DAIKIN

technical data

air conditioning systems

RY-EAZ7/RYP-B7

Pair Application

Split Sky Air

Split - Sky Air

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

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Specifications are subject to change without prior notice

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RY-EAZ7/RYP-B7

OPTIMISED DESIGN R-407C

1 Features

Outdoor units for pair application

- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall. They are fitted with either rotary or scroll compressor, renowned for low noise and high energy efficiency.
- A special acryl precoated fin for anti-corrosion treatment on the heat exchanger ensures greater resistance against severe weather conditions.

2 Specifications

TECHNICAL SPECIFICATIONS							
OUTDOOR UNITS				**RY35EAZ7V1**	**RY45EAZ7V1**	**RYP71B7V1/W1**	**RYP100B7V1/W1**
DIMENSIONS	Unit	H	mm	660	660	860	1,215
		W	mm	880	880	880	880
		D	mm	350	350	320	320
WEIGHT			kg	50	57	89/86	104/99
MATERIAL	Unit			Painted metal		Painted galvanised steel plate	
COLOUR	Unit			Ivory white			
SOUND LEVEL	Sound pressure (1) (cooling/heating)	high	dBA	46/48	47/48	50/52	53/56
	Sound power (2) (cooling/heating)		dBA	59/60	60/61	63/-	66/-
FAN	Air flow rate (cooling)	high	m^3/min	36	31	51	94
	Air flow rate (heating)	high	m^3/min	32	28	46	82/85
	Speed	steps		2 steps	2 steps	3 steps	3 steps
		high	rpm	610	610	–	–
		low	rpm	350	350	–	–
	Qty x model			1x19TFB6062	1x19TFB6062	1xP47L11S	2xP47L11S
	Qty x motor output		W	1 x 30	1 x 30	1 x 80	1 x (80+85)
HEAT EXCHANGER	Type			Hi-XA U-cooling tube, WL fin		Hi-XA U-cooling tube, non symm. waffle louvre	
	Rows x stages x fin pitch		mm	1 x 24 x 2.0	2 x 24 x 2.0	2 x 38 x 2.0	2 x 54 x 2.0
	Face area		m^2	0.513	0.481	0.719	1.022
REFRIGERANT CIRCUIT	Refrigerant type			R-407C	R-407C	R-407C	R-407C
	Refrigerant charge		kg	1.1	2.0	3.1	3.6
	Maximum allowable distance between indoor and outdoor		m	20	25	70	70
	Maximum allowable level difference		m	15	15	30	30
	Additional refrigerant charge		g/m	30 g/m for total piping length > 10 m		45 g/m for total piping length > 30 m	70 g/m for total piping length > 30 m
	No. of circuits			max. 1	max. 1	–	–
	Refrigerant control			–	–	Expansion valve (electronic type)	
COMPRESSOR	Type			Hermetically sealed swing type		Hermetically sealed scroll type	
	Qty x model			1x1YC43BTV1	1xYC56ATV1N	1xJT90FA-V1N/ 1xJT90FA-YE	1xJT125FA-V1N/ 1xJT125FA-YE
	Motor output x no			1,300 x 1	1,700 x 1	2,200 x 1	3,000 x 1
	No. of cylinders			1	1	–	–
	Speed		rpm	2,850	2,860	–	–
	Oil type			FVC68D+HAB15D	FVC68D+HAB15D	DAPHNE FVC68D	
	Oil charge volume		ℓ	0.85	0.85	1.2	1.5
PIPING CONNECTIONS		liquid	mm	ϕ6.4	ϕ6.4	ϕ9.5	ϕ9.5
		gas	mm	ϕ12.7	ϕ12.9	ϕ15.9	ϕ19.1
		drain	mm	ϕ18 x 3	ϕ18 x 3	ϕ26	ϕ26 x 3
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes			
	Safety devices			-	-	High and low pressure switch, thermal protector for indoor and outdoor fan motor, overcurrent relay (compressor), reverse phase protection (W1/T1) fuse.	

3TW01321-1D
3TW01331-1B
3TW23311-1
3TW23321-1
3TW23361-1
3TW23371-1

2 Specifications

TECHNICAL SPECIFICATIONS						
OUTDOOR UNITS				**RYP125B7W1**	**RYP200B7W1**	**RYP250B7W1**
DIMENSIONS	Unit	H	mm	1,215	1,220	1,440
		W	mm	880	1,290	1,290
		D	mm	320	700	700
WEIGHT			kg	102	196	210
MATERIAL	Unit			Painted galvanised steel plate		
COLOUR	Unit			Ivory white		
SOUND LEVEL	Sound pressure (1) (cooling/heating)	high	dBA	53/56	57/57	57/57
	Sound power (2) (cooling/heating)		dBA	67/-	77/78	77/78
FAN	Air flow rate (cooling)	high	m3/min	94	170	175
	Air flow rate (heating)	high	m^3/min	85	–	–
	Speed	steps		3 steps	1 step	1 step
	Qty x model			2xP47L11S	1xP55J11F	1xP55J11F
	Qty x motor output		W	1x(80+85)	1x(230+190)	1x(230+190)
HEAT EXCHANGER	Type			Hi-XA cooling tube, non symm. waffle louvre	ϕ 8 Hi-XA tube assymetric louvre	
	Rows x stages x fin pitch		mm	2x 54 x 2.0	2 x 40 x 2.0	2 x 50 x 2.0
	Face area		m^2	1.022	1.57	1.97
REFRIGERANT CIRCUIT	Refrigerant type			R-407C	R-407C	R-407C
	Refrigerant charge		kg	3.9	7.5	9.2
	Maximum allowable distance between indoor and outdoor		m	70	50 (70 m equivalent)	50 (70 m equivalent)
	Maximum allowable level difference		m	30	30	30
	Additional refrigerant charge		g/m	70 g/m for total piping length > 30 m	100 g/m for total piping length > 30 m	140 g/m for total piping length > 30 m
	Refrigerant control		–	Expansion valve (electronic type)	Expansion valve	
COMPRESSOR	Type			Hermetically sealed scroll type		
	Qty x model			1xJT160FA-YE	1xJT236DA-YE@2	1xJT300DA-YE@2
	Motor output x no			3,750 x 1	5,500 x 1	7,500 x 1
	Speed		rpm	–	2,900	2,900
	Oil type			DAPHNE FVC68D		
	Oil charge volume		ℓ	1.5	4	4
	Crankcase heater		W	–	50	72
PIPING CONNECTIONS		liquid	mm	ϕ9.5	ϕ12.7 x 0.90	ϕ15.9 x 0.95
		gas	mm	ϕ19.1	ϕ28.6 x 1.15	ϕ28.6 x 1.15
		drain	mm	ϕ26 x 3	ϕ26 x 6	ϕ26 x 6
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes		
	Safety devices			High and low pressure switch, thermal protector for indoor and outdoor fan motor, overcurrent relay (compressor), reverse phase protector, fuse	High and low pressure switch, thermal protection for indoor and outdoor fan motor, fuse, overcurrent relay (compressor), reserve phase protection, compr. Thermal protection	

3TW23401-1
3TW23631-1A
3TW23641-1A

2 Specifications

ELECTRICAL SPECIFICATIONS							
OUTDOOR UNITS				**RY35EAZ7V1**	**RY45EAZ7V1**	**RYP71B7V1/W1**	**RYP100B7V1/W1**
CURRENT	Nominal running current	cooling/heating	A	6.9/6.4	9.1/8.8	Please refer to electrical data	
	Max. running current	cooling/heating	A	Please refer to electrical data			
	Starting current	cooling/heating	A	34/34	42/42	Please refer to electrical data	
POWER SUPPLY				V1	V1	V1/W1	V1/W1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~/3N~	1~/3N~
	Frequency		Hz	50	50	50	50
	Voltage		V	230	230	230 / 400	230 / 400

ELECTRICAL SPECIFICATIONS						
OUTDOOR UNITS				**RYP125B7W1**	**RYP200B7W1**	**RYP250B7W1**
CURRENT	Nominal running current	cooling/heating	A	Please refer to electrical data	14.4	17.2
	Max. running current	cooling/heating	A	Please refer to electrical data		
	Starting current	cooling/heating	A	Please refer to electrical data		
POWER SUPPLY				W1	W1	W1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			3N~	3N~	3N~
	Frequency		Hz	50	50	50
	Voltage		V	400	400	400

NOTES

1 The sound pressure level is measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 8 of this chapter.

2 The sound power level is an absolute value indicating the "power" which a sound source generates.

2 Specifications

ELECTRICAL DATA

RY35EAZ7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
–	FHY35GZ7V1	50-220 50-230 50-240	MAX. 264V MIN. 198V	7.7	–	15.0	34	5.7	30	0.3	57	0.3
–	FHYB35GZ7V1	50-220 50-230 50-240	MAX. 264V MIN. 198V	7.9	–	15.0	34	5.7	30	0.3	65	0.5

3TW01321-3B

RY45EAZ7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
–	FHY45GZ7V1	50-220 50-230 50-240	MAX. 264V MIN. 198V	10.7	–	20.0	42	8.0	30	0.3	57	0.3
–	FHYB45GZ7V1	50-220 50-230 50-240	MAX. 264V MIN. 198V	11.0	–	20.0	42	8.0	30	0.3	85	0.7

3TW01331-3B

SYMBOLS

MCA : Min. Circuit Amps
TOCA : Total Over Current Amps
MFA : Max. Fuse Amps
LRA : Locked Rotor Amps
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps
KW : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19.0°CWB
2. TOCA means the total value of each OC set
3. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
   MCA = 1.25 x RLA + ea. FLA + 1.25 x EH FLA
   MFA < 2.25 x RLA + ea. FLA + 2.25 x EH FLA
   (next lower standard fuse rating, min.15A)

2 Specifications

ELECTRICAL DATA

RYP71B7

Unit combination		Power supply					Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYC71/FUY71	RYP71B7V1	50-230	Max. 50Hz-264V Min. 50Hz-198V	16.4	23.4	32	71.3	12.1	0.075	0.7	0.045	0.6
FHY71	RYP71B7V1	50-230		16.4	23.4	32	71.3	12.1	0.075	0.7	0.062	0.6
FHYK71	RYP71B7V1	50-230		16.3	23.3	32	71.3	12.1	0.075	0.7	0.045	0.5
FAY71	RYP71B7V1	50/230		16.1	13.1	32	71.3	12.1	0.075	0.7	0.046	0.3
FHYB71	RYP71B7V1	50-230		16.7	23.7	32	71.3	12.1	0.075	0.7	0.125	0.9
FHYCP71/FUYP71	RYP71B7W1	50-400/230	Max. 50Hz-440/253V Min. 50Hz-360/197V	7.1	11.3	16	34.8	4.6	0.075	0.7	0.045	0.6
FHYP71	RYP71B7W1	50-400/230		7.1	11.3	16	34.8	4.6	0.075	0.7	0.062	0.6
FHYKP71	RYP71B7W1	50-400/230		7.0	11.2	16	34.8	4.6	0.075	0.7	0.045	0.5
FAYP71	RYP71B7W1	50-400/230		6.8	11.0	16	34.8	4.6	0.075	0.7	0.046	0.3
FHYBP71	RYP71B7W1	50-400/230		7.4	11.6	16	34.8	4.6	0.075	0.7	0.125	0.9

3TW23209-2A

SYMBOLS

MCA : Min. Circuit Amps
TOCA : Total Over Current Amps
MFA : Max. Fuse Amps (see note 7)
LRA : Locked Rotor Amps
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps
KW : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19,5°CWB
   Outdoor temp. : 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
   MCA = 1,25 x RLA + all FLA, MFA =< 2,25 x RLA + all FLA
   (next lower standard fuse rating Min. P30)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker

2 Specifications

ELECTRICAL DATA

RYP100B7

Unit combination		Power supply					Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYCP100/FUYP100	RYP100B7V1	50-230	Max. 50Hz-264V Min. 50Hz-198V	24.8	35.7	40	96.7	17.8	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHYP100	RYP100B7V1	50-230		24.5	35.6	40	96.7	17.8	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FAYP100	RYP100B7V1	50-230		24.2	35.3	40	96.7	17.8	0.085 + 0.08	0.84 + 0.7	0.049	0.4
FHYBP100	RYP100B7V1	50-230c;1		24.8	35.8	40	96.7	17.8	0.085 + 0.08	0.84 + 0.7	0.135	1.0
FHYCP100/FUYP100	RYP100B7W1	50-400/230	Max. 50Hz-440/253V Min. 50Hz-360/197V	10.7	12.8	16	45.5	6.5	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHYP100	RYP100B7W1	50-400/230		10.4	12.5	16	45.5	6.5	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FAYP100	RYP100B7W1	50-400/230		10.1	12.2	16	45.5	6.5	0.085 + 0.08	0.84 + 0.7	0.049	0.4
FHYBP100	RYP100B7W1	50-400/230		10.7	12.8	16	45.5	6.5	0.085 + 0.08	0.84 + 0.7	0.135	1.0

3TW23249-2A

SYMBOLS

MCA : Min. Circuit Amps
TOCA : Total Over Current Amps
MFA : Max. Fuse Amps (see note 7)
LRA : Locked Rotor Amps
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps
KW : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19,5°CWB
   Outdoor temp. : 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
   MCA = 1,25 x RLA + all FLA, MFA =< 2,25 x RLA + all FLA
   (next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker

