54	25.5	5.02	7.55
		150	27.6	5.30	7.86	27.7	5.33	7.86	27.7	5.39	7.87	27.7	5.44	7.88	27.6	5.49	7.88	27.5	5.63	7.91
	15	80	29.9	5.59	10.7	29.8	5.66	10.7	29.8	5.77	10.7	29.7	5.83	10.7	29.7	5.91	10.7	29.5	6.08	10.8
		96	30.6	5.62	11.3	30.6	5.70	11.3	30.5	5.82	11.3	30.4	5.89	11.3	30.3	5.97	11.4	30.2	6.14	11.4
		120	31.4	5.66	11.9	31.4	5.76	11.9	31.3	5.88	12.0	31.2	5.96	12.0	31.1	6.04	12.0	30.9	6.23	12.0
		150	32.1	5.70	12.5	32.0	5.81	12.5	31.9	5.94	12.5	31.8	6.02	12.5	31.7	6.10	12.6	31.5	6.29	12.6
	20	80	33.0	5.76	15.1	32.9	5.88	15.2	32.8	6.02	15.2	32.7	6.10	15.2	32.6	6.19	15.3	32.4	6.39	15.3
		96	33.8	5.81	15.8	33.7	5.93	15.9	33.5	6.08	15.9	33.4	6.17	15.9	33.3	6.26	16.0	33.1	6.46	16.0
		120	34.7	5.87	16.6	34.6	6.01	16.6	34.4	6.16	16.6	34.3	6.25	16.7	34.2	6.34	16.7	33.9	6.55	16.7
		150	35.4	5.93	17.2	35.3	6.06	17.2	35.1	6.23	17.2	34.9	6.32	17.3	34.8	6.41	17.3	34.5	6.62	17.3
	25	80	36.2	5.99	19.6	36.1	6.14	19.6	35.8	6.31	19.7	35.7	6.40	19.7	35.6	6.49	19.8	35.3	6.71	19.9
		96	37.1	6.06	20.4	36.9	6.21	20.4	36.6	6.38	20.5	36.5	6.47	20.5	36.4	6.57	20.6	35.7	6.63	20.7
		120	38.0	6.13	21.2	37.8	6.29	21.2	37.6	6.46	21.3	37.4	6.56	21.3	37.3	6.66	21.3	35.7	6.35	21.5
		150	38.7	6.20	21.9	38.5	6.35	21.9	38.3	6.53	22.0	38.1	6.63	22.0	38.0	6.73	22.0	35.7	6.16	22.2
	30	80	39.5	6.26	24.1	39.2	6.42	24.1	39.0	6.61	24.2	38.8	6.70	24.2	38.3	6.68	24.3	35.7	5.98	24.7
		96	40.3	6.33	24.9	40.1	6.50	25.0	39.8	6.68	25.1	39.6	6.78	25.1	38.3	6.44	25.2	35.7	5.76	25.5
		120	41.3	6.42	25.8	41.1	6.59	25.9	40.8	6.77	25.9	39.6	6.50	26.0	38.3	6.17	26.2	35.7	5.53	26.4
		150	42.1	6.49	26.6	41.9	6.66	26.6	41.0	6.63	26.7	39.6	6.30	26.8	38.3	5.98	26.9	35.7	5.36	27.1
	35	80	42.7	6.55	28.5	42.5	6.72	28.6	41.0	6.48	28.8	39.6	6.16	29.0	38.3	5.85	29.2	35.7	5.25	29.5
		96	43.7	6.62	29.5	43.4	6.80	29.5	41.0	6.24	29.8	39.6	5.94	30.0	38.3	5.64	30.1	35.7	5.06	30.4
		120	44.8	6.71	30.5	43.6	6.60	30.6	41.0	5.99	30.8	39.6	5.69	30.9	38.3	5.41	31.1	35.7	4.86	31.3
		150	45.6	6.79	31.3	43.6	6.39	31.4	41.0	5.80	31.6	39.6	5.52	31.7	38.3	5.25	31.8	35.7	4.72	32.0
	40	80	46.1	7.05	33.0	43.6	6.48	33.4	41.0	6.05	33.7	39.6	5.76	33.9	38.3	5.47	34.1	35.7	4.92	34.5
		96	46.2	6.84	34.1	43.6	6.24	34.4	41.0	5.84	34.8	39.6	5.55	34.9	38.3	5.28	35.1	35.7	4.75	35.4
		120	46.2	6.55	35.3	43.6	6.16	35.5	41.0	5.60	35.8	39.6	5.33	35.9	38.3	5.07	36.0	35.7	4.57	36.3
		150	46.2	6.35	36.2	43.6	5.97	36.4	41.0	5.43	36.6	39.6	5.18	36.7	38.3	4.92	36.8	35.7	4.44	37.0
	45	80	46.2	6.71	37.9	43.6	6.31	38.3	41.0	5.78	38.7	39.6	5.51	38.9	38.3	5.24	39.1	35.7	4.73	39.5
		96	46.2	6.67	39.1	43.6	6.08	39.4	41.0	5.58	39.7	39.6	5.32	39.9	38.3	5.06	40.0	35.7	4.57	40.4
		120	46.2	6.39	40.2	43.6	5.88	40.5	41.0	5.36	40.7	39.6	5.11	40.9	38.3	4.87	41.0	35.7	4.40	41.3
		150	46.2	6.19	41.2	43.6	5.71	41.4	41.0	5.21	41.6	39.6	4.97	41.7	38.3	4.73	41.8	35.7	4.28	42.0
120	10	80	20.6	4.08	7.03	20.9	3.99	6.98	21.0	3.94	6.94	21.1	3.93	6.93	21.1	3.93	6.92	21.2	3.96	6.92
		96	22.9	4.38	7.24	23.0	4.34	7.21	23.1	4.35	7.20	23.1	4.36	7.20	23.1	4.39	7.20	23.1	4.47	7.22
		120	25.5	4.85	7.53	25.5	4.88	7.53	25.5	4.94	7.54	25.5	4.98	7.55	25.5	5.03	7.56	25.4	5.16	7.58
		150	27.7	5.34	7.86	27.7	5.42	7.87	27.6	5.52	7.89	27.6	5.58	7.90	27.5	5.65	7.91	27.4	5.82	7.94
	15	80	29.8	5.70	10.7	29.8	5.80	10.7	29.6	5.94	10.8	29.6	6.02	10.8	29.5	6.10	10.8	29.3	6.29	10.9
		96	30.5	5.74	11.3	30.4	5.86	11.3	30.3	6.00	11.4	30.2	6.08	11.4	30.1	6.17	11.4	29.9	6.36	11.5
		120	31.4	5.80	11.9	31.2	5.92	12.0	31.1	6.07	12.0	31.0	6.16	12.0	30.9	6.25	12.1	30.7	6.45	12.1
		150	32.0	5.85	12.5	31.9	5.98	12.5	31.7	6.14	12.6	31.6	6.22	12.6	31.5	6.32	12.6	31.3	6.52	12.6
	20	80	32.9	5.92	15.2	32.7	6.06	15.2	32.6	6.23	15.3	32.5	6.32	15.3	32.3	6.41	15.4	32.1	6.62	15.4
		96	33.6	5.98	15.9	33.5	6.13	15.9	33.3	6.30	16.0	33.2	6.39	16.0	33.0	6.49	16.0	32.8	6.70	16.1
		120	34.5	6.06	16.6	34.3	6.21	16.6	34.1	6.38	16.7	34.0	6.48	16.7	33.9	6.57	16.7	32.9	6.50	16.8
		150	35.2	6.12	17.2	35.0	6.27	17.3	34.8	6.45	17.3	34.6	6.55	17.3	34.5	6.65	17.3	32.9	6.30	17.5
	25	80	36.0	6.19	19.7	35.8	6.36	19.7	35.5	6.53	19.8	35.4	6.63	19.8	35.3	6.73	19.9	32.9	6.07	20.2
		96	36.8	6.26	20.4	36.6	6.43	20.5	36.3	6.61	20.6	36.2	6.71	20.6	35.4	6.54	20.7	32.9	5.85	21.0
		120	37.7	6.35	21.3	37.5	6.52	21.3	37.2	6.70	21.4	36.6	6.61	21.4	35.4	6.26	21.5	32.9	5.61	21.7
		150	38.4	6.42	21.9	38.2	6.59	22.0	37.8	6.74	22.0	36.6	6.40	22.1	35.4	6.07	22.2	32.9	5.44	22.4
	30	80	39.1	6.49	24.2	38.9	6.66	24.2	37.8	6.54	24.4	36.6	6.21	24.6	35.4	5.90	24.7	32.9	5.29	25.0
		96	40.0	6.56	25.0	39.7	6.74	25.1	37.8	6.30	25.3	36.6	5.99	25.4	35.4	5.68	25.6	32.9	5.10	25.8
		120	41.0	6.65	25.9	40.2	6.66	26.0	37.8	6.04	26.2	36.6	5.74	26.3	35.4	5.45	26.4	32.9	4.90	26.7
		150	41.8	6.72	26.7	40.2	6.45	26.8	37.8	5.85	26.9	36.6	5.57	27.0	35.4	5.29	27.1	32.9	4.76	27.3
	35	80	42.3	6.79	28.6	40.2	6.30	28.9	37.8	5.72	29.3	36.6	5.45	29.4	35.4	5.18	29.6	32.9	4.66	29.9
		96	42.7	6.66	29.6	40.2	6.07	29.9	37.8	5.52	30.2	36.6	5.25	30.3	35.4	4.99	30.5	32.9	4.50	30.8
		120	42.7	6.38	30.7	40.2	5.82	30.9	37.8	5.30	31.1	36.6	5.04	31.2	35.4	4.80	31.3	32.9	4.32	31.6
		150	42.7	6.18	31.5	40.2	5.65	31.7	37.8	5.14	31.9	36.6	4.89	32.0	35.4	4.66	32.1	32.9	4.20	32.3
	40	80	42.7	6.26	33.5	40.2	5.89	33.8	37.8	5.36	34.2	36.6	5.11	34.4	35.4	4.86	34.5	32.9	4.38	34.9
		96	42.7	6.21	34.6	40.2	5.68	34.8	37.8	5.17	35.1	36.6	4.93	35.3	35.4	4.69	35.4	32.9	4.24	35.7
		120	42.7	5.96	35.6	40.2	5.45	35.8	37.8	4.97	36.1	36.6	4.74	36.2	35.4	4.51	36.3	32.9	4.08	36.6
		150	42.7	5.78	36.5	40.2	5.29	36.7	37.8	4.83	36.8	36.6	4.60	36.9	35.4	4.38	37.0	32.9	3.97	37.2
	45	80	42.7	6.11	38.5	40.2	5.63	38.8	37.8	5.14	39.1	36.6	4.90	39.3	35.4	4.67	39.5	32.9	4.22	39.9
		96	42.7	5.93	39.5	40.2	5.44	39.8	37.8	4.96	40.1	36.6	4.74	40.2	35.4	4.51	40.4	32.9	4.09	40.7
		120	42.7	5.70	40.6	40.2	5.22	40.8	37.8	4.77	41.1	36.6	4.56	41.2	35.4	4.35	41.3	32.9	3.94	41.5
		150	42.7	5.53	41.5	40.2	5.07	41.6	37.8	4.64	41.8	36.6	4.43	41.9	35.4	4.23	42.0	32.9	3.83	42.2

3 Capacity tables

3 - 4 Heating capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	80	20.9	3.96	6.96	21.1	3.93	6.93	21.1	3.93	6.92	21.2	3.94	6.91	21.2	3.97	6.92	21.1	4.04	6.93
		96	23.1	4.34	7.20	23.1	4.36	7.20	23.1	4.41	7.20	23.1	4.44	7.21	23.1	4.49	7.22	23.0	4.60	7.25
		120	25.5	4.90	7.53	25.5	4.97	7.54	25.5	5.07	7.56	25.4	5.13	7.58	25.4	5.19	7.59	25.2	5.34	7.63
		150	27.7	5.46	7.88	27.6	5.57	7.90	27.5	5.70	7.92	27.4	5.77	7.93	27.3	5.86	7.95	27.1	6.04	7.99
	15	80	29.7	5.86	10.7	29.6	6.00	10.8	29.4	6.15	10.8	29.3	6.24	10.9	29.2	6.34	10.9	29.0	6.54	11.0
		96	30.4	5.92	11.3	30.3	6.06	11.4	30.1	6.22	11.4	30.0	6.31	11.5	29.9	6.41	11.5	29.6	6.62	11.6
		120	31.2	5.99	12.0	31.0	6.14	12.0	30.8	6.31	12.1	30.7	6.40	12.1	30.6	6.50	12.1	30.2	6.63	12.2
		150	31.8	6.05	12.5	31.6	6.20	12.6	31.4	6.37	12.6	31.3	6.47	12.6	31.2	6.57	12.6	30.2	6.42	12.7
	20	80	32.7	6.14	15.2	32.5	6.29	15.3	32.3	6.47	15.4	32.1	6.57	15.4	32.0	6.67	15.5	30.2	6.14	15.7
		96	33.4	6.20	15.9	33.2	6.37	16.0	33.0	6.55	16.1	32.8	6.64	16.1	32.4	6.62	16.1	30.2	5.92	16.4
		120	34.2	6.29	16.7	34.0	6.45	16.7	33.8	6.64	16.8	33.5	6.69	16.8	32.4	6.34	16.9	30.2	5.68	17.1
		150	34.9	6.35	17.3	34.7	6.52	17.3	34.4	6.71	17.4	33.5	6.48	17.4	32.4	6.14	17.5	30.2	5.51	17.6
	25	80	35.7	6.44	19.8	35.4	6.61	19.8	34.7	6.57	20.0	33.5	6.24	20.1	32.4	5.92	20.3	30.2	5.31	20.5
		96	36.5	6.51	20.5	36.2	6.68	20.6	34.7	6.33	20.8	33.5	6.02	20.9	32.4	5.71	21.0	30.2	5.12	21.3
		120	37.4	6.60	21.3	36.9	6.69	21.4	34.7	6.07	21.6	33.5	5.77	21.7	32.4	5.48	21.8	30.2	4.92	22.0
		150	38.1	6.67	22.0	36.9	6.48	22.1	34.7	5.88	22.3	33.5	5.59	22.3	32.4	5.31	22.4	30.2	4.78	22.6
	30	80	38.7	6.75	24.3	36.9	6.29	24.5	34.7	5.71	24.8	33.5	5.44	25.0	32.4	5.16	25.1	30.2	4.65	25.4
		96	39.1	6.64	25.2	36.9	6.06	25.4	34.7	5.51	25.6	33.5	5.24	25.8	32.4	4.98	25.9	30.2	4.49	26.2
		120	39.1	6.37	26.1	36.9	5.81	26.3	34.7	5.29	26.5	33.5	5.03	26.6	32.4	4.79	26.7	30.2	4.31	26.9
		150	39.1	6.17	26.9	36.9	5.64	27.0	34.7	5.13	27.2	33.5	4.88	27.3	32.4	4.65	27.3	30.2	4.19	27.5
	35	80	39.1	6.03	29.1	36.9	5.51	29.4	34.7	5.02	29.7	33.5	4.78	29.8	32.4	4.55	30.0	30.2	4.10	30.3
		96	39.1	5.81	30.0	36.9	5.32	30.3	34.7	4.84	30.5	33.5	4.61	30.7	32.4	4.39	30.8	30.2	3.97	31.1
		120	39.1	5.58	31.0	36.9	5.10	31.2	34.7	4.65	31.4	33.5	4.44	31.5	32.4	4.22	31.6	30.2	3.82	31.8
		150	39.1	5.41	31.8	36.9	4.95	31.9	34.7	4.52	32.1	33.5	4.31	32.2	32.4	4.10	32.3	30.2	3.71	32.5
	40	80	39.1	5.64	34.0	36.9	5.17	34.3	34.7	4.72	34.6	33.5	4.50	34.8	32.4	4.29	35.0	30.2	3.88	35.3
		96	39.1	5.44	35.0	36.9	4.99	35.2	34.7	4.56	35.5	33.5	4.35	35.6	32.4	4.14	35.8	30.2	3.75	36.1
		120	39.1	5.23	36.0	36.9	4.79	36.2	34.7	4.38	36.4	33.5	4.18	36.5	32.4	3.99	36.6	30.2	3.62	36.8
		150	39.1	5.07	36.7	36.9	4.66	36.9	34.7	4.26	37.1	33.5	4.07	37.2	32.4	3.88	37.3	30.2	3.52	37.5
	45	80	39.1	5.40	39.0	36.9	4.96	39.3	34.7	4.53	39.6	33.5	4.33	39.8	32.4	4.13	39.9	30.2	3.75	40.3
		96	39.1	5.21	39.9	36.9	4.79	40.2	34.7	4.39	40.5	33.5	4.19	40.6	32.4	4.00	40.8	30.2	3.63	41.0
		120	39.1	5.01	40.9	36.9	4.61	41.1	34.7	4.22	41.4	33.5	4.04	41.5	32.4	3.86	41.6	30.2	3.51	41.8
		150	39.1	4.87	41.7	36.9	4.48	41.9	34.7	4.11	42.1	33.5	3.93	42.2	32.4	3.75	42.3	30.2	3.42	42.4
100	10	80	21.1	3.93	6.92	21.2	3.94	6.91	21.2	3.99	6.92	21.2	4.03	6.93	21.1	4.07	6.94	21.0	4.17	6.98
		96	23.1	4.38	7.20	23.1	4.44	7.21	23.1	4.53	7.23	23.0	4.58	7.25	23.0	4.64	7.26	22.8	4.77	7.30
		120	25.5	5.02	7.55	25.4	5.13	7.58	25.3	5.25	7.60	25.2	5.32	7.62	25.2	5.40	7.64	25.0	5.57	7.68
		150	27.5	5.64	7.91	27.4	5.78	7.93	27.2	5.93	7.96	27.1	6.02	7.98	27.1	6.11	8.00	26.8	6.31	8.04
	15	80	29.5	6.09	10.8	29.3	6.24	10.9	29.1	6.42	10.9	29.0	6.51	11.0	28.9	6.61	11.0	27.5	6.19	11.2
		96	30.2	6.16	11.4	30.0	6.32	11.5	29.8	6.49	11.5	29.7	6.59	11.6	29.5	6.66	11.6	27.5	5.96	11.8
		120	30.9	6.24	12.1	30.7	6.40	12.1	30.5	6.58	12.1	30.4	6.68	12.2	29.5	6.39	12.2	27.5	5.72	12.4
		150	31.5	6.30	12.6	31.3	6.47	12.6	31.1	6.65	12.7	30.5	6.52	12.7	29.5	6.19	12.8	27.5	5.54	12.9
	20	80	32.4	6.40	15.3	32.1	6.57	15.4	31.5	6.56	15.5	30.5	6.24	15.7	29.5	5.92	15.8	27.5	5.31	16.0
		96	33.1	6.47	16.0	32.8	6.64	16.1	31.5	6.30	16.2	30.5	6.01	16.3	29.5	5.70	16.5	27.5	5.12	16.7
		120	33.9	6.56	16.7	33.5	6.68	16.8	31.5	6.06	17.0	30.5	5.76	17.0	29.5	5.47	17.1	27.5	4.91	17.3
		150	34.5	6.63	17.3	33.5	6.47	17.4	31.5	5.87	17.6	30.5	5.59	17.6	29.5	5.31	17.7	27.5	4.77	17.8
	25	80	35.3	6.72	19.9	33.5	6.24	20.1	31.5	5.67	20.4	30.5	5.39	20.5	29.5	5.12	20.6	27.5	4.61	20.9
		96	35.5	6.59	20.7	33.5	6.01	20.9	31.5	5.46	21.1	30.5	5.20	21.2	29.5	4.94	21.3	27.5	4.45	21.6
		120	35.5	6.31	21.5	33.5	5.77	21.7	31.5	5.24	21.9	30.5	4.99	22.0	29.5	4.75	22.0	27.5	4.28	22.2
		150	35.5	6.12	22.2	33.5	5.59	22.3	31.5	5.09	22.5	30.5	4.84	22.5	29.5	4.61	22.6	27.5	4.15	22.8
	30	80	35.5	5.94	24.7	33.5	5.43	25.0	31.5	4.95	25.2	30.5	4.71	25.4	29.5	4.48	25.5	27.5	4.05	25.8
		96	35.5	5.73	25.5	33.5	5.24	25.8	31.5	4.77	26.0	30.5	4.55	26.1	29.5	4.33	26.2	27.5	3.91	26.5
		120	35.5	5.50	26.4	33.5	5.03	26.6	31.5	4.59	26.8	30.5	4.37	26.9	29.5	4.16	27.0	27.5	3.76	27.2
		150	35.5	5.33	27.1	33.5	4.88	27.3	31.5	4.45	27.4	30.5	4.25	27.5	29.5	4.05	27.6	27.5	3.66	27.7
	35	80	35.5	5.21	29.6	33.5	4.78	29.8	31.5	4.36	30.1	30.5	4.16	30.3	29.5	3.96	30.4	27.5	3.59	30.7
		96	35.5	5.03	30.4	33.5	4.61	30.7	31.5	4.21	30.9	30.5	4.02	31.0	29.5	3.83	31.2	27.5	3.47	31.4
		120	35.5	4.83	31.3	33.5	4.43	31.5	31.5	4.05	31.7	30.5	3.87	31.8	29.5	3.69	31.9	27.5	3.35	32.1
		150	35.5	4.69	32.1	33.5	4.31	32.2	31.5	3.94	32.4	30.5	3.76	32.4	29.5	3.59	32.5	27.5	3.26	32.7
	40	80	35.5	4.90	34.5	33.5	4.50	34.8	31.5	4.11	35.1	30.5	3.93	35.2	29.5	3.75	35.4	27.5	3.41	35.7
		96	35.5	4.73	35.4	33.5	4.34	35.6	31.5	3.98	35.9	30.5	3.80	36.0	29.5	3.63	36.1	27.5	3.30	36.4
		120	35.5	4.55	36.3	33.5	4.18	36.5	31.5	3.83	36.7	30.5	3.66	36.8	29.5	3.50	36.9	27.5	3.18	37.1
		150	35.5	4.42	37.0	33.5	4.06	37.2	31.5	3.73	37.3	30.5	3.57	37.4	29.5	3.41	37.5	27.5	3.10	37.7
	45	80	35.5	4.70	39.5	33.5	4.33	39.8	31.5	3.97	40.1	30.5	3.80	40.2	29.5	3.63	40.4	27.5	3.31	40.7
		96	35.5	4.55	40.4	33.5	4.19	40.6	31.5	3.85	40.9	30.5	3.68	41.0	29.5	3.52	41.1	27.5	3.21	41.4
		120	35.5	4.38	41.3	33.5	4.03	41.5	31.5	3.71	41.7	30.5	3.55	41.8	29.5	3.40	41.9	27.5	3.10	42.1
		150	35.5	4.25	42.0	33.5	3.93	42.2	31.5	3.61	42.3	30.5	3.46	42.4	29.5	3.31	42.5	27.5	3.02	42.7

3 Capacity tables

3 - 4 Heating capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Com-bination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	80	21.2	3.98	6.92	21.1	4.04	6.93	21.1	4.12	6.96	21.0	4.17	6.98	21.0	4.22	6.99	20.9	4.35	7.04
		96	23.1	4.51	7.23	23.0	4.60	7.25	22.9	4.71	7.28	22.8	4.78	7.30	22.8	4.85	7.32	22.6	5.00	7.37
		120	25.3	5.22	7.60	25.2	5.35	7.63	25.1	5.49	7.66	25.0	5.57	7.68	24.9	5.66	7.70	24.7	5.84	7.75
		150	27.3	5.89	7.96	27.1	6.04	7.99	26.9	6.21	8.02	26.8	6.31	8.04	26.5	6.30	8.07	24.7	5.64	8.18
	15	80	29.2	6.37	10.9	29.0	6.54	11.0	28.4	6.51	11.1	27.4	6.18	11.2	26.5	5.87	11.3	24.7	5.26	11.5
		96	29.8	6.45	11.5	29.6	6.62	11.6	28.4	6.27	11.7	27.4	5.96	11.8	26.5	5.65	11.9	24.7	5.08	12.1
		120	30.6	6.54	12.1	30.2	6.62	12.2	28.4	6.01	12.3	27.4	5.71	12.4	26.5	5.43	12.5	24.7	4.87	12.6
		150	31.1	6.61	12.7	30.2	6.42	12.7	28.4	5.82	12.8	27.4	5.54	12.9	26.5	5.26	13.0	24.7	4.73	13.1
	20	80	32.0	6.71	15.5	30.2	6.14	15.7	28.4	5.57	15.9	27.4	5.30	16.0	26.5	5.04	16.1	24.7	4.53	16.4
		96	32.0	6.48	16.2	30.2	5.91	16.4	28.4	5.37	16.6	27.4	5.12	16.7	26.5	4.86	16.8	24.7	4.38	17.0
		120	32.0	6.21	16.9	30.2	5.67	17.1	28.4	5.16	17.2	27.4	4.91	17.3	26.5	4.67	17.4	24.7	4.21	17.6
		150	32.0	6.02	17.5	30.2	5.50	17.6	28.4	5.00	17.8	27.4	4.77	17.8	26.5	4.53	17.9	24.7	4.09	18.0
	25	80	32.0	5.80	20.3	30.2	5.31	20.5	28.4	4.83	20.8	27.4	4.60	20.9	26.5	4.38	21.0	24.7	3.96	21.3
		96	32.0	5.59	21.1	30.2	5.12	21.3	28.4	4.66	21.5	27.4	4.45	21.6	26.5	4.23	21.7	24.7	3.82	21.9
		120	32.0	5.37	21.8	30.2	4.91	22.0	28.4	4.48	22.1	27.4	4.27	22.2	26.5	4.07	22.3	24.7	3.68	22.5
		150	32.0	5.21	22.4	30.2	4.77	22.6	28.4	4.35	22.7	27.4	4.15	22.8	26.5	3.96	22.8	24.7	3.58	23.0
	30	80	32.0	5.06	25.2	30.2	4.64	25.4	28.4	4.24	25.7	27.4	4.04	25.8	26.5	3.85	25.9	24.7	3.49	26.2
		96	32.0	4.88	26.0	30.2	4.48	26.2	28.4	4.09	26.4	27.4	3.91	26.5	26.5	3.73	26.6	24.7	3.38	26.8
		120	32.0	4.69	26.7	30.2	4.31	26.9	28.4	3.94	27.1	27.4	3.76	27.2	26.5	3.59	27.3	24.7	3.26	27.4
		150	32.0	4.56	27.4	30.2	4.18	27.5	28.4	3.83	27.7	27.4	3.66	27.7	26.5	3.49	27.8	24.7	3.17	27.9
	35	80	32.0	4.46	30.1	30.2	4.10	30.3	28.4	3.75	30.6	27.4	3.59	30.7	26.5	3.42	30.9	24.7	3.11	31.1
		96	32.0	4.31	30.9	30.2	3.96	31.1	28.4	3.63	31.3	27.4	3.47	31.4	26.5	3.31	31.5	24.7	3.02	31.8
		120	32.0	4.14	31.7	30.2	3.81	31.9	28.4	3.50	32.0	27.4	3.35	32.1	26.5	3.20	32.2	24.7	2.91	32.4
		150	32.0	4.03	32.3	30.2	3.71	32.5	28.4	3.40	32.6	27.4	3.26	32.7	26.5	3.11	32.8	24.7	2.84	32.9
	40	80	32.0	4.21	35.0	30.2	3.87	35.3	28.4	3.56	35.6	27.4	3.40	35.7	26.5	3.25	35.8	24.7	2.97	36.1
		96	32.0	4.07	35.8	30.2	3.75	36.1	28.4	3.44	36.3	27.4	3.30	36.4	26.5	3.15	36.5	24.7	2.88	36.7
		120	32.0	3.92	36.6	30.2	3.61	36.8	28.4	3.32	37.0	27.4	3.18	37.1	26.5	3.05	37.2	24.7	2.78	37.4
		150	32.0	3.81	37.3	30.2	3.52	37.5	28.4	3.24	37.6	27.4	3.10	37.7	26.5	2.97	37.7	24.7	2.72	37.9
	45	80	32.0	4.06	40.0	30.2	3.75	40.3	28.4	3.45	40.5	27.4	3.31	40.7	26.5	3.17	40.8	24.7	2.89	41.1
		96	32.0	3.93	40.8	30.2	3.63	41.0	28.4	3.34	41.3	27.4	3.21	41.4	26.5	3.07	41.5	24.7	2.81	41.7
		120	32.0	3.79	41.6	30.2	3.50	41.8	28.4	3.23	42.0	27.4	3.10	42.1	26.5	2.97	42.2	24.7	2.71	42.4
		150	32.0	3.69	42.3	30.2	3.41	42.4	28.4	3.15	42.6	27.4	3.02	42.7	26.5	2.90	42.7	24.7	2.65	42.9
80	10	80	21.1	4.11	6.96	21.0	4.20	6.99	20.9	4.31	7.03	20.8	4.37	7.05	20.8	4.44	7.07	20.6	4.58	7.13
		96	22.9	4.71	7.28	22.8	4.82	7.32	22.6	4.96	7.36	22.6	5.03	7.38	22.5	5.11	7.41	22.0	5.10	7.48
		120	25.1	5.49	7.66	24.9	5.63	7.70	24.7	5.79	7.74	24.4	5.75	7.77	23.6	5.45	7.83	22.0	4.88	7.96
		150	26.9	6.21	8.02	26.8	6.37	8.05	25.2	5.82	8.15	24.4	5.53	8.20	23.6	5.25	8.25	22.0	4.71	8.35
	15	80	28.4	6.54	11.1	26.8	5.97	11.3	25.2	5.42	11.5	24.4	5.16	11.6	23.6	4.90	11.7	22.0	4.42	11.9
		96	28.4	6.30	11.7	26.8	5.75	11.9	25.2	5.23	12.0	24.4	4.98	12.1	23.6	4.73	12.2	22.0	4.26	12.4
		120	28.4	6.04	12.3	26.8	5.52	12.5	25.2	5.02	12.6	24.4	4.78	12.7	23.6	4.55	12.7	22.0	4.10	12.9
		150	28.4	5.85	12.8	26.8	5.35	12.9	25.2	4.87	13.1	24.4	4.64	13.1	23.6	4.42	13.2	22.0	3.98	13.3
	20	80	28.4	5.60	15.9	26.8	5.12	16.1	25.2	4.67	16.3	24.4	4.45	16.4	23.6	4.24	16.5	22.0	3.83	16.8
		96	28.4	5.40	16.6	26.8	4.94	16.7	25.2	4.51	16.9	24.4	4.30	17.0	23.6	4.09	17.1	22.0	3.70	17.3
		120	28.4	5.18	17.2	26.8	4.75	17.4	25.2	4.33	17.5	24.4	4.13	17.6	23.6	3.94	17.7	22.0	3.56	17.8
		150	28.4	5.03	17.8	26.8	4.61	17.9	25.2	4.21	18.0	24.4	4.02	18.1	23.6	3.83	18.1	22.0	3.47	18.2
	25	80	28.4	4.85	20.8	26.8	4.45	21.0	25.2	4.07	21.2	24.4	3.88	21.3	23.6	3.70	21.4	22.0	3.36	21.7
		96	28.4	4.69	21.5	26.8	4.30	21.6	25.2	3.93	21.8	24.4	3.76	21.9	23.6	3.58	22.0	22.0	3.25	22.2
		120	28.4	4.50	22.1	26.8	4.14	22.3	25.2	3.79	22.4	24.4	3.62	22.5	23.6	3.45	22.6	22.0	3.14	22.8
		150	28.4	4.37	22.7	26.8	4.02	22.8	25.2	3.68	22.9	24.4	3.52	23.0	23.6	3.36	23.1	22.0	3.05	23.2
	30	80	28.4	4.26	25.7	26.8	3.91	25.9	25.2	3.59	26.1	24.4	3.43	26.2	23.6	3.28	26.4	22.0	2.98	26.6
		96	28.4	4.11	26.4	26.8	3.78	26.6	25.2	3.47	26.8	24.4	3.32	26.9	23.6	3.17	27.0	22.0	2.89	27.2
		120	28.4	3.96	27.1	26.8	3.64	27.2	25.2	3.35	27.4	24.4	3.20	27.5	23.6	3.06	27.5	22.0	2.79	27.7
		150	28.4	3.85	27.7	26.8	3.54	27.8	25.2	3.26	27.9	24.4	3.12	28.0	23.6	2.98	28.0	22.0	2.72	28.2
	35	80	28.4	3.77	30.6	26.8	3.48	30.8	25.2	3.19	31.1	24.4	3.06	31.2	23.6	2.93	31.3	22.0	2.67	31.5
		96	28.4	3.65	31.3	26.8	3.36	31.5	25.2	3.10	31.7	24.4	2.97	31.8	23.6	2.84	31.9	22.0	2.59	32.1
		120	28.4	3.51	32.0	26.8	3.24	32.2	25.2	2.99	32.3	24.4	2.86	32.4	23.6	2.74	32.5	22.0	2.51	32.7
		150	28.4	3.42	32.6	26.8	3.16	32.7	25.2	2.91	32.9	24.4	2.79	32.9	23.6	2.67	33.0	22.0	2.45	33.1
	40	80	28.4	3.57	35.5	26.8	3.30	35.8	25.2	3.04	36.0	24.4	2.92	36.2	23.6	2.80	36.3	22.0	2.56	36.5
		96	28.4	3.46	36.3	26.8	3.20	36.5	25.2	2.95	36.7	24.4	2.83	36.8	23.6	2.72	36.9	22.0	2.49	37.1
		120	28.4	3.34	37.0	26.8	3.09	37.2	25.2	2.85	37.3	24.4	2.74	37.4	23.6	2.63	37.5	22.0	2.41	37.7
		150	28.4	3.25	37.6	26.8	3.01	37.7	25.2	2.78	37.9	24.4	2.67	37.9	23.6	2.57	38.0	22.0	2.36	38.1
	45	80	28.4	3.46	40.5	26.8	3.21	40.8	25.2	2.97	41.0	24.4	2.85	41.1	23.6	2.73	41.3	22.0	2.50	41.5
		96	28.4	3.36	41.3	26.8	3.12	41.5	25.2	2.88	41.7	24.4	2.76	41.8	23.6	2.65	41.9	22.0	2.43	42.1
		120	28.4	3.24	42.0	26.8	3.01	42.2	25.2	2.78	42.3	24.4	2.67	42.4	23.6	2.56	42.5	22.0	2.35	42.7
		150	28.4	3.16	42.6	26.8	2.94	42.7	25.2	2.71	42.9	24.4	2.61	42.9	23.6	2.50	43.0	22.0	2.30	43.1