2 Specifications

ELECTRICAL DATA

RYP125B7

Unit combination		Power supply					Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYCP125/FUYP125	RYP125B7W1	50-400/230	Max. 50Hz-456V/264V Min. 50Hz-342V/198V	12.7	16.0	20	57.3	8.1	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHYP125	RYP125B7W1	50-400/230		12.4	15.7	20	57.3	8.1	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FDYP125	RYP125B7W1	50-400/230		15.9	19.2	20	57.3	8.1	0.085 + 0.08	0.84 + 0.7	0.5	4.2
FHYBP125	RYP125B7W1	50-400/230		13.1	16.4	20	57.3	8.1	0.085 + 0.08	0.84 + 0.7	0.225	1.4

3TW23279-2

SYMBOLS

MCA : Min. Circuit Amps
TOCA : Total Over Current Amps
MFA : Max. Fuse Amps (see note 7)
LRA : Locked Rotor Amps
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps
KW : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19,5°CWB
   Outdoor temp. : 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
   MCA = 1,25 x RLA + all FLA, MFA = < 2,25 x RLA + all FLA (next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker

RYP200-250B7

Unit combination		Power supply				Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	LRA	RLA	kW	FLA	kW	FLA
FDYP200B7V1	RYP200B7W1	50-400	Min. 360V Max. 440V	19.0	25 (Outdoor) + 16 (Indoor)	98	12.9	0.19 + 0.23	1.28 + 1.43	650	6.8
FDYP250B7V1	RYP250B7W1	50-400	Min. 360V Max. 440V	22.9	32 (Outdoor) + 16 (Indoor)	108	16.0	0.19 + 0.23	1.28 + 1.43	1,000	7.6

3TW23611-2

SYMBOLS

MCA : Min. Circuit Amps
MFA : Max. Fuse Amps
LRA : Locked Rotor Amps
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps
KW : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
3. Maximum allowable voltage unbalance between phases is 2%.
4. MCA/MFA
   MCA = 1.25 x RLA + ea FLA
   MFA = <2.25 x RLA + ea FLA
   (next lower standard fuse rating min 16A)
5. Select wire size based on the larger value of MCA or TOCA
6. Instead of fuse, use circuit breaker

3 Capacity tables

RY35EAZ7V1 + FHY35 or FHYC35 or FHYB35

Model	FHY	FHYB	FHYC
AFR	13	11.5	14
BF	0.15	0.15	0.16

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			32			35			40			43		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12.0	18.0	3.50	2.44	1.13	3.35	2.37	1.22	3.14	2.27	1.36	3.05	2.22	1.41	2.90	2.15	1.51	2.72	2.07	1.63
14.0	20.0	3.66	2.47	1.15	3.51	2.40	1.25	3.30	2.30	1.38	3.21	2.26	1.44	3.06	2.19	1.54	2.88	2.10	1.65
16.0	22.0	3.82	2.50	1.18	3.67	2.43	1.28	3.46	2.33	1.41	3.37	2.29	1.47	3.22	2.22	1.57	3.04	2.13	1.68
18.0	25.0	3.97	2.54	1.21	3.82	2.47	1.30	3.61	2.37	1.44	3.52	2.32	1.50	3.37	2.25	1.59	3.19	2.17	1.71
19.0	27.0	4.05	2.55	1.22	3.90	2.48	1.32	3.69	2.38	1.45	3.60	2.34	1.51	3.45	2.27	1.61	3.27	2.18	1.72
22.0	30.0	4.29	2.60	1.26	4.14	2.53	1.36	3.93	2.43	1.49	3.84	2.39	1.55	3.69	2.32	1.65	3.51	2.23	1.76
24.0	32.0	4.44	2.64	1.29	4.29	2.57	1.39	4.08	2.47	1.52	3.99	2.42	1.58	3.84	2.35	1.67	3.66	2.27	1.79

3

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.34 x 60 x AFR (m^3/min) x (DB-EDB)/1000.
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Add the following correction value to power input (kW) of each unit

Model	FHYB
35	0.13

RY35EAZ7V1 + FHY35 or FHYC35 or FHYB35

Model	FHY	FHYB	FHYC
AFR	13	11.5	14

Heating capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)											
EWB	EDB	–10		–6		0		6		10		15	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
9.0	16.0	2.59	1.23	3.08	1.28	3.58	1.34	4.17	1.41	4.57	1.45	5.06	1.51
11.0	18.0	2.55	1.25	3.05	1.31	3.54	1.37	4.14	1.43	4.53	1.48	5.02	1.53
12.0	20.0	2.52	1.28	3.01	1.34	3.51	1.39	4.10	1.46	4.50	1.51	4.99	1.56
13.0	21.0	2.50	1.29	3.00	1.35	3.49	1.41	4.08	1.47	4.48	1.52	4.97	1.57
14.0	22.0	2.48	1.31	2.98	1.36	3.47	1.42	4.07	1.49	4.46	1.53	4.95	1.59
15.0	24.0	2.45	1.33	2.94	1.39	3.44	1.45	4.03	1.51	4.43	1.56	4.92	1.62

3TW01322-1F

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
   outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB
4. Direct interpolation is permissible. Do not extrapolate.

3 Capacity tables

RY45EAZ7V1 + FHY45 or FHYC45 or FHYB45

Model	FHY	FHYC	FHYB
AFR	13	14	14
BF	0.16	0.12	0.16

Cooling capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			32			35			40			43		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12.0	18.0	4.57	3.21	1.41	4.36	3.13	1.57	4.06	3.03	1.80	3.94	2.98	1.90	3.73	2.91	2.06	3.48	2.82	2.26
14.0	20.0	4.84	3.27	1.45	4.63	3.19	1.61	4.34	3.09	1.84	4.21	3.04	1.94	4.00	2.97	2.10	3.75	2.88	2.30
16.0	22.0	5.12	3.33	1.49	4.91	3.25	1.65	4.61	3.15	1.88	4.49	3.10	1.98	4.28	3.03	2.14	4.03	2.94	2.34
18.0	25.0	5.39	3.39	1.53	5.18	3.31	1.69	4.89	3.21	1.92	4.76	3.16	2.02	4.55	3.09	2.18	4.30	3.00	2.38
19.0	27.0	5.53	3.42	1.55	5.32	3.34	1.71	5.03	3.24	1.94	4.90	3.19	2.04	4.69	3.12	2.20	4.44	3.03	2.40
22.0	30.0	5.94	3.51	1.61	5.73	3.43	1.77	5.44	3.33	2.00	5.31	3.28	2.10	5.10	3.21	2.26	4.85	3.12	2.46
24.0	32.0	6.22	3.57	1.65	6.01	3.49	1.81	5.71	3.39	2.04	5.59	3.34	2.14	5.38	3.27	2.30	5.13	3.18	2.50

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.34 x 60 x AFR (m^3/min) x (DB-EDB)/1000.
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Add the following correction value to power input (kW) of each unit

Model	FHYB
45	0.05

RY45EAZ7V1 + FHY45 or FHYC45 or FHYB45

Model	FHY	FHYC	FHYB
AFR	14	14	14

Heating capacity **230V [50Hz]**

Indoor		Outdoor temperature (°C)											
EWB	EDB	–10		–6		0		6		10		15	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
9.0	16.0	3.61	1.62	4.22	1.69	4.83	1.76	5.56	1.85	6.05	1.90	6.65	1.97
11.0	18.0	3.58	1.65	4.19	1.72	4.80	1.79	5.53	1.88	6.02	1.94	6.62	2.01
12.0	20.0	3.55	1.68	4.16	1.75	4.77	1.83	5.50	1.91	5.99	1.97	6.60	2.04
13.0	21.0	3.54	1.70	4.15	1.77	4.75	1.84	5.49	1.93	5.97	1.98	6.58	2.05
14.0	22.0	3.52	1.72	4.13	1.79	4.74	1.86	5.47	1.94	5.96	2.00	6.57	2.07
15.0	24.0	3.49	1.75	4.10	1.82	4.71	1.89	5.44	1.97	5.93	2.03	6.54	2.10

3TW01332-1D

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
   outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB
4. Direct interpolation is permissible. Do not extrapolate.
5. Add the following correction value to power input (kW) of each unit

Model	FHYB
45	0.06

3 Capacity tables

RYP(71~100)B7V1 + FAYP(71~100)BV1
RYP(71~100)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EWB (°C)	Indoor EDB (°C)	Outdoor temperature (°CDB) 20 TC	20 SHC	20 PI	25 TC	25 SHC	25 PI	32 TC	32 SHC	32 PI	35 TC	35 SHC	35 PI	40 TC	40 SHC	40 PI	46 TC	46 SHC	46 PI
71	12.0	18.0	6.2	4.9	1.86	6.1	4.8	2.12	5.7	4.7	2.30	5.5	4.6	2.47	5.3	4.5	2.74	4.9	4.2	3.00
	14.0	20.0	6.6	4.9	1.94	6.5	4.8	2.21	6.0	4.7	2.39	5.9	4.6	2.47	5.5	4.5	2.74	5.3	4.2	3.00
	16.0	22.0	7.2	5.0	1.94	7.0	4.9	2.21	6.5	4.8	2.39	6.3	4.7	2.56	6.0	4.6	2.83	5.5	4.3	3.09
	18.0	25.0	7.7	5.2	2.03	7.5	5.0	2.21	7.2	4.9	2.47	6.8	4.8	2.65	6.4	4.6	2.83	6.0	4.5	3.18
	19.0	27.0	8.0	5.3	2.03	7.7	5.2	2.21	7.3	5.0	2.47	7.1	4.8	2.65	6.6	4.7	2.92	6.2	4.6	3.18
	19.5	27.0	8.0	5.3	2.03	7.9	5.2	2.21	7.4	5.0	2.47	7.2	4.8	2.65	6.7	4.7	2.92	6.3	4.6	3.18
	22.0	30.0	8.7	5.4	2.12	8.5	5.3	2.30	8.0	5.2	2.56	7.9	4.9	2.74	7.4	4.8	2.92	6.8	4.6	3.27
	24.0	32.0	9.4	5.4	2.12	9.1	5.3	2.30	8.6	5.2	2.65	8.4	5.0	2.74	8.0	4.8	3.00	7.4	4.6	3.36
100	12.0	18.0	8.3	7.2	2.49	8.3	7.1	2.77	8.1	6.9	3.14	7.8	6.8	3.33	7.5	6.4	3.69	6.9	6.2	4.06
	14.0	20.0	8.9	7.2	2.59	8.8	7.1	2.77	8.6	6.9	3.14	8.3	6.8	3.33	7.8	6.4	3.69	7.5	6.2	4.06
	16.0	22.0	10.1	7.3	2.59	9.8	7.2	2.86	9.1	7.0	3.23	8.9	6.9	3.42	8.4	6.5	3.79	7.8	6.3	4.16
	18.0	25.0	10.8	7.6	2.68	10.5	7.5	2.86	9.8	7.1	3.23	9.6	7.0	3.42	9.0	6.8	3.79	8.3	6.4	4.25
	19.0	27.0	11.1	7.7	2.68	10.8	7.6	2.96	10.1	7.2	3.33	10.0	7.1	3.51	9.4	6.9	3.88	8.6	6.5	4.34
	19.5	27.0	11.2	7.7	2.68	11.0	7.6	2.96	10.3	7.2	3.33	10.1	7.1	3.51	9.5	6.9	3.88	8.8	6.5	4.34
	22.0	30.0	12.2	7.8	2.77	11.8	7.7	2.96	11.2	7.3	3.42	11.0	7.2	3.60	10.4	7.1	3.97	9.6	6.8	4.43
	24.0	32.0	13.0	7.9	2.86	12.7	7.8	3.05	11.9	7.5	3.51	11.7	7.3	3.69	11.1	7.2	4.06	10.3	6.9	4.53

3TW23312-6

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   = 0.29 x 60 x AFR(m^3/min) x (1-BF) x (DB°-EDB)/860
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model		FAYP
71	AFR	19
	BF	0.1
100	AFR	23
	BF	0.1

7. Add the following correction value to power input (kW) of each unit

Model	PI	FAYP
71	V1	0.1
	W1	0
100	V1	0.2
	W1	0

3 Capacity tables

RYP(71~100)B7V1 + FAYP(71~100)BV1
RYP(71~100)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16	6.0	2.40	6.5	2.45	7.1	2.45	7.8	2.53	8.3	2.53	-	-
	18	6.0	2.36	6.5	2.45	7.1	2.53	7.7	2.62	8.3	2.62	-	-
	20	6.0	2.45	6.5	2.53	7.0	2.62	7.7	2.62	8.2	2.71	8.9	2.8
	21	6.0	2.53	6.5	2.53	7.0	2.62	7.7	2.71	8.2	2.79	8.9	2.9
	22	6.0	2.53	6.5	2.62	7.0	2.71	7.7	2.79	8.2	2.79	8.8	2.9
	24	6.0	2.62	6.5	2.71	7.0	2.79	7.6	2.88	8.2	2.88	8.8	3.0
100	16	8.4	3.50	9.1	3.57	10.0	3.68	11.0	3.78	11.6	3.89	-	-
	18	8.3	3.57	9.0	3.68	10.0	3.78	10.9	3.89	11.6	4.00	-	-
	20	8.3	3.68	9.0	3.78	9.8	3.89	10.8	4.00	11.5	4.11	12.5	4.2
	21	8.3	3.78	8.9	3.89	9.8	4.00	10.8	4.11	11.5	4.22	12.5	4.3
	22	8.3	3.89	8.9	4.00	9.8	4.11	10.8	4.22	11.5	4.32	12.4	4.4
	24	8.2	4.00	8.9	4.11	9.6	4.22	10.6	4.32	11.3	4.43	12.4	4.5

3TW23312-13A

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
4. Direct interpolation is permissible. Do not extrapolate.
5. Air flow rate and BF are tabulated below.