3 Capacity tables

3 - 4 Heating capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	80	20.9	4.34	7.03	20.8	4.45	7.08	20.6	4.57	7.12	20.6	4.64	7.15	20.5	4.71	7.18	19.2	4.30	7.33
		96	22.6	4.98	7.37	22.5	5.12	7.41	22.1	5.13	7.47	21.3	4.88	7.54	20.6	4.63	7.61	19.2	4.15	7.75
		120	24.7	5.82	7.75	23.5	5.41	7.84	22.1	4.91	7.95	21.3	4.67	8.01	20.6	4.44	8.07	19.2	3.99	8.18
		150	24.9	5.70	8.17	23.5	5.21	8.26	22.1	4.74	8.35	21.3	4.52	8.39	20.6	4.30	8.44	19.2	3.88	8.53
	15	80	24.9	5.32	11.5	23.5	4.87	11.7	22.1	4.44	11.8	21.3	4.24	11.9	20.6	4.03	12.0	19.2	3.65	12.2
		96	24.9	5.13	12.1	23.5	4.70	12.2	22.1	4.29	12.3	21.3	4.09	12.4	20.6	3.90	12.5	19.2	3.53	12.7
		120	24.9	4.93	12.6	23.5	4.52	12.7	22.1	4.13	12.9	21.3	3.94	12.9	20.6	3.75	13.0	19.2	3.40	13.1
		150	24.9	4.78	13.1	23.5	4.38	13.2	22.1	4.01	13.3	21.3	3.83	13.3	20.6	3.65	13.4	19.2	3.31	13.5
	20	80	24.9	4.58	16.4	23.5	4.21	16.5	22.1	3.85	16.7	21.3	3.68	16.8	20.6	3.51	16.9	19.2	3.18	17.1
		96	24.9	4.42	16.9	23.5	4.07	17.1	22.1	3.72	17.3	21.3	3.56	17.3	20.6	3.40	17.4	19.2	3.08	17.6
		120	24.9	4.25	17.5	23.5	3.91	17.7	22.1	3.58	17.8	21.3	3.43	17.9	20.6	3.27	17.9	19.2	2.98	18.1
		150	24.9	4.13	18.0	23.5	3.80	18.1	22.1	3.49	18.2	21.3	3.33	18.3	20.6	3.19	18.3	19.2	2.90	18.4
	25	80	24.9	4.00	21.3	23.5	3.68	21.5	22.1	3.38	21.7	21.3	3.23	21.8	20.6	3.09	21.9	19.2	2.81	22.1
		96	24.9	3.86	21.9	23.5	3.56	22.0	22.1	3.27	22.2	21.3	3.13	22.3	20.6	2.99	22.4	19.2	2.73	22.5
		120	24.9	3.72	22.5	23.5	3.43	22.6	22.1	3.15	22.7	21.3	3.02	22.8	20.6	2.89	22.9	19.2	2.64	23.0
		150	24.9	3.62	23.0	23.5	3.34	23.1	22.1	3.07	23.2	21.3	2.94	23.2	20.6	2.82	23.3	19.2	2.57	23.4
	30	80	24.9	3.53	26.2	23.5	3.25	26.4	22.1	3.00	26.6	21.3	2.87	26.7	20.6	2.75	26.8	19.2	2.52	27.0
		96	24.9	3.41	26.8	23.5	3.15	27.0	22.1	2.90	27.1	21.3	2.78	27.2	20.6	2.67	27.3	19.2	2.44	27.5
		120	24.9	3.29	27.4	23.5	3.04	27.6	22.1	2.81	27.7	21.3	2.69	27.8	20.6	2.58	27.8	19.2	2.36	28.0
		150	24.9	3.20	27.9	23.5	2.96	28.0	22.1	2.73	28.2	21.3	2.62	28.2	20.6	2.52	28.3	19.2	2.31	28.4
	35	80	24.9	3.14	31.1	23.5	2.91	31.3	22.1	2.69	31.5	21.3	2.58	31.6	20.6	2.47	31.7	19.2	2.27	32.0
		96	24.9	3.04	31.7	23.5	2.82	31.9	22.1	2.61	32.1	21.3	2.50	32.2	20.6	2.40	32.3	19.2	2.21	32.5
		120	24.9	2.94	32.4	23.5	2.73	32.5	22.1	2.52	32.7	21.3	2.42	32.7	20.6	2.33	32.8	19.2	2.14	33.0
		150	24.9	2.86	32.9	23.5	2.66	33.0	22.1	2.46	33.1	21.3	2.37	33.2	20.6	2.27	33.2	19.2	2.09	33.4
	40	80	24.9	3.00	36.1	23.5	2.78	36.3	22.1	2.58	36.5	21.3	2.48	36.6	20.6	2.38	36.7	19.2	2.19	37.0
		96	24.9	2.91	36.7	23.5	2.70	36.9	22.1	2.50	37.1	21.3	2.41	37.2	20.6	2.32	37.3	19.2	2.14	37.4
		120	24.9	2.81	37.4	23.5	2.61	37.5	22.1	2.42	37.7	21.3	2.33	37.7	20.6	2.25	37.8	19.2	2.07	38.0
		150	24.9	2.74	37.9	23.5	2.55	38.0	22.1	2.37	38.1	21.3	2.28	38.2	20.6	2.19	38.2	19.2	2.03	38.4
	45	80	24.9	2.92	41.1	23.5	2.71	41.3	22.1	2.51	41.5	21.3	2.42	41.6	20.6	2.32	41.7	19.2	2.14	41.9
		96	24.9	2.83	41.7	23.5	2.63	41.9	22.1	2.44	42.1	21.3	2.35	42.2	20.6	2.26	42.3	19.2	2.08	42.4
		120	24.9	2.74	42.4	23.5	2.55	42.5	22.1	2.36	42.6	21.3	2.28	42.7	20.6	2.19	42.8	19.2	2.02	42.9
		150	24.9	2.67	42.9	23.5	2.49	43.0	22.1	2.31	43.1	21.3	2.22	43.2	20.6	2.14	43.2	19.2	1.98	43.4
60	10	80	20.6	4.64	7.15	20.1	4.61	7.22	18.9	4.19	7.36	18.3	3.98	7.44	17.7	3.78	7.51	16.5	3.40	7.66
		96	21.3	4.87	7.54	20.1	4.45	7.66	18.9	4.05	7.78	18.3	3.85	7.84	17.7	3.66	7.91	16.5	3.30	8.03
		120	21.3	4.67	8.01	20.1	4.27	8.11	18.9	3.90	8.21	18.3	3.72	8.26	17.7	3.54	8.31	16.5	3.20	8.42
		150	21.3	4.51	8.39	20.1	4.14	8.47	18.9	3.79	8.56	18.3	3.61	8.60	17.7	3.45	8.64	16.5	3.13	8.72
	15	80	21.3	4.23	11.9	20.1	3.89	12.1	18.9	3.57	12.3	18.3	3.41	12.3	17.7	3.26	12.4	16.5	2.96	12.6
		96	21.3	4.09	12.4	20.1	3.76	12.6	18.9	3.45	12.7	18.3	3.30	12.8	17.7	3.15	12.8	16.5	2.87	13.0
		120	21.3	3.93	12.9	20.1	3.62	13.0	18.9	3.32	13.1	18.3	3.18	13.2	17.7	3.04	13.3	16.5	2.77	13.4
		150	21.3	3.82	13.3	20.1	3.52	13.4	18.9	3.24	13.5	18.3	3.10	13.5	17.7	2.96	13.6	16.5	2.70	13.7
	20	80	21.3	3.67	16.8	20.1	3.39	17.0	18.9	3.11	17.2	18.3	2.98	17.3	17.7	2.85	17.3	16.5	2.61	17.5
		96	21.3	3.55	17.3	20.1	3.28	17.5	18.9	3.02	17.6	18.3	2.89	17.7	17.7	2.77	17.8	16.5	2.53	17.9
		120	21.3	3.42	17.9	20.1	3.16	18.0	18.9	2.91	18.1	18.3	2.79	18.1	17.7	2.67	18.2	16.5	2.45	18.3
		150	21.3	3.33	18.3	20.1	3.08	18.4	18.9	2.84	18.5	18.3	2.72	18.5	17.7	2.61	18.6	16.5	2.39	18.7
	25	80	21.3	3.23	21.8	20.1	2.99	21.9	18.9	2.76	22.1	18.3	2.64	22.2	17.7	2.53	22.3	16.5	2.32	22.5
		96	21.3	3.13	22.3	20.1	2.90	22.4	18.9	2.67	22.6	18.3	2.57	22.7	17.7	2.46	22.7	16.5	2.26	22.9
		120	21.3	3.02	22.8	20.1	2.80	22.9	18.9	2.58	23.1	18.3	2.48	23.1	17.7	2.38	23.2	16.5	2.19	23.3
		150	21.3	2.94	23.2	20.1	2.73	23.3	18.9	2.52	23.4	18.3	2.42	23.5	17.7	2.33	23.5	16.5	2.14	23.6
	30	80	21.3	2.87	26.7	20.1	2.66	26.9	18.9	2.46	27.1	18.3	2.37	27.1	17.7	2.28	27.2	16.5	2.09	27.4
		96	21.3	2.78	27.2	20.1	2.58	27.4	18.9	2.39	27.5	18.3	2.30	27.6	17.7	2.21	27.7	16.5	2.04	27.8
		120	21.3	2.69	27.8	20.1	2.50	27.9	18.9	2.32	28.0	18.3	2.23	28.1	17.7	2.14	28.1	16.5	1.98	28.3
		150	21.3	2.62	28.2	20.1	2.44	28.3	18.9	2.26	28.4	18.3	2.18	28.5	17.7	2.10	28.5	16.5	1.94	28.6
	35	80	21.3	2.58	31.6	20.1	2.40	31.8	18.9	2.23	32.0	18.3	2.14	32.1	17.7	2.06	32.2	16.5	1.91	32.4
		96	21.3	2.50	32.2	20.1	2.33	32.3	18.9	2.17	32.5	18.3	2.09	32.6	17.7	2.01	32.7	16.5	1.86	32.8
		120	21.3	2.42	32.7	20.1	2.26	32.9	18.9	2.10	33.0	18.3	2.02	33.1	17.7	1.95	33.1	16.5	1.81	33.2
		150	21.3	2.36	33.2	20.1	2.21	33.3	18.9	2.05	33.4	18.3	1.98	33.4	17.7	1.91	33.5	16.5	1.77	33.6
	40	80	21.3	2.48	36.6	20.1	2.31	36.8	18.9	2.15	37.0	18.3	2.08	37.1	17.7	2.00	37.2	16.5	1.86	37.4
		96	21.3	2.41	37.2	20.1	2.25	37.3	18.9	2.10	37.5	18.3	2.02	37.6	17.7	1.95	37.7	16.5	1.81	37.8
		120	21.3	2.33	37.7	20.1	2.18	37.9	18.9	2.04	38.0	18.3	1.97	38.0	17.7	1.90	38.1	16.5	1.76	38.2
		150	21.3	2.28	38.2	20.1	2.13	38.3	18.9	1.99	38.4	18.3	1.93	38.4	17.7	1.86	38.5	16.5	1.73	38.6
	45	80	21.3	2.41	41.6	20.1	2.25	41.8	18.9	2.10	42.0	18.3	2.02	42.1	17.7	1.95	42.2	16.5	1.81	42.4
		96	21.3	2.35	42.2	20.1	2.19	42.3	18.9	2.04	42.5	18.3	1.97	42.6	17.7	1.90	42.6	16.5	1.77	42.8
		120	21.3	2.27	42.7	20.1	2.13	42.9	18.9	1.99	43.0	18.3	1.92	43.0	17.7	1.85	43.1	16.5	1.72	43.2
		150	21.3	2.22	43.2	20.1	2.08	43.3	18.9	1.94	43.4	18.3	1.88	43.4	17.7	1.81	43.5	16.5	1.68	43.6

3 Capacity tables

3 - 4 Heating capacity tables with glycol

10HP

TC: Total capacity; PI: Power Input

Com-bination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	80	17.8	3.81	7.50	16.8	3.49	7.62	15.8	3.18	7.75	15.2	3.03	7.81	14.7	2.89	7.88	13.7	2.61	8.01
		96	17.8	3.69	7.90	16.8	3.39	8.00	15.8	3.10	8.11	15.2	2.96	8.17	14.7	2.82	8.22	13.7	2.56	8.33
		120	17.8	3.57	8.30	16.8	3.28	8.39	15.8	3.01	8.48	15.2	2.88	8.52	14.7	2.75	8.57	13.7	2.50	8.66
		150	17.8	3.47	8.63	16.8	3.20	8.70	15.8	2.95	8.78	15.2	2.82	8.81	14.7	2.70	8.85	13.7	2.47	8.92
	15	80	17.8	3.28	12.4	16.8	3.03	12.5	15.8	2.79	12.7	15.2	2.68	12.7	14.7	2.57	12.8	13.7	2.35	13.0
		96	17.8	3.17	12.8	16.8	2.94	12.9	15.8	2.71	13.1	15.2	2.60	13.1	14.7	2.49	13.2	13.7	2.29	13.3
		120	17.8	3.06	13.2	16.8	2.84	13.3	15.8	2.62	13.4	15.2	2.51	13.5	14.7	2.41	13.5	13.7	2.22	13.6
		150	17.8	2.98	13.6	16.8	2.76	13.7	15.8	2.55	13.7	15.2	2.45	13.8	14.7	2.35	13.8	13.7	2.16	13.9
	20	80	17.8	2.87	17.3	16.8	2.67	17.5	15.8	2.47	17.6	15.2	2.37	17.7	14.7	2.28	17.8	13.7	2.09	17.9
		96	17.8	2.79	17.8	16.8	2.59	17.9	15.8	2.40	18.0	15.2	2.30	18.1	14.7	2.21	18.1	13.7	2.04	18.3
		120	17.8	2.69	18.2	16.8	2.50	18.3	15.8	2.32	18.4	15.2	2.23	18.4	14.7	2.14	18.5	13.7	1.98	18.6
		150	17.8	2.62	18.6	16.8	2.44	18.6	15.8	2.26	18.7	15.2	2.18	18.8	14.7	2.10	18.8	13.7	1.94	18.9
	25	80	17.8	2.55	22.3	16.8	2.37	22.4	15.8	2.20	22.6	15.2	2.12	22.6	14.7	2.04	22.7	13.7	1.89	22.9
		96	17.8	2.48	22.7	16.8	2.31	22.8	15.8	2.14	23.0	15.2	2.07	23.0	14.7	1.99	23.1	13.7	1.84	23.2
		120	17.8	2.40	23.2	16.8	2.23	23.3	15.8	2.08	23.4	15.2	2.00	23.4	14.7	1.93	23.5	13.7	1.79	23.6
		150	17.8	2.34	23.5	16.8	2.18	23.6	15.8	2.03	23.7	15.2	1.96	23.7	14.7	1.89	23.8	13.7	1.75	23.9
	30	80	17.8	2.29	27.2	16.8	2.14	27.4	15.8	1.99	27.5	15.2	1.92	27.6	14.7	1.85	27.7	13.7	1.72	27.8
		96	17.8	2.23	27.7	16.8	2.08	27.8	15.8	1.94	27.9	15.2	1.87	28.0	14.7	1.81	28.1	13.7	1.68	28.2
		120	17.8	2.16	28.1	16.8	2.02	28.2	15.8	1.88	28.3	15.2	1.82	28.4	14.7	1.76	28.4	13.7	1.63	28.6
		150	17.8	2.11	28.5	16.8	1.97	28.6	15.8	1.84	28.7	15.2	1.78	28.7	14.7	1.72	28.8	13.7	1.60	28.8
	35	80	17.8	2.08	32.2	16.8	1.94	32.3	15.8	1.82	32.5	15.2	1.76	32.6	14.7	1.70	32.7	13.7	1.58	32.8
		96	17.8	2.02	32.6	16.8	1.89	32.8	15.8	1.77	32.9	15.2	1.71	33.0	14.7	1.66	33.0	13.7	1.55	33.2
		120	17.8	1.96	33.1	16.8	1.84	33.2	15.8	1.72	33.3	15.2	1.67	33.4	14.7	1.61	33.4	13.7	1.51	33.5
		150	17.8	1.92	33.5	16.8	1.80	33.6	15.8	1.69	33.7	15.2	1.64	33.7	14.7	1.58	33.7	13.7	1.48	33.8
	40	80	17.8	2.01	37.2	16.8	1.89	37.3	15.8	1.77	37.5	15.2	1.71	37.6	14.7	1.65	37.7	13.7	1.54	37.8
		96	17.8	1.96	37.6	16.8	1.85	37.8	15.8	1.73	37.9	15.2	1.67	38.0	14.7	1.62	38.0	13.7	1.51	38.2
		120	17.8	1.91	38.1	16.8	1.79	38.2	15.8	1.68	38.3	15.2	1.63	38.4	14.7	1.57	38.4	13.7	1.47	38.5
		150	17.8	1.87	38.5	16.8	1.76	38.6	15.8	1.65	38.7	15.2	1.59	38.7	14.7	1.54	38.7	13.7	1.44	38.8
	45	80	17.8	1.96	42.2	16.8	1.84	42.3	15.8	1.73	42.5	15.2	1.67	42.6	14.7	1.61	42.6	13.7	1.50	42.8
		96	17.8	1.91	42.6	16.8	1.80	42.8	15.8	1.69	42.9	15.2	1.63	43.0	14.7	1.57	43.0	13.7	1.47	43.2
		120	17.8	1.86	43.1	16.8	1.75	43.2	15.8	1.64	43.3	15.2	1.59	43.4	14.7	1.53	43.4	13.7	1.43	43.5
		150	17.8	1.82	43.5	16.8	1.71	43.6	15.8	1.61	43.6	15.2	1.55	43.7	14.7	1.50	43.7	13.7	1.41	43.8

3 Capacity tables

3 - 4 Heating capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	80	40.4	8.56	7.15	41.1	8.24	7.06	41.6	8.02	6.99	41.8	7.94	6.97	42.0	7.89	6.95	42.2	7.85	6.92
		96	45.2	8.98	7.30	45.6	8.80	7.25	46.0	8.70	7.22	46.1	8.68	7.21	46.2	8.69	7.20	46.3	8.76	7.20
		120	50.7	9.75	7.56	50.9	9.70	7.54	51.1	9.73	7.53	51.1	9.78	7.53	51.1	9.85	7.54	51.0	10.0	7.55
		150	55.3	10.6	7.86	55.4	10.7	7.86	55.4	10.8	7.87	55.3	10.9	7.88	55.3	11.0	7.88	55.1	11.3	7.91
	15	80	59.7	11.2	10.7	59.7	11.3	10.7	59.6	11.5	10.7	59.5	11.7	10.7	59.3	11.8	10.7	59.0	12.2	10.8
		96	61.2	11.2	11.3	61.1	11.4	11.3	61.0	11.6	11.3	60.8	11.8	11.3	60.7	11.9	11.4	60.3	12.3	11.4
		120	62.9	11.3	11.9	62.8	11.5	11.9	62.6	11.8	12.0	62.4	11.9	12.0	62.3	12.1	12.0	61.9	12.5	12.0
		150	64.2	11.4	12.5	64.1	11.6	12.5	63.8	11.9	12.5	63.7	12.0	12.5	63.5	12.2	12.6	63.0	12.6	12.6
	20	80	66.1	11.5	15.1	65.9	11.8	15.2	65.6	12.0	15.2	65.4	12.2	15.2	65.2	12.4	15.3	64.7	12.8	15.3
		96	67.6	11.6	15.8	67.4	11.9	15.9	67.1	12.2	15.9	66.9	12.3	15.9	66.7	12.5	16.0	66.2	12.9	16.0
		120	69.4	11.7	16.6	69.2	12.0	16.6	68.8	12.3	16.6	68.6	12.5	16.7	68.3	12.7	16.7	67.8	13.1	16.7
		150	70.8	11.9	17.2	70.5	12.1	17.2	70.1	12.5	17.2	69.9	12.6	17.3	69.6	12.8	17.3	69.1	13.2	17.3
	25	80	72.5	12.0	19.6	72.1	12.3	19.6	71.7	12.6	19.7	71.5	12.8	19.7	71.2	13.0	19.8	70.6	13.4	19.9
		96	74.1	12.1	20.4	73.7	12.4	20.4	73.3	12.8	20.5	73.0	12.9	20.5	72.7	13.1	20.6	71.4	13.3	20.7
		120	76.0	12.3	21.2	75.6	12.6	21.2	75.1	12.9	21.3	74.8	13.1	21.3	74.5	13.3	21.3	71.4	12.7	21.5
		150	77.5	12.4	21.9	77.1	12.7	21.9	76.5	13.1	22.0	76.3	13.3	22.0	75.9	13.5	22.0	71.4	12.3	22.2
	30	80	78.9	12.5	24.1	78.5	12.8	24.1	77.9	13.2	24.2	77.6	13.4	24.2	76.6	13.4	24.3	71.4	12.0	24.7
		96	80.7	12.7	24.9	80.2	13.0	25.0	79.6	13.4	25.1	79.3	13.6	25.1	76.6	12.9	25.2	71.4	11.5	25.5
		120	82.7	12.8	25.8	82.2	13.2	25.9	81.6	13.5	25.9	79.3	13.0	26.0	76.6	12.3	26.2	71.4	11.1	26.4
		150	84.3	13.0	26.6	83.7	13.3	26.6	81.9	13.3	26.7	79.3	12.6	26.8	76.6	12.0	26.9	71.4	10.7	27.1
	35	80	85.5	13.1	28.5	84.9	13.4	28.6	81.9	13.0	28.8	79.3	12.3	29.0	76.6	11.7	29.2	71.4	10.5	29.5
		96	87.3	13.2	29.5	86.7	13.6	29.5	81.9	12.5	29.8	79.3	11.9	30.0	76.6	11.3	30.1	71.4	10.1	30.4
		120	89.5	13.4	30.5	87.2	13.2	30.6	81.9	12.0	30.8	79.3	11.4	30.9	76.6	10.8	31.1	71.4	9.72	31.3
		150	91.2	13.6	31.3	87.2	12.8	31.4	81.9	11.6	31.6	79.3	11.0	31.7	76.6	10.5	31.8	71.4	9.43	32.0
	40	80	92.2	14.1	33.0	87.2	13.0	33.4	81.9	12.1	33.7	79.3	11.5	33.9	76.6	10.9	34.1	71.4	9.85	34.5
		96	92.4	13.7	34.1	87.2	12.5	34.4	81.9	11.7	34.8	79.3	11.1	34.9	76.6	10.6	35.1	71.4	9.51	35.4
		120	92.4	13.1	35.3	87.2	12.3	35.5	81.9	11.2	35.8	79.3	10.7	35.9	76.6	10.1	36.0	71.4	9.14	36.3
		150	92.4	12.7	36.2	87.2	11.9	36.4	81.9	10.9	36.6	79.3	10.4	36.7	76.6	9.85	36.8	71.4	8.88	37.0
	45	80	92.4	13.4	37.9	87.2	12.6	38.3	81.9	11.6	38.7	79.3	11.0	38.9	76.6	10.5	39.1	71.4	9.46	39.5
		96	92.4	13.3	39.1	87.2	12.2	39.4	81.9	11.2	39.7	79.3	10.6	39.9	76.6	10.1	40.0	71.4	9.14	40.4
		120	92.4	12.8	40.2	87.2	11.8	40.5	81.9	10.7	40.7	79.3	10.2	40.9	76.6	9.74	41.0	71.4	8.80	41.3
		150	92.4	12.4	41.2	87.2	11.4	41.4	81.9	10.4	41.6	79.3	9.93	41.7	76.6	9.46	41.8	71.4	8.56	42.0
120	10	80	41.3	8.15	7.03	41.7	7.97	6.98	42.0	7.87	6.94	42.2	7.85	6.93	42.3	7.85	6.92	42.3	7.91	6.92
		96	45.8	8.75	7.24	46.0	8.69	7.21	46.2	8.70	7.20	46.2	8.73	7.20	46.3	8.78	7.20	46.2	8.93	7.22
		120	51.0	9.70	7.53	51.1	9.76	7.53	51.1	9.88	7.54	51.0	9.96	7.55	51.0	10.1	7.56	50.8	10.3	7.58
		150	55.4	10.7	7.86	55.4	10.8	7.87	55.2	11.0	7.89	55.1	11.2	7.90	55.0	11.3	7.91	54.7	11.6	7.94
	15	80	59.7	11.4	10.7	59.5	11.6	10.7	59.3	11.9	10.8	59.1	12.0	10.8	59.0	12.2	10.8	58.6	12.6	10.9
		96	61.1	11.5	11.3	60.9	11.7	11.3	60.6	12.0	11.4	60.5	12.2	11.4	60.3	12.3	11.4	59.8	12.7	11.5
		120	62.7	11.6	11.9	62.5	11.8	12.0	62.2	12.1	12.0	62.0	12.3	12.0	61.8	12.5	12.1	61.3	12.9	12.1
		150	64.0	11.7	12.5	63.7	12.0	12.5	63.4	12.3	12.6	63.2	12.4	12.6	63.0	12.6	12.6	62.5	13.0	12.6
	20	80	65.8	11.8	15.2	65.5	12.1	15.2	65.1	12.5	15.3	64.9	12.6	15.3	64.7	12.8	15.4	64.2	13.2	15.4
		96	67.3	12.0	15.9	67.0	12.3	15.9	66.6	12.6	16.0	66.3	12.8	16.0	66.1	13.0	16.0	65.6	13.4	16.1
		120	69.0	12.1	16.6	68.7	12.4	16.6	68.2	12.8	16.7	68.0	13.0	16.7	67.7	13.1	16.7	65.9	13.0	16.8
		150	70.4	12.2	17.2	70.0	12.5	17.3	69.5	12.9	17.3	69.3	13.1	17.3	69.0	13.3	17.3	65.9	12.6	17.5
	25	80	72.0	12.4	19.7	71.6	12.7	19.7	71.1	13.1	19.8	70.8	13.3	19.8	70.5	13.5	19.9	65.9	12.1	20.2
		96	73.6	12.5	20.4	73.1	12.9	20.5	72.6	13.2	20.6	72.3	13.4	20.6	70.7	13.1	20.7	65.9	11.7	21.0
		120	75.4	12.7	21.3	75.0	13.0	21.3	74.4	13.4	21.4	73.2	13.2	21.4	70.7	12.5	21.5	65.9	11.2	21.7
		150	76.9	12.8	21.9	76.4	13.2	22.0	75.6	13.5	22.0	73.2	12.8	22.1	70.7	12.1	22.2	65.9	10.9	22.4
	30	80	78.3	13.0	24.2	77.8	13.3	24.2	75.6	13.1	24.4	73.2	12.4	24.6	70.7	11.8	24.7	65.9	10.6	25.0
		96	80.0	13.1	25.0	79.4	13.5	25.1	75.6	12.6	25.3	73.2	12.0	25.4	70.7	11.4	25.6	65.9	10.2	25.8
		120	82.0	13.3	25.9	80.5	13.3	26.0	75.6	12.1	26.2	73.2	11.5	26.3	70.7	10.9	26.4	65.9	9.80	26.7
		150	83.5	13.4	26.7	80.5	12.9	26.8	75.6	11.7	26.9	73.2	11.1	27.0	70.7	10.6	27.1	65.9	9.51	27.3
	35	80	84.7	13.6	28.6	80.5	12.6	28.9	75.6	11.4	29.3	73.2	10.9	29.4	70.7	10.4	29.6	65.9	9.31	29.9
		96	85.3	13.3	29.6	80.5	12.1	29.9	75.6	11.0	30.2	73.2	10.5	30.3	70.7	9.99	30.5	65.9	8.99	30.8
		120	85.3	12.8	30.7	80.5	11.6	30.9	75.6	10.6	31.1	73.2	10.1	31.2	70.7	9.59	31.3	65.9	8.64	31.6
		150	85.3	12.4	31.5	80.5	11.3	31.7	75.6	10.3	31.9	73.2	9.79	32.0	70.7	9.31	32.1	65.9	8.40	32.3
	40	80	85.3	12.5	33.5	80.5	11.8	33.8	75.6	10.7	34.2	73.2	10.2	34.4	70.7	9.72	34.5	65.9	8.77	34.9
		96	85.3	12.4	34.6	80.5	11.4	34.8	75.6	10.3	35.1	73.2	9.86	35.3	70.7	9.39	35.4	65.9	8.47	35.7
		120	85.3	11.9	35.6	80.5	10.9	35.8	75.6	9.94	36.1	73.2	9.48	36.2	70.7	9.03	36.3	65.9	8.16	36.6
		150	85.3	11.6	36.5	80.5	10.6	36.7	75.6	9.65	36.8	73.2	9.20	36.9	70.7	8.77	37.0	65.9	7.93	37.2
	45	80	85.3	12.2	38.5	80.5	11.3	38.8	75.6	10.3	39.1	73.2	9.80	39.3	70.7	9.34	39.5	65.9	8.45	39.9
		96	85.3	11.9	39.5	80.5	10.9	39.8	75.6	9.93	40.1	73.2	9.47	40.2	70.7	9.03	40.4	65.9	8.18	40.7
		120	85.3	11.4	40.6	80.5	10.4	40.8	75.6	9.55	41.1	73.2	9.11	41.2	70.7	8.69	41.3	65.9	7.88	41.5
		150	85.3	11.1	41.5	80.5	10.1	41.6	75.6	9.28	41.8	73.2	8.86	41.9	70.7	8.45	42.0	65.9	7.67	42.2

3 Capacity tables

3 - 4 Heating capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	80	41.9	7.92	6.96	42.1	7.86	6.93	42.3	7.86	6.92	42.3	7.89	6.91	42.3	7.93	6.92	42.3	8.07	6.93
		96	46.1	8.68	7.20	46.2	8.72	7.20	46.3	8.81	7.20	46.2	8.89	7.21	46.2	8.97	7.22	46.0	9.19	7.25
		120	51.1	9.80	7.53	51.1	9.94	7.54	50.9	10.1	7.56	50.8	10.3	7.58	50.7	10.4	7.59	50.4	10.7	7.63
		150	55.3	10.9	7.88	55.2	11.1	7.90	54.9	11.4	7.92	54.8	11.5	7.93	54.6	11.7	7.95	54.2	12.1	7.99
	15	80	59.4	11.7	10.7	59.2	12.0	10.8	58.9	12.3	10.8	58.7	12.5	10.9	58.5	12.7	10.9	58.0	13.1	11.0
		96	60.8	11.8	11.3	60.5	12.1	11.4	60.2	12.4	11.4	60.0	12.6	11.5	59.7	12.8	11.5	59.3	13.2	11.6
		120	62.4	12.0	12.0	62.1	12.3	12.0	61.7	12.6	12.1	61.5	12.8	12.1	61.2	13.0	12.1	60.4	13.3	12.2
		150	63.6	12.1	12.5	63.3	12.4	12.6	62.9	12.7	12.6	62.6	12.9	12.6	62.4	13.1	12.6	60.4	12.8	12.7
	20	80	65.3	12.3	15.2	65.0	12.6	15.3	64.5	12.9	15.4	64.3	13.1	15.4	64.0	13.3	15.5	60.4	12.3	15.7
		96	66.8	12.4	15.9	66.4	12.7	16.0	65.9	13.1	16.1	65.7	13.3	16.1	64.8	13.2	16.1	60.4	11.8	16.4
		120	68.5	12.6	16.7	68.1	12.9	16.7	67.6	13.3	16.8	67.1	13.4	16.8	64.8	12.7	16.9	60.4	11.4	17.1
		150	69.8	12.7	17.3	69.4	13.0	17.3	68.8	13.4	17.4	67.1	13.0	17.4	64.8	12.3	17.5	60.4	11.0	17.6
	25	80	71.4	12.9	19.8	70.9	13.2	19.8	69.3	13.1	20.0	67.1	12.5	20.1	64.8	11.8	20.3	60.4	10.6	20.5
		96	72.9	13.0	20.5	72.4	13.4	20.6	69.3	12.7	20.8	67.1	12.0	20.9	64.8	11.4	21.0	60.4	10.2	21.3
		120	74.7	13.2	21.3	73.8	13.4	21.4	69.3	12.1	21.6	67.1	11.5	21.7	64.8	11.0	21.8	60.4	9.84	22.0
		150	76.1	13.3	22.0	73.8	13.0	22.1	69.3	11.8	22.3	67.1	11.2	22.3	64.8	10.6	22.4	60.4	9.55	22.6
	30	80	77.5	13.5	24.3	73.8	12.6	24.5	69.3	11.4	24.8	67.1	10.9	25.0	64.8	10.3	25.1	60.4	9.29	25.4
		96	78.2	13.3	25.2	73.8	12.1	25.4	69.3	11.0	25.6	67.1	10.5	25.8	64.8	9.97	25.9	60.4	8.97	26.2
		120	78.2	12.7	26.1	73.8	11.6	26.3	69.3	10.6	26.5	67.1	10.1	26.6	64.8	9.57	26.7	60.4	8.62	26.9
		150	78.2	12.3	26.9	73.8	11.3	27.0	69.3	10.3	27.2	67.1	9.77	27.3	64.8	9.29	27.3	60.4	8.38	27.5
	35	80	78.2	12.1	29.1	73.8	11.0	29.4	69.3	10.0	29.7	67.1	9.56	29.8	64.8	9.10	30.0	60.4	8.21	30.3
		96	78.2	11.6	30.0	73.8	10.6	30.3	69.3	9.69	30.5	67.1	9.23	30.7	64.8	8.79	30.8	60.4	7.93	31.1
		120	78.2	11.2	31.0	73.8	10.2	31.2	69.3	9.31	31.4	67.1	8.87	31.5	64.8	8.45	31.6	60.4	7.64	31.8
		150	78.2	10.8	31.8	73.8	9.90	31.9	69.3	9.03	32.1	67.1	8.62	32.2	64.8	8.21	32.3	60.4	7.42	32.5
	40	80	78.2	11.3	34.0	73.8	10.3	34.3	69.3	9.43	34.6	67.1	9.00	34.8	64.8	8.57	35.0	60.4	7.76	35.3
		96	78.2	10.9	35.0	73.8	9.98	35.2	69.3	9.11	35.5	67.1	8.69	35.6	64.8	8.29	35.8	60.4	7.50	36.1
		120	78.2	10.5	36.0	73.8	9.59	36.2	69.3	8.76	36.4	67.1	8.37	36.5	64.8	7.98	36.6	60.4	7.23	36.8
		150	78.2	10.1	36.7	73.8	9.31	36.9	69.3	8.52	37.1	67.1	8.13	37.2	64.8	7.76	37.3	60.4	7.04	37.5
	45	80	78.2	10.8	39.0	73.8	9.92	39.3	69.3	9.07	39.6	67.1	8.66	39.8	64.8	8.27	39.9	60.4	7.50	40.3
		96	78.2	10.4	39.9	73.8	9.58	40.2	69.3	8.77	40.5	67.1	8.38	40.6	64.8	8.00	40.8	60.4	7.27	41.0
		120	78.2	10.0	40.9	73.8	9.22	41.1	69.3	8.45	41.4	67.1	8.07	41.5	64.8	7.71	41.6	60.4	7.01	41.8
		150	78.2	9.74	41.7	73.8	8.96	41.9	69.3	8.21	42.1	67.1	7.85	42.2	64.8	7.50	42.3	60.4	6.83	42.4
100	10	80	42.2	7.85	6.92	42.3	7.89	6.91	42.3	7.98	6.92	42.3	8.05	6.93	42.3	8.13	6.94	42.1	8.33	6.98
		96	46.3	8.77	7.20	46.2	8.89	7.21	46.1	9.06	7.23	46.0	9.16	7.25	45.9	9.28	7.26	45.7	9.55	7.30
		120	51.0	10.0	7.55	50.8	10.3	7.58	50.6	10.5	7.60	50.5	10.6	7.62	50.3	10.8	7.64	50.0	11.1	7.68
		150	55.0	11.3	7.91	54.8	11.6	7.93	54.5	11.9	7.96	54.3	12.0	7.98	54.1	12.2	8.00	53.7	12.6	8.04
	15	80	59.0	12.2	10.8	58.7	12.5	10.9	58.3	12.8	10.9	58.1	13.0	11.0	57.8	13.2	11.0	54.9	12.4	11.2
		96	60.3	12.3	11.4	60.0	12.6	11.5	59.6	13.0	11.5	59.3	13.2	11.6	59.0	13.3	11.6	54.9	11.9	11.8
		120	61.8	12.5	12.1	61.5	12.8	12.1	61.0	13.2	12.1	60.8	13.4	12.2	59.0	12.8	12.2	54.9	11.4	12.4
		150	63.0	12.6	12.6	62.6	12.9	12.6	62.2	13.3	12.7	61.0	13.0	12.7	59.0	12.4	12.8	54.9	11.1	12.9
	20	80	64.7	12.8	15.3	64.3	13.1	15.4	63.0	13.1	15.5	61.0	12.5	15.7	59.0	11.8	15.8	54.9	10.6	16.0
		96	66.1	12.9	16.0	65.7	13.3	16.1	63.0	12.6	16.2	61.0	12.0	16.3	59.0	11.4	16.5	54.9	10.2	16.7
		120	67.8	13.1	16.7	67.0	13.4	16.8	63.0	12.1	17.0	61.0	11.5	17.0	59.0	10.9	17.1	54.9	9.83	17.3
		150	69.1	13.3	17.3	67.0	12.9	17.4	63.0	11.7	17.6	61.0	11.2	17.6	59.0	10.6	17.7	54.9	9.54	17.8
	25	80	70.6	13.4	19.9	67.0	12.5	20.1	63.0	11.3	20.4	61.0	10.8	20.5	59.0	10.2	20.6	54.9	9.22	20.9
		96	71.1	13.2	20.7	67.0	12.0	20.9	63.0	10.9	21.1	61.0	10.4	21.2	59.0	9.88	21.3	54.9	8.90	21.6
		120	71.1	12.6	21.5	67.0	11.5	21.7	63.0	10.5	21.9	61.0	9.98	22.0	59.0	9.49	22.0	54.9	8.55	22.2
		150	71.1	12.2	22.2	67.0	11.2	22.3	63.0	10.2	22.5	61.0	9.69	22.5	59.0	9.22	22.6	54.9	8.31	22.8
	30	80	71.1	11.9	24.7	67.0	10.9	25.0	63.0	9.89	25.2	61.0	9.42	25.4	59.0	8.97	25.5	54.9	8.09	25.8
		96	71.1	11.5	25.5	67.0	10.5	25.8	63.0	9.55	26.0	61.0	9.10	26.1	59.0	8.66	26.2	54.9	7.82	26.5
		120	71.1	11.0	26.4	67.0	10.1	26.6	63.0	9.17	26.8	61.0	8.74	26.9	59.0	8.33	27.0	54.9	7.53	27.2
		150	71.1	10.7	27.1	67.0	9.76	27.3	63.0	8.91	27.4	61.0	8.49	27.5	59.0	8.09	27.6	54.9	7.32	27.7
	35	80	71.1	10.4	29.6	67.0	9.55	29.8	63.0	8.72	30.1	61.0	8.32	30.3	59.0	7.93	30.4	54.9	7.18	30.7
		96	71.1	10.1	30.4	67.0	9.22	30.7	63.0	8.43	30.9	61.0	8.04	31.0	59.0	7.67	31.2	54.9	6.95	31.4
		120	71.1	9.66	31.3	67.0	8.87	31.5	63.0	8.11	31.7	61.0	7.74	31.8	59.0	7.38	31.9	54.9	6.69	32.1
		150	71.1	9.38	32.1	67.0	8.61	32.2	63.0	7.88	32.4	61.0	7.52	32.4	59.0	7.18	32.5	54.9	6.52	32.7
	40	80	71.1	9.79	34.5	67.0	8.99	34.8	63.0	8.23	35.1	61.0	7.86	35.2	59.0	7.50	35.4	54.9	6.81	35.7
		96	71.1	9.45	35.4	67.0	8.69	35.6	63.0	7.96	35.9	61.0	7.60	36.0	59.0	7.26	36.1	54.9	6.60	36.4
		120	71.1	9.09	36.3	67.0	8.36	36.5	63.0	7.66	36.7	61.0	7.33	36.8	59.0	7.00	36.9	54.9	6.37	37.1
		150	71.1	8.83	37.0	67.0	8.13	37.2	63.0	7.45	37.3	61.0	7.13	37.4	59.0	6.81	37.5	54.9	6.21	37.7
	45	80	71.1	9.41	39.5	67.0	8.66	39.8	63.0	7.94	40.1	61.0	7.60	40.2	59.0	7.26	40.4	54.9	6.62	40.7
		96	71.1	9.09	40.4	67.0	8.38	40.6	63.0	7.69	40.9	61.0	7.36	41.0	59.0	7.04	41.1	54.9	6.42	41.4
		120	71.1	8.75	41.3	67.0	8.07	41.5	63.0	7.42	41.7	61.0	7.10	41.8	59.0	6.79	41.9	54.9	6.20	42.1
		150	71.1	8.51	42.0	67.0	7.85	42.2	63.0	7.22	42.3	61.0	6.92	42.4	59.0	6.62	42.5	54.9	6.05	42.7

3 Capacity tables

3 - 4 Heating capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	80	42.3	7.96	6.92	42.3	8.07	6.93	42.2	8.24	6.96	42.1	8.34	6.98	42.0	8.44	6.99	41.7	8.70	7.04
		96	46.2	9.01	7.23	46.0	9.20	7.25	45.8	9.42	7.28	45.7	9.55	7.30	45.5	9.69	7.32	45.2	10.00	7.37
		120	50.7	10.4	7.60	50.4	10.7	7.63	50.1	11.0	7.66	50.0	11.1	7.68	49.8	11.3	7.70	49.4	11.7	7.75
		150	54.6	11.8	7.96	54.2	12.1	7.99	53.9	12.4	8.02	53.7	12.6	8.04	53.1	12.6	8.07	49.4	11.3	8.18
	15	80	58.4	12.7	10.9	58.0	13.1	11.0	56.7	13.0	11.1	54.9	12.4	11.2	53.1	11.7	11.3	49.4	10.5	11.5
		96	59.7	12.9	11.5	59.3	13.2	11.6	56.7	12.5	11.7	54.9	11.9	11.8	53.1	11.3	11.9	49.4	10.2	12.1
		120	61.1	13.1	12.1	60.3	13.2	12.2	56.7	12.0	12.3	54.9	11.4	12.4	53.1	10.9	12.5	49.4	9.75	12.6
		150	62.3	13.2	12.7	60.3	12.8	12.7	56.7	11.6	12.8	54.9	11.1	12.9	53.1	10.5	13.0	49.4	9.46	13.1
	20	80	63.9	13.4	15.5	60.3	12.3	15.7	56.7	11.1	15.9	54.9	10.6	16.0	53.1	10.1	16.1	49.4	9.07	16.4
		96	64.0	13.0	16.2	60.3	11.8	16.4	56.7	10.7	16.6	54.9	10.2	16.7	53.1	9.73	16.8	49.4	8.76	17.0
		120	64.0	12.4	16.9	60.3	11.3	17.1	56.7	10.3	17.2	54.9	9.82	17.3	53.1	9.34	17.4	49.4	8.42	17.6
		150	64.0	12.0	17.5	60.3	11.0	17.6	56.7	10.0	17.8	54.9	9.53	17.8	53.1	9.07	17.9	49.4	8.18	18.0
	25	80	64.0	11.6	20.3	60.3	10.6	20.5	56.7	9.66	20.8	54.9	9.21	20.9	53.1	8.76	21.0	49.4	7.91	21.3
		96	64.0	11.2	21.1	60.3	10.2	21.3	56.7	9.33	21.5	54.9	8.89	21.6	53.1	8.47	21.7	49.4	7.65	21.9
		120	64.0	10.7	21.8	60.3	9.83	22.0	56.7	8.96	22.1	54.9	8.55	22.2	53.1	8.14	22.3	49.4	7.37	22.5
		150	64.0	10.4	22.4	60.3	9.54	22.6	56.7	8.71	22.7	54.9	8.30	22.8	53.1	7.91	22.8	49.4	7.16	23.0
	30	80	64.0	10.1	25.2	60.3	9.28	25.4	56.7	8.47	25.7	54.9	8.09	25.8	53.1	7.71	25.9	49.4	6.98	26.2
		96	64.0	9.77	26.0	60.3	8.96	26.2	56.7	8.19	26.4	54.9	7.82	26.5	53.1	7.45	26.6	49.4	6.76	26.8
		120	64.0	9.38	26.7	60.3	8.61	26.9	56.7	7.88	27.1	54.9	7.52	27.2	53.1	7.18	27.3	49.4	6.52	27.4
		150	64.0	9.11	27.4	60.3	8.37	27.5	56.7	7.66	27.7	54.9	7.32	27.7	53.1	6.98	27.8	49.4	6.34	27.9
	35	80	64.0	8.92	30.1	60.3	8.20	30.3	56.7	7.51	30.6	54.9	7.17	30.7	53.1	6.85	30.9	49.4	6.22	31.1
		96	64.0	8.62	30.9	60.3	7.92	31.1	56.7	7.26	31.3	54.9	6.94	31.4	53.1	6.63	31.5	49.4	6.03	31.8
		120	64.0	8.29	31.7	60.3	7.63	31.9	56.7	7.00	32.0	54.9	6.69	32.1	53.1	6.39	32.2	49.4	5.82	32.4
		150	64.0	8.05	32.3	60.3	7.41	32.5	56.7	6.81	32.6	54.9	6.51	32.7	53.1	6.23	32.8	49.4	5.67	32.9
	40	80	64.0	8.41	35.0	60.3	7.75	35.3	56.7	7.11	35.6	54.9	6.81	35.7	53.1	6.51	35.8	49.4	5.94	36.1
		96	64.0	8.13	35.8	60.3	7.50	36.1	56.7	6.89	36.3	54.9	6.60	36.4	53.1	6.31	36.5	49.4	5.76	36.7
		120	64.0	7.83	36.6	60.3	7.22	36.8	56.7	6.65	37.0	54.9	6.37	37.1	53.1	6.09	37.2	49.4	5.57	37.4
		150	64.0	7.62	37.3	60.3	7.03	37.5	56.7	6.47	37.6	54.9	6.20	37.7	53.1	5.94	37.7	49.4	5.43	37.9
	45	80	64.0	8.11	40.0	60.3	7.49	40.3	56.7	6.90	40.5	54.9	6.61	40.7	53.1	6.33	40.8	49.4	5.79	41.1
		96	64.0	7.85	40.8	60.3	7.26	41.0	56.7	6.69	41.3	54.9	6.41	41.4	53.1	6.15	41.5	49.4	5.62	41.7
		120	64.0	7.57	41.6	60.3	7.00	41.8	56.7	6.46	42.0	54.9	6.20	42.1	53.1	5.94	42.2	49.4	5.43	42.4
		150	64.0	7.37	42.3	60.3	6.82	42.4	56.7	6.30	42.6	54.9	6.04	42.7	53.1	5.79	42.7	49.4	5.30	42.9
80	10	80	42.2	8.23	6.96	42.0	8.41	6.99	41.8	8.62	7.03	41.7	8.75	7.05	41.6	8.88	7.07	41.2	9.16	7.13
		96	45.8	9.41	7.28	45.6	9.65	7.32	45.3	9.91	7.36	45.1	10.1	7.38	45.0	10.2	7.41	43.9	10.2	7.48
		120	50.1	11.0	7.66	49.8	11.3	7.70	49.5	11.6	7.74	48.8	11.5	7.77	47.2	10.9	7.83	43.9	9.76	7.96
		150	53.9	12.4	8.02	53.5	12.7	8.05	50.4	11.6	8.15	48.8	11.1	8.20	47.2	10.5	8.25	43.9	9.43	8.35
	15	80	56.9	13.1	11.1	53.6	11.9	11.3	50.4	10.8	11.5	48.8	10.3	11.6	47.2	9.81	11.7	43.9	8.83	11.9
		96	56.9	12.6	11.7	53.6	11.5	11.9	50.4	10.5	12.0	48.8	9.96	12.1	47.2	9.47	12.2	43.9	8.53	12.4
		120	56.9	12.1	12.3	53.6	11.0	12.5	50.4	10.0	12.6	48.8	9.56	12.7	47.2	9.10	12.7	43.9	8.20	12.9
		150	56.9	11.7	12.8	53.6	10.7	12.9	50.4	9.74	13.1	48.8	9.28	13.1	47.2	8.83	13.2	43.9	7.97	13.3
	20	80	56.9	11.2	15.9	53.6	10.2	16.1	50.4	9.34	16.3	48.8	8.90	16.4	47.2	8.47	16.5	43.9	7.65	16.8
		96	56.9	10.8	16.6	53.6	9.89	16.7	50.4	9.01	16.9	48.8	8.60	17.0	47.2	8.19	17.1	43.9	7.40	17.3
		120	56.9	10.4	17.2	53.6	9.49	17.4	50.4	8.67	17.5	48.8	8.27	17.6	47.2	7.88	17.7	43.9	7.13	17.8
		150	56.9	10.1	17.8	53.6	9.22	17.9	50.4	8.42	18.0	48.8	8.03	18.1	47.2	7.66	18.1	43.9	6.93	18.2
	25	80	56.9	9.71	20.8	53.6	8.91	21.0	50.4	8.14	21.2	48.8	7.77	21.3	47.2	7.41	21.4	43.9	6.72	21.7
		96	56.9	9.37	21.5	53.6	8.60	21.6	50.4	7.87	21.8	48.8	7.51	21.9	47.2	7.17	22.0	43.9	6.50	22.2
		120	56.9	9.01	22.1	53.6	8.27	22.3	50.4	7.57	22.4	48.8	7.23	22.5	47.2	6.91	22.6	43.9	6.27	22.8
		150	56.9	8.74	22.7	53.6	8.04	22.8	50.4	7.36	22.9	48.8	7.04	23.0	47.2	6.72	23.1	43.9	6.11	23.2
	30	80	56.9	8.51	25.7	53.6	7.83	25.9	50.4	7.17	26.1	48.8	6.86	26.2	47.2	6.55	26.4	43.9	5.96	26.6
		96	56.9	8.22	26.4	53.6	7.57	26.6	50.4	6.94	26.8	48.8	6.64	26.9	47.2	6.35	27.0	43.9	5.78	27.2
		120	56.9	7.91	27.1	53.6	7.29	27.2	50.4	6.69	27.4	48.8	6.40	27.5	47.2	6.12	27.5	43.9	5.58	27.7
		150	56.9	7.69	27.7	53.6	7.09	27.8	50.4	6.51	27.9	48.8	6.23	28.0	47.2	5.96	28.0	43.9	5.44	28.2
	35	80	56.9	7.54	30.6	53.6	6.95	30.8	50.4	6.39	31.1	48.8	6.12	31.2	47.2	5.85	31.3	43.9	5.34	31.5
		96	56.9	7.29	31.3	53.6	6.73	31.5	50.4	6.19	31.7	48.8	5.93	31.8	47.2	5.68	31.9	43.9	5.19	32.1
		120	56.9	7.03	32.0	53.6	6.49	32.2	50.4	5.97	32.3	48.8	5.73	32.4	47.2	5.48	32.5	43.9	5.02	32.7
		150	56.9	6.83	32.6	53.6	6.32	32.7	50.4	5.82	32.9	48.8	5.58	32.9	47.2	5.35	33.0	43.9	4.90	33.1
	40	80	56.9	7.14	35.5	53.6	6.60	35.8	50.4	6.09	36.0	48.8	5.84	36.2	47.2	5.60	36.3	43.9	5.13	36.5
		96	56.9	6.92	36.3	53.6	6.40	36.5	50.4	5.91	36.7	48.8	5.67	36.8	47.2	5.43	36.9	43.9	4.98	37.1
		120	56.9	6.67	37.0	53.6	6.18	37.2	50.4	5.71	37.3	48.8	5.48	37.4	47.2	5.26	37.5	43.9	4.83	37.7
		150	56.9	6.50	37.6	53.6	6.02	37.7	50.4	5.57	37.9	48.8	5.35	37.9	47.2	5.13	38.0	43.9	4.72	38.1
	45	80	56.9	6.93	40.5	53.6	6.42	40.8	50.4	5.94	41.0	48.8	5.69	41.1	47.2	5.46	41.3	43.9	5.00	41.5
		96	56.9	6.72	41.3	53.6	6.23	41.5	50.4	5.76	41.7	48.8	5.52	41.8	47.2	5.30	41.9	43.9	4.86	42.1
		120	56.9	6.49	42.0	53.6	6.02	42.2	50.4	5.56	42.3	48.8	5.34	42.4	47.2	5.12	42.5	43.9	4.71	42.7
		150	56.9	6.32	42.6	53.6	5.87	42.7	50.4	5.43	42.9	48.8	5.21	42.9	47.2	5.00	43.0	43.9	4.60	43.1

3 Capacity tables

3 - 4 Heating capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Com-bination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	80	41.8	8.67	7.03	41.5	8.89	7.08	41.3	9.14	7.12	41.1	9.28	7.15	40.9	9.42	7.18	38.4	8.59	7.33
		96	45.2	9.97	7.37	44.9	10.2	7.41	44.1	10.3	7.47	42.7	9.75	7.54	41.3	9.25	7.61	38.4	8.30	7.75
		120	49.4	11.6	7.75	46.9	10.8	7.84	44.1	9.82	7.95	42.7	9.35	8.01	41.3	8.88	8.07	38.4	7.99	8.18
		150	49.8	11.4	8.17	46.9	10.4	8.26	44.1	9.49	8.35	42.7	9.04	8.39	41.3	8.60	8.44	38.4	7.75	8.53
	15	80	49.8	10.6	11.5	46.9	9.74	11.7	44.1	8.88	11.8	42.7	8.47	11.9	41.3	8.07	12.0	38.4	7.30	12.2
		96	49.8	10.3	12.1	46.9	9.40	12.2	44.1	8.58	12.3	42.7	8.18	12.4	41.3	7.80	12.5	38.4	7.06	12.7
		120	49.8	9.85	12.6	46.9	9.03	12.7	44.1	8.25	12.9	42.7	7.87	12.9	41.3	7.51	13.0	38.4	6.80	13.1
		150	49.8	9.56	13.1	46.9	8.77	13.2	44.1	8.02	13.3	42.7	7.65	13.3	41.3	7.30	13.4	38.4	6.62	13.5
	20	80	49.8	9.16	16.4	46.9	8.41	16.5	44.1	7.70	16.7	42.7	7.35	16.8	41.3	7.02	16.9	38.4	6.37	17.1
		96	49.8	8.85	16.9	46.9	8.13	17.1	44.1	7.44	17.3	42.7	7.11	17.3	41.3	6.79	17.4	38.4	6.17	17.6
		120	49.8	8.51	17.5	46.9	7.82	17.7	44.1	7.17	17.8	42.7	6.85	17.9	41.3	6.55	17.9	38.4	5.95	18.1
		150	49.8	8.26	18.0	46.9	7.60	18.1	44.1	6.97	18.2	42.7	6.67	18.3	41.3	6.37	18.3	38.4	5.80	18.4
	25	80	49.8	7.99	21.3	46.9	7.36	21.5	44.1	6.75	21.7	42.7	6.46	21.8	41.3	6.18	21.9	38.4	5.63	22.1
		96	49.8	7.73	21.9	46.9	7.12	22.0	44.1	6.54	22.2	42.7	6.26	22.3	41.3	5.99	22.4	38.4	5.46	22.5
		120	49.8	7.44	22.5	46.9	6.86	22.6	44.1	6.31	22.7	42.7	6.04	22.8	41.3	5.78	22.9	38.4	5.28	23.0
		150	49.8	7.23	23.0	46.9	6.67	23.1	44.1	6.14	23.2	42.7	5.88	23.2	41.3	5.63	23.3	38.4	5.15	23.4
	30	80	49.8	7.05	26.2	46.9	6.51	26.4	44.1	5.99	26.6	42.7	5.74	26.7	41.3	5.50	26.8	38.4	5.03	27.0
		96	49.8	6.82	26.8	46.9	6.31	27.0	44.1	5.81	27.1	42.7	5.57	27.2	41.3	5.34	27.3	38.4	4.89	27.5
		120	49.8	6.58	27.4	46.9	6.08	27.6	44.1	5.61	27.7	42.7	5.38	27.8	41.3	5.16	27.8	38.4	4.73	28.0
		150	49.8	6.40	27.9	46.9	5.93	28.0	44.1	5.47	28.2	42.7	5.25	28.2	41.3	5.03	28.3	38.4	4.62	28.4
	35	80	49.8	6.28	31.1	46.9	5.82	31.3	44.1	5.37	31.5	42.7	5.16	31.6	41.3	4.95	31.7	38.4	4.54	32.0
		96	49.8	6.09	31.7	46.9	5.64	31.9	44.1	5.21	32.1	42.7	5.01	32.2	41.3	4.81	32.3	38.4	4.42	32.5
		120	49.8	5.88	32.4	46.9	5.45	32.5	44.1	5.04	32.7	42.7	4.85	32.7	41.3	4.65	32.8	38.4	4.28	33.0
		150	49.8	5.73	32.9	46.9	5.31	33.0	44.1	4.92	33.1	42.7	4.73	33.2	41.3	4.54	33.2	38.4	4.19	33.4
	40	80	49.8	5.99	36.1	46.9	5.56	36.3	44.1	5.15	36.5	42.7	4.95	36.6	41.3	4.76	36.7	38.4	4.39	37.0
		96	49.8	5.81	36.7	46.9	5.40	36.9	44.1	5.01	37.1	42.7	4.82	37.2	41.3	4.63	37.3	38.4	4.27	37.4
		120	49.8	5.62	37.4	46.9	5.23	37.5	44.1	4.85	37.7	42.7	4.67	37.7	41.3	4.49	37.8	38.4	4.15	38.0
		150	49.8	5.48	37.9	46.9	5.10	38.0	44.1	4.74	38.1	42.7	4.56	38.2	41.3	4.39	38.2	38.4	4.06	38.4
	45	80	49.8	5.84	41.1	46.9	5.42	41.3	44.1	5.02	41.5	42.7	4.83	41.6	41.3	4.64	41.7	38.4	4.28	41.9
		96	49.8	5.67	41.7	46.9	5.27	41.9	44.1	4.88	42.1	42.7	4.70	42.2	41.3	4.52	42.3	38.4	4.16	42.4
		120	49.8	5.48	42.4	46.9	5.09	42.5	44.1	4.73	42.6	42.7	4.55	42.7	41.3	4.38	42.8	38.4	4.04	42.9
		150	49.8	5.34	42.9	46.9	4.97	43.0	44.1	4.62	43.1	42.7	4.45	43.2	41.3	4.28	43.2	38.4	3.96	43.4
60	10	80	41.1	9.28	7.15	40.2	9.23	7.22	37.8	8.37	7.36	36.6	7.96	7.44	35.4	7.56	7.51	32.9	6.80	7.66
		96	42.7	9.74	7.54	40.2	8.90	7.66	37.8	8.09	7.78	36.6	7.70	7.84	35.4	7.33	7.91	32.9	6.60	8.03
		120	42.7	9.34	8.01	40.2	8.55	8.11	37.8	7.80	8.21	36.6	7.43	8.26	35.4	7.08	8.31	32.9	6.40	8.42
		150	42.7	9.03	8.39	40.2	8.28	8.47	37.8	7.57	8.56	36.6	7.23	8.60	35.4	6.90	8.64	32.9	6.25	8.72
	15	80	42.7	8.46	11.9	40.2	7.78	12.1	37.8	7.13	12.3	36.6	6.82	12.3	35.4	6.51	12.4	32.9	5.92	12.6
		96	42.7	8.18	12.4	40.2	7.52	12.6	37.8	6.90	12.7	36.6	6.60	12.8	35.4	6.31	12.8	32.9	5.74	13.0
		120	42.7	7.87	12.9	40.2	7.24	13.0	37.8	6.65	13.1	36.6	6.36	13.2	35.4	6.08	13.3	32.9	5.54	13.4
		150	42.7	7.65	13.3	40.2	7.05	13.4	37.8	6.47	13.5	36.6	6.19	13.5	35.4	5.92	13.6	32.9	5.40	13.7
	20	80	42.7	7.35	16.8	40.2	6.78	17.0	37.8	6.23	17.2	36.6	5.97	17.3	35.4	5.71	17.3	32.9	5.21	17.5
		96	42.7	7.11	17.3	40.2	6.56	17.5	37.8	6.04	17.6	36.6	5.78	17.7	35.4	5.54	17.8	32.9	5.06	17.9
		120	42.7	6.85	17.9	40.2	6.33	18.0	37.8	5.83	18.1	36.6	5.59	18.1	35.4	5.35	18.2	32.9	4.90	18.3
		150	42.7	6.66	18.3	40.2	6.16	18.4	37.8	5.68	18.5	36.6	5.44	18.5	35.4	5.22	18.6	32.9	4.78	18.7
	25	80	42.7	6.46	21.8	40.2	5.97	21.9	37.8	5.51	22.1	36.6	5.29	22.2	35.4	5.07	22.3	32.9	4.65	22.5
		96	42.7	6.25	22.3	40.2	5.79	22.4	37.8	5.35	22.6	36.6	5.13	22.7	35.4	4.92	22.7	32.9	4.52	22.9
		120	42.7	6.03	22.8	40.2	5.59	22.9	37.8	5.17	23.1	36.6	4.96	23.1	35.4	4.76	23.2	32.9	4.38	23.3
		150	42.7	5.88	23.2	40.2	5.45	23.3	37.8	5.04	23.4	36.6	4.84	23.5	35.4	4.65	23.5	32.9	4.28	23.6
	30	80	42.7	5.74	26.7	40.2	5.33	26.9	37.8	4.93	27.1	36.6	4.74	27.1	35.4	4.55	27.2	32.9	4.19	27.4
		96	42.7	5.57	27.2	40.2	5.17	27.4	37.8	4.79	27.5	36.6	4.60	27.6	35.4	4.43	27.7	32.9	4.08	27.8
		120	42.7	5.38	27.8	40.2	5.00	27.9	37.8	4.64	28.0	36.6	4.46	28.1	35.4	4.29	28.1	32.9	3.96	28.3
		150	42.7	5.24	28.2	40.2	4.88	28.3	37.8	4.53	28.4	36.6	4.36	28.5	35.4	4.19	28.5	32.9	3.87	28.6
	35	80	42.7	5.15	31.6	40.2	4.80	31.8	37.8	4.45	32.0	36.6	4.29	32.1	35.4	4.13	32.2	32.9	3.81	32.4
		96	42.7	5.00	32.2	40.2	4.66	32.3	37.8	4.33	32.5	36.6	4.17	32.6	35.4	4.02	32.7	32.9	3.72	32.8
		120	42.7	4.84	32.7	40.2	4.52	32.9	37.8	4.20	33.0	36.6	4.05	33.1	35.4	3.90	33.1	32.9	3.61	33.2
		150	42.7	4.73	33.2	40.2	4.41	33.3	37.8	4.11	33.4	36.6	3.96	33.4	35.4	3.82	33.5	32.9	3.54	33.6
	40	80	42.7	4.95	36.6	40.2	4.62	36.8	37.8	4.31	37.0	36.6	4.15	37.1	35.4	4.00	37.2	32.9	3.71	37.4
		96	42.7	4.81	37.2	40.2	4.50	37.3	37.8	4.19	37.5	36.6	4.05	37.6	35.4	3.90	37.7	32.9	3.62	37.8
		120	42.7	4.66	37.7	40.2	4.36	37.9	37.8	4.07	38.0	36.6	3.93	38.0	35.4	3.79	38.1	32.9	3.52	38.2
		150	42.7	4.56	38.2	40.2	4.27	38.3	37.8	3.99	38.4	36.6	3.85	38.4	35.4	3.72	38.5	32.9	3.45	38.6
	45	80	42.7	4.83	41.6	40.2	4.51	41.8	37.8	4.20	42.0	36.6	4.05	42.1	35.4	3.90	42.2	32.9	3.62	42.4
		96	42.7	4.69	42.2	40.2	4.38	42.3	37.8	4.09	42.5	36.6	3.95	42.6	35.4	3.81	42.6	32.9	3.53	42.8
		120	42.7	4.55	42.7	40.2	4.25	42.9	37.8	3.97	43.0	36.6	3.83	43.0	35.4	3.70	43.1	32.9	3.43	43.2
		150	42.7	4.44	43.2	40.2	4.16	43.3	37.8	3.89	43.4	36.6	3.75	43.4	35.4	3.62	43.5	32.9	3.36	43.6

3 Capacity tables

3 - 4 Heating capacity tables with glycol

20HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	80	35.5	7.62	7.50	33.5	6.98	7.62	31.5	6.36	7.75	30.5	6.06	7.81	29.5	5.78	7.88	27.5	5.22	8.01
		96	35.5	7.38	7.90	33.5	6.77	8.00	31.5	6.19	8.11	30.5	5.91	8.17	29.5	5.64	8.22	27.5	5.11	8.33
		120	35.5	7.13	8.30	33.5	6.56	8.39	31.5	6.02	8.48	30.5	5.76	8.52	29.5	5.50	8.57	27.5	5.01	8.66
		150	35.5	6.94	8.63	33.5	6.41	8.70	31.5	5.89	8.78	30.5	5.64	8.81	29.5	5.40	8.85	27.5	4.93	8.92
	15	80	35.5	6.55	12.4	33.5	6.06	12.5	31.5	5.59	12.7	30.5	5.36	12.7	29.5	5.14	12.8	27.5	4.71	13.0
		96	35.5	6.35	12.8	33.5	5.87	12.9	31.5	5.42	13.1	30.5	5.20	13.1	29.5	4.99	13.2	27.5	4.57	13.3
		120	35.5	6.12	13.2	33.5	5.67	13.3	31.5	5.24	13.4	30.5	5.03	13.5	29.5	4.82	13.5	27.5	4.43	13.6
		150	35.5	5.96	13.6	33.5	5.53	13.7	31.5	5.11	13.7	30.5	4.91	13.8	29.5	4.71	13.8	27.5	4.33	13.9
	20	80	35.5	5.75	17.3	33.5	5.33	17.5	31.5	4.93	17.6	30.5	4.74	17.7	29.5	4.55	17.8	27.5	4.19	17.9
		96	35.5	5.57	17.8	33.5	5.17	17.9	31.5	4.79	18.0	30.5	4.61	18.1	29.5	4.43	18.1	27.5	4.08	18.3
		120	35.5	5.38	18.2	33.5	5.00	18.3	31.5	4.64	18.4	30.5	4.46	18.4	29.5	4.29	18.5	27.5	3.96	18.6
		150	35.5	5.25	18.6	33.5	4.88	18.6	31.5	4.53	18.7	30.5	4.36	18.8	29.5	4.19	18.8	27.5	3.87	18.9
	25	80	35.5	5.10	22.3	33.5	4.75	22.4	31.5	4.41	22.6	30.5	4.24	22.6	29.5	4.08	22.7	27.5	3.77	22.9
		96	35.5	4.95	22.7	33.5	4.61	22.8	31.5	4.29	23.0	30.5	4.13	23.0	29.5	3.98	23.1	27.5	3.68	23.2
		120	35.5	4.79	23.2	33.5	4.47	23.3	31.5	4.16	23.4	30.5	4.01	23.4	29.5	3.86	23.5	27.5	3.58	23.6
		150	35.5	4.68	23.5	33.5	4.37	23.6	31.5	4.07	23.7	30.5	3.92	23.7	29.5	3.78	23.8	27.5	3.50	23.9
	30	80	35.5	4.58	27.2	33.5	4.27	27.4	31.5	3.98	27.5	30.5	3.84	27.6	29.5	3.70	27.7	27.5	3.44	27.8
		96	35.5	4.45	27.7	33.5	4.16	27.8	31.5	3.88	27.9	30.5	3.74	28.0	29.5	3.61	28.1	27.5	3.36	28.2
		120	35.5	4.31	28.1	33.5	4.04	28.2	31.5	3.77	28.3	30.5	3.64	28.4	29.5	3.51	28.4	27.5	3.27	28.6
		150	35.5	4.22	28.5	33.5	3.95	28.6	31.5	3.69	28.7	30.5	3.56	28.7	29.5	3.44	28.8	27.5	3.20	28.8
	35	80	35.5	4.15	32.2	33.5	3.89	32.3	31.5	3.64	32.5	30.5	3.51	32.6	29.5	3.39	32.7	27.5	3.16	32.8
		96	35.5	4.04	32.6	33.5	3.79	32.8	31.5	3.55	32.9	30.5	3.43	33.0	29.5	3.31	33.0	27.5	3.09	33.2
		120	35.5	3.92	33.1	33.5	3.68	33.2	31.5	3.45	33.3	30.5	3.34	33.4	29.5	3.23	33.4	27.5	3.01	33.5
		150	35.5	3.84	33.5	33.5	3.60	33.6	31.5	3.38	33.7	30.5	3.27	33.7	29.5	3.16	33.7	27.5	2.96	33.8
	40	80	35.5	4.02	37.2	33.5	3.78	37.3	31.5	3.54	37.5	30.5	3.43	37.6	29.5	3.31	37.7	27.5	3.08	37.8
		96	35.5	3.92	37.6	33.5	3.69	37.8	31.5	3.46	37.9	30.5	3.34	38.0	29.5	3.23	38.0	27.5	3.01	38.2
		120	35.5	3.81	38.1	33.5	3.59	38.2	31.5	3.36	38.3	30.5	3.25	38.4	29.5	3.15	38.4	27.5	2.94	38.5
		150	35.5	3.74	38.5	33.5	3.51	38.6	31.5	3.30	38.7	30.5	3.19	38.7	29.5	3.09	38.7	27.5	2.88	38.8
	45	80	35.5	3.92	42.2	33.5	3.69	42.3	31.5	3.46	42.5	30.5	3.34	42.6	29.5	3.23	42.6	27.5	3.01	42.8
		96	35.5	3.83	42.6	33.5	3.60	42.8	31.5	3.37	42.9	30.5	3.26	43.0	29.5	3.15	43.0	27.5	2.94	43.2
		120	35.5	3.72	43.1	33.5	3.50	43.2	31.5	3.28	43.3	30.5	3.17	43.4	29.5	3.07	43.4	27.5	2.86	43.5
		150	35.5	3.64	43.5	33.5	3.43	43.6	31.5	3.21	43.6	30.5	3.11	43.7	29.5	3.01	43.7	27.5	2.81	43.8