Model		FAYP
71	AFR	19
	BF	0.1
100	AFR	23
	BF	0.1

6. Add the following correction value to power input (kW) of each unit

Model	PI	FAYP
71	V1	0.2
	W1	0
100	V1	0.3
	W1	0

3 Capacity tables

RYP71B7V1 + FHYKP71BV1
RYP71B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.9	1.83	6.1	4.8	2.10	5.7	4.7	2.27	5.5	4.6	2.45	5.3	4.5	2.71	4.9	4.2	2.97
	14.0	20.0	6.6	4.9	1.92	6.5	4.8	2.18	6.0	4.7	2.36	5.9	4.6	2.45	5.5	4.5	2.71	5.3	4.2	2.97
	16.0	22.0	7.2	5.0	1.92	7.0	4.9	2.18	6.5	4.8	2.36	6.3	4.7	2.53	6.0	4.6	2.79	5.5	4.3	3.06
	18.0	25.0	7.7	5.2	2.01	7.5	5.0	2.18	7.2	4.9	2.45	6.8	4.8	2.62	6.4	4.6	2.79	6.0	4.5	3.14
	19.0	27.0	8.0	5.3	2.01	7.7	5.2	2.18	7.3	5.0	2.45	7.1	4.8	2.62	6.6	4.7	2.88	6.2	4.6	3.14
	19.5	27.0	8.0	5.3	2.01	7.9	5.2	2.18	7.4	5.0	2.45	7.2	4.8	2.62	6.7	4.7	2.88	6.3	4.6	3.14
	22.0	30.0	8.7	5.4	2.10	8.5	5.3	2.27	8.0	5.2	2.53	7.9	4.9	2.71	7.4	4.8	2.88	6.8	4.6	3.23
	24.0	32.0	9.4	5.4	2.10	9.1	5.3	2.27	8.6	5.2	2.62	8.4	5.0	2.71	8.0	4.8	2.97	7.4	4.6	3.32

3TW23312-7

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   = 0.29 x 60 x AFR(m^3/min) x (1-BF) x (DB°-EDB)/860
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model		FHYKP
71	AFR	17
	BF	0.07

7. Add the following correction value to power input (kW) of each unit

Model	PI	FHYKP
71	V1	0.2
	W1	0

3 Capacity tables

RYP71B7V1 + FHYKP71BV1
RYP71B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16	6.0	2.40	6.5	2.49	7.1	2.49	7.8	2.58	8.3	2.58	-	-
	18	6.0	2.40	6.5	2.49	7.1	2.58	7.7	2.67	8.3	2.67	-	-
	20	6.0	2.49	6.5	2.58	7.0	2.67	7.7	2.67	8.2	2.76	8.9	2.8
	21	6.0	2.58	6.5	2.58	7.0	2.67	7.7	2.76	8.2	2.85	8.9	2.9
	22	6.0	2.58	6.5	2.67	7.0	2.76	7.7	2.85	8.2	2.85	8.8	2.9
	24	6.0	2.67	6.5	2.76	7.0	2.85	7.6	2.94	8.2	2.94	8.8	3.0

3TW23312-14A

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
4. Direct interpolation is permissible. Do not extrapolate.
5. Air flow rate and BF are tabulated below.

Model		FHYKP
71	AFR	17
	BF	0.07

6. Add the following correction value to power input (kW) of each unit

Model	PI	FHYKP
71	V1	0.1
	W1	0

3 Capacity tables

RYP(71~100)B7V1 + FHYCP(71~125)B7V1
RYP(71~125)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EWB (°C)	Indoor EDB (°C)	Outdoor temperature (°CDB) 20 TC	20 SHC	20 PI	25 TC	25 SHC	25 PI	32 TC	32 SHC	32 PI	35 TC	35 SHC	35 PI	40 TC	40 SHC	40 PI	46 TC	46 SHC	46 PI
71	12.0	18.0	6.2	4.8	1.81	6.1	4.7	2.06	5.7	4.6	2.24	5.5	4.5	2.41	5.3	4.4	2.67	4.9	4.1	2.92
	14.0	20.0	6.6	4.8	1.89	6.5	4.7	2.15	6.0	4.6	2.32	5.9	4.5	2.41	5.5	4.4	2.67	5.3	4.1	2.92
	16.0	22.0	7.2	4.9	1.89	7.0	4.8	2.15	6.5	4.7	2.32	6.3	4.6	2.49	6.0	4.5	2.75	5.5	4.2	3.01
	18.0	25.0	7.7	5.1	1.98	7.5	4.9	2.15	7.2	4.8	2.41	6.8	4.7	2.58	6.4	4.5	2.75	6.0	4.4	3.10
	19.0	27.0	8.0	5.2	1.98	7.7	5.1	2.15	7.3	4.9	2.41	7.1	4.7	2.58	6.6	4.6	2.84	6.2	4.5	3.10
	19.5	27.0	8.0	5.2	1.98	7.9	5.1	2.15	7.4	4.9	2.41	7.2	4.7	2.58	6.7	4.6	2.84	6.3	4.5	3.10
	22.0	30.0	8.7	5.3	2.06	8.5	5.2	2.24	8.0	5.1	2.49	7.9	4.8	2.67	7.4	4.7	2.84	6.8	4.5	3.18
	24.0	32.0	9.4	5.3	2.06	9.1	5.2	2.24	8.6	5.1	2.58	8.4	4.9	2.67	8.0	4.7	2.92	7.4	4.5	3.27
100	12.0	18.0	8.3	7.0	2.52	8.3	6.9	2.80	8.1	6.7	3.18	7.8	6.6	3.36	7.5	6.2	3.74	6.9	6.0	4.11
	14.0	20.0	8.9	7.0	2.62	8.8	6.9	2.80	8.6	6.7	3.18	8.3	6.6	3.36	7.8	6.2	3.74	7.5	6.0	4.11
	16.0	22.0	10.1	7.1	2.62	9.8	7.0	2.90	9.1	6.8	3.27	8.9	6.7	3.46	8.4	6.3	3.83	7.8	6.1	4.20
	18.0	25.0	10.8	7.4	2.71	10.5	7.3	2.90	9.8	6.9	3.27	9.6	6.8	3.46	9.0	6.6	3.83	8.3	6.2	4.30
	19.0	27.0	11.1	7.5	2.71	10.8	7.4	2.99	10.1	7.0	3.36	10.0	6.9	3.55	9.4	6.7	3.92	8.6	6.3	4.39
	19.5	27.0	11.2	7.5	2.71	11.0	7.4	2.99	10.3	7.0	3.36	10.1	6.9	3.55	9.5	6.7	3.92	8.8	6.3	4.39
	22.0	30.0	12.2	7.6	2.80	11.8	7.5	2.99	11.2	7.1	3.46	11.0	7.0	3.64	10.4	6.9	4.02	9.6	6.6	4.48
	24.0	32.0	13.0	7.7	2.90	12.7	7.6	3.08	11.9	7.3	3.55	11.7	7.1	3.74	11.1	7.0	4.11	10.3	6.7	4.58
125	12.0	18.0	11.1	9.1	3.39	10.8	8.8	3.68	10.0	8.3	3.98	9.7	8.2	4.28	9.2	8.0	4.68	8.6	7.6	5.38
	14.0	20.0	11.8	9.1	3.48	11.4	8.8	3.68	10.7	8.3	4.08	10.4	8.2	4.38	9.8	8.0	4.78	9.2	7.6	5.38
	16.0	22.0	12.7	9.2	3.48	12.1	8.9	3.78	11.4	8.4	4.08	11.1	8.3	4.48	10.4	8.1	4.88	9.7	7.7	5.48
	18.0	25.0	13.3	9.5	3.58	13.0	9.1	3.78	12.1	8.7	4.18	11.8	8.6	4.58	11.2	8.3	4.98	10.4	8.0	5.48
	19.0	27.0	13.6	9.6	3.68	13.3	9.1	3.88	12.7	8.8	4.28	12.2	8.6	4.58	11.5	8.4	5.08	10.8	8.1	5.58
	19.5	27.0	13.8	9.6	3.68	13.5	9.1	3.88	12.8	8.8	4.28	12.4	8.7	4.58	11.7	8.4	5.08	11.0	8.1	5.58
	22.0	30.0	15.1	9.7	3.78	14.6	9.4	3.88	13.7	9.0	4.38	13.4	8.9	4.68	12.9	8.7	5.18	12.0	8.3	5.77
	24.0	32.0	15.9	9.8	3.78	15.5	9.5	3.98	14.6	9.1	4.48	14.3	9.0	4.78	13.6	8.8	5.28	12.9	8.6	5.87

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   = 0.29 x 60 x AFR(m^3/min) x (1-BF) x (DB°-EDB)/860
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model		FHYCP
71	AFR	19
	BF	0.1
100	AFR	28
	BF	0.16
125	AFR	33
	BF	0.07

7. Add the following correction value to power input (kW) of each unit

Model	PI	FHYCP
71	V1	0.04
	W1	0.00
100	V1	0.22
	W1	0.00
125	W1	0.00

3 Capacity tables

RYP(71~100)B7V1 + FHYCP(71~125)B7V1
RYP(71~125)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB) -10 TC	-10 PI	-5 TC	-5 PI	0 TC	0 PI	6 TC	6 PI	10 TC	10 PI	15 TC	15 PI
71	16	6.0	2.40	6.5	2.45	7.1	2.45	7.8	2.53	8.3	2.53	-	-
	18	6.0	2.36	6.5	2.45	7.1	2.53	7.7	2.62	8.3	2.62	-	-
	20	6.0	2.45	6.5	2.53	7.0	2.62	7.7	2.62	8.2	2.71	8.9	2.8
	21	6.0	2.53	6.5	2.53	7.0	2.62	7.7	2.71	8.2	2.79	8.9	2.9
	22	6.0	2.53	6.5	2.62	7.0	2.71	7.7	2.79	8.2	2.79	8.8	2.9
	24	6.0	2.62	6.5	2.71	7.0	2.79	7.6	2.88	8.2	2.88	8.8	3.0
100	16	8.7	3.20	9.5	3.30	10.3	3.40	11.4	3.50	12.1	3.60	-	-
	18	8.6	3.30	9.4	3.40	10.3	3.50	11.3	3.60	12.1	3.70	-	-
	20	8.6	3.40	9.4	3.50	10.1	3.60	11.2	3.70	12.0	3.80	12.9	3.9
	21	8.6	3.50	9.3	3.60	10.1	3.70	11.2	3.80	11.9	3.90	12.9	4.0
	22	8.6	3.60	9.3	3.70	10.1	3.80	11.2	3.90	11.9	4.00	12.8	4.1
	24	8.5	3.70	9.3	3.80	9.9	3.90	11.0	4.00	11.7	4.10	12.8	4.2
125	16	11.3	3.90	12.2	4.08	13.2	4.18	14.4	4.28	15.3	4.47	-	-
	18	11.3	3.99	12.2	4.18	13.2	4.28	14.3	4.47	15.2	4.57	-	-
	20	11.3	4.08	12.0	4.28	13.1	4.38	14.3	4.57	15.2	4.76	16.7	4.9
	21	11.3	4.18	12.0	4.38	13.1	4.57	14.3	4.67	15.1	4.76	16.4	5.0
	22	11.3	4.28	12.0	4.47	13.1	4.57	14.3	4.76	15.1	4.86	16.4	5.1
	24	11.1	4.38	12.0	4.57	13.0	4.76	14.2	4.86	15.1	5.06	16.1	5.3

3TW23312-9C

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ☐ Shows nominal capacities
3. Capacities are based on the following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
4. Direct interpolation is permissible. Do not extrapolate.
5. Air flow rate and BF are tabulated below.

Model		FHYCP
71	AFR	19
	BF	0.1
100	AFR	28
	BF	0.16
125	AFR	33
	BF	0.07

6. Add the following correction value to power input (kW) of each unit

Model	PI	FHYCP
71	V1	0.04
	W1	0
100	V1	0.22
	W1	0
125	W1	0

3 Capacity tables

RYP(71~100)B7V1 + FHYBP(71~125)B7V1
RYP(71~125)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EWB (°C)	Indoor EDB (°C)	Outdoor temperature (°CDB) 20 TC	20 SHC	20 PI	25 TC	25 SHC	25 PI	32 TC	32 SHC	32 PI	35 TC	35 SHC	35 PI	40 TC	40 SHC	40 PI	46 TC	46 SHC	46 PI
71	12.0	18.0	6.2	4.8	1.89	6.1	4.7	2.16	5.7	4.6	2.34	5.5	4.5	2.52	5.3	4.4	2.79	4.9	4.1	3.06
	14.0	20.0	6.6	4.8	1.98	6.5	4.7	2.25	6.0	4.6	2.43	5.9	4.5	2.52	5.5	4.4	2.79	5.3	4.1	3.06
	16.0	22.0	7.2	4.9	1.98	7.0	4.8	2.25	6.5	4.7	2.43	6.3	4.6	2.61	6.0	4.5	2.88	5.5	4.2	3.15
	18.0	25.0	7.7	5.1	2.07	7.5	4.9	2.25	7.2	4.8	2.52	6.8	4.7	2.70	6.4	4.5	2.88	6.0	4.4	3.24
	19.0	27.0	8.0	5.2	2.07	7.7	5.1	2.25	7.3	4.9	2.52	7.1	4.7	2.70	6.6	4.6	2.97	6.2	4.5	3.24
	19.5	27.0	8.0	5.2	2.07	7.9	5.1	2.25	7.4	4.9	2.52	7.2	4.7	2.70	6.7	4.6	2.97	6.3	4.5	3.24
	22.0	30.0	8.7	5.3	2.16	8.5	5.2	2.34	8.0	5.1	2.61	7.9	4.8	2.79	7.4	4.7	2.97	6.8	4.5	3.33
	24.0	32.0	9.4	5.3	2.16	9.1	5.2	2.34	8.6	5.1	2.70	8.4	4.9	2.79	8.0	4.7	3.06	7.4	4.5	3.42
100	12.0	18.0	8.3	7.0	2.52	8.3	6.9	2.80	8.1	6.7	3.18	7.8	6.6	3.36	7.5	6.2	3.74	6.9	6.0	4.11
	14.0	20.0	8.9	7.0	2.62	8.8	6.9	2.80	8.6	6.7	3.18	8.3	6.6	3.36	7.8	6.2	3.74	7.5	6.0	4.11
	16.0	22.0	10.1	7.1	2.62	9.8	7.0	2.90	9.1	6.8	3.27	8.9	6.7	3.46	8.4	6.3	3.83	7.8	6.1	4.20
	18.0	25.0	10.8	7.4	2.71	10.5	7.3	2.90	9.8	6.9	3.27	9.6	6.8	3.46	9.0	6.6	3.83	8.3	6.2	4.30
	19.0	27.0	11.1	7.5	2.71	10.8	7.4	2.99	10.1	7.0	3.36	10.0	6.9	3.55	9.4	6.7	3.92	8.6	6.3	4.39
	19.5	27.0	11.2	7.5	2.71	11.0	7.4	2.99	10.3	7.0	3.36	10.1	6.9	3.55	9.5	6.7	3.92	8.8	6.3	4.39
	22.0	30.0	12.2	7.6	2.80	11.8	7.5	2.99	11.2	7.1	3.46	11.0	7.0	3.64	10.4	6.9	4.02	9.6	6.6	4.48
	24.0	32.0	13.0	7.7	2.90	12.7	7.6	3.08	11.9	7.3	3.55	11.7	7.1	3.74	11.1	7.0	4.11	10.3	6.7	4.58
125	12.0	18.0	11.1	9.1	3.39	10.8	8.8	3.68	10.0	8.3	3.98	9.7	8.2	4.28	9.2	8.0	4.68	8.6	7.6	5.38
	14.0	20.0	11.8	9.1	3.48	11.4	8.8	3.68	10.7	8.3	4.08	10.4	8.2	4.38	9.8	8.0	4.78	9.2	7.6	5.38
	16.0	22.0	12.7	9.2	3.48	12.1	8.9	3.78	11.4	8.4	4.08	11.1	8.3	4.48	10.4	8.1	4.88	9.7	7.7	5.48
	18.0	25.0	13.3	9.5	3.58	13.0	9.1	3.78	12.1	8.7	4.18	11.8	8.6	4.58	11.2	8.3	4.98	10.4	8.0	5.48
	19.0	27.0	13.6	9.6	3.68	13.3	9.1	3.88	12.7	8.8	4.28	12.2	8.6	4.58	11.5	8.4	5.08	10.8	8.1	5.58
	19.5	27.0	13.8	9.6	3.68	13.5	9.1	3.88	12.8	8.8	4.28	12.4	8.7	4.58	11.7	8.4	5.08	11.0	8.1	5.58
	22.0	30.0	15.1	9.7	3.78	14.6	9.4	3.88	13.7	9.0	4.38	13.4	8.9	4.68	12.9	8.7	5.18	12.0	8.3	5.77
	24.0	32.0	15.9	9.8	3.78	15.5	9.5	3.98	14.6	9.1	4.48	14.3	9.0	4.78	13.6	8.8	5.28	12.9	8.6	5.87

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   = 0.29 x 60 x AFR(m^3/min) x (1-BF) x (DB°-EDB)/860
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model		FHYBP
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2
125	AFR	35
	BF	0.14

7. Add the following correction value to power input (kW) of each unit

Model	PI	FHYBP
71	V1	0.04
	W1	0.00
100	V1	0.17
	W1	0.00
125	W1	0.00

3 Capacity tables

RYP(71~100)B7V1 + FHYBP(71~125)B7V1
RYP(71~125)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16	6.0	2.20	6.5	2.24	7.1	2.24	7.8	2.32	8.3	2.32	-	-
	18	6.0	2.16	6.5	2.24	7.1	2.32	7.7	2.40	8.3	2.40	-	-
	20	6.0	2.24	6.5	2.32	7.0	2.40	7.7	2.40	8.2	2.48	8.9	2.6
	21	6.0	2.32	6.5	2.32	7.0	2.40	7.7	2.48	8.2	2.56	8.9	2.6
	22	6.0	2.32	6.5	2.40	7.0	2.48	7.7	2.56	8.2	2.56	8.8	2.6
	24	6.0	2.40	6.5	2.48	7.0	2.56	7.6	2.64	8.2	2.64	8.8	2.7
100	16	8.7	3.30	9.5	3.36	10.3	3.46	11.4	3.57	12.1	3.67	-	-
	18	8.6	3.36	9.4	3.46	10.3	3.57	11.3	3.67	12.1	3.77	-	-
	20	8.6	3.46	9.4	3.57	10.1	3.67	11.2	3.77	12.0	3.87	12.9	4.0
	21	8.6	3.57	9.3	3.67	10.1	3.77	11.2	3.87	11.9	3.97	12.9	4.1
	22	8.6	3.67	9.3	3.77	10.1	3.87	11.2	3.97	11.9	4.08	12.8	4.2
	24	8.5	3.77	9.3	3.87	9.9	3.97	11.0	4.08	11.7	4.18	12.8	4.3
125	16	11.4	3.70	12.4	3.91	13.4	4.01	14.6	4.10	15.5	4.29	-	-
	18	11.4	3.82	12.4	4.01	13.4	4.10	14.5	4.29	15.5	4.38	-	-
	20	11.4	3.91	12.2	4.10	13.3	4.19	14.5	4.38	15.5	4.57	16.9	4.7
	21	11.4	4.01	12.2	4.19	13.3	4.38	14.5	4.47	15.4	4.57	16.6	4.8
	22	11.4	4.10	12.2	4.29	13.3	4.38	14.5	4.57	15.4	4.66	16.6	4.8
	24	11.3	4.19	12.2	4.38	13.2	4.57	14.4	4.66	15.4	4.85	16.3	5.0

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
4. Direct interpolation is permissible. Do not extrapolate.
5. Air flow rate and BF are tabulated below.

Model		FHYBP
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2
125	AFR	35
	BF	0.14

6. Add the following correction value to power input (kW) of each unit

Model	PI	FHYBP
71	V1	0.04
	W1	0
100	V1	0.17
	W1	0
125	W1	0

3 Capacity tables

RYP125B7W1 + FDYP125B7V1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB	EDB	20			25			32			35			40			46		
	(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
125	12.0	18.0	11.2	10.5	3.47	10.9	10.1	3.78	10.2	9.6	4.09	9.9	9.5	4.39	9.4	9.2	4.80	8.7	8.8	5.52
	14.0	20.0	12.0	10.5	3.58	11.6	10.1	3.78	10.9	9.6	4.19	10.6	9.5	4.50	10.0	9.2	4.90	9.4	8.8	5.52
	16.0	22.0	12.9	10.6	3.58	12.3	10.2	3.88	11.6	9.7	4.19	11.2	9.6	4.60	10.6	9.4	5.01	9.9	8.9	5.62
	18.0	25.0	13.6	10.9	3.68	13.2	10.5	3.88	12.3	10.0	4.29	12.0	9.9	4.70	11.3	9.6	5.11	10.6	9.2	5.62
	19.0	27.0	13.9	11.0	3.78	13.6	10.5	3.98	12.9	10.1	4.39	12.4	9.9	4.70	11.7	9.7	5.21	10.9	9.4	5.72
	19.5	27.0	14.0	11.0	3.78	13.8	10.5	3.98	13.0	10.1	4.39	12.6	10.0	4.70	11.9	9.7	5.21	11.1	9.4	5.72
	22.0	30.0	15.3	11.2	3.88	14.8	10.8	3.98	14.0	10.3	4.50	13.7	10.2	4.80	13.1	10.0	5.31	12.2	9.6	5.93
	24.0	32.0	16.2	11.3	3.88	15.8	10.9	4.09	14.8	10.5	4.60	14.5	10.3	4.90	13.9	10.1	5.42	13.1	9.9	6.03

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3

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   = 0.29 x 60 x AFR(m^3/min) x (1-BF) x (DB°-EDB)/860
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model		FHYBP
125	AFR	45
	BF	0.25

3 Capacity tables

RYP125B7W1 + FDYP125B7V1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor	Outdoor temperature (°CDB)											
	EDB	-10		-5		0		6		10		15	
	(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
125	16.0	11.5	3.84	12.5	4.03	13.4	4.13	14.7	4.22	15.7	4.41	-	-
	18.0	11.5	3.93	12.5	4.13	13.4	4.22	14.6	4.41	15.6	4.51	-	-
	20.0	11.5	4.03	12.3	4.22	13.4	4.32	14.6	4.51	15.6	4.70	17.0	4.80
	21.0	11.5	4.13	12.3	4.32	13.4	4.51	14.6	4.61	15.5	4.70	16.7	4.89
	22.0	11.5	4.22	12.3	4.41	13.4	4.51	14.6	4.70	15.5	4.80	16.7	4.99
	24.0	11.3	4.32	12.3	4.51	13.3	4.70	14.5	4.80	15.5	4.99	16.4	5.18

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
4. Direct interpolation is permissible. Do not extrapolate.
5. Air flow rate and BF are tabulated below.