3 Capacity tables

3 - 4 Heating capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
130	10	80	60.6	12.8	7.15	61.6	12.4	7.06	62.4	12.0	6.99	62.7	11.9	6.97	63.0	11.8	6.95	63.4	11.8	6.92
		96	67.8	13.5	7.30	68.5	13.2	7.25	69.0	13.1	7.22	69.1	13.0	7.21	69.3	13.0	7.20	69.4	13.1	7.20
		120	76.0	14.6	7.56	76.4	14.6	7.54	76.6	14.6	7.53	76.6	14.7	7.53	76.6	14.8	7.54	76.5	15.1	7.55
		150	82.9	15.9	7.86	83.1	16.0	7.86	83.1	16.2	7.87	83.0	16.3	7.88	82.9	16.5	7.88	82.6	16.9	7.91
	15	80	89.6	16.8	10.7	89.5	17.0	10.7	89.4	17.3	10.7	89.2	17.5	10.7	89.0	17.7	10.7	88.5	18.2	10.8
		96	91.8	16.9	11.3	91.7	17.1	11.3	91.4	17.5	11.3	91.3	17.7	11.3	91.0	17.9	11.4	90.5	18.4	11.4
		120	94.3	17.0	11.9	94.2	17.3	11.9	93.9	17.7	12.0	93.6	17.9	12.0	93.4	18.1	12.0	92.8	18.7	12.0
		150	96.3	17.1	12.5	96.1	17.4	12.5	95.7	17.8	12.5	95.5	18.1	12.5	95.2	18.3	12.6	94.6	18.9	12.6
	20	80	99.1	17.3	15.1	98.8	17.6	15.2	98.4	18.1	15.2	98.1	18.3	15.2	97.8	18.6	15.3	97.1	19.2	15.3
		96	101	17.4	15.8	101	17.8	15.9	101	18.3	15.9	100	18.5	15.9	100.0	18.8	16.0	99.2	19.4	16.0
		120	104	17.6	16.6	104	18.0	16.6	103	18.5	16.6	103	18.7	16.7	103	19.0	16.7	102	19.6	16.7
		150	106	17.8	17.2	106	18.2	17.2	105	18.7	17.2	105	18.9	17.3	104	19.2	17.3	104	19.9	17.3
	25	80	109	18.0	19.6	108	18.4	19.6	108	18.9	19.7	107	19.2	19.7	107	19.5	19.8	106	20.1	19.9
		96	111	18.2	20.4	111	18.6	20.4	110	19.1	20.5	110	19.4	20.5	109	19.7	20.6	107	19.9	20.7
		120	114	18.4	21.2	113	18.9	21.2	113	19.4	21.3	112	19.7	21.3	112	20.0	21.3	107	19.1	21.5
		150	116	18.6	21.9	116	19.1	21.9	115	19.6	22.0	114	19.9	22.0	114	20.2	22.0	107	18.5	22.2
	30	80	118	18.8	24.1	118	19.3	24.1	117	19.8	24.2	116	20.1	24.2	115	20.0	24.3	107	17.9	24.7
		96	121	19.0	24.9	120	19.5	25.0	119	20.1	25.1	119	20.3	25.1	115	19.3	25.2	107	17.3	25.5
		120	124	19.3	25.8	123	19.8	25.9	122	20.3	25.9	119	19.5	26.0	115	18.5	26.2	107	16.6	26.4
		150	126	19.5	26.6	126	20.0	26.6	123	19.9	26.7	119	18.9	26.8	115	17.9	26.9	107	16.1	27.1
	35	80	128	19.6	28.5	127	20.2	28.6	123	19.4	28.8	119	18.5	29.0	115	17.5	29.2	107	15.7	29.5
		96	131	19.9	29.5	130	20.4	29.5	123	18.7	29.8	119	17.8	30.0	115	16.9	30.1	107	15.2	30.4
		120	134	20.1	30.5	131	19.8	30.6	123	18.0	30.8	119	17.1	30.9	115	16.2	31.1	107	14.6	31.3
		150	137	20.4	31.3	131	19.2	31.4	123	17.4	31.6	119	16.6	31.7	115	15.7	31.8	107	14.2	32.0
	40	80	138	21.1	33.0	131	19.4	33.4	123	18.2	33.7	119	17.3	33.9	115	16.4	34.1	107	14.8	34.5
		96	139	20.5	34.1	131	18.7	34.4	123	17.5	34.8	119	16.7	34.9	115	15.8	35.1	107	14.3	35.4
		120	139	19.7	35.3	131	18.5	35.5	123	16.8	35.8	119	16.0	35.9	115	15.2	36.0	107	13.7	36.3
		150	139	19.0	36.2	131	17.9	36.4	123	16.3	36.6	119	15.5	36.7	115	14.8	36.8	107	13.3	37.0
	45	80	139	20.1	37.9	131	18.9	38.3	123	17.4	38.7	119	16.5	38.9	115	15.7	39.1	107	14.2	39.5
		96	139	20.0	39.1	131	18.3	39.4	123	16.7	39.7	119	16.0	39.9	115	15.2	40.0	107	13.7	40.4
		120	139	19.2	40.2	131	17.6	40.5	123	16.1	40.7	119	15.3	40.9	115	14.6	41.0	107	13.2	41.3
		150	139	18.6	41.2	131	17.1	41.4	123	15.6	41.6	119	14.9	41.7	115	14.2	41.8	107	12.8	42.0
120	10	80	61.9	12.2	7.03	62.6	12.0	6.98	63.1	11.8	6.94	63.3	11.8	6.93	63.4	11.8	6.92	63.5	11.9	6.92
		96	68.7	13.1	7.24	69.1	13.0	7.21	69.3	13.0	7.20	69.4	13.1	7.20	69.4	13.2	7.20	69.3	13.4	7.22
		120	76.5	14.6	7.53	76.6	14.6	7.53	76.6	14.8	7.54	76.6	14.9	7.55	76.5	15.1	7.56	76.2	15.5	7.58
		150	83.1	16.0	7.86	83.0	16.2	7.87	82.9	16.6	7.89	82.7	16.7	7.90	82.5	17.0	7.91	82.1	17.5	7.94
	15	80	89.5	17.1	10.7	89.3	17.4	10.7	88.9	17.8	10.8	88.7	18.0	10.8	88.4	18.3	10.8	87.8	18.9	10.9
		96	91.6	17.2	11.3	91.3	17.6	11.3	90.9	18.0	11.4	90.7	18.2	11.4	90.4	18.5	11.4	89.8	19.1	11.5
		120	94.1	17.4	11.9	93.7	17.8	12.0	93.3	18.2	12.0	93.0	18.5	12.0	92.7	18.7	12.1	92.0	19.4	12.1
		150	96.0	17.5	12.5	95.6	17.9	12.5	95.1	18.4	12.6	94.8	18.7	12.6	94.5	18.9	12.6	93.8	19.6	12.6
	20	80	98.7	17.8	15.2	98.2	18.2	15.2	97.7	18.7	15.3	97.4	18.9	15.3	97.0	19.2	15.4	96.2	19.9	15.4
		96	101	18.0	15.9	100	18.4	15.9	99.9	18.9	16.0	99.5	19.2	16.0	99.1	19.5	16.0	98.3	20.1	16.1
		120	104	18.2	16.6	103	18.6	16.6	102	19.1	16.7	102	19.4	16.7	102	19.7	16.7	98.8	19.5	16.8
		150	106	18.4	17.2	105	18.8	17.3	104	19.4	17.3	104	19.6	17.3	104	19.9	17.3	98.8	18.9	17.5
	25	80	108	18.6	19.7	107	19.1	19.7	107	19.6	19.8	106	19.9	19.8	106	20.2	19.9	98.8	18.2	20.2
		96	110	18.8	20.4	110	19.3	20.5	109	19.8	20.6	109	20.1	20.6	106	19.6	20.7	98.8	17.6	21.0
		120	113	19.0	21.3	112	19.5	21.3	112	20.1	21.4	110	19.8	21.4	106	18.8	21.5	98.8	16.8	21.7
		150	115	19.2	21.9	115	19.8	22.0	113	20.2	22.0	110	19.2	22.1	106	18.2	22.2	98.8	16.3	22.4
	30	80	117	19.5	24.2	117	20.0	24.2	113	19.6	24.4	110	18.6	24.6	106	17.7	24.7	98.8	15.9	25.0
		96	120	19.7	25.0	119	20.2	25.1	113	18.9	25.3	110	18.0	25.4	106	17.1	25.6	98.8	15.3	25.8
		120	123	20.0	25.9	121	20.0	26.0	113	18.1	26.2	110	17.2	26.3	106	16.4	26.4	98.8	14.7	26.7
		150	125	20.2	26.7	121	19.3	26.8	113	17.6	26.9	110	16.7	27.0	106	15.9	27.1	98.8	14.3	27.3
	35	80	127	20.4	28.6	121	18.9	28.9	113	17.2	29.3	110	16.3	29.4	106	15.5	29.6	98.8	14.0	29.9
		96	128	20.0	29.6	121	18.2	29.9	113	16.6	30.2	110	15.8	30.3	106	15.0	30.5	98.8	13.5	30.8
		120	128	19.1	30.7	121	17.5	30.9	113	15.9	31.1	110	15.1	31.2	106	14.4	31.3	98.8	13.0	31.6
		150	128	18.5	31.5	121	16.9	31.7	113	15.4	31.9	110	14.7	32.0	106	14.0	32.1	98.8	12.6	32.3
	40	80	128	18.8	33.5	121	17.7	33.8	113	16.1	34.2	110	15.3	34.4	106	14.6	34.5	98.8	13.2	34.9
		96	128	18.6	34.6	121	17.0	34.8	113	15.5	35.1	110	14.8	35.3	106	14.1	35.4	98.8	12.7	35.7
		120	128	17.9	35.6	121	16.4	35.8	113	14.9	36.1	110	14.2	36.2	106	13.5	36.3	98.8	12.2	36.6
		150	128	17.3	36.5	121	15.9	36.7	113	14.5	36.8	110	13.8	36.9	106	13.2	37.0	98.8	11.9	37.2
	45	80	128	18.3	38.5	121	16.9	38.8	113	15.4	39.1	110	14.7	39.3	106	14.0	39.5	98.8	12.7	39.9
		96	128	17.8	39.5	121	16.3	39.8	113	14.9	40.1	110	14.2	40.2	106	13.5	40.4	98.8	12.3	40.7
		120	128	17.1	40.6	121	15.7	40.8	113	14.3	41.1	110	13.7	41.2	106	13.0	41.3	98.8	11.8	41.5
		150	128	16.6	41.5	121	15.2	41.6	113	13.9	41.8	110	13.3	41.9	106	12.7	42.0	98.8	11.5	42.2

3 Capacity tables

3 - 4 Heating capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
110	10	80	62.8	11.9	6.96	63.2	11.8	6.93	63.4	11.8	6.92	63.5	11.8	6.91	63.5	11.9	6.92	63.4	12.1	6.93
		96	69.2	13.0	7.20	69.4	13.1	7.20	69.4	13.2	7.20	69.3	13.3	7.21	69.3	13.5	7.22	69.0	13.8	7.25
		120	76.6	14.7	7.53	76.6	14.9	7.54	76.4	15.2	7.56	76.3	15.4	7.58	76.1	15.6	7.59	75.6	16.0	7.63
		150	83.0	16.4	7.88	82.7	16.7	7.90	82.4	17.1	7.92	82.2	17.3	7.93	81.9	17.6	7.95	81.4	18.1	7.99
	15	80	89.1	17.6	10.7	88.8	18.0	10.8	88.3	18.5	10.8	88.0	18.7	10.9	87.7	19.0	10.9	87.0	19.6	11.0
		96	91.2	17.8	11.3	90.8	18.2	11.4	90.2	18.7	11.4	89.9	18.9	11.5	89.6	19.2	11.5	88.9	19.9	11.6
		120	93.5	18.0	12.0	93.1	18.4	12.0	92.5	18.9	12.1	92.2	19.2	12.1	91.9	19.5	12.1	90.6	19.9	12.2
		150	95.4	18.2	12.5	94.9	18.6	12.6	94.3	19.1	12.6	93.9	19.4	12.6	93.6	19.7	12.6	90.6	19.3	12.7
	20	80	98.0	18.4	15.2	97.5	18.9	15.3	96.8	19.4	15.4	96.4	19.7	15.4	96.1	20.0	15.5	90.6	18.4	15.7
		96	100	18.6	15.9	99.6	19.1	16.0	98.9	19.6	16.1	98.5	19.9	16.1	97.3	19.8	16.1	90.6	17.8	16.4
		120	103	18.9	16.7	102	19.4	16.7	101	19.9	16.8	101	20.1	16.8	97.3	19.0	16.9	90.6	17.0	17.1
		150	105	19.1	17.3	104	19.6	17.3	103	20.1	17.4	101	19.4	17.4	97.3	18.4	17.5	90.6	16.5	17.6
	25	80	107	19.3	19.8	106	19.8	19.8	104	19.7	20.0	101	18.7	20.1	97.3	17.8	20.3	90.6	15.9	20.5
		96	109	19.5	20.5	109	20.1	20.6	104	19.0	20.8	101	18.0	20.9	97.3	17.1	21.0	90.6	15.4	21.3
		120	112	19.8	21.3	111	20.1	21.4	104	18.2	21.6	101	17.3	21.7	97.3	16.4	21.8	90.6	14.8	22.0
		150	114	20.0	22.0	111	19.4	22.1	104	17.6	22.3	101	16.8	22.3	97.3	15.9	22.4	90.6	14.3	22.6
	30	80	116	20.2	24.3	111	18.9	24.5	104	17.1	24.8	101	16.3	25.0	97.3	15.5	25.1	90.6	13.9	25.4
		96	117	19.9	25.2	111	18.2	25.4	104	16.5	25.6	101	15.7	25.8	97.3	14.9	25.9	90.6	13.5	26.2
		120	117	19.1	26.1	111	17.4	26.3	104	15.9	26.5	101	15.1	26.6	97.3	14.4	26.7	90.6	12.9	26.9
		150	117	18.5	26.9	111	16.9	27.0	104	15.4	27.2	101	14.6	27.3	97.3	13.9	27.3	90.6	12.6	27.5
	35	80	117	18.1	29.1	111	16.5	29.4	104	15.1	29.7	101	14.3	29.8	97.3	13.6	30.0	90.6	12.3	30.3
		96	117	17.4	30.0	111	15.9	30.3	104	14.5	30.5	101	13.8	30.7	97.3	13.2	30.8	90.6	11.9	31.1
		120	117	16.7	31.0	111	15.3	31.2	104	14.0	31.4	101	13.3	31.5	97.3	12.7	31.6	90.6	11.5	31.8
		150	117	16.2	31.8	111	14.9	31.9	104	13.6	32.1	101	12.9	32.2	97.3	12.3	32.3	90.6	11.1	32.5
	40	80	117	16.9	34.0	111	15.5	34.3	104	14.1	34.6	101	13.5	34.8	97.3	12.9	35.0	90.6	11.6	35.3
		96	117	16.3	35.0	111	15.0	35.2	104	13.7	35.5	101	13.0	35.6	97.3	12.4	35.8	90.6	11.3	36.1
		120	117	15.7	36.0	111	14.4	36.2	104	13.1	36.4	101	12.5	36.5	97.3	12.0	36.6	90.6	10.8	36.8
		150	117	15.2	36.7	111	14.0	36.9	104	12.8	37.1	101	12.2	37.2	97.3	11.6	37.3	90.6	10.6	37.5
	45	80	117	16.2	39.0	111	14.9	39.3	104	13.6	39.6	101	13.0	39.8	97.3	12.4	39.9	90.6	11.3	40.3
		96	117	15.6	39.9	111	14.4	40.2	104	13.2	40.5	101	12.6	40.6	97.3	12.0	40.8	90.6	10.9	41.0
		120	117	15.0	40.9	111	13.8	41.1	104	12.7	41.4	101	12.1	41.5	97.3	11.6	41.6	90.6	10.5	41.8
		150	117	14.6	41.7	111	13.4	41.9	104	12.3	42.1	101	11.8	42.2	97.3	11.3	42.3	90.6	10.2	42.4
100	10	80	63.4	11.8	6.92	63.5	11.8	6.91	63.5	12.0	6.92	63.5	12.1	6.93	63.4	12.2	6.94	63.1	12.5	6.98
		96	69.4	13.2	7.20	69.3	13.3	7.21	69.2	13.6	7.23	69.1	13.7	7.25	68.9	13.9	7.26	68.5	14.3	7.30
		120	76.5	15.1	7.55	76.3	15.4	7.58	75.9	15.8	7.60	75.7	16.0	7.62	75.5	16.2	7.64	74.9	16.7	7.68
		150	82.6	16.9	7.91	82.2	17.3	7.93	81.7	17.8	7.96	81.4	18.0	7.98	81.2	18.3	8.00	80.5	18.9	8.04
	15	80	88.5	18.3	10.8	88.0	18.7	10.9	87.4	19.3	10.9	87.1	19.5	11.0	86.8	19.8	11.0	82.4	18.6	11.2
		96	90.5	18.5	11.4	89.9	18.9	11.5	89.3	19.5	11.5	89.0	19.8	11.6	88.4	20.0	11.6	82.4	17.9	11.8
		120	92.8	18.7	12.1	92.2	19.2	12.1	91.5	19.7	12.1	91.2	20.0	12.2	88.4	19.2	12.2	82.4	17.2	12.4
		150	94.5	18.9	12.6	93.9	19.4	12.6	93.3	20.0	12.7	91.5	19.6	12.7	88.4	18.6	12.8	82.4	16.6	12.9
	20	80	97.1	19.2	15.3	96.4	19.7	15.4	94.5	19.7	15.5	91.5	18.7	15.7	88.4	17.8	15.8	82.4	15.9	16.0
		96	99.2	19.4	16.0	98.5	19.9	16.1	94.5	18.9	16.2	91.5	18.0	16.3	88.4	17.1	16.5	82.4	15.4	17
		120	102	19.7	16.7	101	20.0	16.8	94.5	18.2	17.0	91.5	17.3	17.0	88.4	16.4	17.1	82.4	14.7	17.3
		150	104	19.9	17.3	101	19.4	17.4	94.5	17.6	17.6	91.5	16.8	17.6	88.4	15.9	17.7	82.4	14.3	17.8
	25	80	106	20.2	19.9	101	18.7	20.1	94.5	17.0	20.4	91.5	16.2	20.5	88.4	15.4	20.6	82.4	13.8	20.9
		96	107	19.8	20.7	101	18.0	20.9	94.5	16.4	21.1	91.5	15.6	21.2	88.4	14.8	21.3	82.4	13.3	21.6
		120	107	18.9	21.5	101	17.3	21.7	94.5	15.7	21.9	91.5	15.0	22.0	88.4	14.2	22.0	82.4	12.8	22.2
		150	107	18.4	22.2	101	16.8	22.3	94.5	15.3	22.5	91.5	14.5	22.5	88.4	13.8	22.6	82.4	12.5	22.8
	30	80	107	17.8	24.7	101	16.3	25.0	94.5	14.8	25.2	91.5	14.1	25.4	88.4	13.4	25.5	82.4	12.1	25.8
		96	107	17.2	25.5	101	15.7	25.8	94.5	14.3	26.0	91.5	13.6	26.1	88.4	13.0	26.2	82.4	11.7	26.5
		120	107	16.5	26.4	101	15.1	26.6	94.5	13.8	26.8	91.5	13.1	26.9	88.4	12.5	27.0	82.4	11.3	27.2
		150	107	16.0	27.1	101	14.6	27.3	94.5	13.4	27.4	91.5	12.7	27.5	88.4	12.1	27.6	82.4	11.0	27.7
	35	80	107	15.6	29.6	101	14.3	29.8	94.5	13.1	30.1	91.5	12.5	30.3	88.4	11.9	30.4	82.4	10.8	30.7
		96	107	15.1	30.4	101	13.8	30.7	94.5	12.6	30.9	91.5	12.1	31.0	88.4	11.5	31.2	82.4	10.4	31.4
		120	107	14.5	31.3	101	13.3	31.5	94.5	12.2	31.7	91.5	11.6	31.8	88.4	11.1	31.9	82.4	10.0	32.1
		150	107	14.1	32.1	101	12.9	32.2	94.5	11.8	32.4	91.5	11.3	32.4	88.4	10.8	32.5	82.4	9.77	32.7
	40	80	107	14.7	34.5	101	13.5	34.8	94.5	12.3	35.1	91.5	11.8	35.2	88.4	11.3	35.4	82.4	10.2	35.7
		96	107	14.2	35.4	101	13.0	35.6	94.5	11.9	35.9	91.5	11.4	36.0	88.4	10.9	36.1	82.4	9.90	36.4
		120	107	13.6	36.3	101	12.5	36.5	94.5	11.5	36.7	91.5	11.0	36.8	88.4	10.5	36.9	82.4	9.55	37.1
		150	107	13.2	37.0	101	12.2	37.2	94.5	11.2	37.3	91.5	10.7	37.4	88.4	10.2	37.5	82.4	9.31	37.7
	45	80	107	14.1	39.5	101	13.0	39.8	94.5	11.9	40.1	91.5	11.4	40.2	88.4	10.9	40.4	82.4	9.93	40.7
		96	107	13.6	40.4	101	12.6	40.6	94.5	11.5	40.9	91.5	11.0	41.0	88.4	10.6	41.1	82.4	9.63	41.4
		120	107	13.1	41.3	101	12.1	41.5	94.5	11.1	41.7	91.5	10.7	41.8	88.4	10.2	41.9	82.4	9.30	42.1
		150	107	12.8	42.0	101	11.8	42.2	94.5	10.8	42.3	91.5	10.4	42.4	88.4	9.93	42.5	82.4	9.07	42.7

3 Capacity tables

3 - 4 Heating capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
90	10	80	63.5	11.9	6.92	63.4	12.1	6.93	63.3	12.4	6.96	63.1	12.5	6.98	63.0	12.7	6.99	62.6	13.0	7.04
		96	69.2	13.5	7.23	69.0	13.8	7.25	68.7	14.1	7.28	68.5	14.3	7.30	68.3	14.5	7.32	67.8	15.0	7.37
		120	76.0	15.7	7.60	75.6	16.0	7.63	75.2	16.5	7.66	74.9	16.7	7.68	74.7	17.0	7.70	74.0	17.5	7.75
		150	81.8	17.7	7.96	81.4	18.1	7.99	80.8	18.6	8.02	80.5	18.9	8.04	79.6	18.9	8.07	74.1	16.9	8.18
	15	80	87.6	19.1	10.9	87.0	19.6	11.0	85.1	19.5	11.1	82.3	18.5	11.2	79.6	17.6	11.3	74.1	15.8	11.5
		96	89.5	19.3	11.5	88.9	19.9	11.6	85.1	18.8	11.7	82.3	17.9	11.8	79.6	17.0	11.9	74.1	15.2	12.1
		120	91.7	19.6	12.1	90.5	19.9	12.2	85.1	18.0	12.3	82.3	17.1	12.4	79.6	16.3	12.5	74.1	14.6	12.6
		150	93.4	19.8	12.7	90.5	19.2	12.7	85.1	17.5	12.8	82.3	16.6	12.9	79.6	15.8	13.0	74.1	14.2	13.1
	20	80	95.9	20.1	15.5	90.5	18.4	15.7	85.1	16.7	15.9	82.3	15.9	16.0	79.6	15.1	16.1	74.1	13.6	16.4
		96	96.0	19.4	16.2	90.5	17.7	16.4	85.1	16.1	16.6	82.3	15.3	16.7	79.6	14.6	16.8	74.1	13.1	17.0
		120	96.0	18.6	16.9	90.5	17.0	17.1	85.1	15.5	17.2	82.3	14.7	17.3	79.6	14.0	17.4	74.1	12.6	17.6
		150	96.0	18.1	17.5	90.5	16.5	17.6	85.1	15.0	17.8	82.3	14.3	17.8	79.6	13.6	17.9	74.1	12.3	18.0
	25	80	96.0	17.4	20.3	90.5	15.9	20.5	85.1	14.5	20.8	82.3	13.8	20.9	79.6	13.1	21.0	74.1	11.9	21.3
		96	96.0	16.8	21.1	90.5	15.4	21.3	85.1	14.0	21.5	82.3	13.3	21.6	79.6	12.7	21.7	74.1	11.5	21.9
		120	96.0	16.1	21.8	90.5	14.7	22.0	85.1	13.4	22.1	82.3	12.8	22.2	79.6	12.2	22.3	74.1	11.0	22.5
		150	96.0	15.6	22.4	90.5	14.3	22.6	85.1	13.1	22.7	82.3	12.5	22.8	79.6	11.9	22.8	74.1	10.7	23.0
	30	80	96.0	15.2	25.2	90.5	13.9	25.4	85.1	12.7	25.7	82.3	12.1	25.8	79.6	11.6	25.9	74.1	10.5	26.2
		96	96.0	14.7	26.0	90.5	13.4	26.2	85.1	12.3	26.4	82.3	11.7	26.5	79.6	11.2	26.6	74.1	10.1	26.8
		120	96.0	14.1	26.7	90.5	12.9	26.9	85.1	11.8	27.1	82.3	11.3	27.2	79.6	10.8	27.3	74.1	9.77	27.4
		150	96.0	13.7	27.4	90.5	12.6	27.5	85.1	11.5	27.7	82.3	11.0	27.7	79.6	10.5	27.8	74.1	9.51	27.9
	35	80	96.0	13.4	30.1	90.5	12.3	30.3	85.1	11.3	30.6	82.3	10.8	30.7	79.6	10.3	30.9	74.1	9.33	31.1
		96	96.0	12.9	30.9	90.5	11.9	31.1	85.1	10.9	31.3	82.3	10.4	31.4	79.6	9.94	31.5	74.1	9.05	31.8
		120	96.0	12.4	31.7	90.5	11.4	31.9	85.1	10.5	32.0	82.3	10.0	32.1	79.6	9.59	32.2	74.1	8.73	32.4
		150	96.0	12.1	32.3	90.5	11.1	32.5	85.1	10.2	32.6	82.3	9.77	32.7	79.6	9.34	32.8	74.1	8.51	32.9
	40	80	96.0	12.6	35.0	90.5	11.6	35.3	85.1	10.7	35.6	82.3	10.2	35.7	79.6	9.76	35.8	74.1	8.90	36.1
		96	96.0	12.2	35.8	90.5	11.2	36.1	85.1	10.3	36.3	82.3	9.89	36.4	79.6	9.46	36.5	74.1	8.64	36.7
		120	96.0	11.7	36.6	90.5	10.8	36.8	85.1	9.97	37.0	82.3	9.55	37.1	79.6	9.14	37.2	74.1	8.35	37.4
		150	96.0	11.4	37.3	90.5	10.5	37.5	85.1	9.71	37.6	82.3	9.30	37.7	79.6	8.91	37.7	74.1	8.15	37.9
	45	80	96.0	12.2	40.0	90.5	11.2	40.3	85.1	10.3	40.5	82.3	9.92	40.7	79.6	9.50	40.8	74.1	8.68	41.1
		96	96.0	11.8	40.8	90.5	10.9	41.0	85.1	10.0	41.3	82.3	9.62	41.4	79.6	9.22	41.5	74.1	8.42	41.7
		120	96.0	11.4	41.6	90.5	10.5	41.8	85.1	9.69	42.0	82.3	9.30	42.1	79.6	8.91	42.2	74.1	8.14	42.4
		150	96.0	11.1	42.3	90.5	10.2	42.4	85.1	9.45	42.6	82.3	9.07	42.7	79.6	8.69	42.7	74.1	7.94	42.9
80	10	80	63.3	12.3	6.96	63.0	12.6	6.99	62.7	12.9	7.03	62.5	13.1	7.05	62.3	13.3	7.07	61.9	13.7	7.13
		96	68.7	14.1	7.28	68.4	14.5	7.32	67.9	14.9	7.36	67.7	15.1	7.38	67.4	15.3	7.41	65.9	15.3	7.48
		120	75.2	16.5	7.66	74.7	16.9	7.70	74.2	17.4	7.74	73.2	17.2	7.77	70.7	16.4	7.83	65.9	14.6	7.96
		150	80.8	18.6	8.02	80.3	19.1	8.05	75.6	17.4	8.15	73.2	16.6	8.20	70.7	15.8	8.25	65.9	14.1	8.35
	15	80	85.3	19.6	11.1	80.5	17.9	11.3	75.6	16.3	11.5	73.2	15.5	11.6	70.7	14.7	11.7	65.9	13.2	11.9
		96	85.3	18.9	11.7	80.5	17.3	11.9	75.6	15.7	12.0	73.2	14.9	12.1	70.7	14.2	12.2	65.9	12.8	12.4
		120	85.3	18.1	12.3	80.5	16.5	12.5	75.6	15.1	12.6	73.2	14.3	12.7	70.7	13.6	12.7	65.9	12.3	12.9
		150	85.3	17.6	12.8	80.5	16.0	12.9	75.6	14.6	13.1	73.2	13.9	13.1	70.7	13.2	13.2	65.9	12.0	13.3
	20	80	85.3	16.8	15.9	80.5	15.4	16.1	75.6	14.0	16.3	73.2	13.3	16.4	70.7	12.7	16.5	65.9	11.5	16.8
		96	85.3	16.2	16.6	80.5	14.8	16.7	75.6	13.5	16.9	73.2	12.9	17.0	70.7	12.3	17.1	65.9	11.1	17.3
		120	85.3	15.5	17.2	80.5	14.2	17.4	75.6	13.0	17.5	73.2	12.4	17.6	70.7	11.8	17.7	65.9	10.7	17.8
		150	85.3	15.1	17.8	80.5	13.8	17.9	75.6	12.6	18.0	73.2	12.0	18.1	70.7	11.5	18.1	65.9	10.4	18.2
	25	80	85.3	14.6	20.8	80.5	13.4	21.0	75.6	12.2	21.2	73.2	11.7	21.3	70.7	11.1	21.4	65.9	10.1	21.7
		96	85.3	14.1	21.5	80.5	12.9	21.6	75.6	11.8	21.8	73.2	11.3	21.9	70.7	10.8	22.0	65.9	9.76	22.2
		120	85.3	13.5	22.1	80.5	12.4	22.3	75.6	11.4	22.4	73.2	10.9	22.5	70.7	10.4	22.6	65.9	9.41	22.8
		150	85.3	13.1	22.7	80.5	12.1	22.8	75.6	11.0	22.9	73.2	10.6	23.0	70.7	10.1	23.1	65.9	9.16	23.2
	30	80	85.3	12.8	25.7	80.5	11.7	25.9	75.6	10.8	26.1	73.2	10.3	26.2	70.7	9.83	26.4	65.9	8.94	26.6
		96	85.3	12.3	26.4	80.5	11.4	26.6	75.6	10.4	26.8	73.2	9.96	26.9	70.7	9.52	27.0	65.9	8.67	27.2
		120	85.3	11.9	27.1	80.5	10.9	27.2	75.6	10.0	27.4	73.2	9.61	27.5	70.7	9.18	27.5	65.9	8.37	27.7
		150	85.3	11.5	27.7	80.5	10.6	27.8	75.6	9.77	27.9	73.2	9.35	28.0	70.7	8.94	28.0	65.9	8.16	28.2
	35	80	85.3	11.3	30.6	80.5	10.4	30.8	75.6	9.58	31.1	73.2	9.18	31.2	70.7	8.78	31.3	65.9	8.02	31.5
		96	85.3	10.9	31.3	80.5	10.1	31.5	75.6	9.29	31.7	73.2	8.90	31.8	70.7	8.51	31.9	65.9	7.78	32.1
		120	85.3	10.5	32.0	80.5	9.73	32.2	75.6	8.96	32.3	73.2	8.59	32.4	70.7	8.23	32.5	65.9	7.53	32.7
		150	85.3	10.3	32.6	80.5	9.47	32.7	75.6	8.73	32.9	73.2	8.37	32.9	70.7	8.02	33.0	65.9	7.35	33.1
	40	80	85.3	10.7	35.5	80.5	9.91	35.8	75.6	9.13	36.0	73.2	8.76	36.2	70.7	8.39	36.3	65.9	7.69	36.5
		96	85.3	10.4	36.3	80.5	9.60	36.5	75.6	8.86	36.7	73.2	8.50	36.8	70.7	8.15	36.9	65.9	7.47	37.1
		120	85.3	10.0	37.0	80.5	9.27	37.2	75.6	8.56	37.3	73.2	8.22	37.4	70.7	7.88	37.5	65.9	7.24	37.7
		150	85.3	9.75	37.6	80.5	9.03	37.7	75.6	8.35	37.9	73.2	8.02	37.9	70.7	7.70	38.0	65.9	7.07	38.1
	45	80	85.3	10.4	40.5	80.5	9.63	40.8	75.6	8.90	41.0	73.2	8.54	41.1	70.7	8.18	41.3	65.9	7.50	41.5
		96	85.3	10.1	41.3	80.5	9.35	41.5	75.6	8.64	41.7	73.2	8.29	41.8	70.7	7.95	41.9	65.9	7.29	42.1
		120	85.3	9.73	42.0	80.5	9.03	42.2	75.6	8.35	42.3	73.2	8.01	42.4	70.7	7.69	42.5	65.9	7.06	42.7
		150	85.3	9.48	42.6	80.5	8.81	42.7	75.6	8.14	42.9	73.2	7.82	42.9	70.7	7.50	43.0	65.9	6.90	43.1

3 Capacity tables

3 - 4 Heating capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
70	10	80	62.7	13.0	7.03	62.3	13.3	7.08	61.9	13.7	7.12	61.7	13.9	7.15	61.4	14.1	7.18	57.6	12.9	7.33
		96	67.9	15.0	7.37	67.4	15.4	7.41	66.2	15.4	7.47	64.0	14.6	7.54	61.9	13.9	7.61	57.6	12.4	7.75
		120	74.1	17.5	7.75	70.4	16.2	7.84	66.2	14.7	7.95	64.0	14.0	8.01	61.9	13.3	8.07	57.6	12.0	8.18
		150	74.7	17.1	8.17	70.4	15.6	8.26	66.2	14.2	8.35	64.0	13.6	8.39	61.9	12.9	8.44	57.6	11.6	8.53
	15	80	74.7	16.0	11.5	70.4	14.6	11.7	66.2	13.3	11.8	64.0	12.7	11.9	61.9	12.1	12.0	57.6	10.9	12.2
		96	74.7	15.4	12.1	70.4	14.1	12.2	66.2	12.9	12.3	64.0	12.3	12.4	61.9	11.7	12.5	57.6	10.6	12.7
		120	74.7	14.8	12.6	70.4	13.5	12.7	66.2	12.4	12.9	64.0	11.8	12.9	61.9	11.3	13.0	57.6	10.2	13.1
		150	74.7	14.3	13.1	70.4	13.2	13.2	66.2	12.0	13.3	64.0	11.5	13.3	61.9	10.9	13.4	57.6	9.93	13.5
	20	80	74.7	13.7	16.4	70.4	12.6	16.5	66.2	11.5	16.7	64.0	11.0	16.8	61.9	10.5	16.9	57.6	9.55	17.1
		96	74.7	13.3	16.9	70.4	12.2	17.1	66.2	11.2	17.3	64.0	10.7	17.3	61.9	10.2	17.4	57.6	9.25	17.6
		120	74.7	12.8	17.5	70.4	11.7	17.7	66.2	10.8	17.8	64.0	10.3	17.9	61.9	9.82	17.9	57.6	8.93	18.1
		150	74.7	12.4	18.0	70.4	11.4	18.1	66.2	10.5	18.2	64.0	10.0	18.3	61.9	9.56	18.3	57.6	8.70	18.4
	25	80	74.7	12.0	21.3	70.4	11.0	21.5	66.2	10.1	21.7	64.0	9.69	21.8	61.9	9.27	21.9	57.6	8.44	22.1
		96	74.7	11.6	21.9	70.4	10.7	22.0	66.2	9.81	22.2	64.0	9.39	22.3	61.9	8.98	22.4	57.6	8.19	22.5
		120	74.7	11.2	22.5	70.4	10.3	22.6	66.2	9.46	22.7	64.0	9.06	22.8	61.9	8.67	22.9	57.6	7.92	23.0
		150	74.7	10.9	23.0	70.4	10.0	23.1	66.2	9.21	23.2	64.0	8.82	23.2	61.9	8.45	23.3	57.6	7.72	23.4
	30	80	74.7	10.6	26.2	70.4	9.76	26.4	66.2	8.99	26.6	64.0	8.61	26.7	61.9	8.25	26.8	57.6	7.55	27.0
		96	74.7	10.2	26.8	70.4	9.46	27.0	66.2	8.71	27.1	64.0	8.35	27.2	61.9	8.00	27.3	57.6	7.33	27.5
		120	74.7	9.87	27.4	70.4	9.13	27.6	66.2	8.42	27.7	64.0	8.07	27.8	61.9	7.74	27.8	57.6	7.09	28.0
		150	74.7	9.60	27.9	70.4	8.89	28.0	66.2	8.20	28.2	64.0	7.87	28.2	61.9	7.55	28.3	57.6	6.93	28.4
	35	80	74.7	9.42	31.1	70.4	8.73	31.3	66.2	8.06	31.5	64.0	7.74	31.6	61.9	7.42	31.7	57.6	6.81	32.0
		96	74.7	9.13	31.7	70.4	8.46	31.9	66.2	7.82	32.1	64.0	7.51	32.2	61.9	7.21	32.3	57.6	6.63	32.5
		120	74.7	8.82	32.4	70.4	8.18	32.5	66.2	7.56	32.7	64.0	7.27	32.7	61.9	6.98	32.8	57.6	6.42	33.0
		150	74.7	8.59	32.9	70.4	7.97	33.0	66.2	7.38	33.1	64.0	7.10	33.2	61.9	6.82	33.2	57.6	6.28	33.4
	40	80	74.7	8.99	36.1	70.4	8.34	36.3	66.2	7.73	36.5	64.0	7.43	36.6	61.9	7.14	36.7	57.6	6.58	37.0
		96	74.7	8.72	36.7	70.4	8.10	36.9	66.2	7.51	37.1	64.0	7.23	37.2	61.9	6.95	37.3	57.6	6.41	37.4
		120	74.7	8.43	37.4	70.4	7.84	37.5	66.2	7.27	37.7	64.0	7.00	37.7	61.9	6.74	37.8	57.6	6.22	38.0
		150	74.7	8.22	37.9	70.4	7.65	38.0	66.2	7.11	38.1	64.0	6.84	38.2	61.9	6.58	38.2	57.6	6.09	38.4
	45	80	74.7	8.76	41.1	70.4	8.14	41.3	66.2	7.54	41.5	64.0	7.25	41.6	61.9	6.96	41.7	57.6	6.42	41.9
		96	74.7	8.50	41.7	70.4	7.90	41.9	66.2	7.32	42.1	64.0	7.04	42.2	61.9	6.77	42.3	57.6	6.25	42.4
		120	74.7	8.22	42.4	70.4	7.64	42.5	66.2	7.09	42.6	64.0	6.83	42.7	61.9	6.57	42.8	57.6	6.06	42.9
		150	74.7	8.01	42.9	70.4	7.46	43.0	66.2	6.93	43.1	64.0	6.67	43.2	61.9	6.42	43.2	57.6	5.93	43.4
60	10	80	61.7	13.9	7.15	60.3	13.8	7.22	56.7	12.6	7.36	54.9	11.9	7.44	53.1	11.3	7.51	49.4	10.2	7.66
		96	64.0	14.6	7.54	60.3	13.3	7.66	56.7	12.1	7.78	54.9	11.6	7.84	53.1	11.0	7.91	49.4	9.90	8.03
		120	64.0	14.0	8.01	60.3	12.8	8.11	56.7	11.7	8.21	54.9	11.2	8.26	53.1	10.6	8.31	49.4	9.61	8.42
		150	64.0	13.5	8.39	60.3	12.4	8.47	56.7	11.4	8.56	54.9	10.8	8.60	53.1	10.3	8.64	49.4	9.38	8.72
	15	80	64.0	12.7	11.9	60.3	11.7	12.1	56.7	10.7	12.3	54.9	10.2	12.3	53.1	9.77	12.4	49.4	8.88	12.6
		96	64.0	12.3	12.4	60.3	11.3	12.6	56.7	10.3	12.7	54.9	9.90	12.8	53.1	9.46	12.8	49.4	8.61	13.0
		120	64.0	11.8	12.9	60.3	10.9	13.0	56.7	9.97	13.1	54.9	9.54	13.2	53.1	9.12	13.3	49.4	8.32	13.4
		150	64.0	11.5	13.3	60.3	10.6	13.4	56.7	9.71	13.5	54.9	9.29	13.5	53.1	8.89	13.6	49.4	8.11	13.7
	20	80	64.0	11.0	16.8	60.3	10.2	17.0	56.7	9.34	17.2	54.9	8.95	17.3	53.1	8.56	17.3	49.4	7.82	17.5
		96	64.0	10.7	17.3	60.3	9.84	17.5	56.7	9.05	17.6	54.9	8.68	17.7	53.1	8.31	17.8	49.4	7.59	17.9
		120	64.0	10.3	17.9	60.3	9.49	18.0	56.7	8.74	18.1	54.9	8.38	18.1	53.1	8.02	18.2	49.4	7.35	18.3
		150	64.0	9.99	18.3	60.3	9.24	18.4	56.7	8.52	18.5	54.9	8.17	18.5	53.1	7.83	18.6	49.4	7.17	18.7
	25	80	64.0	9.68	21.8	60.3	8.96	21.9	56.7	8.27	22.1	54.9	7.93	22.2	53.1	7.60	22.3	49.4	6.97	22.5
		96	64.0	9.38	22.3	60.3	8.69	22.4	56.7	8.02	22.6	54.9	7.70	22.7	53.1	7.38	22.7	49.4	6.78	22.9
		120	64.0	9.05	22.8	60.3	8.39	22.9	56.7	7.75	23.1	54.9	7.45	23.1	53.1	7.15	23.2	49.4	6.57	23.3
		150	64.0	8.82	23.2	60.3	8.18	23.3	56.7	7.56	23.4	54.9	7.27	23.5	53.1	6.98	23.5	49.4	6.42	23.6
	30	80	64.0	8.61	26.7	60.3	7.99	26.9	56.7	7.39	27.1	54.9	7.11	27.1	53.1	6.83	27.2	49.4	6.28	27.4
		96	64.0	8.35	27.2	60.3	7.75	27.4	56.7	7.18	27.5	54.9	6.91	27.6	53.1	6.64	27.7	49.4	6.12	27.8
		120	64.0	8.07	27.8	60.3	7.50	27.9	56.7	6.95	28.0	54.9	6.69	28.1	53.1	6.43	28.1	49.4	5.94	28.3
		150	64.0	7.87	28.2	60.3	7.32	28.3	56.7	6.79	28.4	54.9	6.54	28.5	53.1	6.29	28.5	49.4	5.81	28.6
	35	80	64.0	7.73	31.6	60.3	7.19	31.8	56.7	6.68	32.0	54.9	6.43	32.1	53.1	6.19	32.2	49.4	5.72	32.4
		96	64.0	7.51	32.2	60.3	6.99	32.3	56.7	6.50	32.5	54.9	6.26	32.6	53.1	6.03	32.7	49.4	5.58	32.8
		120	64.0	7.26	32.7	60.3	6.77	32.9	56.7	6.30	33.0	54.9	6.07	33.1	53.1	5.85	33.1	49.4	5.42	33.2
		150	64.0	7.09	33.2	60.3	6.62	33.3	56.7	6.16	33.4	54.9	5.94	33.4	53.1	5.73	33.5	49.4	5.31	33.6
	40	80	64.0	7.43	36.6	60.3	6.93	36.8	56.7	6.46	37.0	54.9	6.23	37.1	53.1	6.00	37.2	49.4	5.57	37.4
		96	64.0	7.22	37.2	60.3	6.75	37.3	56.7	6.29	37.5	54.9	6.07	37.6	53.1	5.85	37.7	49.4	5.44	37.8
		120	64.0	7.00	37.7	60.3	6.54	37.9	56.7	6.11	38.0	54.9	5.90	38.0	53.1	5.69	38.1	49.4	5.28	38.2
		150	64.0	6.84	38.2	60.3	6.40	38.3	56.7	5.98	38.4	54.9	5.78	38.4	53.1	5.58	38.5	49.4	5.18	38.6
	45	80	64.0	7.24	41.6	60.3	6.76	41.8	56.7	6.30	42.0	54.9	6.07	42.1	53.1	5.85	42.2	49.4	5.43	42.4
		96	64.0	7.04	42.2	60.3	6.58	42.3	56.7	6.13	42.5	54.9	5.92	42.6	53.1	5.71	42.6	49.4	5.30	42.8
		120	64.0	6.82	42.7	60.3	6.38	42.9	56.7	5.96	43.0	54.9	5.75	43.0	53.1	5.55	43.1	49.4	5.15	43.2
		150	64.0	6.67	43.2	60.3	6.24	43.3	56.7	5.83	43.4	54.9	5.63	43.4	53.1	5.44	43.5	49.4	5.05	43.6

3 Capacity tables

3 - 4 Heating capacity tables with glycol

30HP

TC: Total capacity; PI: Power Input

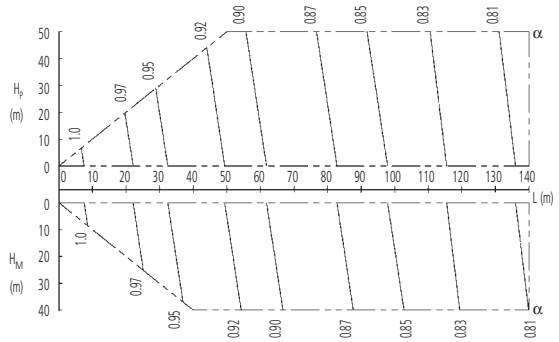
Combination (%)	Inlet water temp. °C	Water volume L/min	Indoor air temperature: °CDB																	
			16.0			18.0			20.0			21.0			22.0			24.0		
			TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.	TC	PI	Outlet water temp.
			kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C	kW	kW	°C
50	10	80	53.3	11.4	7.50	50.3	10.5	7.62	47.3	9.54	7.75	45.7	9.10	7.81	44.2	8.66	7.88	41.2	7.83	8.01
		96	53.3	11.1	7.90	50.3	10.2	8.00	47.3	9.29	8.11	45.7	8.87	8.17	44.2	8.46	8.22	41.2	7.67	8.33
		120	53.3	10.7	8.30	50.3	9.84	8.39	47.3	9.03	8.48	45.7	8.64	8.52	44.2	8.25	8.57	41.2	7.51	8.66
		150	53.3	10.4	8.63	50.3	9.61	8.70	47.3	8.84	8.78	45.7	8.46	8.81	44.2	8.10	8.85	41.2	7.40	8.92
	15	80	53.3	9.83	12.4	50.3	9.09	12.5	47.3	8.38	12.7	45.7	8.04	12.7	44.2	7.70	12.8	41.2	7.06	13.0
		96	53.3	9.52	12.8	50.3	8.81	12.9	47.3	8.13	13.1	45.7	7.80	13.1	44.2	7.48	13.2	41.2	6.86	13.3
		120	53.3	9.18	13.2	50.3	8.51	13.3	47.3	7.86	13.4	45.7	7.54	13.5	44.2	7.24	13.5	41.2	6.65	13.6
		150	53.3	8.94	13.6	50.3	8.29	13.7	47.3	7.66	13.7	45.7	7.36	13.8	44.2	7.06	13.8	41.2	6.49	13.9
	20	80	53.3	8.62	17.3	50.3	8.00	17.5	47.3	7.40	17.6	45.7	7.11	17.7	44.2	6.83	17.8	41.2	6.28	17.9
		96	53.3	8.36	17.8	50.3	7.76	17.9	47.3	7.19	18.0	45.7	6.91	18.1	44.2	6.64	18.1	41.2	6.12	18.3
		120	53.3	8.08	18.2	50.3	7.50	18.3	47.3	6.96	18.4	45.7	6.69	18.4	44.2	6.43	18.5	41.2	5.93	18.6
		150	53.3	7.87	18.6	50.3	7.32	18.6	47.3	6.79	18.7	45.7	6.54	18.8	44.2	6.29	18.8	41.2	5.81	18.9
	25	80	53.3	7.65	22.3	50.3	7.12	22.4	47.3	6.61	22.6	45.7	6.37	22.6	44.2	6.13	22.7	41.2	5.66	22.9
		96	53.3	7.43	22.7	50.3	6.92	22.8	47.3	6.43	23.0	45.7	6.20	23.0	44.2	5.97	23.1	41.2	5.52	23.2
		120	53.3	7.19	23.2	50.3	6.70	23.3	47.3	6.24	23.4	45.7	6.01	23.4	44.2	5.79	23.5	41.2	5.36	23.6
		150	53.3	7.02	23.5	50.3	6.55	23.6	47.3	6.10	23.7	45.7	5.88	23.7	44.2	5.67	23.8	41.2	5.25	23.9
	30	80	53.3	6.87	27.2	50.3	6.41	27.4	47.3	5.98	27.5	45.7	5.76	27.6	44.2	5.56	27.7	41.2	5.16	27.8
		96	53.3	6.68	27.7	50.3	6.24	27.8	47.3	5.82	27.9	45.7	5.62	28.0	44.2	5.42	28.1	41.2	5.03	28.2
		120	53.3	6.47	28.1	50.3	6.05	28.2	47.3	5.65	28.3	45.7	5.46	28.4	44.2	5.27	28.4	41.2	4.90	28.6
		150	53.3	6.32	28.5	50.3	5.92	28.6	47.3	5.53	28.7	45.7	5.35	28.7	44.2	5.16	28.8	41.2	4.81	28.8
	35	80	53.3	6.23	32.2	50.3	5.83	32.3	47.3	5.45	32.5	45.7	5.27	32.6	44.2	5.09	32.7	41.2	4.74	32.8
		96	53.3	6.06	32.6	50.3	5.68	32.8	47.3	5.32	32.9	45.7	5.14	33.0	44.2	4.97	33.0	41.2	4.64	33.2
		120	53.3	5.88	33.1	50.3	5.52	33.2	47.3	5.17	33.3	45.7	5.00	33.4	44.2	4.84	33.4	41.2	4.52	33.5
		150	53.3	5.76	33.5	50.3	5.41	33.6	47.3	5.07	33.7	45.7	4.91	33.7	44.2	4.75	33.7	41.2	4.44	33.8
	40	80	53.3	6.04	37.2	50.3	5.67	37.3	47.3	5.32	37.5	45.7	5.14	37.6	44.2	4.96	37.7	41.2	4.62	37.8
		96	53.3	5.89	37.6	50.3	5.54	37.8	47.3	5.19	37.9	45.7	5.01	38.0	44.2	4.85	38.0	41.2	4.52	38.2
		120	53.3	5.72	38.1	50.3	5.38	38.2	47.3	5.04	38.3	45.7	4.88	38.4	44.2	4.72	38.4	41.2	4.41	38.5
		150	53.3	5.60	38.5	50.3	5.27	38.6	47.3	4.94	38.7	45.7	4.78	38.7	44.2	4.63	38.7	41.2	4.33	38.8
	45	80	53.3	5.89	42.2	50.3	5.53	42.3	47.3	5.18	42.5	45.7	5.01	42.6	44.2	4.84	42.6	41.2	4.51	42.8
		96	53.3	5.74	42.6	50.3	5.40	42.8	47.3	5.06	42.9	45.7	4.89	43.0	44.2	4.72	43.0	41.2	4.41	43.2
		120	53.3	5.58	43.1	50.3	5.25	43.2	47.3	4.92	43.3	45.7	4.76	43.4	44.2	4.60	43.4	41.2	4.30	43.5
		150	53.3	5.46	43.5	50.3	5.14	43.6	47.3	4.82	43.6	45.7	4.66	43.7	44.2	4.51	43.7	41.2	4.22	43.8

3 Capacity tables

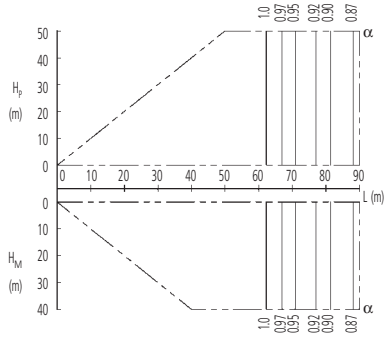
3 - 5 Capacity correction factor

RWEYQ10,20MY1

- Rate of change in cooling capacity



- Rate of change in heating capacity



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NOTES

1 These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions.
Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.

2 With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.

3 Method of calculating A/C (cooling / heating) capacity:
The maximum A/C of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units
- Condition: Indoor unit combination ratio does not exceed 100%
  Maximum A./C capacity of outdoor units = A/C capacity of outdoor units obtained from performance characteristics table at the 100% combination x capacity change rate due to piping length to the farthest indoor unit
  Condition: Indoor unit combination ratio exceeds 100%
  Maximum A./C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristics table at the combination x capacity change rate due to piping length to the farthest indoor unit

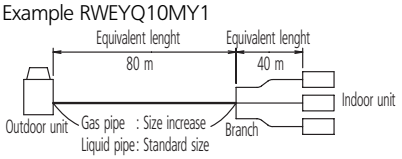
4 When overall equivalent pipe length is 80m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
[Diameter of above case]

Model	liquid
RWEYQ10MY1	ø 19.1
RWEYQ20MY1	ø 19.1

5 Read cooling / heating capacity rate of change in the above figures based on the following equivalent length.
Overall equivalent length = (Equivalent length to main pipe) x Correction factor + (Equivalent length after branching)
Choose a correction factor from the following table.
When cooling capacity is calculated: gas pipe size
When heating capacity is calculated: liquid pipe size.

Rate of change (object piping)	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	-
Heating (liquid pipe)	1.0	0.5

6 Example RWEYQ10MY1



In the above case
(Cooling) Overall equivalent length = 80m x 1.0 + 40m = 120m
(Heating) Overall equivalent length = 80m x 0.5 + 40m = 80m
The correction factor in cooling capacity when Hp=0m is thus approximately 0.82
The correction factor in heating capacity when Hp=0m is thus approximately 0.9

EXPLANATION OF SYMBOLS

H_p : Level difference (m) between indoor and outdoor units with indoor unit in inferior position
H_M : Level difference (m) between indoor and outdoor units with indoor unit in superior position
L : Equivalent pipe length (m)
α : Capacity correction factor

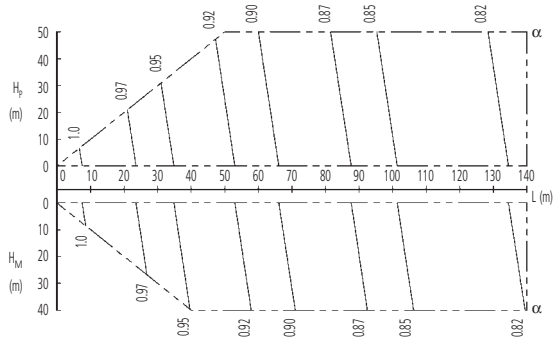
Model	liquid
RWEYQ10MY1	ø 9.5
RWEYQ20MY1	ø 15.9

3 Capacity tables

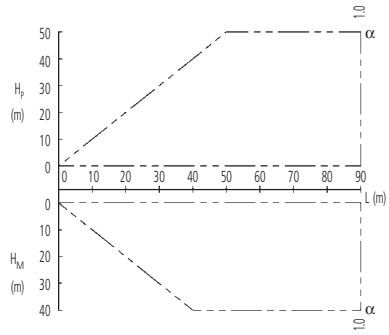
3 - 5 Capacity correction factor

RWEYQ30MY1

- Rate of change in cooling capacity



- Rate of change in heating capacity



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NOTES

1 These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions.
Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.

2 With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.

3 Method of calculating A/C (cooling / heating) capacity:
The maximum A/C of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units
- Condition: Indoor unit combination ratio does not exceed 100%
  Maximum A./C capacity of outdoor units = A/C capacity of outdoor units obtained from performance characteristics table at the 100% combination x capacity change rate due to piping length to the farthest indoor unit
  Condition: Indoor unit combination ratio exceeds 100%
  Maximum A./C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristics table at the combination x capacity change rate due to piping length to the farthest indoor unit

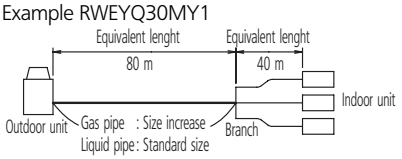
4 When overall equivalent pipe length is 80m or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
[Diameter of above case]

Model	liquid
RWEYQ30MY1	ø 22.2

5 Read cooling / heating capacity rate of change in the above figures based on the following equivalent length.
Overall equivalent length = (Equivalent length to main pipe) x Correction factor + (Equivalent length after branching)
Choose a correction factor from the following table.
When cooling capacity is calculated: gas pipe size
When heating capacity is calculated: liquid pipe size.

Rate of change (object piping)	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	-
Heating (liquid pipe)	1.0	0.5

6 Example RWEYQ30MY1



In the above case
(Cooling) Overall equivalent length = 80m x 1.0 + 40m = 120m
(Heating) Overall equivalent length = 80m x 0.5 + 40m = 80m
The correction factor in cooling capacity when Hp=0m is thus approximately 0.83
The correction factor in heating capacity when Hp=0m is thus approximately 1.0

EXPLANATION OF SYMBOLS

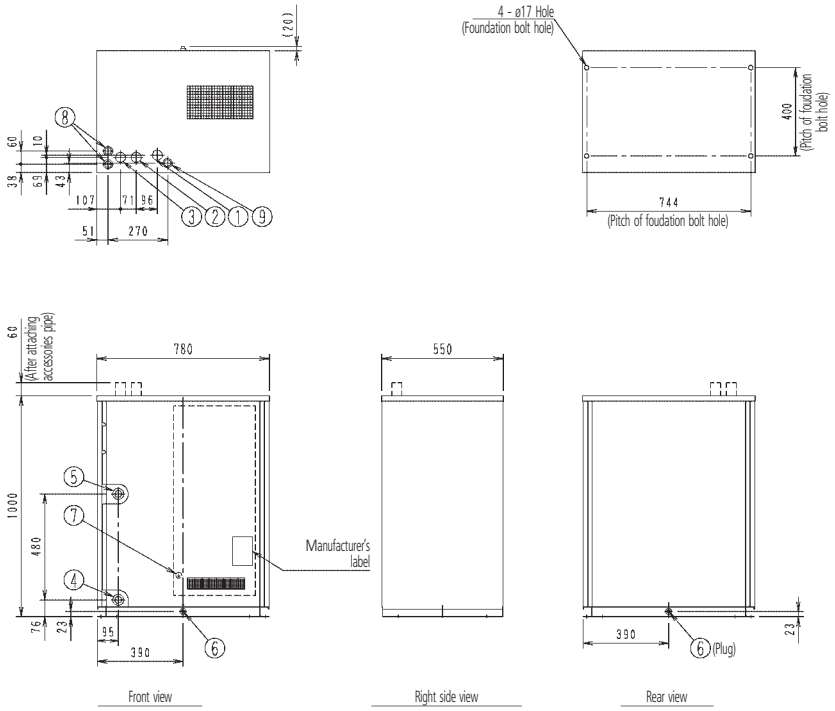
H_p : Level difference (m) between indoor and outdoor units with indoor unit in inferior position
H_M : Level difference (m) between indoor and outdoor units with indoor unit in superior position
L : Equivalent pipe length (m)
α : Capacity correction factor

Model	liquid
RWEYQ30MY1	ø 19.1

4 Dimensional drawing & centre of gravity

4 - 1 Dimensional drawing

RWEYQ10MY1



Nr	Part name	Description
1	Liquid pipe	See note 2
2	Suction gas pipe	See note 2
3	Discharge gas pipe	See note 2
4	Water inlet	PT11/4B
5	Water outlet	PT11/4B
6	Drain outlet	PS1/2B
7	Earth terminal	M5
8	Power cord through hole	ø 29
9	Wiring through hole	ø 29

NOTES

1 Earth terminal is in a swithc box.

2 Piping size is as follows:

Model name	RWEYQ10MY1	
Operation system	Heat pump	Heat recovery
Liquid pipe	ø 9.5	ø 9.5
Suction gas pipe	-	ø 22.2
Discharge gas pipe	ø 22.2	ø 19.1

- Connection method:
  Liquid pipe: flare connection
  Suction gas pipe: brazing connection
  Discharge gas pipe: brazing connection
- In case of heat pump system, suction gas pipe is not used.

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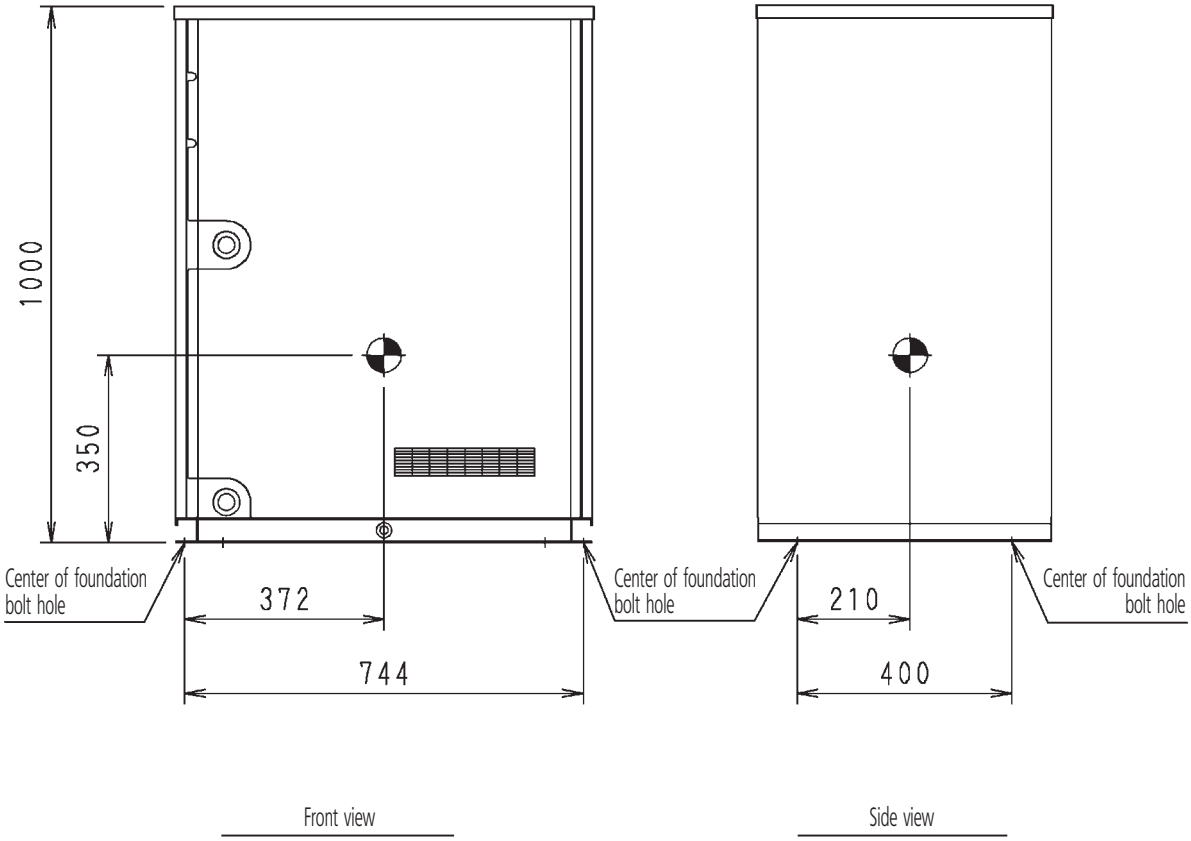
4

4 Dimensional drawing & centre of gravity

4 - 2 Centre of gravity

RWEYQ10MY1



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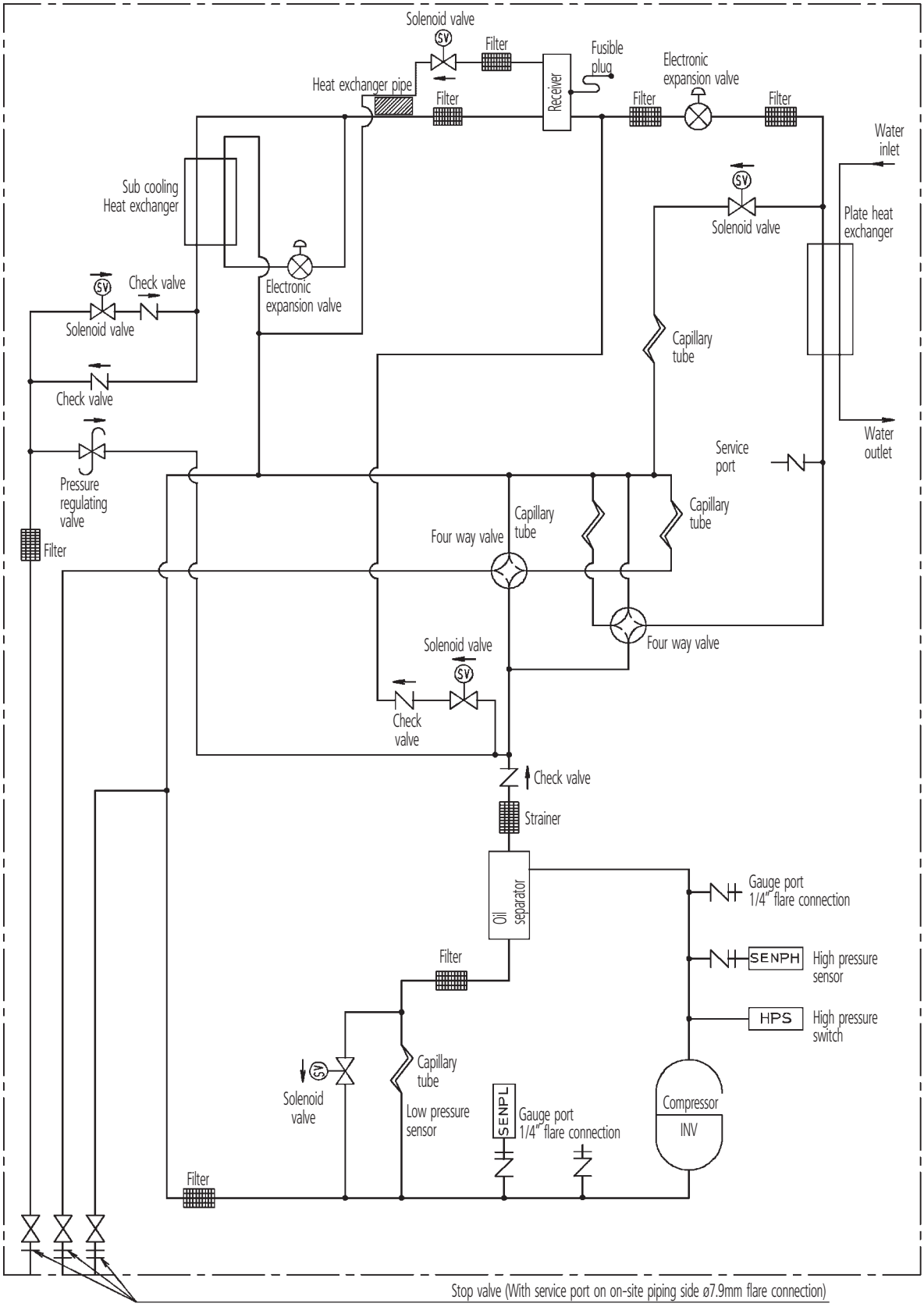
5 Piping diagram

RWEYQ10MY1



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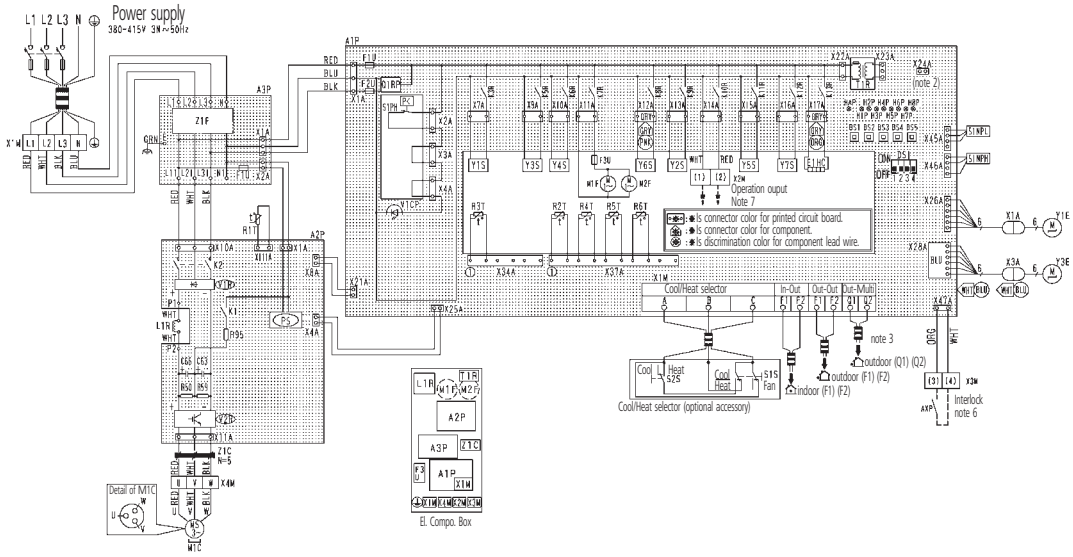
6 Wiring diagram

6 - 1 Wiring diagram

RWEYQ10MY1



L1-RED	L2-WHT	L3-BLK	N-BLUE

A1P	Printed circuit board (Main)	K9R	Magnetic relay (Y2S) (A1P)	V1CP	Safety devices input
A2P	Printed circuit board (Inv)	K10R	Magnetic relay (Operation output) (A1P)	V1R,V2R	Power module (A2P)
A3P	Printed circuit board (Noise filter)	K11R	Magnetic relay (Y5S) (A1P)	X1A,X3A	Connector (Y1E,Y3E)
BS1 ~ BS5	Push button switch	K12R	Magnetic relay (Y7S) (A1P)	X1M	Terminal strip (Power supply)
	(Mode, Set, Return, Test, Reset)	K13R	Magnetic relay (E1HC) (A1P)	X1M	Terminal strip (Control) (A1P)
C63,66	Capacitor	L1R	Reactor	X2M	Terminal strip (A1P)
DS1	Dip switch	M1C	Motor (Compressor)	X3M	Terminal strip (Interlock)
E1HC	Crankcase heater	M1F,M2F	Motor (Fan, Inverter cooling))	X4M	Terminal strip (M1C)
F1U	Fuse (250V, 5A, Ⓑ) (A3P)	PS	Switching power supply	Y1E	Electronic expansion valve (Main)
F1U, 2U	Fuse (250V, 10A, Ⓑ) (A1P)	Q1RP	Phase reversal detect circuit (A1P)	Y3E	Electronic expansion valve (Sub cool)
F3U	Fuse (250V, 5A, Ⓑ)	R50,R59	Resistor	Y1S	Solenoid valve (Hot gas bypass)
H1P ~ H8P	Pilot lamp (Service monitor-orange) (A1P)	R95	Resistor (Current limiting)	Y2S	Solenoid valve (Oil recovery)
	[H2P] Prepare, test ..... flickering	R1T	Thermistor (Fin) (A2P)	Y3S	Solenoid valve (Receiver pressurization)
	Malfuntion detection .... light up	R2T	Thermistor (Suction)	Y4S	Solenoid valve (Receiver gas purge)
HAP	Pilot lamp (Service monitor-green) (A1P)	R3T	Thermistor (M1C Discharge)	Y5S	Solenoid valve (4 way valve) (Main)
K1	Magnetic relay	R4T	Thermistor (Heat exchanger gas pipe)	Y6S	Solenoid valve (Liquid pipe)
K2	Magnetic contactor (M1C)	R5T	Thermistor (Sub cooling heat exchanger)	Y7S	Solenoid valve (4 way valve) (Heat exchanger)
K3R	Magnetic relay (Y1S) (A1P)	R6T	Thermistor (Receiver liquid pipe)	Z1C	Noise filter (Ferrite core)
K5R	Magnetic relay (Y3S) (A1P)	S1NPH	Pressure sensor (High)	Z1F	Noise filter (With surge absorber)
K6R	Magnetic relay (Y4S) (A1P)	S1NPL	Pressure sensor (Low)	Cool/heat selector	
K7R	Magnetic relay (M1F,M2F) (A1P)	S1PH	Pressure switch (High)	S1S	Selector switch (Fan/Cool • Heat)
K8R	Magnetic relay (Y6S) (A1P)	T1R	Transformer (220-240V/20V)	S2S	Selector switch (Cool/Heat)

: Field wiring
: Connector
: Terminal
: Terminal strip
: Protective earth (screw)

COLORS : BLK : Black, RED : Red, WHT : White, BLU : Blue, ORG : Orange, PNK : Pink, GRY : Grey

NOTES

1 This wiring diagram applies only to the outdoor unit.
2 When using the option adaptor, refer to the installation manual.
3 Refer to the installation manual, for connection wiring to indoor-outdoor transmission F1•F2, outdoor-outdoor transmission F1•F2, outdoor-multi transmission Q1•Q2.
4 Refer to "service precatuion" label (on el. compo. box cover), how to use BS1~BS5 and DS1 switch.
5 When operating, don't short circuit for protection device. (S1PH)
6 Be sure to connect an interlock circuit between the terminal (3)-(4) of terminal strip (X3M).
7 Install a heat source water pump operation circtuit between the terminal (1)-(2) of terminal strip (X2M), when interlock a heat source water pump and system operation.
8 Cool/Heat selector cannot be connected when operating heat recovery system.