Model		FDYP
125	AFR	45
	BF	0.25

3 Capacity tables

RYP(71~100)B7V1 + FHYP(71~125)BV1
RYP(71~125)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EWB (°C)	Indoor EDB (°C)	Outdoor temperature (°CDB) 20 TC	20 SHC	20 PI	25 TC	25 SHC	25 PI	32 TC	32 SHC	32 PI	35 TC	35 SHC	35 PI	40 TC	40 SHC	40 PI	46 TC	46 SHC	46 PI
71	12.0	18.0	6.2	4.8	1.83	6.1	4.7	2.09	5.7	4.6	2.26	5.5	4.5	2.44	5.3	4.4	2.70	4.9	4.1	2.96
	14.0	20.0	6.6	4.8	1.91	6.5	4.7	2.18	6.0	4.6	2.35	5.9	4.5	2.44	5.5	4.4	2.70	5.3	4.1	2.96
	16.0	22.0	7.2	4.9	1.91	7.0	4.8	2.18	6.5	4.7	2.35	6.3	4.6	2.52	6.0	4.5	2.78	5.5	4.2	3.05
	18.0	25.0	7.7	5.1	2.00	7.5	4.9	2.18	7.2	4.8	2.44	6.8	4.7	2.61	6.4	4.5	2.78	6.0	4.4	3.13
	19.0	27.0	8.0	5.2	2.00	7.7	5.1	2.18	7.3	4.9	2.44	7.1	4.7	2.61	6.6	4.6	2.87	6.2	4.5	3.13
	19.5	27.0	8.0	5.2	2.00	7.9	5.1	2.18	7.4	4.9	2.44	7.2	4.7	2.61	6.7	4.6	2.87	6.3	4.5	3.13
	22.0	30.0	8.7	5.3	2.09	8.5	5.2	2.26	8.0	5.1	2.52	7.9	4.8	2.70	7.4	4.7	2.87	6.8	4.5	3.22
	24.0	32.0	9.4	5.3	2.09	9.1	5.2	2.26	8.6	5.1	2.61	8.4	4.9	2.70	8.0	4.7	2.96	7.4	4.5	3.31
100	12.0	18.0	8.3	7.0	2.57	8.3	6.9	2.86	8.1	6.7	3.24	7.8	6.6	3.43	7.5	6.2	3.81	6.9	6.0	4.19
	14.0	20.0	8.9	7.0	2.67	8.8	6.9	2.86	8.6	6.7	3.24	8.3	6.6	3.43	7.8	6.2	3.81	7.5	6.0	4.19
	16.0	22.0	10.1	7.1	2.67	9.8	7.0	2.95	9.1	6.8	3.33	8.9	6.7	3.52	8.4	6.3	3.91	7.8	6.1	4.29
	18.0	25.0	10.8	7.4	2.76	10.5	7.3	2.95	9.8	6.9	3.33	9.6	6.8	3.52	9.0	6.6	3.91	8.3	6.2	4.38
	19.0	27.0	11.1	7.5	2.76	10.8	7.4	3.05	10.1	7.0	3.43	10.0	6.9	3.62	9.4	6.7	4.00	8.6	6.3	4.48
	19.5	27.0	11.2	7.5	2.76	11.0	7.4	3.05	10.3	7.0	3.43	10.1	6.9	3.62	9.5	6.7	4.00	8.8	6.3	4.48
	22.0	30.0	12.2	7.6	2.86	11.8	7.5	3.05	11.2	7.1	3.52	11.0	7.0	3.72	10.4	6.9	4.10	9.6	6.6	4.57
	24.0	32.0	13.0	7.7	2.95	12.7	7.6	3.14	11.9	7.3	3.62	11.7	7.1	3.81	11.1	7.0	4.19	10.3	6.7	4.67
125	12.0	18.0	11.3	9.1	3.47	11.0	8.8	3.77	10.3	8.3	4.08	10.0	8.2	4.38	9.5	8.0	4.79	8.8	7.6	5.51
	14.0	20.0	12.1	9.1	3.57	11.7	8.8	3.77	10.9	8.3	4.18	10.6	8.2	4.49	10.1	8.0	4.89	9.5	7.6	5.51
	16.0	22.0	13.0	9.2	3.57	12.4	8.9	3.87	11.7	8.4	4.18	11.3	8.3	4.59	10.6	8.1	5.00	10.0	7.7	5.61
	18.0	25.0	13.7	9.5	3.67	13.3	9.1	3.87	12.4	8.7	4.28	12.1	8.6	4.69	11.4	8.3	5.10	10.6	8.0	5.61
	19.0	27.0	14.0	9.6	3.77	13.7	9.1	3.98	13.0	8.8	4.38	12.5	8.6	4.69	11.8	8.4	5.20	11.0	8.1	5.71
	19.5	27.0	14.2	9.6	3.77	13.9	9.1	3.98	13.1	8.8	4.38	12.7	8.7	4.69	12.0	8.4	5.20	11.2	8.1	5.71
	22.0	30.0	15.4	9.7	3.87	14.9	9.4	3.98	14.1	9.0	4.49	13.8	8.9	4.79	13.2	8.7	5.30	12.3	8.3	5.91
	24.0	32.0	16.3	9.8	3.87	15.9	9.5	4.08	14.9	9.1	4.59	14.6	9.0	4.89	14.0	8.8	5.40	13.2	8.6	6.02

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   = 0.29 x 60 x AFR(m^3/min) x (1-BF) x (DB°-EDB)/860
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model		FHYP
71	AFR	17
	BF	0.1
100	AFR	24
	BF	0.14
125	AFR	30
	BF	0.13

7. Add the following correction value to power input (kW) of each unit

Model	PI	FHYP
71	V1	0.04
	W1	0.00
100	V1	0.20
	W1	0.00
125	W1	0.00

3 Capacity tables

RYP(71~100)B7V1 + FHYP(71~125)BV1
RYP(71~125)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16	6.0	2.40	6.5	2.49	7.1	2.49	7.8	2.58	8.3	2.58	-	-
	18	6.0	2.40	6.5	2.49	7.1	2.58	7.7	2.67	8.3	2.67	-	-
	20	6.0	2.49	6.5	2.58	7.0	2.67	7.7	2.67	8.2	2.76	8.9	2.8
	21	6.0	2.58	6.5	2.58	7.0	2.67	7.7	2.76	8.2	2.85	8.9	2.9
	22	6.0	2.58	6.5	2.67	7.0	2.76	7.7	2.85	8.2	2.85	8.8	2.9
	24	6.0	2.67	6.5	2.76	7.0	2.85	7.6	2.94	8.2	2.94	8.8	3.0
100	16	8.5	3.27	9.3	3.37	10.1	3.47	11.2	3.58	11.9	3.68	-	-
	18	8.4	3.37	9.2	3.47	10.1	3.58	11.1	3.68	11.9	3.78	-	-
	20	8.4	3.47	9.2	3.58	10.0	3.68	11.0	3.78	11.8	3.88	12.7	4.0
	21	8.4	3.58	9.1	3.68	10.0	3.78	11.0	3.88	11.7	3.98	12.7	4.1
	22	8.4	3.68	9.1	3.78	10.0	3.88	11.0	3.98	11.7	4.09	12.6	4.2
	24	8.3	3.78	9.1	3.88	9.8	3.98	10.8	4.09	11.5	4.19	12.6	4.3
125	16	11.5	4.51	12.5	4.74	13.4	4.85	14.7	4.96	15.7	5.19	-	-
	18	11.5	4.62	12.5	4.85	13.4	4.96	14.6	5.19	15.6	5.30	-	-
	20	11.5	4.74	12.3	4.96	13.4	5.07	14.6	5.30	15.6	5.53	17.0	5.6
	21	11.5	4.85	12.3	5.07	13.4	5.30	14.6	5.41	15.5	5.53	16.7	5.8
	22	11.5	4.96	12.3	5.19	13.4	5.30	14.6	5.53	15.5	5.64	16.7	5.9
	24	11.3	5.07	12.3	5.30	13.3	5.53	14.5	5.64	15.5	5.86	16.4	6.1

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
4. Direct interpolation is permissible. Do not extrapolate.
5. Air flow rate and BF are tabulated below.

Model		FHYP
71	AFR	17
	BF	0.10
100	AFR	24
	BF	0.14
125	AFR	30
	BF	0.13

6. Add the following correction value to power input (kW) of each unit

Model	PI	FHYP
71	V1	0.04
	W1	0
100	V1	0.1
	W1	0
125	W1	0

3 Capacity tables

RYP(71~100)B7V1 + FUYP(71~125)BV1
RYP(71~125)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EWB (°C)	Indoor EDB (°C)	Outdoor temperature (°CDB) 20 TC	20 SHC	20 PI	25 TC	25 SHC	25 PI	32 TC	32 SHC	32 PI	35 TC	35 SHC	35 PI	40 TC	40 SHC	40 PI	46 TC	46 SHC	46 PI
71	12.0	18.0	6.2	4.9	1.85	6.1	4.8	2.11	5.7	4.7	2.29	5.5	4.6	2.46	5.3	4.5	2.73	4.9	4.2	2.99
	14.0	20.0	6.6	4.9	1.94	6.5	4.8	2.20	6.0	4.7	2.38	5.9	4.6	2.46	5.5	4.5	2.73	5.3	4.2	2.99
	16.0	22.0	7.2	5.0	1.94	7.0	4.9	2.20	6.5	4.8	2.38	6.3	4.7	2.55	6.0	4.6	2.82	5.5	4.3	3.08
	18.0	25.0	7.7	5.2	2.02	7.5	5.0	2.20	7.2	4.9	2.46	6.8	4.8	2.64	6.4	4.6	2.82	6.0	4.5	3.17
	19.0	27.0	8.0	5.3	2.02	7.7	5.2	2.20	7.3	5.0	2.46	7.1	4.8	2.64	6.6	4.7	2.90	6.2	4.6	3.17
	19.5	27.0	8.0	5.3	2.02	7.9	5.2	2.20	7.4	5.0	2.46	7.2	4.8	2.64	6.7	4.7	2.90	6.3	4.6	3.17
	22.0	30.0	8.7	5.4	2.11	8.5	5.3	2.29	8.0	5.2	2.55	7.9	4.9	2.73	7.4	4.8	2.90	6.8	4.6	3.26
	24.0	32.0	9.4	5.4	2.11	9.1	5.3	2.29	8.6	5.2	2.64	8.4	5.0	2.73	8.0	4.8	2.99	7.4	4.6	3.34
100	12.0	18.0	8.3	7.2	2.57	8.3	7.1	2.85	8.1	6.9	3.23	7.8	6.8	3.42	7.5	6.4	3.80	6.9	6.2	4.18
	14.0	20.0	8.9	7.2	2.66	8.8	7.1	2.85	8.6	6.9	3.23	8.3	6.8	3.42	7.8	6.4	3.80	7.5	6.2	4.18
	16.0	22.0	10.1	7.3	2.66	9.8	7.2	2.95	9.1	7.0	3.33	8.9	6.9	3.52	8.4	6.5	3.90	7.8	6.3	4.28
	18.0	25.0	10.8	7.6	2.76	10.5	7.5	2.95	9.8	7.1	3.33	9.6	7.0	3.52	9.0	6.8	3.90	8.3	6.4	4.37
	19.0	27.0	11.1	7.7	2.76	10.8	7.6	3.04	10.1	7.2	3.42	10.0	7.1	3.61	9.4	6.9	3.99	8.6	6.5	4.47
	19.5	27.0	11.2	7.7	2.76	11.0	7.6	3.04	10.3	7.2	3.42	10.1	7.1	3.61	9.5	6.9	3.99	8.8	6.5	4.47
	22.0	30.0	12.2	7.8	2.85	11.8	7.7	3.04	11.2	7.3	3.52	11.0	7.2	3.71	10.4	7.1	4.09	9.6	6.8	4.56
	24.0	32.0	13.0	7.9	2.95	12.7	7.8	3.14	11.9	7.5	3.61	11.7	7.3	3.80	11.1	7.2	4.18	10.3	6.9	4.66
125	12.0	18.0	11.3	9.5	3.44	11.0	9.2	3.75	10.3	8.7	4.05	10.0	8.6	4.36	9.5	8.4	4.76	8.8	8.0	5.47
	14.0	20.0	12.1	9.5	3.55	11.7	9.2	3.75	10.9	8.7	4.15	10.6	8.6	4.46	10.1	8.4	4.86	9.5	8.0	5.47
	16.0	22.0	13.0	9.6	3.55	12.4	9.3	3.85	11.7	8.8	4.15	11.3	8.7	4.56	10.6	8.5	4.96	10.0	8.1	5.57
	18.0	25.0	13.7	9.9	3.65	13.3	9.5	3.85	12.4	9.1	4.25	12.1	9.0	4.66	11.4	8.7	5.07	10.6	8.4	5.57
	19.0	27.0	14.0	10.0	3.75	13.7	9.5	3.95	13.0	9.2	4.36	12.5	9.0	4.66	11.8	8.8	5.17	11.0	8.5	5.67
	19.5	27.0	14.2	10.0	3.75	13.9	9.5	3.95	13.1	9.2	4.36	12.7	9.1	4.66	12.0	8.8	5.17	11.2	8.5	5.67
	22.0	30.0	15.4	10.2	3.85	14.9	9.8	3.95	14.1	9.4	4.46	13.8	9.3	4.76	13.2	9.1	5.27	12.3	8.7	5.88
	24.0	32.0	16.3	10.3	3.85	15.9	9.9	4.05	14.9	9.5	4.56	14.6	9.4	4.86	14.0	9.2	5.37	13.2	9.0	5.98

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SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   = 0.29 x 60 x AFR(m^3/min) x (1-BF) x (DB°-EDB)/860
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model		FUYP
71	AFR	19
	BF	0.07
100	AFR	29
	BF	0.07
125	AFR	32
	BF	0.07

7. Add the following correction value to power input (kW) of each unit

Model	PI	FUYP
71	V1	0.2
	W1	0
100	V1	0.3
	W1	0
125	W1	0

3 Capacity tables

RYP(71~100)B7V1 + FUYP(71~125)BV1
RYP(71~125)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16	6.0	2.30	6.5	2.43	7.1	2.43	7.8	2.51	8.3	2.51	-	-
	18	6.0	2.34	6.5	2.43	7.1	2.51	7.7	2.60	8.3	2.60	-	-
	20	6.0	2.43	6.5	2.51	7.0	2.60	7.7	2.60	8.2	2.69	8.9	2.77
	21	6.0	2.51	6.5	2.51	7.0	2.60	7.7	2.69	8.2	2.77	8.9	2.86
	22	6.0	2.51	6.5	2.60	7.0	2.69	7.7	2.77	8.2	2.77	8.8	2.86
	24	6.0	2.60	6.5	2.69	7.0	2.77	7.6	2.86	8.2	2.86	8.8	2.95
100	16	8.5	3.10	9.3	3.18	10.1	3.28	11.2	3.38	11.9	3.47	-	-
	18	8.4	3.18	9.2	3.28	10.1	3.38	11.1	3.47	11.9	3.57	-	-
	20	8.4	3.28	9.2	3.38	10.0	3.47	11.0	3.57	11.8	3.67	12.7	3.76
	21	8.4	3.38	9.1	3.47	10.0	3.57	11.0	3.67	11.7	3.76	12.7	3.86
	22	8.4	3.47	9.1	3.57	10.0	3.67	11.0	3.76	11.7	3.86	12.6	3.96
	24	8.3	3.57	9.1	3.67	9.8	3.76	10.8	3.86	11.5	3.96	12.6	4.05
125	16	11.1	4.20	12.0	4.39	12.9	4.49	14.1	4.60	15.0	4.81	-	-
	18	11.1	4.28	12.0	4.49	12.9	4.60	14.0	4.81	14.9	4.91	-	-
	20	11.1	4.39	11.8	4.60	12.8	4.70	14.0	4.91	14.9	5.12	16.3	5.22
	21	11.1	4.49	11.8	4.70	12.8	4.91	14.0	5.01	14.8	5.12	16.0	5.33
	22	11.1	4.60	11.8	4.81	12.8	4.91	14.0	5.12	14.8	5.22	16.0	5.43
	24	10.9	4.70	11.8	4.91	12.7	5.12	13.9	5.22	14.8	5.43	15.8	5.64

3TW23312-12A

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities.
   Influence of fan motor heat is included.
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
4. Direct interpolation is permissible. Do not extrapolate.
5. Air flow rate and BF are tabulated below.