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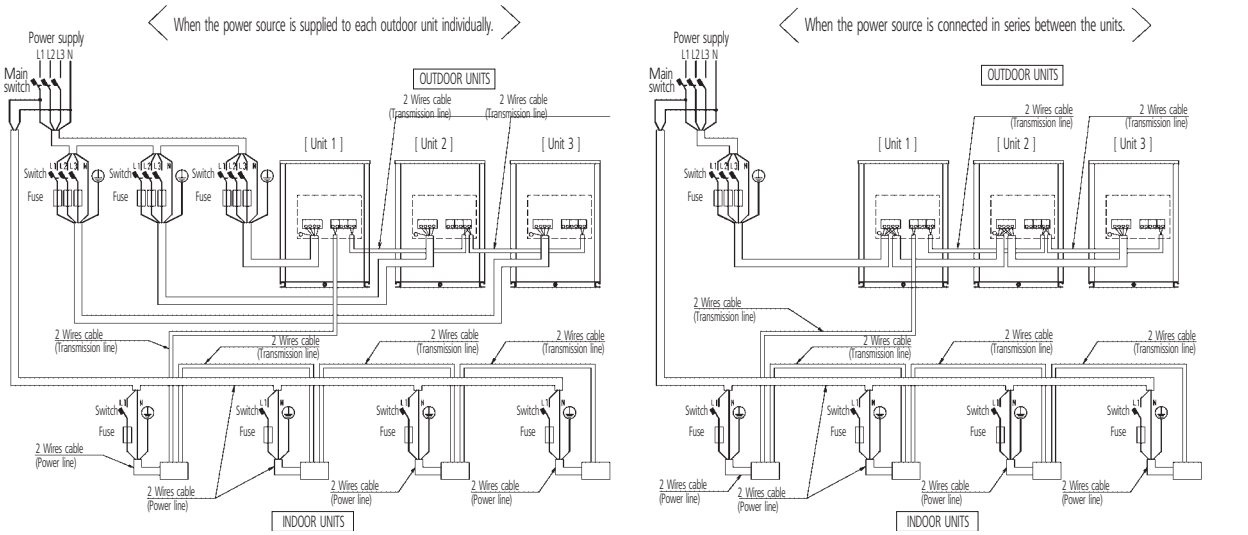
6 Wiring diagram

6 - 2 External connection diagram

RWEYQ10,20,30MY1-HEAT PUMP



NOTES

1 All wiring, components and materials to be procured on site must comply with the applicable local and national codes.
2 Use copper conductors only.
3 As for details, see wiring diagram.
4 Install circuit breaker for safety.
5 All field wiring and components must be provided by a licensed electrician.
6 Unit shall be grounded in compliance with the applicable local and national codes.
7 Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
8 Be sure to install the switch and the fuse to the power line of each equipment.
9 Install the main switch that it can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
10 The capacity of UNIT 1 must be larger than UNIT 2 when the power source is connected in series between the units.
11 If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
Running the product in reversed phase may break the compressor and ohter parts.

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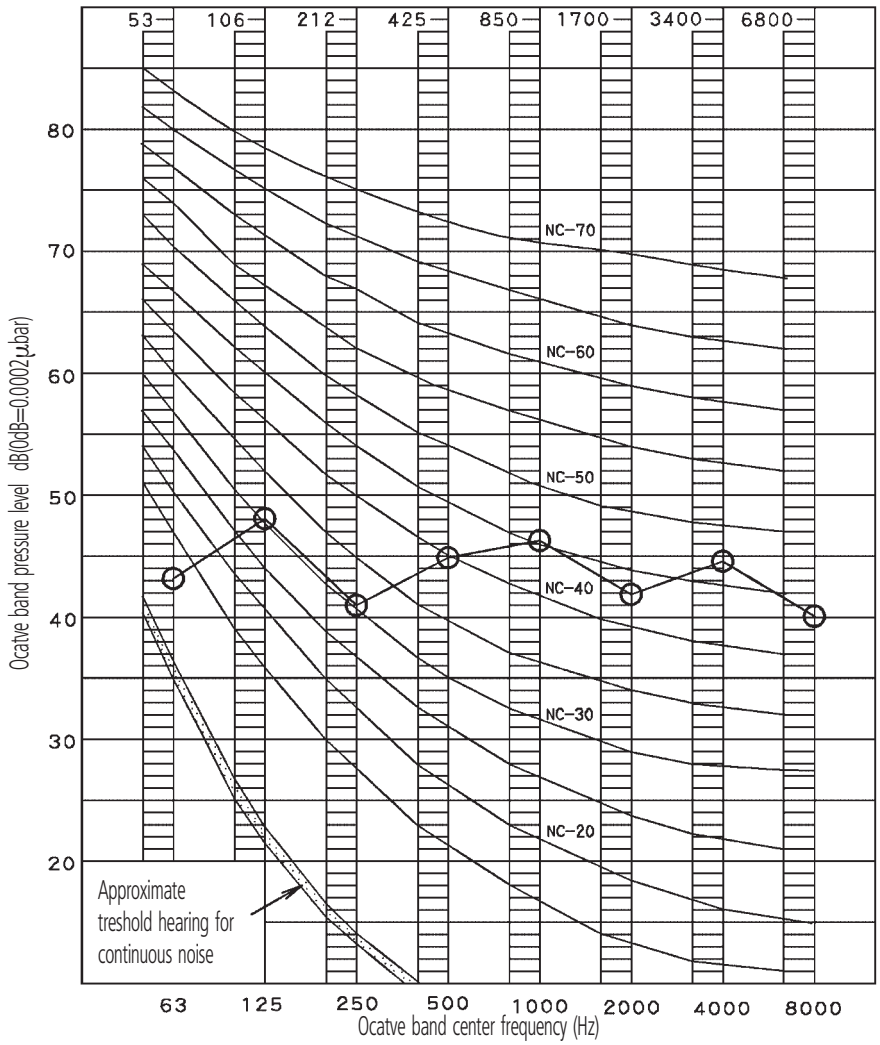
7 Sound data

7 - 1 Sound pressure spectrum

RWEYQ10MY1 4D048340



NOTES

1 Over all (dB):

Scale	50Hz
A	51
C	53

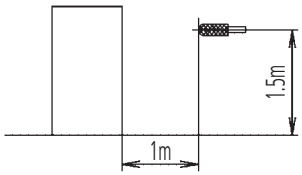
(B, G, N is already rectified)

2 Operating conditons:

- Power source: 380~415V,50Hz

3 The operating sound is measured in an anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.

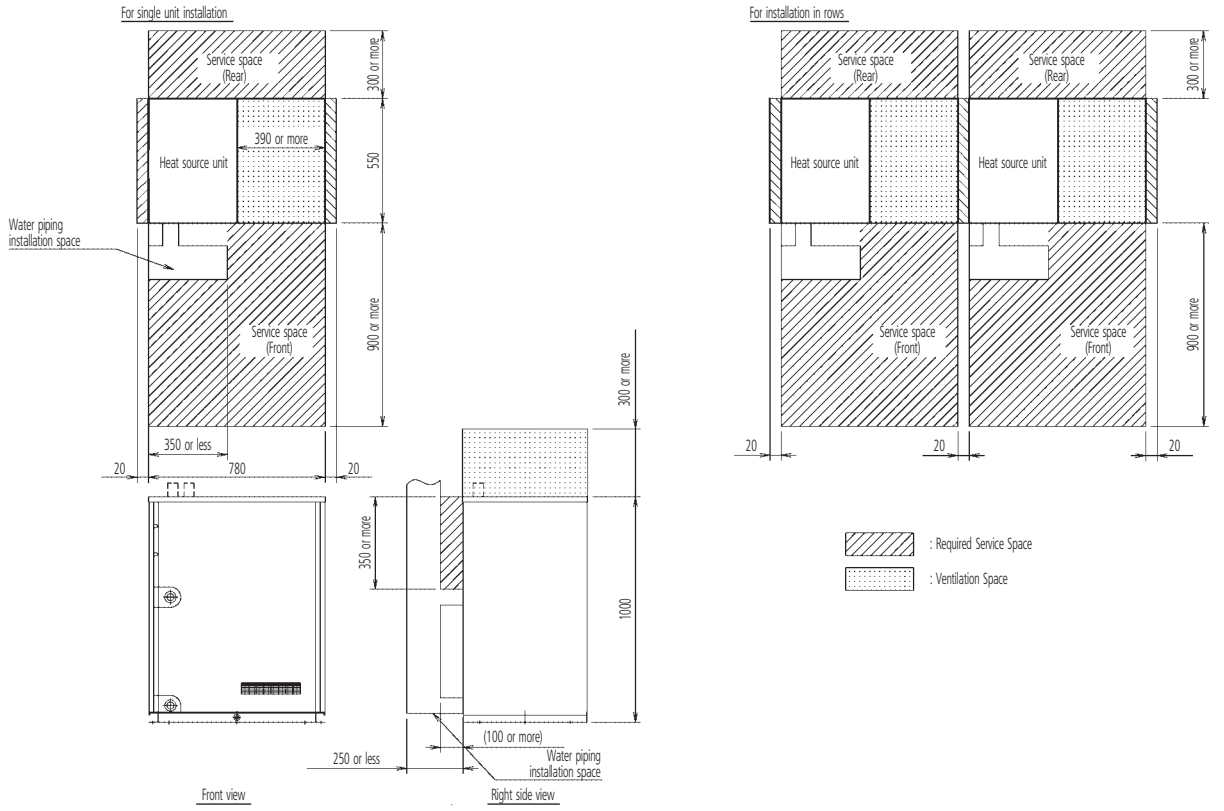
4 Location of microphone



8 Installation

8 - 1 Service space

RWEYQ-MY1



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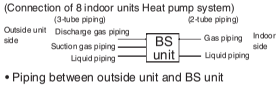
NOTE

More details can be found in part 10, page “10 Installation of outdoor units” on page 80.

RWEYQ-M

Example of connection

(Connection of 8 indoor units Heat pump system)



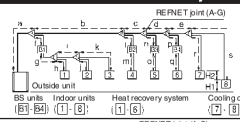
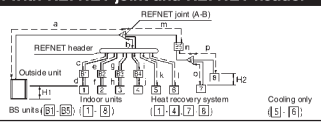
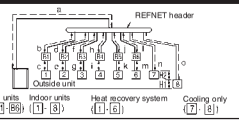
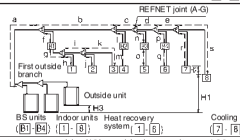
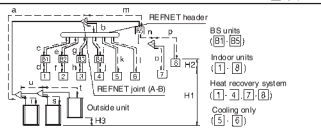
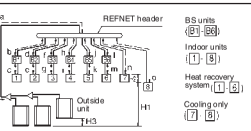
• Piping between outside unit and BS unit

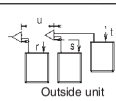
—— (Thick line): 3-tube piping { Discharge gas piping / Suction gas piping / Liquid piping }

• Piping between BS unit and indoor unit,

—— (Thin line): 2-tube piping { Suction gas piping / Liquid piping }

[*]
If the system capacity is RWEYQ20 or more, re-read the [outside unit] as [the first outside branch seen from the indoor unit side].

		Branch with REFNET joint	Branch with REFNET joint and REFNET header	Branch with REFNET header
One outside unit installed (RWEYQ10)		Example 1 	Example 2 	Example 3 
When multiple outside units are installed (RWEYQ20-30)		Example 4 	Example 5 	Example 6 
Maximum allowable length — Between outside (*) and indoor units	Actual pipe length	Pipe length between outside (*2) and indoor units ≤ 120m		
		(Example 1,4) unit 8 : a + b + c + d + e + s ≤ 120m	(Example 2,5) unit 6 : a + b + l ≤ 120m, 8 : a + m + n + p ≤ 120m	(Example 3,6) unit 8 : b + o ≤ 120m
	Equivalent length	Equivalent pipe length between outside (*2) and indoor units ≤ 140m (assume equivalent pipe length of REFNET joint to be 0.5m, that of REFNET header to be 1m, BSVQ100,160 is 4 m and BSVQ250 is 6m.)		
	Total extension length	Total piping length from outside unit (*2) to all indoor units ≤ 300m		
Maximum allowable length — Between outside branch and outside units (In case of RWEYQ20 or more)	Actual pipe length	Piping length from outside branch to outside unit ≤ 10m Equivalent length: max 13m		
Allowable height length — Between outside and indoor units	Difference in height	Difference in height between outside and indoor units (H1) ≤ 50m (Max 40m if the outside unit is below)		
Allowable height length — Between indoor and indoor units	Difference in height	Difference in height between indoor units (H2) ≤ 15m		
Allowable height length — Between outside and outside units	Difference in height	Difference in height between outside unit (main) and outside unit (sub) (H3) ≤ 2m		
Allowable length after the branch	Actual pipe length	Pipe length from first refrigerant branch kit (either REFNET joint or REFNET header) to indoor unit ≤ 40m		
		(Example 1,4) unit 8 : b + c + d + e + s ≤ 40m	(Example 2,5) unit 6 : b + l ≤ 40m, 8 : m + n + p ≤ 40m	(Example 3,6) unit 8 : o ≤ 40m



r ≤ 10m (Equivalent length ≤ 13m)
u+s ≤ 10m (Equivalent length ≤ 13m)
u+t ≤ 10m (Equivalent length ≤ 13m)

Refrigerant branch kit selection

Refrigerant branch kits can only be used with R410A.

How to select REFNET joint:
When using REFNET joints at the first branch counted from the outside unit side.
Choose from the following table in accordance with the capacity of the outside unit.
(Example 1,2,4,5 : REFNET joint <A>)

Outside unit capacity type	Refrigerant branch kit name: Heat recovery system	Refrigerant branch kit name: Heat pump system
RWEYQ10 type	KHRQ23M29T	KHRQ22M29T
RWEYQ20 type	KHRQ23M64T	KHRQ22M64T
RWEYQ30 type	KHRQ23M75T	KHRQ22M75T

• For REFNET joints other than the first branch, select the proper branch kit model based on the total capacity index.

Indoor capacity index	Refrigerant branch kit name: In case of 3-tube piping	Refrigerant branch kit name: In case of 2-tube piping
< 200	KHRQ23M20T	KHRQ22M20T
200 ≤ x< 290	KHRQ23M29T	KHRQ22M29T
290 ≤ x< 640	KHRQ23M64T	KHRQ22M64T
640 ≤	KHRQ23M75T	KHRQ22M75T

How to select REFNET header:
• Select suitable one from the table below according to the total capacity of indoor units to be connected to the downstream of REFNET header.
• Be careful that 250 type cannot be connected to the downstream of REFNET header.

Indoor capacity index	Refrigerant branch kit name: In case of 3-tube piping	Refrigerant branch kit name: In case of 2-tube piping
< 200	KHRQ23M29H	KHRQ22M29H
200 ≤ x< 290		KHRQ22M29H
290 ≤ x< 640	KHRQ23M64H	KHRQ22M64H
640 ≤	KHRQ23M75H	KHRQ22M75H

How to select an outside branch kit (Needed when the outside unit type is RWEYQ20 or more.)
• Select from the table below according to the number of outside units.

Number of units of outside unit	Heat recovery system	Heat pump system
2 units	BHFP26MA56	BHFP22MA56
3 units	BHFP26MA84	BHFP22MA84

Example of downstream indoor units

(Example 1,4) In case of REFNET Joint <C>, indoor units of 5 + 6 + 7 + 8

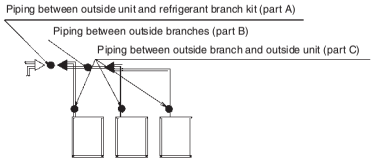
(Example 2,5) In case of REFNET Joint <B>, indoor units of 7 + 8
(Example 2,5) In case of REFNET Header, indoor units of 1 + 2 + 3 + 4 + 5 + 6

(Example 3,6) In case of REFNET Header
indoor units of 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8

Pipe size selection

⚠Caution
The thickness of the pipes in the table shows the requirements of Japanese High Pressure Gas Control low. (As of Jan. 2003)
The thickness and material shall be selected in accordance with local code.

For an outside unit multi installation (RWEYQ20-30 type), make the settings in accordance with the following figure.



Piping between outside unit and refrigerant branch kit (part A)
• Match to the size of connection piping of outside unit (Unit: mm)

Capacity type of outside unit	Piping size (outer diameter x minimum wall thickness): Suction gas pipe	Discharge gas pipe	Liquid pipe
RWEYQ10	ø22.2 × 0.80	ø19.1 × 0.80	ø 9.5 × 0.80
RWEYQ20	ø28.6 × 0.99	ø22.2 × 0.80	ø 15.9 × 0.99
RWEYQ30	ø34.9 × 1.21	ø28.6 × 0.99	ø19.1 × 0.80

Piping between outside branches (part B)
• Select the size from the following table based on the total capacity of the outside unit to be connected to upstream (Unit: mm)

Capacity type of outside unit	Piping size (outer diameter x minimum wall thickness): Suction gas pipe	Discharge gas pipe	Liquid pipe
RWEYQ20	ø28.6 × 0.99	ø22.2 × 0.80	ø15.9 × 0.99

Piping between outside branch and outside unit (part C) (Unit: mm)

Capacity type of outside unit	Piping size (outer diameter x minimum wall thickness): Suction gas pipe	Discharge gas pipe	Liquid pipe
RWEYQ10	ø22.2 × 0.80	ø19.1 × 0.80	ø 9.5 × 0.80

Piping size increase in case of long piping
• When the equivalent length is 80 m or more, it is necessary to increase the size of the main pipe of liquid piping side.
• When the equivalent length is 80 m or more, do not increase the sizes of discharge and suction gas pipes.
Diameter of liquid pipe (main pipe portion) (Unit: mm)

Capacity type of outside unit	Piping size (outer diameter x minimum wall thickness): Standard size	When increased
RWEYQ10	ø 9.5 × 0.80	ø12.7 × 0.80
RWEYQ20	ø15.9 × 0.99	ø19.1 × 0.80
RWEYQ30	ø19.1 × 0.80	ø22.2 × 0.80

Piping between refrigerant branch kit and refrigerant branch kit/BS unit
Piping between BS unit and refrigerant branching kit
• Select one from the table below according to the total capacity of indoor units to be connected to downstream.
• For the gas piping size in case of 2-tube piping between refrigerant branching kit/BS unit and refrigerant branching kit, select the size of suction gas piping.
• The size of connection piping should not exceed the refrigerant piping size selected under the generic term of the system.
(Unit: mm)

Indoor capacity index	Piping size (outer diameter x minimum wall thickness): Suction gas pipe	Discharge gas pipe	Liquid pipe
< 62.5 *	ø12.7 × 0.80	ø 9.5 × 0.80	ø 6.4 × 0.80
62.5 ≤ x< 200	ø15.9 × 0.99	ø12.7 × 0.80	ø 9.5 × 0.80
200 ≤ x< 290	ø22.2 × 0.80	ø19.1 x 0.80	
290 ≤ x< 420	ø28.6 × 0.99		ø12.7 × 0.80
420 ≤ x< 640	ø28.6 × 0.99		ø15.9 × 0.99
640 ≤ x< 920	ø34.9 x 1.21	ø28.6 x 0.99	ø19.1 x 0.80
920 ≤	ø41.3 x 1.43		

Piping between BS unit (refrigerant branch kit) and indoor unit
• Match to the size of the connection piping on the indoor unit.

Indoor unit connection piping size (Unit: mm)

Indoor unit capacity type	Piping size (outer diameter x minimum wall thickness): Gas pipe	Liquid pipe
20, 25, 32, 40, 50 type *	ø12.7 × 0.80	ø 6.4 × 0.80
63, 80, 100, 125 type	ø15.9 × 0.99	ø 9.5 × 0.80
200 type	ø19.1 × 0.80	
250 type	ø22.2 × 0.80	ø 9.5 × 0.80

* mark indicates the BS unit (BSVQ100MV1) port and connection pipe are different sizes.
Use the reducing joints included with the BS unit.

How to calculate the additional refrigerant to be charged

Additional referigerant to be charged R (kg)
(R should be rounded off in units of 0.1kg.)

NOTE:
If a negative result is gotten for R from the formula at right, no refrigerant needs to be added.

R= (Total length (m) of liquid piping size at ø22.2) ×0.35 (kg/m) + (Total length (m) of liquid piping size at ø19.1) ×0.25 (kg/m) + (Total length (m) of liquid piping size at ø15.9) ×0.17 (kg/m) + (Total length (m) of liquid piping size at ø12.7) ×0.11 (kg/m)
+ (Total length (m) of liquid piping size at ø9.2) ×0.054 (kg/m) + (Total length (m) of liquid piping size at ø6.4) ×0.022 (kg/m) + Corrected volume by outside unit

System name	Heat recovery system	Heat pump system
RWEYQ10	3 kg	2 kg
RWEYQ20	4.5 kg	2.5 kg
RWEYQ30	6 kg	3 kg

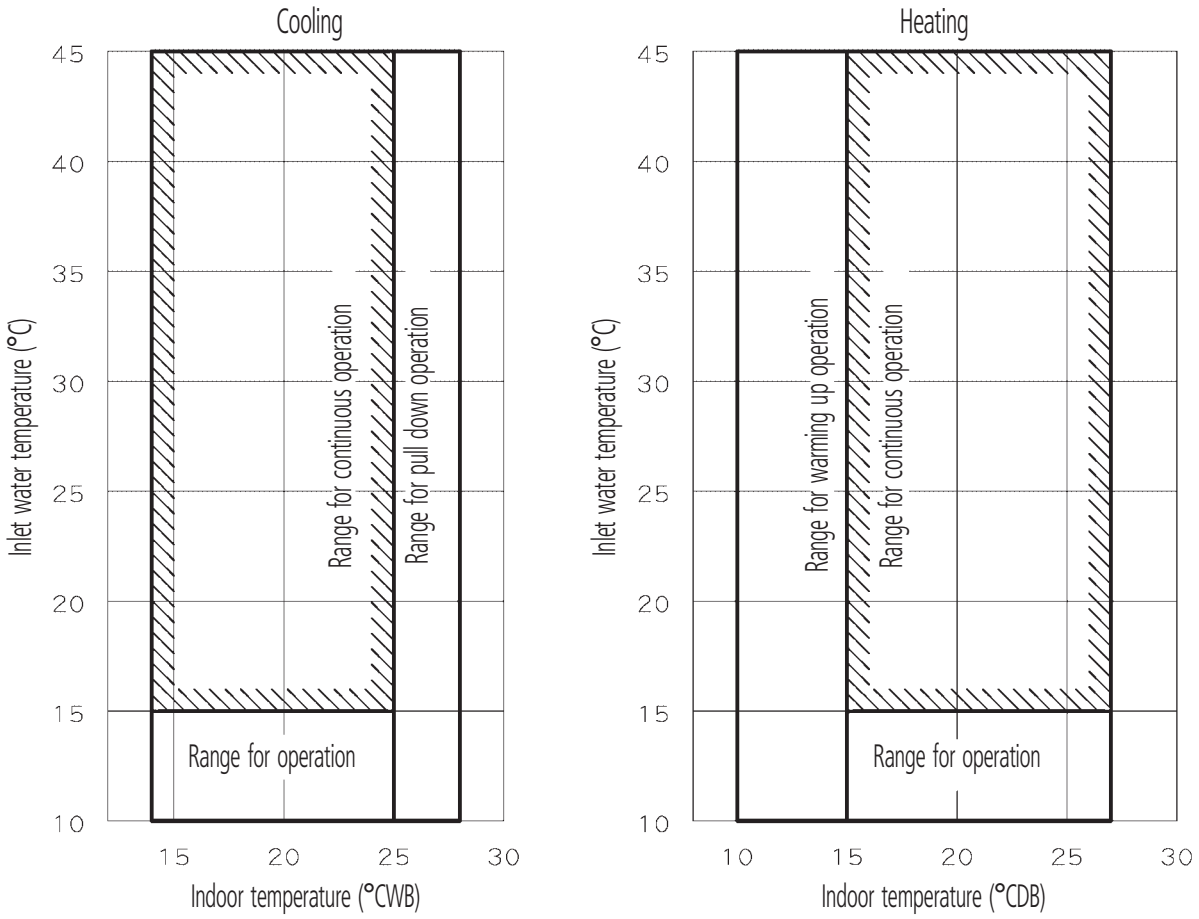
Example for refrigerant branch using REFNET joint and REFNET header for RWEYQ30
(Heat recovery system) If the outside unit is RWEYQ30 and the piping lengths are as at right

a :ø19.1×30m	e : ø 9.5×10m	i :ø12.7×10m	m:ø 6.4×10m	r :ø 9.5× 3m
b :ø15.9×10m	f : ø 9.5×10m	j :ø 6.4×10m	n :ø 6.4×10m	s :ø 9.5× 3m
c :ø 9.5×10m	g : ø 6.4×10m	k :ø 6.4×10m	o :ø 6.4×10m	t :ø 9.5× 3m
d :ø 9.5×10m	h : ø 6.4×20m	l :ø 6.4×10m	p :ø 6.4×10m	u :ø15.9× 1m

R= 30x0.25 + 11x0.17 + 10x0.11 + 49x0.054 + 100x0.022 + 6 = 21.316 ⇒ 21.3 (kg)
a; b+u; i; c+d+e+f+r+s+t; g+h+j+k+l+m+n+o+p

9 Operation range

RWEYQ-MY1



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NOTES

1 This figure shows the range which can be operated, with the water volume shown below:
50~150l/min

2 Design in the following condition range:
- water temperature: 20~35°C
- water volume: 60l/min more

3 When cooling load is small, thermostat-off may be carried out for freeze-up protection.

4 Hold ambient temperature at 0~40°C.

10 Installation of outdoor units

10 - 1 Safety considerations

Please read these “SAFETY CONSIDERATIONS” carefully before installing air conditioning unit and be sure to install it correctly. After completing the installation, make sure that the unit operates properly completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this installation manual along with the operation manual for future reference.

This air conditioner comes under the term “appliances not accessible to the general public”.

<Safety Precaution>

VRV System is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Meaning of warning and caution symbols.

WARNING

Failure to observe a warning may result in death.

CAUTION

Failure to observe a caution may result in injury or damage to the unit.

WARNING

1 Ask your dealer or qualified personnel to carry out installation work. Do not try to install the machine yourself.
Improper installation may result in water leakage, electric shocks or fire.
2 Perform installation work in accordance with this installation manual.
Improper installation may result in water leakage, electric shocks or fire.
3 When installing the unit in a small room, take measures against to keep refrigerant concentration from exceeding allowable safety limits in the event of refrigerant leakage.
Contact the place of purchase for more information. Excessive refrigerant in a closed ambient can lead to oxygen deficiency.
4 Be sure to use only the specified accessories and parts for installation work.
Failure to use the specified parts may result in water leakage, electric shocks, fire or the unit falling.
5 Install the air conditioner on a foundation strong enough to with-stand the weight of the unit.
A foundation of insufficient strength may result in the unit falling and causing injuries.
6 Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes.
Improper installation work may result in the unit falling and causing accidents.
7 Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual.
An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
8 Make sure that all wiring is secured, the specified wires and used, and no external forces act on the terminal connections or wires.
Improper connections or installation may result in fire.
9 When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the control box lid can be securely fastened.
Improper positioning of the control box lid may result in electric shocks, fire or the terminals overheating.
10 If the refrigerant gas leaks during installation, ventilate the area immediately.
Toxic gas may be produced if the refrigerant gas comes into contact with fire.
11 After completing the installation work, check that the refrigerant gas does not leak.
Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
12 Before touching electrical parts, turn off the unit.
13 Do not directly touch the refrigerant leaked from refrigerant piping connections.
Frostbite may be caused.
14 Do not allow children to mount on the outside unit, or avoid placing any object on it. Falling or tumble may result in injury.

10 Installation of outdoor units

10 - 1 Safety considerations

CAUTION

1 Ground the air conditioner.
Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire.
Incomplete grounding may result in electric shocks.

2 Be sure to install an earth leakage breaker.
Failure to install an earth leakage breaker may result in electric shocks.

3 While following the instructions in this installation manual, install drain piping in order to ensure proper drainage and insulate piping in order to prevent condensation.
Improper drain piping may result in water leakage and property damage.

4 Install the indoor and outside units, power supply wiring and connecting wiring at least 1 meter away from televisions or radios in order to prevent image interference or noise.
(Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.)

5 Remote controller (wireless kit) transmitting distance can result shorter than expected in rooms with electronic fluorescent lamps. (inverter or rapid start types)
Install the indoor unit as far away from fluorescent lamps as possible.

6 Install in a machine room that has no water drops.
This unit is for indoor use.

7 Do not install the air conditioner in the following locations:
   a where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen
   Plastic parts may deteriorate and fall off or result in water leakage.
   b where corrosive gas, such as sulfurous acid gas, is produced
   Corroding copper pipes or soldered parts may result in refrigerant leakage.
   c near machinery emitting electromagnetic waves
   Electromagnetic waves may disturb the operation of the control system and result in a malfunction of the unit.
   d where flammable gas may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled.
   Operating the unit in such conditions may result in fire.

Disposal requirements

Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

CAUTION

The refrigerant R410A requires strict cautions for keeping the system clean, dry and tight.

1Clean and dry
Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting mixed into the system.

2Tight
R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection against harmful ultraviolet radiation.
R410A can contribute slightly to the greenhouse effect if it is released. Therefore we should take special attention to check the tightness of the installation.
Read the chapter "REFRIGERANT PIPING" carefully and follow these procedures correctly.

Since design pressure is 4.0MPa or 40bar (for R407C units: 3.3MPa or 33bar),the wall thickness of pipes should be more carefully selected.

Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state. (If the refrigerant is charged in a state of gas, its composition changes and the system will not work properly.)

The indoor unit is for R410A. See the catalog for indoor unit models which can be connected.

(Normal operation is not possible when connected to other units.)

10 Installation of outdoor units

10 - 2 Introduction

This installation manual concerns VRV inverters of the Daikin RWEYQ-M series. These units are designed for indoor installation and used for cooling and heatpump applications.

The RWEYQ-M units can be combined with Daikin VRV series indoor units for air conditioning purposes.

The present installation manual describes the procedures for unpacking, installing and connecting the RWEYQ-M units. Installation of the indoor units is not described in this manual. Always refer to the installation manual supplied with these units for their installation.

10 - 2 - 1 Combination

The indoor units can be installed in the following range.

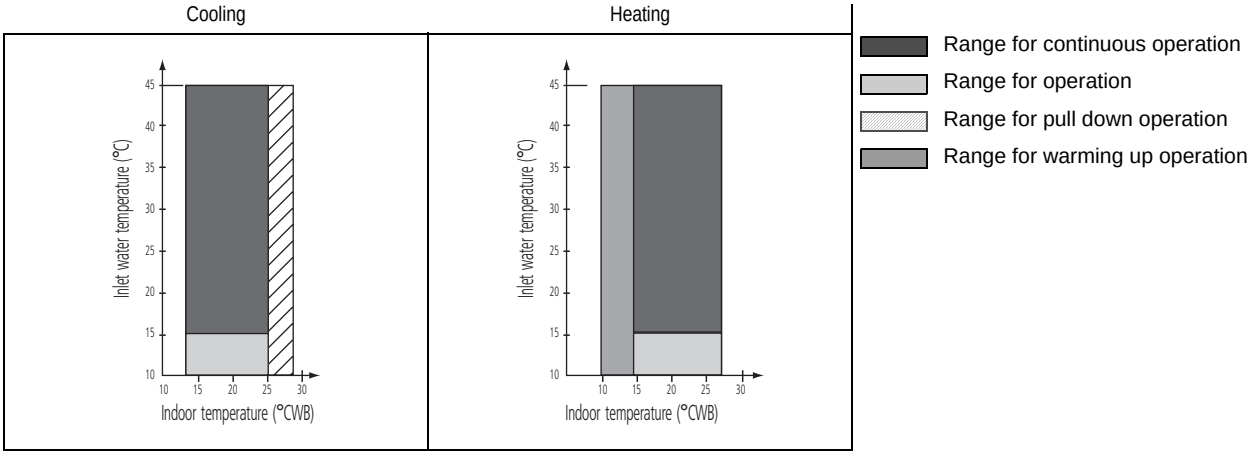
- **Always use appropriate indoor units compatible with R410A.**
  To lean which models of indoor units are compatible with R410A, refer to the product catalogs.
- Total capacity/quantity of indoor units
  <Outside unit > <Total capacity index of indoor units> <Total quantity of indoor units >
  RWEYQ10MY1.....125 ~ 325 16 units
  RWEYQ20MY1.....250 ~ 650 20 units
  RWEYQ30MY1.....375 ~ 975 32 units

10 - 2 - 2 Standard operation limit

The figures below assume following operating conditions for indoor and outside units:

Equivalent pipe length 7.5m

Level difference 0m



- Operation range of water volume is 50-150L/min
- **Design in the following condition range**
  water temp. : 20-35°C
  water volume : 60L/min more
- When cooling condition load is small, thermostat-off may be carried out for freeze-up protection
- Hold ambient temperature at 0-40°C
  Heat rejection from the casing: 0.71kw/10HP

10 Installation of outdoor units

10 - 2 Introduction

10 - 2 - 3 Technical specifications (1)

GENERAL		FXYCP10MY1	FXYCP20MY1	FXYCP30MY1
Nominal cooling capacity (2)	(kW)	26.7	53.4	80.1
Nominal heating capacity (3)	(kW)	31.5	63.0	94.5
Nominal input cooling / heating (4)	(kW)	6.03 / 6.05	12.1 / 12.1	18.1 / 18.2
Dimensions HxWxD	(mm)	1000 x 780 x 550	(1000 x 780 x 550) x 2	(1000 x 780 x 550) x 3
Mass	(kg)	150	(150) x 2	(150) x 3
Connections				
Refrigerant liquid pipe	(inch)	3/8	5/8	3/4
	(mm)	ø9.5	ø28.6	ø19.1
Refrigerant gas pipe	(inch)	7/8	1 1/8	1 3/8
	(mm)	ø22.2	ø28.6	ø34.9
Refrigerant discharge gas pipe (5)	(inch)	3/4	7/8	1 1/8
	(mm)	ø19.1	ø22.2	ø28.6
Water piping connections				
Inlet pipe		PT1 1/4B Internal Thread	(PT1 1/4B) x 2 Internal Thread	(PT1 1/4B) x 3 Internal Thread
Outlet pipe		PT1 1/4B Internal Thread	(PT1 1/4B) x 2 Internal Thread	(PT1 1/4B) x 3 Internal Thread
Drain pipe		PS1/2B Internal Thread	(PS1/2B) x 2 Internal Thread	(PS12B) x 3 Internal Thread

NOTES

1 Refer to the engineering data book for the complete list of specifications.

2 The normal cooling capacities are based on:
- indoor temperature: 27°CDB / 19°CWB,
- inlet water temperature: 30°C,
- equivalent pipe length: 7.5m,
- level difference: 0m

3 The normal heating capacities are based on: –indoor temperature: 20°CDB,
- inlet water temperature: 20°C,
- equivalent pipe length: 7.5m,
- level difference: 0m

4 The nominal input includes total input of the unit: compressor and control circuit.

5 Only use incase of –H/R system

COMPRESSOR		FXYCP10MY1	FXYCP20MY1	FXYCP30MY1
Oil type	-	Synthetic(ether)oil	Synthetic(ether)oil	Synthetic(ether)oil
Crankcase heater	(W)	33	33 + 33	33 + 33 + 33
Refrigerant type	-	R410A	R410A	R410A
Refrigerant charge	(kg)	5.2	5.2 + 5.2	5.2 + 5.2 + 5.2

10 - 2 - 4 Electrical specifications

MODEL		FXYCP10MY1	FXYCP20MY1	FXYCP30MY1
Power supply				
Phase	-	3N-	3N-	3N-
Frequency	(Hz)	50	50	50
Voltage	(V)	380 - 415	380 - 415	380 - 415
Voltage torerance	(%)	±10	±10	±10
Recommended fuses	(A)	25	35	45
Compressor				
Phase	-	3-	3-	3-
Frequency	(Hz)	50	50	50
Voltage	(V)	380 - 415	380 - 415	380 - 415
Nominal running current	(A)	9.9 - 9.1	(9.9 - 9.1) + (9.9 - 9.1)	(9.9 - 9.1) + (9.9 - 9.1) + (9.9 - 9.1)

10 Installation of outdoor units

10 - 3 Selection of location

This unit is not a type of specifications for outdoor installation.

Always install it in a room.

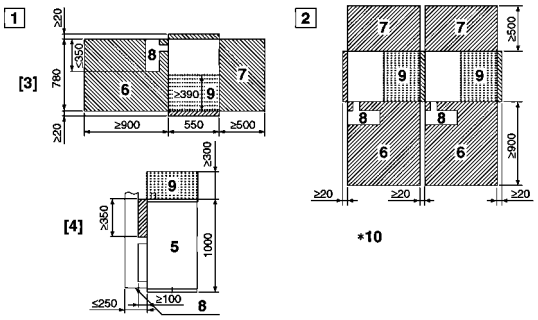
(machine room, etc.)

Paying attention to the conditions mentioned below, select the place for installation with a prior approval of customer.

1 The foundation is strong enough to support the weight of the unit and the floor is flat to prevent vibration and noise generation.
2 Consider the space required for refrigerant piping work when installing. Refer to [Necessary Space].
3 There is no danger of fire due to leakage of inflammable gas.
4 The piping length between the outside unit and the indoor unit may not exceed the allowable piping length. "**10-9 Refrigerant piping**".
5 Locations where the noise of the unit operating will not disturb nearby houses, etc.
6 Locations with airflow and ventilation holes capable of dissipating heat from the machine and where the ambient temperature around the outside unit is between 0 and 40°C and the humidity does not exceed 80%.

[Necessary Space]

When installing, secure the space mentioned below without fail.



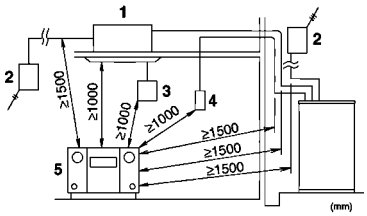
① In case of a single installation [mm]
② In case of series installations [mm]
③ Top view
④ Side view
⑤ Outside unit
⑥ Service Space (front side)
⑦ Service Space (back side)
⑧ Space for installing water piping
*Secure a enough space for removing the front panel.
⑨ Ventilation Space
*above the area ( ) of the outside unit.
⑩ Secure spaces in the front, back and top sides as same as the case of single installation.

10 Installation of outdoor units

10 - 3 Selection of location

CAUTION

1 An inverter air conditioner may cause electronic noise generated from AM broadcasting. Examine where to install the main air conditioner and electric wires, keeping proper distances away from stereo equipment, personal computers, etc.



① Indoor unit

② Branch switch, overcurrent breaker

③ Remote controller

④ Cool/heat selector

⑤ Personal computer or radio

If the electric wave of AM broadcasting is particularly weak, keep distances of 3m or more and use conduit tubes for power and transmission lines.

2 Water quality

Water containing high level of foreign materials may cause the corrosion of heat exchanger and piping or scale accumulation.

Use water satisfying “10-7-4 Water quality”.

3 Cooling tower

Use a closed type cooling tower without fail. (Open type tower cannot be used.)

4 Strainer

Install a strainer (an optional accessory) without fail at the inlet of water piping. (If sands, wastes, rust particles, etc. are mixed in the water circulation system, damage to the plate type heat exchanger may be caused by the corrosion of metal materials and clogging of the heat exchanger.)

5 The refrigerant R410A itself is nontoxic, nonflammable and is safe. If the refrigerant should leak however, its concentration may exceed the allowable limit depending on room size. Due to this it could be necessary to take measures against leakage.

Refer to the chapter “Caution for refrigerant leaks”.

10 - 4 Inspecting and handling the unit

At delivery, the package should be checked and any damage should be reported immediately to the carrier claims agent.

When handling the unit, take into account the following:

1 Fragile, handle the unit with care.
Keep the unit upright in order to avoid compressor damage.

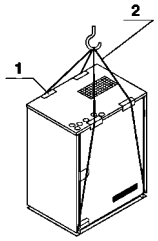
2 Choose the path along which the unit is to be brought in ahead of time.

3 In order to prevent any damage to the unit during installation, use slings (cloth) or patch plates and lift the unit referring to the figure below.

4 Lift the unit preferably with a crane and 2 belts of at least 4m long.

5 Use patch plates or clothes where the belt may hit the casing in order to prevent the casing from being damaged.

6 Be sure use the standard supplied accessories and dedicated parts as installation parts.



① Patch plates or clothes

② Belt sling

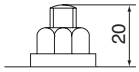
NOTE

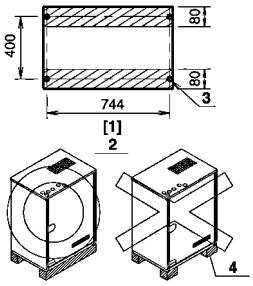
Use belt sling of 20mm width or less which adequately bears the weight of the product.

10 Installation of outdoor units

10 - 5 Unpacking and placing the unit

- Make sure the area around the machine drains properly by setting up drainage grooves around the foundation.
- Make sure the unit is installed level on a sufficiently strong base to prevent vibration and noise.
- Secure the unit to its base using foundation bolts. (Use four commercially available M12-type foundation bolts, nuts, and washers.)
- The foundation bolts should be inserted 20 mm.
- Fix 4 foundation bolts.
- Support the unit with the foundation which is larger than the hatched area shown in the figure below.





① Front side

② Position of foundation bolts

③ Hole for a foundation bolt
(ø17 holes at 4 corners)

④ Avoid such a foundation where the unit is supported by 4 corner points.

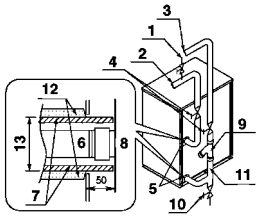
CAUTION

When installing the unit closely contacting the wall for any unavoidable reason, arrange so that no vibration from the unit may be transmitted to the wall surface by insulating the vibration using cushions, etc.

10 Installation of outdoor units

10 - 6 Water piping work

- The water pressure resistance of water piping of this outside unit is 1.96 MPa.
- The connection port for water piping is located in the front. The connection ports for drain piping are located in the front and back.
  When using the back port, change the cast iron plug from the back to the front and securely close it.
- Because of indoor use, carry out piping work in such a way no water may drop on the outer plate.
- Drain piping should be short and have a slant downwards.
  The diameter of drain pipe should be the same as the diameter of unit connection (1/2B) or larger.
- The diameter of water pipe should be the same as the diameter of unit connection (1-1/4) or larger.
- Install an air purge valve in the midway of the water piping to prevent cavitation.
- After completing the drain piping work, make sure that the water runs smoothly without any clogging by dust.
- Do not connect the drain outlet to the water outlet.
- Install a strainer (an optional accessory) in the inlet of water piping within a distance of 1.5 m from the outside unit.
  (If sand, waste or rust particles are mixed in the water circulation system, metal materials will become corrosive.)
- Install insulation on the inlet/outlet of water piping to prevent condensation and freezing.
- Install insulation up to the base of heat exchanger as shown in the figure below.
- Install a gate valve for chemical cleaning in an easy position to handle.
- Use water pipes complied with the local and national codes.
- Run the water pump to flush inside of water piping.
  Then, clean the strainer.
- If there is a possibility of freezing, take measures to prevent freezing.
- Tighten securely the connection of water piping and socket with tightening torque of 300 N·m or less.
  (If a larger torque is applied, the unit may be damaged.)



① Air purge
② Outlet of water
③ Inlet of water
④ Gate valve
⑤ Water piping socket
⑥ Water piping
⑦ Insulation
⑧ Heat exchanger
⑨ Strainer (an optional accessory)
⑩ Drain valve
⑪ Connection port to draining piping
⑫ Insulation cover
⑬ 80 mm or less

10 Installation of outdoor units

10 - 7 Handling of the plate type heat exchanger

CAUTION

The brazing plate type heat exchanger (the plate type heat exchanger) is used for this outside unit. Because its structure is different from a conventional type heat exchanger, it must be handled in a different manner.

10 - 7 - 1 When designing the equipment

1 Install a strainer (an optional accessory) at the water inlet side adjacent to the outside unit in order to prevent any foreign materials such as dust, sand, etc. from entering.

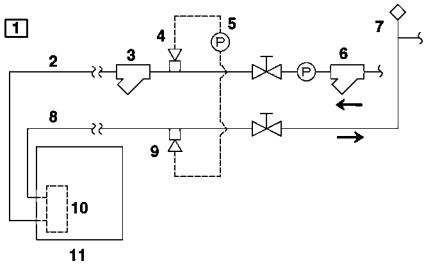
2 Depending on the water quality, scale may stick to the plate type heat exchanger. In order to remove this scale, it is necessary to clean it at a regular interval using chemicals. To this end, install a gate valve in the water piping. Set up a piping connection port on the piping between this gate valve and the outside unit for cleaning by chemicals.

3 For the purpose of cleaning and water drain off from the outside unit (water draining during a long period of nonuse in winter, draining upon starting of season-off), install an “air discharge plug” and a “water draining plug” at the inlet/outlet ports of water piping. In addition, install an “automatic air discharging valve” at the top of riser piping or at the top of a portion where air tends to stay.

4 Independent of the piping inlet of the outside unit, install a cleanable strainer at a portion close to the pump piping inlet.

5 Carry out complete cooling/thermal insulation of water piping and outdoor dehumidification. If complete cooling or thermal insulation has not been carried out, any damage may be caused during severe winter due to freezing, in addition to thermal loss.

6 When you stop operation during night or winter, it is necessary to take measures to prevent water related circuits from natural freezing in the area the ambient temperature drops below 0°C (by water drain off, keeping the circulation pump running, warming up by a heater, etc.) Freezing of water related circuits may result in any damage to the plate type heat exchanger. Therefore, please take appropriate measures depending on the circumstances of use.



① Example of piping

② Water inlet piping

③ Strainer (sold separately as an accessory)

④ Air discharge plug (for joint use with cleaning port)

⑤ Cleaning device

⑥ Strainer for pump

⑦ Automatic air discharge valve

⑧ Water outlet piping

⑨ Joint use with water draining plug

⑩ Plate type heat exchanger

⑪ Outside unit

10 - 7 - 2 Before starting a test run

1 Before starting a test run, please make sure that the piping work has been carried out in a proper manner.

Especially, make sure that the strainer, air discharge valve, automatic water supply valve, expansion tank and cistern are positioned at their places correctly.

2 After water has been completely filled in, first run the pump only, and then make sure that no air has been caught in the water circulation system and the water flow rate is correct. If any air has been caught or the flow rate is not enough, the plate type heat exchanger may freeze. Measure any water pressure loss before and after the outside unit and make sure that the flow rate is as designed. In case of any abnormal, stop the test run immediately and carry out trouble shooting to resolve the trouble.

3 Following the installation manual, carry out a test run of the outside unit.

4 After the test run has been completed, inspect the strainer at the inlet piping of the outside unit. Clean it if it is dirty.

10 Installation of outdoor units

10 - 7 Handling of the plate type heat exchanger

10 - 7 - 3 Daily service and maintenance

1 Management of water quality

The plate type heat exchanger has a structure that does not permit dismantling and cleaning, or replacing any parts. Please pay attention carefully to the quality of water to be used for the plate type heat exchanger in order to prevent corrosion and sticking of scale.
The water to be used for the plate type heat exchanger should have at least the quality as specified in the table below.
When using any corrosion prevention agent, scale depressant agent, etc. such agent should have no corrosive features against stainless steel and copper.

2 Management of chilled water flow rate

If the chilled water flow rate is not enough, it will result in the freezing damage to the plate type heat exchanger.
Check for any clogging of the strainer, any air being caught, any reduction in the flow rate due to failure of circulation pump by measuring the temperature and pressure differences at the inlet and outlet ports of the plate type heat exchanger. If the aged difference in the temperature or pressure has increased beyond the proper range, the flow rate should have decreased. Stop the operation and remove the cause before restarting the operation.

3 Steps to be taken when a freezing protection device was activated

When the freezing protection device should be activated during operation, remove the cause without fail before restarting the operation. If the freezing protection device has been once activated, a partial freezing has occurred. If you restart the operation without removing the cause, the plate type heat exchanger will be closed and the ice cannot be melted, and in addition, the freezing process will be repeated resulting in any damage to the plate type heat exchanger, leading to any such accidents that the refrigerant starts leaking or water starts entering the refrigerant circuit.

10 - 7 - 4 Water quality

Water quality standards for chilled water, hot water and make-up water (4) (6)

ITEM (5)	Cooling water system (3)		Hot water system (2)		Tendency (1)	
	Circulation system		Circulation water (20°C ~ 60°C)	Make-up water	Corrosion	Scale
	Circulation water	Make-up water				
Standard items						
pH (25°C)	6.8 to 8.2	6.0 to 8.0	7.0 to 8.0	7.0 to 8.0	○	○
Electrical conductivity (mS/m) (25°C)	Less than 80	Less than 30	Less than 30	Less than 30	○	○
Chloride ions (mg Cl^-/l)	Less than 200	Less than 50	Less than 50	Less than 50	○	
Sulfate ions (mg SO_4^{2-}/l)	Less than 200	Less than 50	Less than 50	Less than 50	○	
Acid consumption (pH 4.8) (mg $CaCO_3$/l)	Less than 100	Less than 50	Less than 50	Less than 50		○
Total hardness (mg $CaCO_3$/l)	Less than 200	Less than 70	Less than 70	Less than 70		○
Calcium hardness (mg $CaCO_3$/l)	Less than 150	Less than 50	Less than 50	Less than 50		○
Ionic-state silica (mg SiO_2/l)	Less than 50	Less than 30	Less than 30	Less than 30		○
Reference items						
Iron (mg Fe/l)	Less than 1.0	Less than 0.3	Less than 1.0	Less than 0.3	○	○
Copper (mg Cu/l)	Less than 0.3	Less than 0.1	Less than 1.0	Less than 0.1	○	
Sulfite ion (mg S^2/l)	Shall not be	Shall not be	Shall not be	Shall not be	○	
Ammonium ion (mg NH_4^+/l)	Less than 1.0	Less than 0.1	Less than 0.3	Less than 0.1	○	
Residual chlorine (mg CL/l)	Less than 0.3	Less than 0.3	Less than 0.25	Less than 0.3	○	
Free carbon dioxide (mg CO_2/l)	Less than 4.0	Less than 4.0	Less than 0.4	Less than 4.0	○	
Stability index	6.0 to 7.0	-	-	-	○	○

NOTES

1 The circle marks in the columns for corrosion or scale to develop.
2 Corrosion has a tendency to occur when water temperature is high (40°C or higher), and if metals with no protective coating whatever are directly exposed to water, it would be a good idea to take effective measures against corrosion such as adding a corrosion inhibitor or deaeration treatment.
3 In a condenser water circuit that uses a closed cooling tower, the closed circuit circulating water and make-up water must satisfy its water quality standards for the hot water system, and passing water and make-up water must satisfy those for the circulation type cooling water system.
4 Supply or make-up water should be tap water (clean water), industrial water and underground water except for purified water, neutral water and softened water or the like.
5 The fifteen items in the table above represent typical causes of corrosion and scale.
6 Passing water may cause corrosion.
Do not use passing water.

10 Installation of outdoor units

10 - 7 Handling of the plate type heat exchanger

10 - 7 - 5 Maintenance of plate type heat exchanger

The performance of a plate type heat exchanger may decline due to scale accumulation. It may be damaged by freezing due to the drop of flow rate. For this reason, it is necessary to carry out programmed maintenances at a regular interval in order to prevent the scale from being generated.

1 Before entering the season for use, carry out the following inspections:

- Conduct a water quality test and make sure that it is within the standard.
- Clean the strainer.
- Make sure that the flow rate is correct.
- Make sure that the operational conditions (pressure, flow rate, outlet temperature, etc.) are normal.

2 Because the plate type heat exchanger has a structure which does not permit disassembling and cleaning, follow the following procedures for cleaning:

- Make sure that a connection port for piping has been reserved for cleaning by chemicals. For chemicals to clean the scale, solution with 5% diluted formic acid, citric acid, oxalic acid, acetic acid, phosphoric acid, etc. is recommendable.
  Never use hydrochloric acid, sulfuric acid, nitric acid, etc., because they have strong corrosive features.
- Make sure that a valve has been reserved for each before the inlet connection port and after the outlet connection port.
- Connect the piping for circulation of cleaning chemicals to the inlet piping of plate type heat exchanger. Fill the cleaning solution of 50 - 60°C for a while in the plate type heat exchanger.
  Then, circulate the cleaning solution by a pump for 2-5 hours.
  The time for cleaning depends on the temperature of cleaning solution or the degree of scale accumulation.
  Therefore, please watch the change of the dirtiness (color) of cleaning solution to determine the level of removal of scale.
- After circulating the cleaning solution, discharge the solution from the plate type heat exchanger, fill the heat exchanger with a solution of 1-2% sodium hydroxide (NaOH) or sodium bicarbonate (NaHCO3). Circulate this solution for 15-20 minutes for neutralization purpose.
- After the process of neutralization has been completed, rinse the inner part of the plate type heat exchanger with care using fresh and clean water.
- When using any cleaning agent sold in the market, check in advance that such agent has no corrosive features against stainless steel and copper.
- For details of cleaning method, ask the manufacturer of related cleaning agent.

3 After cleaning has been completed, make sure that the unit can be operated in a normal fashion.

10 Installation of outdoor units

10 - 8 Field wiring

CAUTION

All field wiring and components must be installed by a licensed electrician and must comply with relevant local and national regulations.

The field wiring must be carried out in accordance with the wiring diagrams and the instructions given below.

Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.

Do not operate until refrigerant piping work is completed.

(If operated before complete the piping work, the compressor may be broken down.)

Never remove thermistor, sensor or etc. when connecting power wiring and transmission wiring.

(If operated with thermistor, sensor or etc. removed, the compressor may be broken down.)

Be sure to install an earth leak detector.

(This unit uses an inverter, so install the earth leak detector that be capable of handling high harmonics in order to prevent malfunctioning of the earth leak detector itself.)

This product have reversed phase protection detector that only works when the product started up.

Do not run the unit by short cutting the protection device (S1PH).

If there exists the possibility of reversed phase, lose phase, momentary black out or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.

Attach the power wire securely.

Introducing power with a missing N-phase or with a mistaken N-phase will break the equipment.

10 - 8 - 1 Optional parts

COOL/HEAT Selector

S1S.....Selector switch (fan, cool/heat), S2S.....Selector switch (cool/heat)

NOTES

1 When using the adaptor for sequential start, refer to chapter “Examples”.

2 For connection wiring to the central remote controller, refer to the installation manual of the central remote controller.

10 - 8 - 2 Power circuit and cable requirements

A power circuit (see table below) must be provided for connection of the unit. This circuit must be protected with the required safety devices, i.e. a main switch, a slow blow fuse on each phase and an earth leak detector.

	Phase and frequency	Voltage	Minimum circuit amp.	Recommended fuses	Transmission line selection
FXYCP10MY1	ø 3, 50Hz	380 - 415V	12.6A	25A	0.75 - 1.25mm^2
FXYCP20MY1	ø 3, 50Hz	380 - 415V	25.3A	35A	0.75 - 1.25mm^2
FXYCP30MY1	ø 3, 50Hz	380 - 415V	37.9A	45A	0.75 - 1.25mm^2

When using residual current operated circuit breakers, be sure to use a high-speed type 200mA rated residual operating current.

NOTES

1 Use copper conductors only.

2 Use insulated wire for the power cord.

3 Select the power supply cable in accordance with relevant local and national regulations.

4 Wire size must comply with the applicable local and national code.

5 Specifications for local wiring power cord and branch wiring are in compliance with IEC60245.

6 WIRE TYPE H05VV(*)
*Only in protected pipes, use H07RN-F when protected pipes are not used.

10 Installation of outdoor units

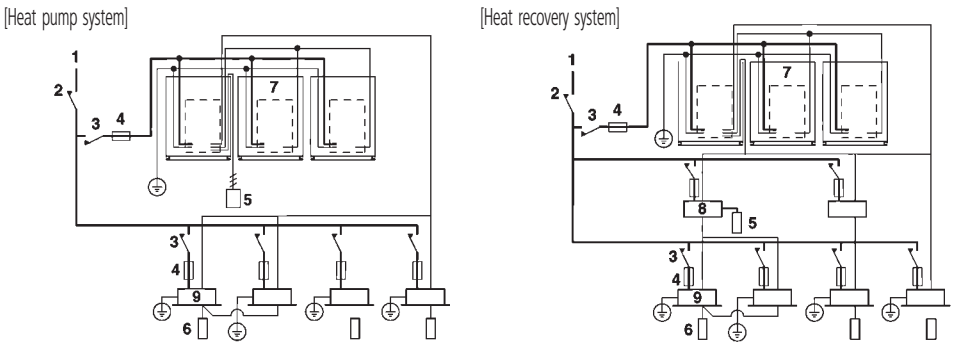
10 - 8 Field wiring

10 - 8 - 3 General

- Up to 3 units can be connected by crossover power source wiring between outside units. For details, refer to the equipment design data and technical data.
- Make sure to connect the power source wire to the power source terminal block and to clamp it as shown in figure 8, chapter “Field line connection”.
- As this unit is equipped with an inverter, installing a phase advancing capacitor will not only deteriorate power factor improvement effect, but also may cause capacitor abnormal heating accident due to high-frequency waves.
  Therefore, never install a phase advancing capacitor.
- Keep power imbalance within 2% of the supply rating.
  1 Large imbalance will shorten the life of the smoothing capacitor.
  2 As a protective measure, the product will stop operating and an error indication will be made, when power imbalance exceeds 4% of the supply rating.
- Follow the “electrical wiring diagram” when carrying out any electrical wiring.
- Only proceed with wiring work after blocking off all power.
- Always ground wires. (In accordance with national regulations of the pertinent country.)
- Do not connect the ground wire to gas pipes, sewage pipes, lightning rods, or telephone ground wires.
  Gas pipes: can explode or catch fire if there is a gas leak.
  Sewage pipes: no grounding effect is possible if hard plastic piping is used.
  Telephone ground wires and lightning rods: dangerous when struck by lightning due to abnormal rise in electrical potential in the grounding.
- This machine includes an inverter device. Connect earth and leave charge to eliminate the impact on other devices by reducing noise generated from the inverter device and to prevent leaked current from being charged in the outer hull of the product.
- Earth leak detector which are especially for protecting ground faults should be used in conjunction with main switch or fuse for use with wiring.
- Connect the wire securely using designated wire and fix it with attached clamp without applying external pressure on the terminal parts (terminal for power wiring, terminal for transmission wiring and earth terminal). See “field line connection”.
- Never connect the power supply in reversed phase.
  (This product have reversed phase protection detector.
  If the detector operate, replace two of the three phases (L1, L2 and L3).

10 - 8 - 4 Examples

System example



① Field power supply
② Main switch
③ Earth leak detector
④ Fuse
⑤ Cool/heat selector
⑥ Remote controller
⑦ Outside unit
⑧ BS unit
⑨ Indoor unit
— power supply wiring (sheathed cable)
— transmission wiring (sheathed cable)

10 Installation of outdoor units

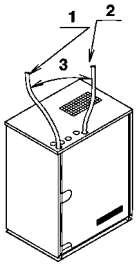
10 - 8 Field wiring

10 - 8 - 4 Examples

CAUTION

1 Use a power wire pipe for the power wiring.
2 Outside the unit, make sure the weak electric wiring (i.e. for the remote controller, transmission, etc.) and the strong electric wiring do not pass near each other, keeping them at least 50 mm apart. Proximity may cause electrical interference, malfunctions, and breakage.
3 Be sure to connect the power wiring to the power wiring terminal block and secure it as described in **Field line connection**.
4 Transmission wiring should be secured as described in **Field line connection: transmission wiring and COOL/HEAT selector**.
5 Secure the wiring with the accessory clamps so that it does not touch the piping.
6 Make sure the wiring and the EL. COMPO. BOX cover do not stick up above the structure, and close the cover firmly.

Picking power line and transmission line



① Power supply wiring
Pump operation output
(High voltage)

② Connection wiring
(Low voltage)

③ Set apart

Connect the wire to the terminal block on PC board with care since too much pressure may cause breakage of the PC board.

Field line connection: transmission wiring, interlock circuit, pump operation output and COOL/HEAT selector

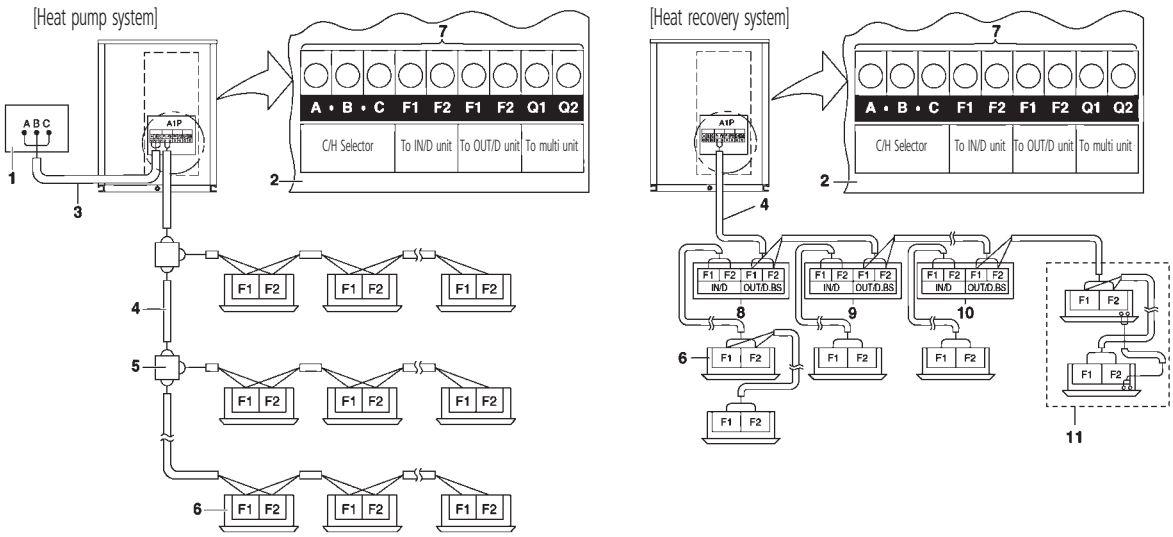
Connect the wire to the terminal block on the PC board with care since too much pressure may cause breakage of the PC board.

10 Installation of outdoor units

10 - 8 Field wiring

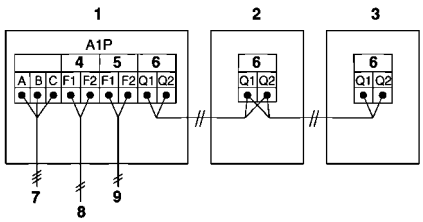
10 - 8 - 4 Examples

[In case of RWEYQ10MY1]



① COOL/HEAT selector
② Outside unit PC board (A1P)
③ Take care of the polarity
④ Use the conductor of sheathed wire (2 wire) (no polarity)
⑤ Terminal board (field supply)
⑥ Indoor unit
⑦ Never connect the power wire.
⑧ BS unit A
⑨ BS unit B
⑩ Last BS unit
⑪ Cool-only unit

[In case of RWEYQ20,30MY1]



① Unit A (Master unit)
② Unit B
③ Unit C
④ TO IN/D UNIT
⑤ TO OUT/D UNIT
⑥ TO MULTI UNIT
⑦ To COOL/HEAT selector (only Heat pump system)
⑧ To indoor unit
⑨ To other systems

10 Installation of outdoor units

10 - 8 Field wiring

10 - 8 - 4 Examples

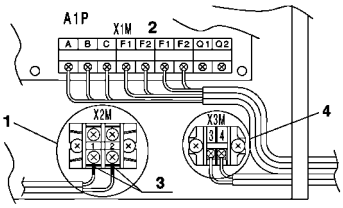
- The transmission wiring between the outside units in the same pipe line must be connected to the Q1/Q2 (Out Multi) terminals. Connecting the wires to the (Out-Out) terminals results in system malfunction.
- The wiring for the other lines must be connected to the F1/F2 (Out-Out) terminals of the PC board in the outside unit to which the transmission wiring for the indoor units is connected.
- The outside unit to which the transmission wiring for the indoor units is connected is master unit.
- The transmission wiring between the outside units must be 30 m in length at maximum.

[Setting the interlock circuit and pump operation output.]

<Pump operation output [high voltage]>

- Use insulated wires of the size as mentioned below having rated voltage of 250 V or higher:
  For single core: 1.25 mm² or larger (conduit pipe work)
  For multiple cores: 0.75 mm² or larger

*The wiring for pump operation output is to be procured locally



① Pump operation output terminal (X2M) when water pump is linked with system operation, water pump operation circuit shall be set between terminals (1) and (2).
Contact specification --- 220 VAC, 3mA-0.5A

② PC board (A1P)

③ Mount an insulation sleeve.

④ **Connection of interlock circuit**

Do not forget to connect an interlock circuit (an auxiliary a-contact of electromagnetic switch for the water pump) to each outside unit.

(Select without fail an auxiliary a-contact able to switch minimum load of DC15V, 1mA.)

<When connecting for each outside unit>

Connect to the terminal block (X3M) as shown in the bottom right of the sketch.

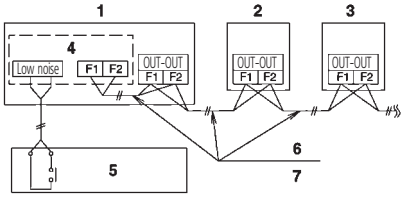
<When connecting in a lump-sum manner (centralized interlock)>

For this unit, it is possible to make a lump-sum interlock of multiple outside unit using an adapter (sold separately as an accessory) for external control of outside units.

For details of wiring connection, refer to “How to cen-tralized interlock wiring”.

<How to the centralized interlock wiring>

- When centralized interlock is done, see (3) “**10-8-5 In case of a local setting**”
- No wiring to terminal block X3M is necessary when centralized interlock is employed
- For RWEYQ20·30MY1, external/external connection wiring shall be done for master unit only.



① Outside unit A

② Outside unit B

③ Outside unit C

④ Adapter for external control

⑤ Interlock circuit of water pump

⑥ Out-Out connection wiring

⑦ Use the conductor of sheathed wire (2 wire) (no polarity)

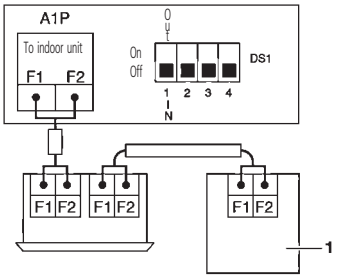
10 Installation of outdoor units

10 - 8 Field wiring

10 - 8 - 4 Examples

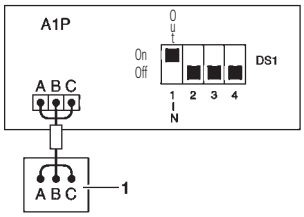
[Setting the cool/heat operation type]

1 Performing cool/heat setting with the remote controller connected to the indoor unit.
Keep the COOL/HEAT selector switch (DS1) on the outside unit PC board (A1P) at the factory setting position OFF.



① Remote controller

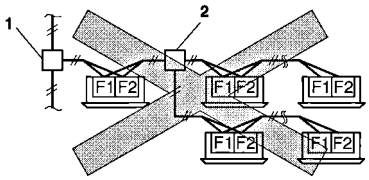
2 Performing cool/heat setting with the COOL/HEAT selector.
Connect the COOL/HEAT selector (optional) to the A/B/C terminals and set the COOL/HEAT selector switch (DS1) on the outside unit PC board (A1P) to ON.



① COOL/HEAT selector

- For the above wiring, always use sheathed vinyl cords with 0.75 to 1.25 mm2 or cables (2 core wires). (3 core wire are allowable for the COOL/HEAT selector only.)
- All transmission wire is field supply.
- If the following limits should be exceeded, be careful that any abnormal transmission may be caused;

  Maximum wiring length .....1000 m or less
  Total wiring length .....2000 m or less
  Maximum branching .....16 branching or less
  Wire length between outside unit .....30 m or less
- Never connect power supply to any connection wiring and its terminal block, otherwise the entire system may be damaged.
- Up to 16 branches are possible for transmission wiring. However no branch is allowed after branch.



① Branch

② Branch after branch

- The wiring to the indoor units must be connected to the F1/F2 (To IN/D UNIT) terminals on the PC board in the outside unit.

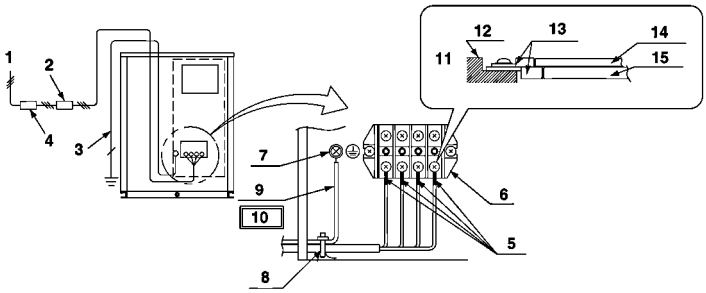
10 Installation of outdoor units

10 - 8 Field wiring

10 - 8 - 4 Examples

Field line connection: Power supply wiring and transmission wiring

Make sure to connect the power wire to the power terminal block and fix it using attached clamp as shown in figure 15 and 19.



① Power supply
(3N~, 380-415V)

② Branch switch, overcurrent breaker

③ Grounding wire

④ Earth leakage breaker

⑤ Attach insulation sleeves.

⑥ Power supply terminal block

⑦ Grounding terminal

⑧ Retain the ground wires along with the power wires using the accessory clamp (A).

⑨ Grounding wire

⑩ When wiring, do not allow the ground wires to contact the compressor lead wires. If the wires contact each other, adverse effects may occur to other units.

⑪ When connecting two wires to one terminal, ensure that the crimp-style terminals face with each other back to back.
Moreover, make sure that the wire of the smaller gauge is located above.

⑫ Terminal block

⑬ Crimp-style terminal

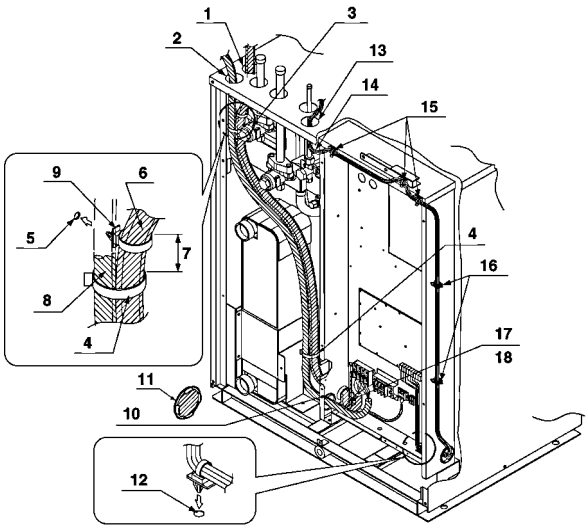
⑭ Wire gauge: Small

⑮ Wire gauge: Large

10 Installation of outdoor units

10 - 8 Field wiring

10 - 8 - 4 Examples



① Intake for power supply wiring, pump operation output (high voltage) and ground wiring.

② Intake for power supply jumper wiring and ground jumper wiring. (Only for jumping the power supply.)

③ Stop valve for discharge gas (high temperature part)

④ Retain the power supply wiring, pump operation output (high voltage) and ground wiring with the accessory clamp(A).

⑤ Insert the accessory clamp (B) in the hole of the fixing plate for stop valve.

⑥ Power supply wiring, pump operation output (high voltage) and ground wiring.