Model		FUYP
71	AFR	19
	BF	0.07
100	AFR	29
	BF	0.07
125	AFR	32
	BF	0.07

6. Add the following correction value to power input (kW) of each unit

Model	PI	FUYP
71	V1	0.2
	W1	0
100	V1	0.3
	W1	0
125	W1	0

3 Capacity tables

RYP(200~250)B7W1 + FDYP(200~250)B7V1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EWB (°C)	Indoor EDB (°C)	Outdoor temperature (°CDB) 20 TC	20 SHC	20 PI	25 TC	25 SHC	25 PI	32 TC	32 SHC	32 PI	35 TC	35 SHC	35 PI	40 TC	40 SHC	40 PI	46 TC	46 SHC	46 PI
RYP200	12.0	18.0	17.5	14.8	6.49	16.8	14.3	6.98	15.8	13.7	7.83	15.4	13.4	8.23	14.8	13.0	9.02	14.1	12.6	10.08
	14.0	20.0	18.7	14.9	6.59	17.9	14.4	7.08	16.9	13.8	7.94	16.5	13.6	8.36	15.9	13.2	9.15	15.1	12.7	10.22
	16.0	22.0	20.0	15.0	6.68	19.2	14.5	7.19	18.1	13.9	8.06	17.7	13.7	8.49	17.0	13.3	9.29	16.2	12.8	10.37
	18.0	25.0	21.3	15.9	6.79	20.4	15.4	7.31	19.3	14.8	8.19	18.9	14.6	8.62	18.2	14.2	9.43	17.4	13.7	10.54
	19.0	27.0	21.9	16.8	6.84	21.1	16.3	7.37	20.0	15.7	8.26	19.5	15.5	8.69	18.8	15.1	9.51	17.9	14.6	10.62
	22.0	30.0	24.1	16.8	7.02	23.2	16.3	7.56	22.0	15.8	8.47	21.5	15.5	8.92	20.7	15.1	9.75	19.8	14.7	10.89
	24.0	32.0	25.6	16.8	7.15	24.6	16.4	7.70	23.4	15.8	8.63	22.9	15.5	9.09	22.1	15.1	9.93	21.1	14.6	11.07
RYP250	12.0	18.0	22.4	19.1	7.62	21.5	18.5	8.20	20.2	17.7	9.19	19.7	17.3	9.67	18.9	16.8	10.58	18.0	16.2	11.83
	14.0	20.0	24.0	19.2	7.73	23.0	18.6	8.31	21.7	17.8	9.32	21.2	17.5	9.82	20.3	17.0	10.73	19.4	16.4	12.00
	16.0	22.0	25.6	19.3	7.84	24.6	18.7	8.45	23.2	17.9	9.46	22.7	17.6	9.97	21.8	17.1	10.90	20.8	16.5	12.17
	18.0	25.0	27.2	20.5	7.97	26.2	19.9	8.58	24.8	19.2	9.61	24.2	18.8	10.12	23.3	18.3	11.06	22.3	17.7	12.37
	19.0	27.0	28.1	21.7	8.03	27.0	21.1	8.65	25.6	20.3	9.69	25.0	20.0	10.20	24.1	19.5	11.16	23.0	18.9	12.46
	22.0	30.0	30.9	21.6	8.24	29.7	21.1	8.87	28.2	20.3	9.94	27.6	20.0	10.47	26.5	19.5	11.45	25.4	18.9	12.78
	24.0	32.0	32.8	21.7	8.39	31.6	21.1	9.03	30.0	20.4	10.13	29.4	20.0	10.67	28.3	19.5	11.65	27.1	18.9	13.00

3TW23632-1A

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. Shows nominal capacities
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   = 0.29 x 60 x AFR(m^3/min) x (1-BF) x (DB°-EDB)
   Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible. Do not extrapolate.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
6. Air flow rate and BF are tabulated below.

Model	FDYP200	FDYP250
AFR	69	89
BF	0.25	0.25

3 Capacity tables

RYP(200~250)B7W1 + FDYP(200~250)B7V1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)											
	EWB (°C)	EDB (°C)	-10		-5		0		6		10		15	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
RYP200	9.0	16.0	15.1	6.42	16.7	6.47	19.6	6.76	23.4	7.16	26.3	7.50	30.3	7.99
	11.0	18.0	14.8	6.58	16.6	6.65	19.5	6.95	23.2	7.37	26.1	7.72	30.1	8.23
	12.0	20.0	14.6	6.76	16.3	6.84	19.3	7.15	23.1	7.59	26.0	7.95	30.0	8.49
	13.0	21.0	14.5	6.86	16.2	6.92	19.3	7.25	23.0	7.70	26.0	8.08	29.9	8.62
	14.0	22.0	14.4	6.96	16.0	7.02	19.3	7.36	23.0	7.82	25.9	8.21	29.8	8.76
	15.0	24.0	14.2	7.16	15.7	7.23	19.2	7.59	22.9	8.08	25.8	8.46	29.7	9.05
RYP250	9.0	16.0	17.6	7.41	19.5	7.47	22.9	7.81	27.3	8.27	30.8	8.66	35.4	9.22
	11.0	18.0	17.3	7.60	19.4	7.68	22.7	8.02	27.1	8.51	30.6	8.91	35.2	9.50
	12.0	20.0	17.1	7.81	19.1	7.89	22.6	8.26	27.0	8.76	30.4	9.18	35.0	9.80
	13.0	21.0	16.9	7.92	18.9	7.99	22.6	8.37	26.9	8.89	30.3	9.32	34.9	9.95
	14.0	22.0	16.8	8.03	18.7	8.10	22.5	8.49	26.9	9.03	30.3	9.47	34.9	10.11
	15.0	24.0	16.6	8.27	18.4	8.34	22.5	8.76	26.8	9.32	30.2	9.77	34.8	10.44

3TW23632-2A

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)

Caution:
TC is shown by kW

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. ▭ Shows nominal capacities
3. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 7.5 m
   Level difference: 0 m
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
4. Direct interpolation is permissible. Do not extrapolate.
5. Air flow rate and BF are tabulated below.

Model	FDYP200	FDYP250
AFR	69	89
BF	0.25	0.25

4 Dimensional drawings

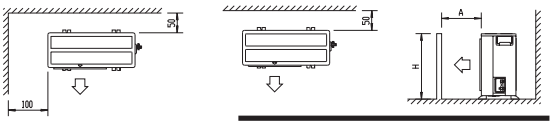
RY35-45EAZ7

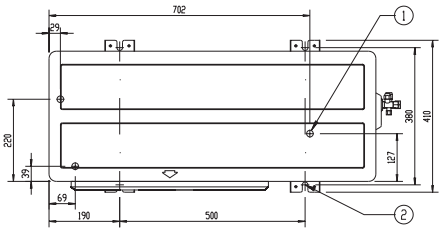
unit (mm)

Space for air passage

H	A
≤ 1000	300
> 1000	600

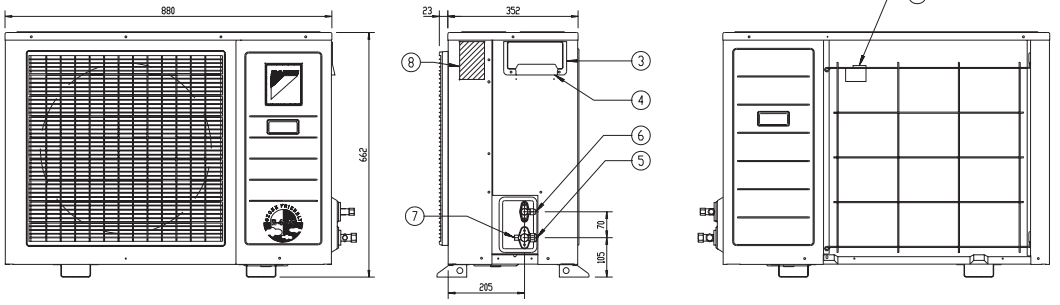
Minimum installation space (mm)

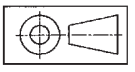




1 Drain outlet (3x)
2 4x holes for anchor bolts (M10)
3 Service cover
4 Power intake
5 Low pressure gas stop valve ⌀A
6 Liquid stop valve ⌀B
7 Low pressure service port
8 Name plate
9 Outdoor air thermostat

	⑤ ⌀A	⑥ ⌀B
RY35EAZ7V1	ϕ12.7mm or 1.2″CuT	ϕ6.4mm or1/4″CuT
RY45EAZ7V1	ϕ15.9mm or 5.8″CuT	ϕ6.4mm or1/4″CuT

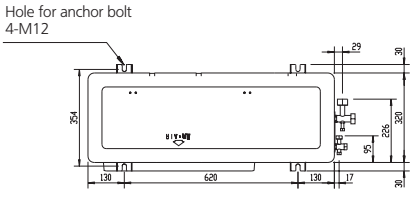




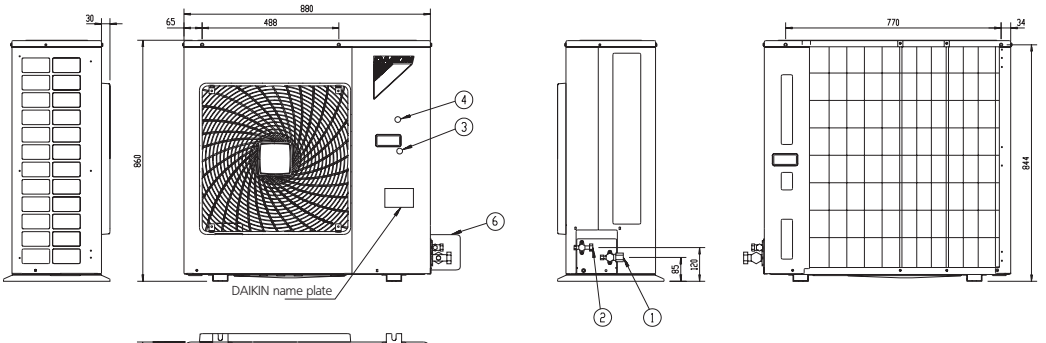
3TW01884-1B

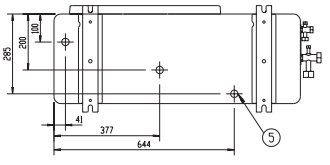
RYP71B7

unit (mm)



1 Gas pipe connection ⌀15.9 flare
2 Liquid pipe connection - ⌀9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Drain outlet
6 Stop valve cover



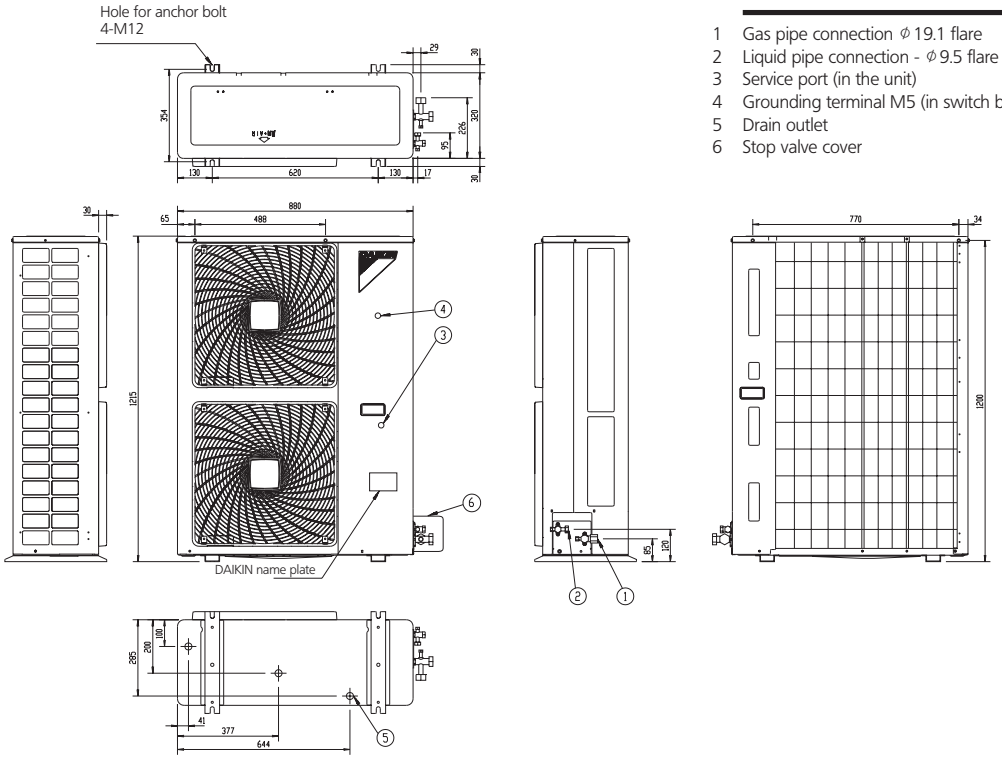


3TW23184-1A

4 Dimensional drawings

RYP100-125B7

unit (mm)

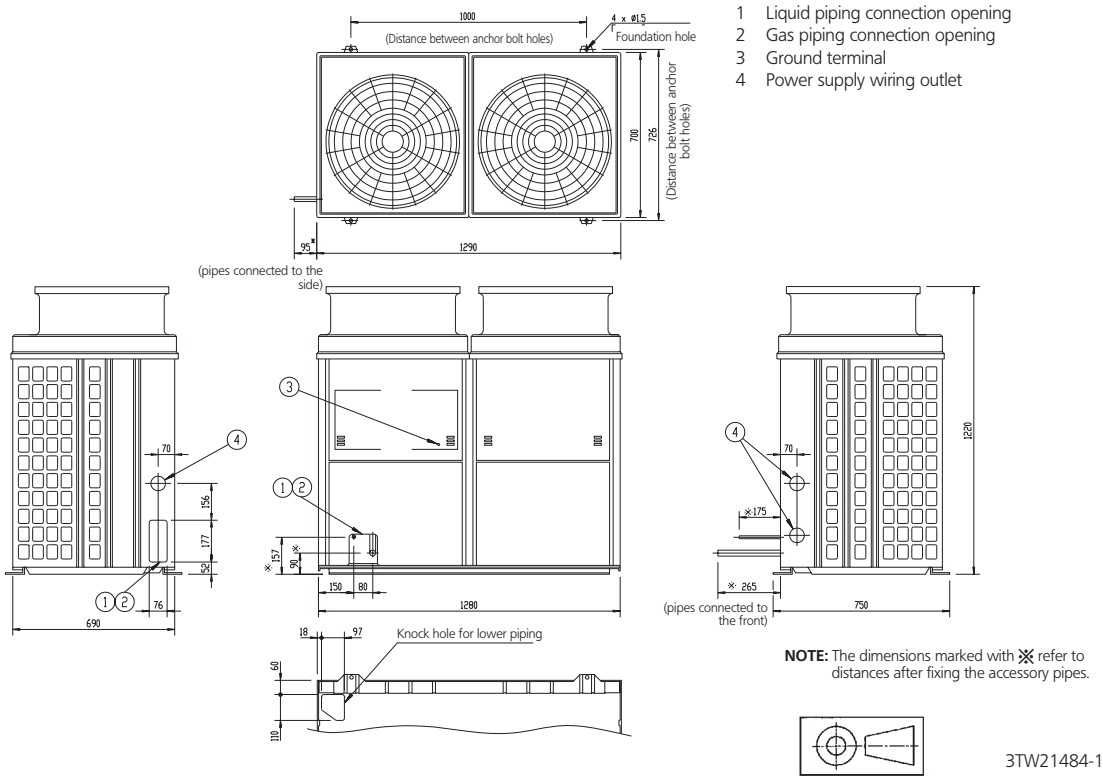


1 Gas pipe connection ⌀19.1 flare
2 Liquid pipe connection - ⌀9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Drain outlet
6 Stop valve cover

3TW23224-1A

RYP200B7

unit (mm)



1 Liquid piping connection opening
2 Gas piping connection opening
3 Ground terminal
4 Power supply wiring outlet

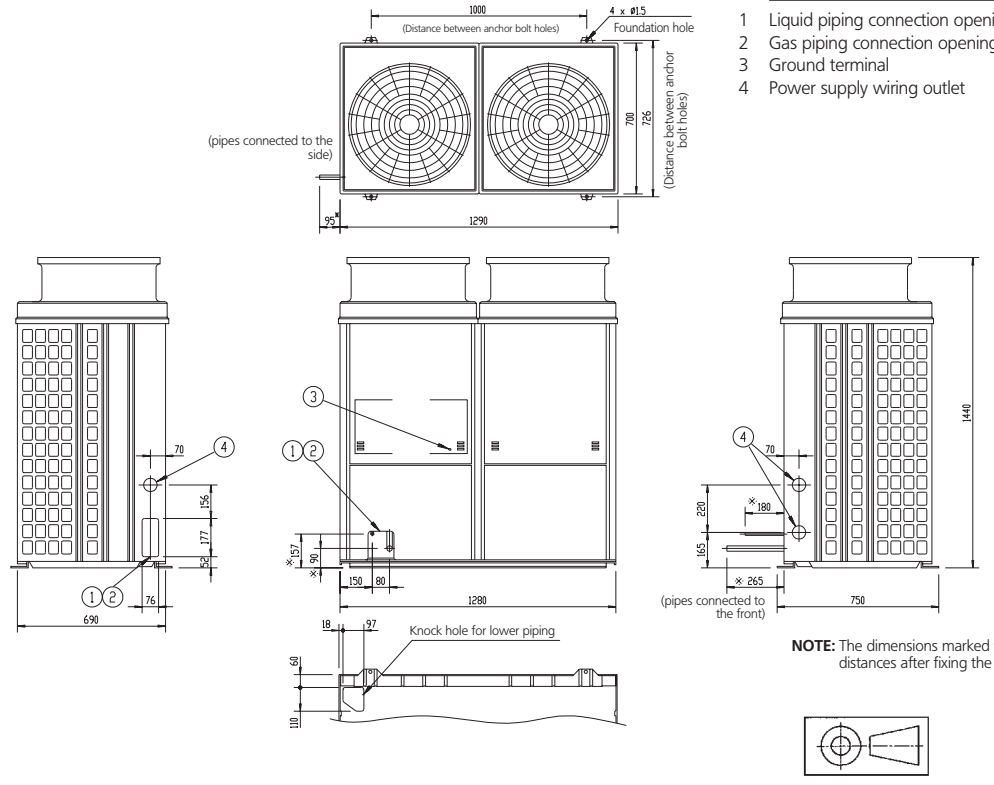
NOTE: The dimensions marked with ※ refer to distances after fixing the accessory pipes.

3TW21484-1C

4 Dimensional drawings

RYP250B7

unit (mm)



1 Liquid piping connection opening
2 Gas piping connection opening
3 Ground terminal
4 Power supply wiring outlet

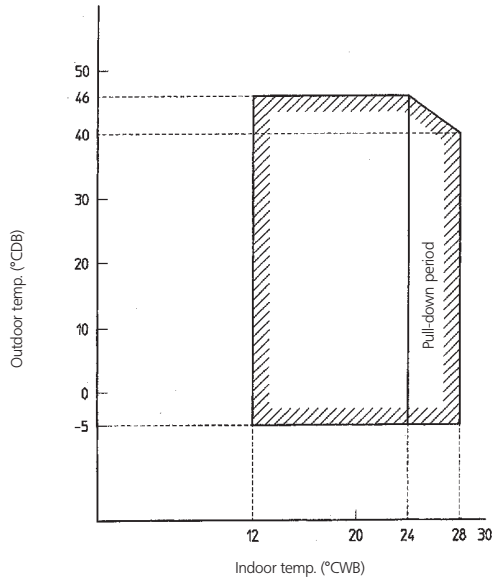
NOTE: The dimensions marked with ※ refer to distances after fixing the accessory pipes.

3TW21494-1C

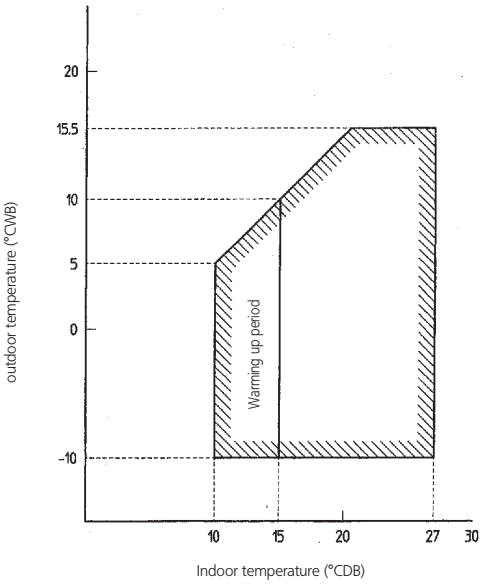
5 Operation range

RY35-45EAZ7

Cooling



Heating



Notes:

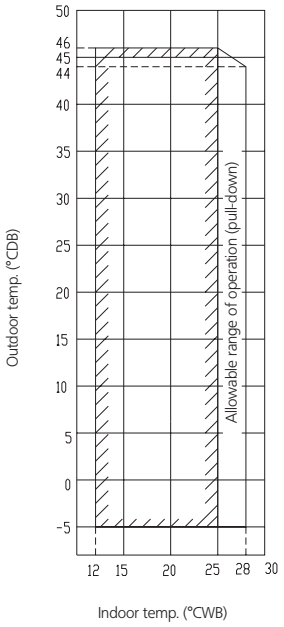
The graph is based on the following conditions

* Equivalent piping length	7.5m
* Level difference	0m
* Air flow rate	Hi speed

3TW00643-1

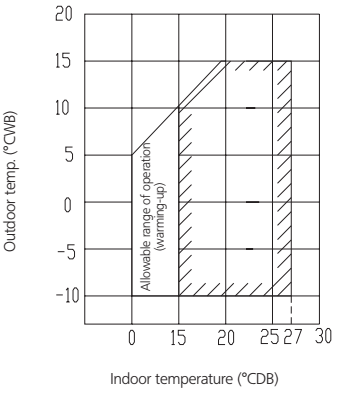
RYP71-125B7

Cooling



Model name	
RYP100B7V1	RYP71B7V1
RYP100B7W1	RYP71B7W1
RYP125B7W1	

Heating

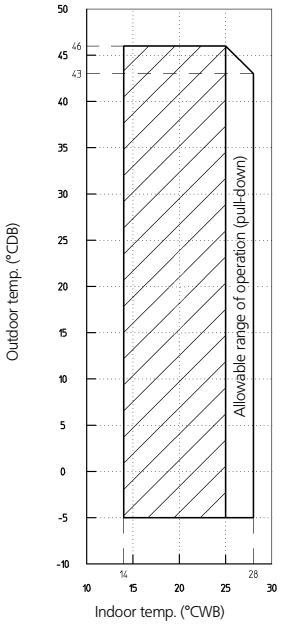


3TW23203-1

5 Operation range

RYP200-250B7

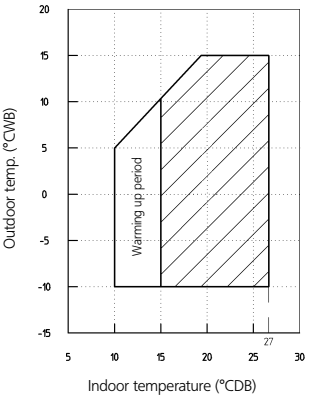
Cooling



Notes:
The graph is based on the following conditions:

1. Equivalent piping length	70 m
2. Level difference	30 m
3. Indoor air flow rate	72m^3/min (200 class)
	90m^3/min (250 class)