⑦ Approximately 50mm

⑧ Power supply jumper wiring and ground jumper wiring.

⑨ Retain the power supply wiring, pump operation output (high voltage) and ground wiring with the accessory clamp (B) to prevent them from touching with the stop valve for discharge gas.

⑩ Use the through hole cover for power jumper supply by cutting the hatched area.

⑪ Hatched area

⑫ Insert the accessory clamp (B) in the hole of the bottom of electrical box.

⑬ Intake for transmission wiring. (low voltage)

⑭ Make the transmission wiring have a trap with looseness to prevent condensate from reaching the top of electrical box.

⑮ Fix the transmission wiring to resin clamps with the accessory clamps (A)

⑯ Pass the transmission wiring (low voltage) through the wire clip.

⑰ Retain the power supply wiring, pump operation output (high voltage) and ground wiring to the bottom of electrical box with the accessory clamp (B)

⑱ Do not bundle the power supply jumper wiring.

10 Installation of outdoor units

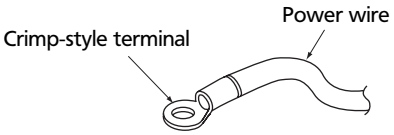
10 - 8 Field wiring

10 - 8 - 4 Examples

CAUTION

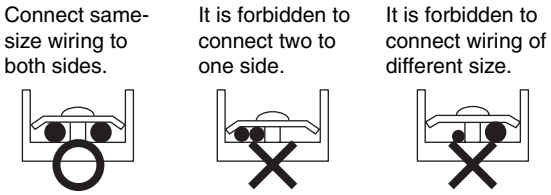
<Precautions when laying power wiring>

Use crimp-style terminals for connections to the power terminal block.



When none are available, follow the instructions below.

- Do not connect wiring of different size to the power terminal block. (Slack in the power wiring may cause abnormal heat.)
- When connecting wiring which is the same thickness, do as shown in the figure below.

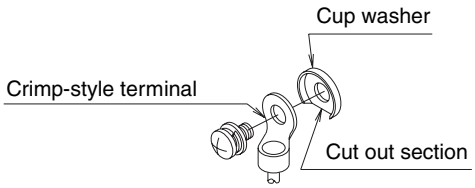


- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.
- See the table below for tightening torque for the terminal screws.

	Tightening torque (N · m)
M5 (Power terminal block)	3.0 - 4.1
M5 (Ground)	
M3 (transmission wiring terminal block)	0.8 - 0.97

<Precautions when connecting the ground>

When pulling the ground wire out, wire it so that it comes through the cut out section of the cup washer. (An improper ground connection may prevent a good ground from being achieved.)



10 - 8 - 5 In case of a local setting

If necessary, do the local settings as mentioned in the table below.

For setting, refer to the plate “Cares to be taken in servicing” attached to the cover of electrical box.

Typical local settings

*For other settings than mentioned in the table below, refer to the equipment design materials and service manual.

(1) Setting of switching between cooling and heating	This setting is done when switching between cooling and heating is performed by a switching remote controller (sold separately as an accessory) installed on the outside unit.
(2) Setting to prohibit sequenced start	This setting is done when the outside units are not started in a sequenced order.
(3) Setting of centralized interlock Setting of external demand	These settings are done when the interlocks are connected in a lump-sum manner or when performing a demand operation by external instruction.
(4) Setting of abnormal display when interlock contact is OFF	This setting is done when making an abnormal display (HJ) on a remote controller when the interlock contact is OFF (when the heat source water pump is not operated)

CAUTION

A separate adapter (sold separately as an accessory) for external control of an outside unit becomes necessary when doing a demand operation from an external instruction, setting of cooling and heating through a centralized remote controller for cooling and heating (sold separately as an accessory) and setting of centralized interlock.
For details, refer to the pamphlet attached to the adapter.

10 Installation of outdoor units

10 - 9 Refrigerant piping

CAUTION

After completing installation, be sure to open the valve.

(See **10-9-9 Additional refrigerant charge for details**) (Operating the unit with the valve shut will break the compressor.)

Use R410A to add refrigerant. (The R410A refrigerant cylinder has a pink stripe painted around it.)

All field piping must be installed by a licensed refrigeration technician and must comply with relevant local and national regulations.

CAUTION TO BE TAKEN WHEN BRAZING REFRIGERANT PIPING

Do not use flux when brazing copper-to copper refrigerant piping.

(Particularly for the HFC refrigerant piping) Therefore, use the phosphor copper brazing filler metal (BCuP-2: JIS Z 3264/B-Cu93P-710/ 795: ISO 3677) which does not require flux.

(Flux has extremely harmful influence on refrigerant piping systems. For instance, if the chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will damage the refrigerant oil.)

NOTE

Installation tools:

Gauge manifold, charge hose, etc.

Make sure to use installation tools that are exclusively used for R410A installations to withstand the pressure and to prevent foreign materials (e.g. mineral oils such as SUNISO and moisture) from mixing into the system.

(The screw specifications differ for R410A and R407C.)

Vacuum pump

1Use a 2-stage vacuum pump with a non-return valve.

2Make sure the pump oil does not flow oppositely into the system while the pump is not working.

3Use a vacuum pump which can evacuate to –100.7 kPa (5Torr, –755mmHg).

10 - 9 - 1 Selection of piping material

1 Foreign materials inside pipes (including oils for fabrication) must be 30mg/10m or less.

2 Use the following material specification for refrigerant piping:

- Construction material: Phosphoric acid deoxidized seamless copper for refrigerant.
- Size: Determine the proper size referring to chapter “Example of connection”.
- The wall thickness of the refrigerant piping should comply with relevant local and national regulations. For R410A the design pressure is 4.0 MPa.

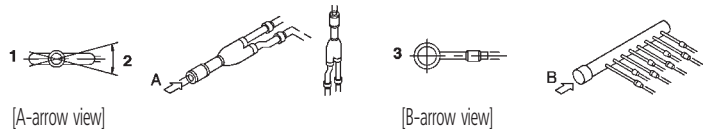
3 Make sure to use the particular branches of piping that have been selected referring to chapter “Example of connection”.

4 Refer to chapter “Shutoff valve operation procedure” in 9-10 about the shutoff valve operation procedure.

5 Make sure to perform the piping installation within the range of the maximum allowable pipe length, allowable level difference and allowable length after branching as indicated in chapter “Example of connection”

6 For installation of the refrigerant branching kit, refer to the installation manual delivered with the kit.
And follow the conditions listed below.

- Mount the REFNET joint so that it branches either horizontally or vertically.
- Mount the REFNET header so that it branches horizontally.



①Horizontal surface

②With in 30° against horizontal surface

③Horizontal surface

7 The outside unit multi connection piping kit that is sold separately as an option (BHFP22MA56·84) is necessary for the multi installation of indoor units. See the installation manual attached to the kit with attention to the following restrictions when installing.

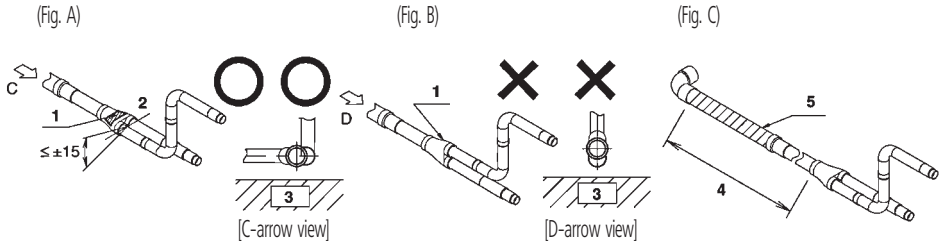
10 Installation of outdoor units

10 - 9 Refrigerant piping

10 - 9 - 1 Selection of piping material

Restriction for the installation of the outside unit multi connection piping kit

- Install the joint horizontally within a lean of ±15° with caution nameplate on top. Refer to figure 23 (Fig. A)
  Do not connect it vertically. Refer to figure below (Fig. B)
- Reserve the straight part of 500mm or more to the branch pipe and do not bend the local pipe in that area.Straight part of 500mm or more can be reserved if a local pipe (straight pipe) of 120mm or more is connected to the joint.
  Refer to figure below(Fig. C)
- Incorrect installation may cause breakage of outside unit.



① Caution nameplate

② Horizontal line

③ Ground

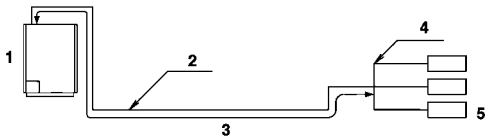
④ Straight part of 500mm or more

⑤ Local pipe
(120mm length or more)

Precautions when selecting branch piping.

- If the equivalent length of piping between the outside units and indoor units is 80m or longer, be sure to enlarge the main pipe in the liquid-side branch piping.

  Depending on the length of the refrigerant piping, the cooling/ heating capacity may drop, but even in such cases it is ok to enlarge the main pipe.



① Outside unit

② Main pipe

③ Enlarge

④ The first refrigerant branching kit.

⑤ Indoor unit

[Liquid side]

RWEYQ10MY1 type: .....f9.5. f12.7 (Minimum thickness f0.80mm)

RWEYQ20MY1 type: .....f15.9. f19.1 (Minimum thickness f1.00mm)

RWEYQ30MY1 type: .....f19.1. f22.2 (Minimum thickness f1.00mm)

(Unit: mm)

TEMPER GRADE	O Type			1/2 H Type					
Outer diameter	ø9.5	ø12.7	ø15.9	ø19.1	ø22.2	ø25.4	ø28.6	ø31.8	ø34.9
Minimum Wall Thickness	0.80	0.80	0.99	0.80	0.80	0.88	0.99	1.10	1.21

10 Installation of outdoor units

10 - 9 Refrigerant piping

10 - 9 - 2 Protection against contamination when installing pipes

- Take measures to prevent foreign materials like moisture and contamination from mixing into the system.

Place	Installation period	Protection method
Outdoor	More than a month	Pinch the pipe
	Less than a month	Pinch or tape the pipe
Indoor	Regardless of the period	

- Great caution is needed when passing copper tubes through walls.

10 - 9 - 3 Pipe connection

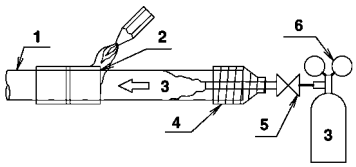
- Only use the flare nuts included with the unit.
  Using different flare nuts may cause the refrigerant to leak.
- Be sure to perform a nitrogen blow when brazing.
  (Brazing without performing nitrogen replacement or releasing nitrogen into the piping will create large quantities of oxidized film on the inside of the pipes, adversely affecting valves and compressors in the refrigerating system and preventing normal operation.)

CAUTION

Do not use anti-oxidants when brazing the pipe joints. Residue can clog pipes and break equipment.

NOTES

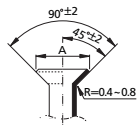
1 For nitrogen replacement method, see the “Installation Manual” (contact your dealer).
2 The pressure regulator for the nitrogen released when doing the brazing should be set to 0.02 MPa(0.2kg/cm2) or less.



① Refrigerant pipe
② Location to be brazed
③ Nitrogen
④ Taping
⑤ Manual valve
⑥ Regulator

Precautions when connecting pipes

- See the following table for flare part machining dimensions.
- When connecting the flare nuts, apply refrigerant oil to the inside and outside of the flares and screw them in by hand three or four times at first. (Use ester oil or ether oil.)
- See the following table for tightening torque.
  (Applying too much torque may cause the flares to crack.)
- After all the piping has been connected, check the gas leak with nitrogen.

Pipe size	Tightening torque (N·m)	A (mm)	Flare shape
ø9.5	32.7 - 39.9	12.8 - 13.2	
ø12.7	49.5 - 60.3	16.2 - 16.6	
ø15.9	61.8 - 75.4	19.3 - 19.7	

Not recommendable but in case of emergency

You must use a torque wrench but if you are obliged to install the unit without a torque wrench, you may follow the installation method mentioned below.

After the work is finished, make sure to check that there is no gas leak.

When you keep on tightening the flare nut with a spanner, there is a point where the tightening torque suddenly increases. From that position, further tighten the flare nut the angle shown below:

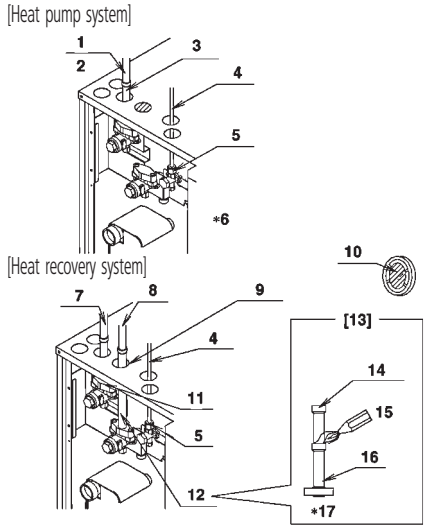
Pipe size	Further tightening angle	Recommended arm length of tool
ø9.5	60 to 90 degrees	Approx. 200 mm
ø12.7	30 to 60 degrees	Approx. 250 mm
ø15.9	30 to 60 degrees	Approx. 300 mm

10 Installation of outdoor units

10 - 9 Refrigerant piping

10 - 9 - 4 Connecting the refrigerant piping

Connect piping to outside unit by using accessory pipes



① Gas side piping
② (field supply)
③ Gas side accessory pipe (for suction gas (1))
④ Liquid side pipe (field supply)
⑤ Flare nut (Included in the unit)
⑥ Accessory pipes (for discharge gas and suction gas (2)) is not used.
⑦ Piping on discharge gas side (field supply)
⑧ Piping on suction gas side (field supply)
⑨ Cut off the hatched area and use it as a cover for the drilled.
⑩ Hatched area
⑪ Accessory pipe (for discharge gas)
⑫ Accessory pipe (for suction gas)
⑬ Guideline for pipe machining
⑭ Accessory pipe (for suction gas (2))
⑮ Brazing
⑯ Accessory pipe (for suction gas (1))
⑰ Before fitting to the product, apply brazing.

Precautions for installation of units

NOTES

1 The outside unit multi connection piping kit that is sold separately as an option (BHFP22MA56·84 or BHFP26MA56·84) is necessary for the multi installation of outside units.

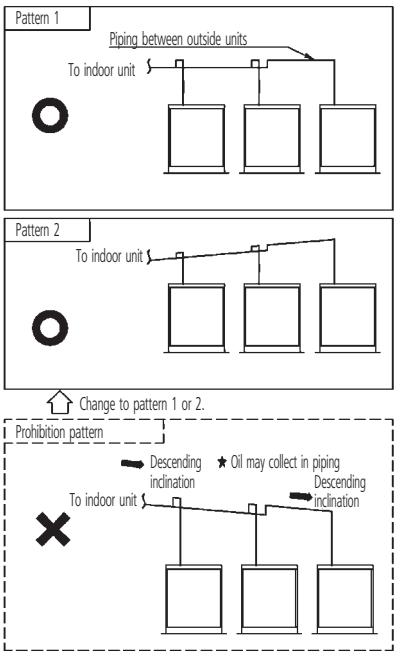
2 See the installation manual attached to the kit with attention to installation restrictions described in “connecting the refrigerant piping” when installing.

10 Installation of outdoor units

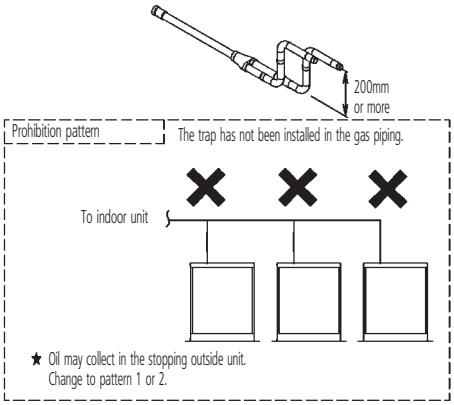
10 - 9 Refrigerant piping

10 - 9 - 4 Connecting the refrigerant piping

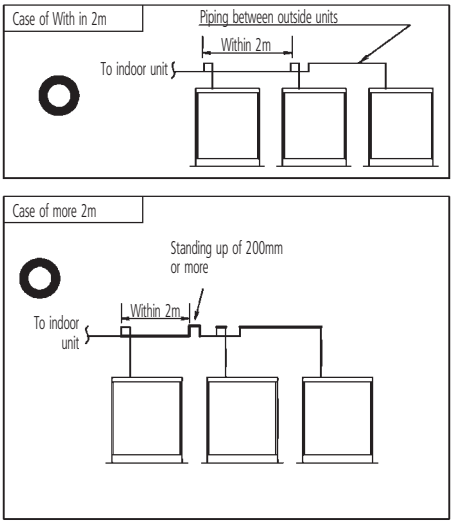
1 To avoid the risk of oil detention in the piping the piping between the outside units must be routed level or slightly upward.



2 The gas piping (both discharge and suction gas pipings in case of the heat recovery system) after branched, install without fail a trap of 200 mm or larger using the piping included in the piping kit for connecting the outside unit. Otherwise, the refrigerant may stay within the piping, causing any damage to the outside unit.



3 If the piping length between the outside unit connecting pipe kit or between the outside units exceeds 2 m, create a rise of 200 mm or more in the gas line within a length of 2 m from the kit.



10 Installation of outdoor units

10 - 9 Refrigerant piping

10 - 9 - 5 Air tight test and vacuum drying

The units were checked for leaks by the manufacturer.

Confirm that the valves are firmly closed before Air tight test or vacuum drying.

To prevent entry of any impurities and insure sufficient pressure resistance, always use the special tools dedicated for R410A.

- **Air tight test:** Make sure to use nitrogen gas.
  (For the service port location, refer to the “Caution” label attached on the front panel [right] of the outside unit.)

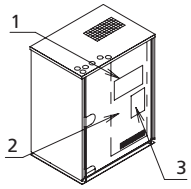
  (Refer to figure)

  ① [Service precautions] Label

  ② EL. COMPO. BOX cover

  ③ [Caution] Label

  Pressurize the liquid and gas pipes to 4.0MPa (40bar) (do not pressurize more than 4.0MPa (40bar)). If the pressure does not drop within 24 hours, the system passes the test. If the pressure drops, check where the nitrogen leaks from.



- **Vacuum drying:** Use a vacuum pump which can evacuate to –100.7kPa (5Torr, –755mmHg).

  1 Evacuate the system from the liquid and gas pipes by using a vacuum pump for more than 2 hours and bring the system to –100.7kPa or less. After keeping the system under that condition for more than 1 hour, check if the vacuum gauge rises or not. If it rises, the system may either contain moisture inside or have leaks.

  2 Following should be executed if there is a possibility of moisture remaining inside the pipe (if piping work is carried out during the raining season or over a long period of time rainwater may enter the pipe during work).
  After evacuating the system for 2 hours, pressurize the system to 0.05MPa (vacuum break) with nitrogen gas and evacuate the system again using the vacuum pump for 1 hour to –100.7kPa or less (vacuum drying). If the system cannot be evacuated to –100.7kPa within 2 hours, repeat the operation of vacuum break and vacuum drying.
  Then, after leaving the system in vacuum for 1 hour, confirm that the vacuum gauge does not rise.

10 - 9 - 6 Pipe insulation

After finishing the leak test and vacuum drying, the piping must be insulated. Take into account the following points:

- Make sure to insulate the connection piping both liquid-side and gas-side and refrigerant branch kits entirely.
  Not insulating them may cause leaking. (The gas piping can reach temperatures of 120°C. Be sure the insulation used can withstand such temperatures.)
- Reinforce the insulation on the refrigerant piping according to the installation environment. Condensation might form on the surface of the insulation.
- If there is a possibility that condensation on the shutoff valve might drip down into the indoor unit through gaps in the insulation and piping because the outside unit is located higher than the indoor unit, etc., this must be prevented by caulking the connections, etc.

CAUTION

Be sure to insulate connection piping, as touching them can cause burns.

10 - 9 - 7 Checking of device and installation conditions

Be sure to check the followings.

1 Make sure there is no faulty power wiring or loosing of a nut.
See “**10-8 Field wiring**”.

2 Make sure there is no faulty transmission wiring or loosing of a nut.
See “**10-8 Field wiring**”.

3 Make sure there is no faulty refrigerant piping.
See “**10-9 Refrigerant piping**”.

4 Make sure piping size is correct.
See “1**0-9-1 Selection of piping material**”.

5 Make sure insulation work is done.
See “**10-9-7 Pipe insulation**”.

6 Make sure insulation resistance of main power circuit is not deteriorated.
Using a megatester for 500V, check that the insulation resistance of 2M or more is attained by applying a voltage of 500V DC between power terminals and earth. Never use the megatester for the transmission wiring (between outdoor and indoor unit, outdoor and COOL/HEAT selector and etc.).

10 Installation of outdoor units

10 - 9 Refrigerant piping

10 - 9 - 8 Additional refrigerant charge

CAUTION

Refrigerant cannot be charged until field wiring has been completed.

Refrigerant may only be charged after performing the leak test and the vacuum drying.

When charging a system, care shall be taken that its maximum permissible charge is never exceeded, in view of the danger of liquid hammer.

Charging with an unsuitable substance may cause explosions and accidents, so always ensure that the appropriate refrigerant (R410A) is charged.

Refrigerant containers shall be opened slowly.

Always use protective gloves and protect your eyes when charging refrigerant.

- This outside unit is factory charged with refrigerant and depending on pipe sizes and pipe lengths some systems require additional charging of refrigerant.
- Determine the amount of refrigerant to be added by referring to the table, write it down on the included “Added Refrigerant” plate and attach it to the rear side of the front cover.

NOTE

Refer to the example of connection for the amount to be added.

Additional refrigerant charge procedure (1)-normally

- Charge the refrigerant to the liquid pipe in its liquid state. Since R410A is a mixed refrigerant, its composition changes if charged in a state of gas and normal system operation would no longer be assured.
- Make sure to use installation tools you exclusively use on R410A installations to withstand the pressure and to prevent foreign materials from mixing into the system.

1 Before charging, check whether the tank has a siphon attached or not.

How to charge with a siphon attached tank.

Charge with the tank upright.
(There is a siphon tube inside, so there is no need to turn the tank upside-down.)

How to charge with other tank.

Charge with the tank upside-down.

2 After the vacuum drying is finished, charge the additional refrigerant in its liquid state through the liquid shutoff valve service port.
Taking into account following instructions:

- Check that gas and liquid shutoff valves are closed.
- Stop the compressor and charge the specified weight of refrigerant.
  (If the outside unit is not in operation and the total amount cannot be charged, follow the Additional refrigerant charge procedure (2) shown below.)

10 Installation of outdoor units

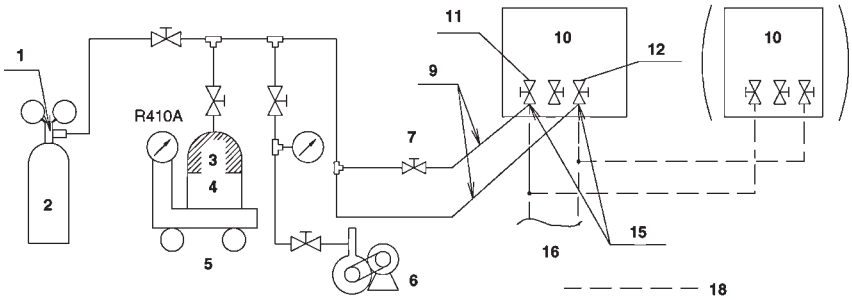
10 - 9 Refrigerant piping

10 - 9 - 8 Additional refrigerant charge

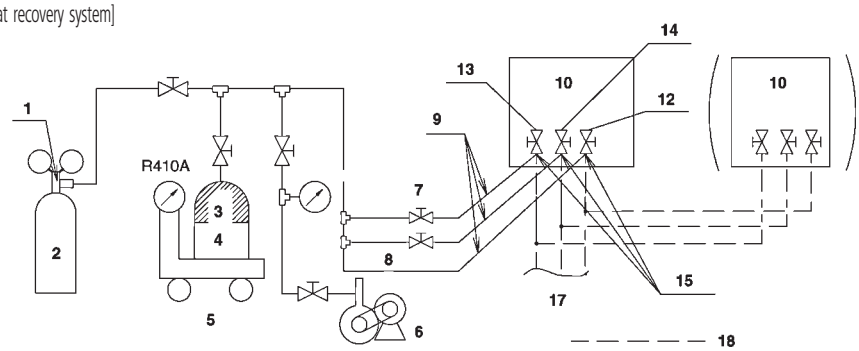
NOTE

Procedures for charging additional refrigerant.

[Heat pump system]



[Heat recovery system]



① Pressure reducing valve
② Nitrogen
③ Refrigerant tank
④ With a siphon
⑤ Measuring instrument
⑥ Vacuum pump
⑦ Val ve A
⑧ Val ve B
⑨ Charge hose
⑩ Outside unit
⑪ Gas side
⑫ Liquid side
⑬ Discharge gas side
⑭ Suction gas side
⑮ Shutoff valve service port
⑯ To indoor unit
⑰ To indoor units / BS units
⑱ Dotted lines represent onsite piping

10 Installation of outdoor units

10 - 9 Refrigerant piping

10 - 9 - 8 Additional refrigerant charge

Additional refrigerant charge procedure (2)-by Additional refrigerant charge operation

About the system settings for additional refrigerant charge operation, refer to the [Service Precaution] label attached on the electric box cover in the outside unit.

1 Fully open all shutoff valves (valve A and valve B must be left fully closed).

2 After ten minutes, fully close liquid line shutoff valve and then, open the valve by turning 180°.
Start the additional refrigerant charge operation.
See [Service precautions] Label for detail.
If it is difficult to charge the refrigerant additionally, decrease the water temperature or warm the refrigerant tank.
(Warm the refrigerant tank with a stupe or a warm hot water of 40 degrees or less.)

3 After the system is charged with a specified amount of refrigerant, press the RETURN button (BS3) on the PC board (A1P) in the outside unit to stop the additional refrigerant charge operation.

4 Immediately open both liquid-side and gas-side shutoff valve.
(If do not open the shutoff valve immediately, liquid seal may cause the pipe to burst.)

NOTE

Procedures for charging additional refrigerant.

(Refer to figure above)

10 Installation of outdoor units

10 - 9 Refrigerant piping

10 - 9 - 9 Shutoff valve operation procedure

CAUTION

Do not open the shutoff valve until 1-6 of “9-8 Checking of device and installation conditions” are completed. If the shutoff valve is left open without turning on power, it may cause refrigerant to buildup in the compressor, leading to insulation degradation.

Opening shutoff valve

1 Remove the cap and turn the valve counterclockwise with the hexagon wrench (JISB4648).

2 Turn it until the shaft stops.

Do not apply excessive force to the shutoff valve. Doing so may break the valve body, as the valve is not a backseat type. Always use the hexagon wrench.

3 Make sure to tighten the cap securely.

Closing shutoff valve

1 Remove the cap and turn the valve clockwise with the hexagon wrench (JISB4648).

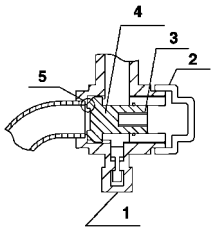
2 Securely tighten the valve until the shaft contacts the main body seal.

3 Make sure to tighten the cap securely.

* For the tightening torque, refer to the table on the bellow.

Tightening torque

SHUTOFF VALVE SIZE	Tightening torque N-m (Turn clockwise to close)					
	Shaft (valve body)		Cap (valve lid)	Service port	Flare nut	Gas side accessory pipe (1)
Liquid side	5.4 - 6.6	Hexagonal wrench 4 mm	13.5 - 16.5	11.5 - 13.9	32.7 - 39.9	-
Gas side	27 - 33	Hexagonal wrench 10 mm	36 - 44	11.5 - 13.9	-	22 - 28



① Service port

② Cap

③ Hexagon hole

④ Shaft

⑤ The main body seal

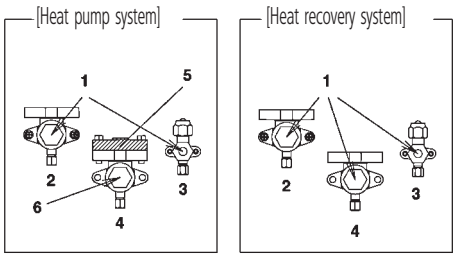
10 Installation of outdoor units

10 - 9 Refrigerant piping

10 - 9 - 9 Shutoff valve operation procedure

CAUTION

1 Do not damage the cap sealing.
2 Always use a charge hose for service port connection.
3 After tightening the cap, check that no refrigerant leaks are present.
4 After working, securely tighten the cover of service port without fail by specified torque.
5 When loosening a flare nut, always use two wrenches in combination. When connecting the piping, always use a spanner and torque wrench in combination to tighten the flare nut.
6 When connecting a flare nut, coat the flare (inner and outer faces) with ether oil or ester oil and hand-tighten the nut 3 to 4 turns as the initial tightening.
7 Do not forget to open the stop valve before starting operation.



① Remove the cap and turn the valve counter clockwise with the hexagon wrenches until it stops.
② Discharge gas side
③ Liquid side
④ Suction gas side
⑤ Never remove the partition flange for any reason.
⑥ Full close on the suction gas side

10 - 10Checks after installation

After the installation, check the following.

1 The shutoff valve

Make sure that the shutoff valve (both liquid and gas) is opened.
See the “Shutoff valve operation procedure” in chapter 10-9 and 10-10.

2 Additional refrigerant charge

The amount of refrigerant to be added to the unit should be written on the included “Added Refrigerant” plate and attached to the rear side of the front cover.

3 Installation date

Be sure to keep record of the installation date on the sticker on the EL. COMPO. BOX cover according to EN60335-2-40.

10 Installation of outdoor units

10 - 11Test run

CAUTION

After completing installation, be sure to open the shutoff valve.
(Operating the unit with the valve shut will break the compressor.)

10 - 11 - 1 Air discharge

- Running the heat source water pump, carry out air discharge process until the water comes out from the air discharge hole of local piping.
  (For the operation to be done for the first time after installation, you need to perform a checking operation.)

10 - 11 - 2 Before turn on the power supply

- Close the EL. COMPO. BOX cover securely before turning on power.
- Make settings for outside unit PC board (A1P) after power-on and check the LED display from inspection door that is on the EL. COMPO. BOX cover.

10 - 11 - 3 Check operation

(For the operation to be done for the first time after installation, you need to perform a checking operation according to this guideline without fail. Otherwise, Abnormal Code “U3” appears and normal operation cannot be carried out.)

(1) Check the connection of interlock circuit	The outside unit cannot be operated if the interlock circuit has not been connected.
(2) As necessary, configure the system settings onsite by using the dip switch (DS1) and push button switches (BS1 to 5) on the outside unit PC board (A1P). After this, close the cover of electrical box.	Always perform configuration after turning ON the power. To learn the setting method, refer to the [Service Precautions] label attached at the cover of electrical box shown in the figure 27. Remember, the actual settings you have made must be recorded on the [Service Precautions] label.
(3) Turn ON the power to the outside units and indoor units.	Make sure to turn ON the power 6 hours before starting the operation. This is necessary to warm the crankcase by the electric heater.
(4) Start the heat source water pump and fill the heat source water in the outside unit.	The outside unit cannot be operated if the heat source water pump is not running.
(5) Make sure that the temperature of heat source water is kept within the operation range (10 - 45°C).	The outside unit cannot be operated at a temperature outside the operation range.
(6) Check the LED on the PC board (A1P) in the outside unit to see if the data transmission is performed normally.	

LED display (Default status before delivery)		Microcomputer operation monitor	Page	Ready/Error	Cooler/heater changeover			Low noise	Demand	Multi
		HAP	H1P	H2P	H3P	H4P	H5P	H6P	H7P	H8P
One outside unit installed		◑	●	●	○	●	●	●	●	●
When multiple outside unit installed (*)	Master station	◑	●	●	○	●	●	●	●	○
	Sub station 1	◑	●	●	●	●	●	●	●	◑
	Sub station 2	◑	●	●	●	●	●	●	●	●

LED display: ● OFF ○ ON ◑ Blinking

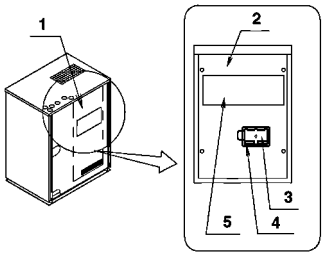
(*) The master unit is the outside unit to which the transmission wiring for the indoor units is connected.The other outside units are sub units.

(7) • Using the push button switches (BS1 - 5) on the P-panel (A1P) of outside unit, carry out a local setting, if necessary. • In case of an installation of multiple outside units, carry out the setting on the master unit. (Setting on the slave unit becomes invalid.)	Always carry out the setting only after the power supply has been applied. For the method of setting, refer to the label of “Points to be noted when providing services” attached to the cover of electrical box (shown in the figure 27) of the outside unit. (After setting, record the details of that setting to the label of “Points to be noted when providing services” without fail.)
(8) Check all shutoff valve is opened. If some shutoff valve is closed, open them. (Refer to “9-10 Shutoff valve operation procedure”.)	CAUTION Do not leave any shutoff valve closed. Otherwise the compressor will fail. For Heat recovery system of cooling and heating: Open all stop valves on the suction side, discharge gas side and liquid side. For cooling and heating switching operation system: Open the stop valves on discharge gas side and liquid side. (Keep the stop valve on suction side fully closed.)
(9) Perform the check operation following	If you push the test run button (BS4) on the P-panel (A1P) of the outside unit. for 5 seconds, the test run starts. If you want to interrupt the test run, push the RETURN button (BS3) on Ppanel (A1P) of the outside unit. The system continues residual operation for about 1 minute (maximum 10 minutes) and then stops. (During test run, you cannot stop it by a command from a remote controller.) Carry out above setting from a service window.

10 Installation of outdoor units

10 - 11Test run

10 - 11 - 3 Check operation



① Electrical box

② Cover of electrical box

③ Cover for servicing

④ Service window

⑤ Points to be noted when providing services

<Cautions for check operation>

- If operated within about 12 minutes after power supply has been applied to the indoor unit and outside unit, H2P will turn ON but the compressor does not start running. Before start operation, make sure that the LED display is correct referring to the table (6) of “11-3 Check operation”.
- The system may require up to 10 minutes until it can start the compressor after an operation start. This is a normal operation to equalize the refrigerant distribution.
- The check operation does not provide any means of checking the indoor units individually. For that purpose, perform normal operation using the remote controller after the check operation.
- Check operation is not possible in other modes such as collection mode.
- If the setting of indoor remote controller is changed before the check operation, it may not be performed correctly and malfunction code “UF” may be displayed.

Remote controller displays malfunction code

Malfunction code	Installation error	Remedial action
E3 E4 F3 F6 UF U2	The shutoff valve of an outside unit is left closed.	Open the shutoff valve.
U1	The phases of the power to the outside units are reversed.	Exchange two of the three phases (L1, L2, L3) to make a positive phase connection.
U1 U2 U4	No power is supplied to an outdoor or indoor unit (including phase interruption).	Check if the power wiring for the outside units are connected correctly. (If the power wire is not connected to L2 phase, no malfunction display will appear and the compressor will not work.)
UF	Incorrect transmission between units	Check if the refrigerant piping line and the unit transmission wiring are consistent with each other.
E3 F6 UF U2	Refrigerant overcharge	Recalculate the required amount of refrigerant from the piping length and correct the refrigerant charge level by recovering any excessive refrigerant with a refrigerant recovery machine.
E4 F3	Insufficient refrigerant	• Check if the additional refrigerant charge has been finished correctly. • Recalculate the required amount of refrigerant from the piping length and add an adequate amount of refrigerant.
U7 UF	If an outdoor multi terminal is connected when there is one outside unit installed	Remove the line from the outdoor multi terminals (Q1 and Q2).
UF E4	The operation mode on the remote controller was changed before the check operation.	Set the operation mode on all indoor unit remote controllers to “cooling.”
HJ	The heat source water is not circulating.	Make sure that the water pump is running.

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