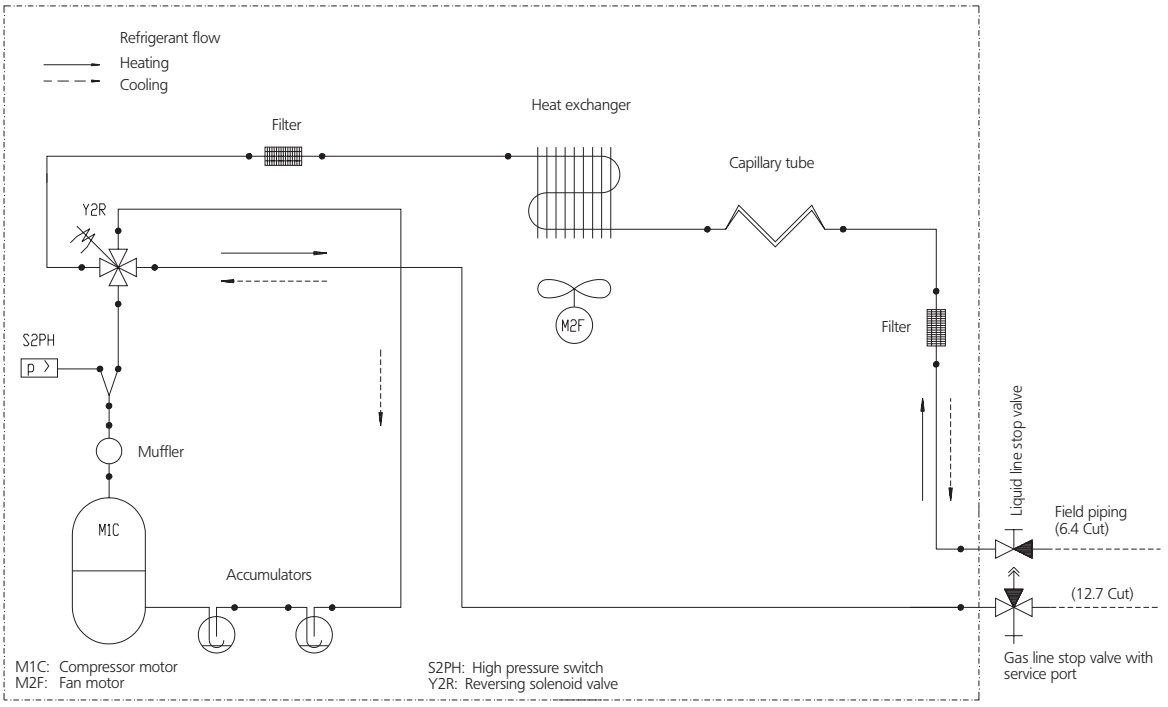
Heating



3TW23633-1

6 Piping diagrams

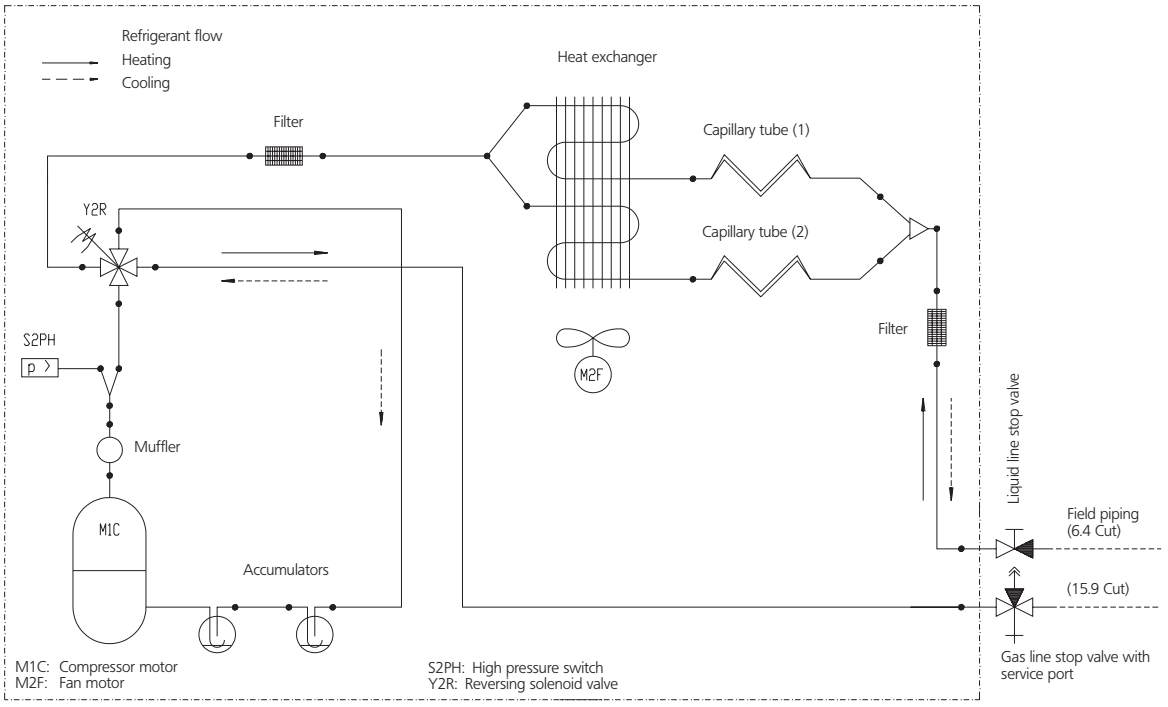
RY35EAZ7



Check valve — Flare connection — Screw connection — Flange connection — Pinched pipe — Spinned pipe

3TW01325-1B

RY45EAZ7

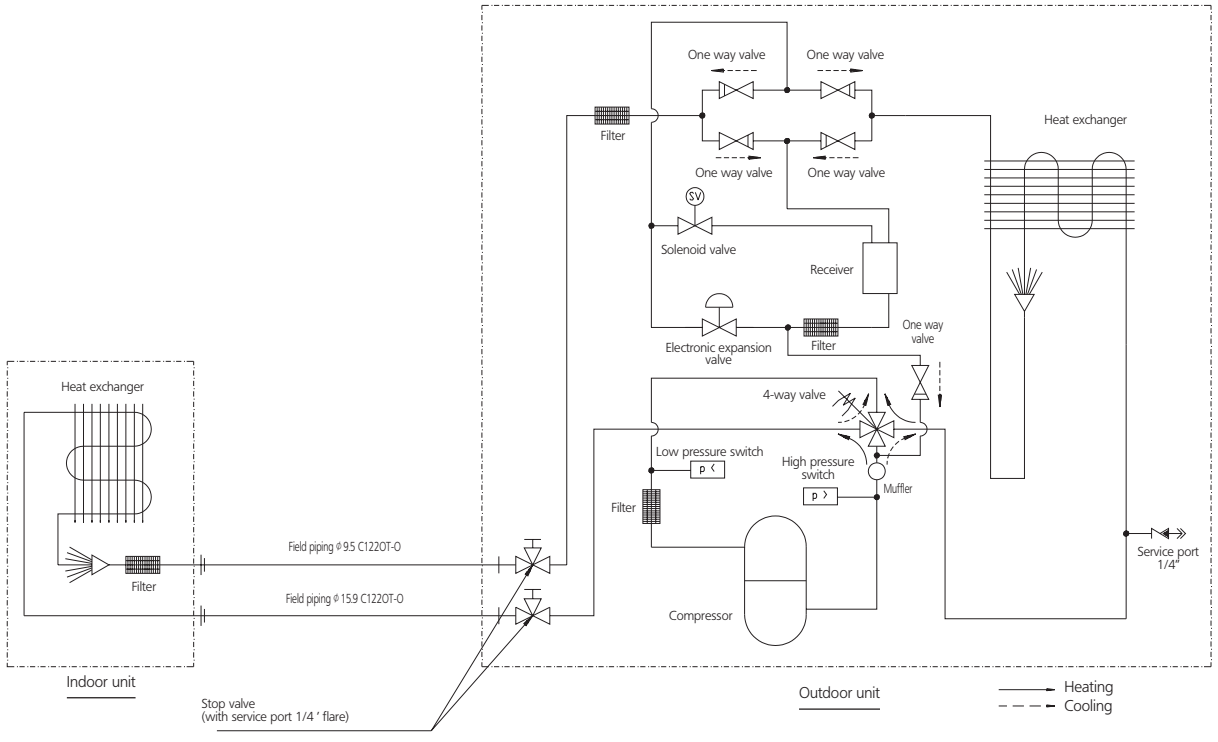


Check valve — Flare connection — Screw connection — Flange connection — Pinched pipe — Spinned pipe

3TW01335-1B

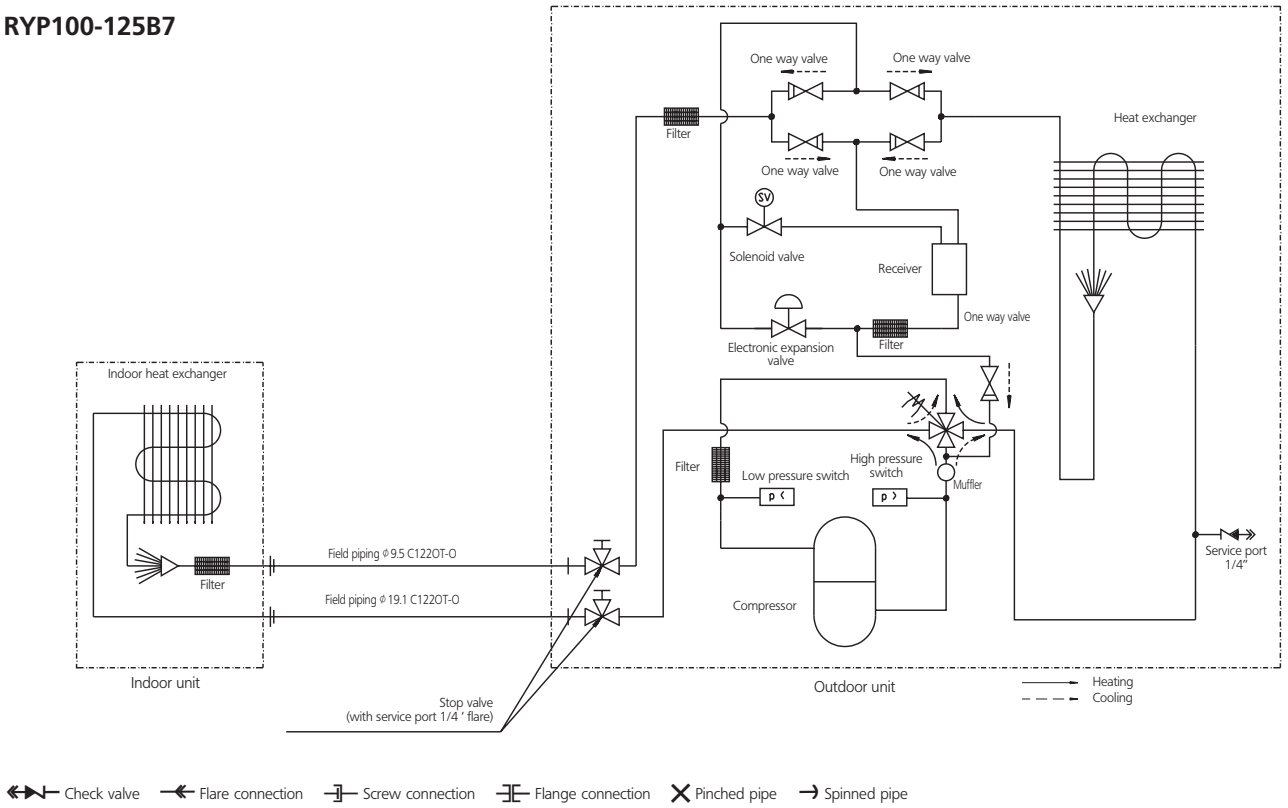
6 Piping diagrams

RYP71B7



3TW23315-1

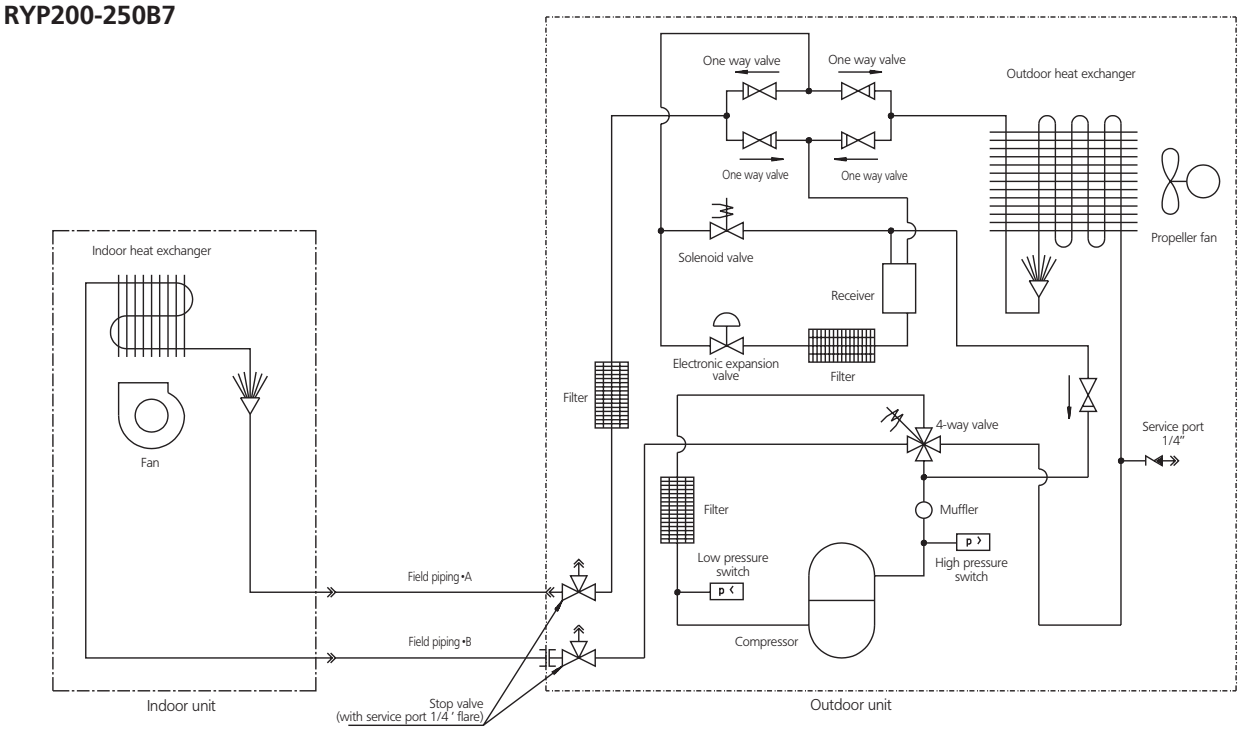
RYP100-125B7



3TW23365-1

6 Piping diagrams

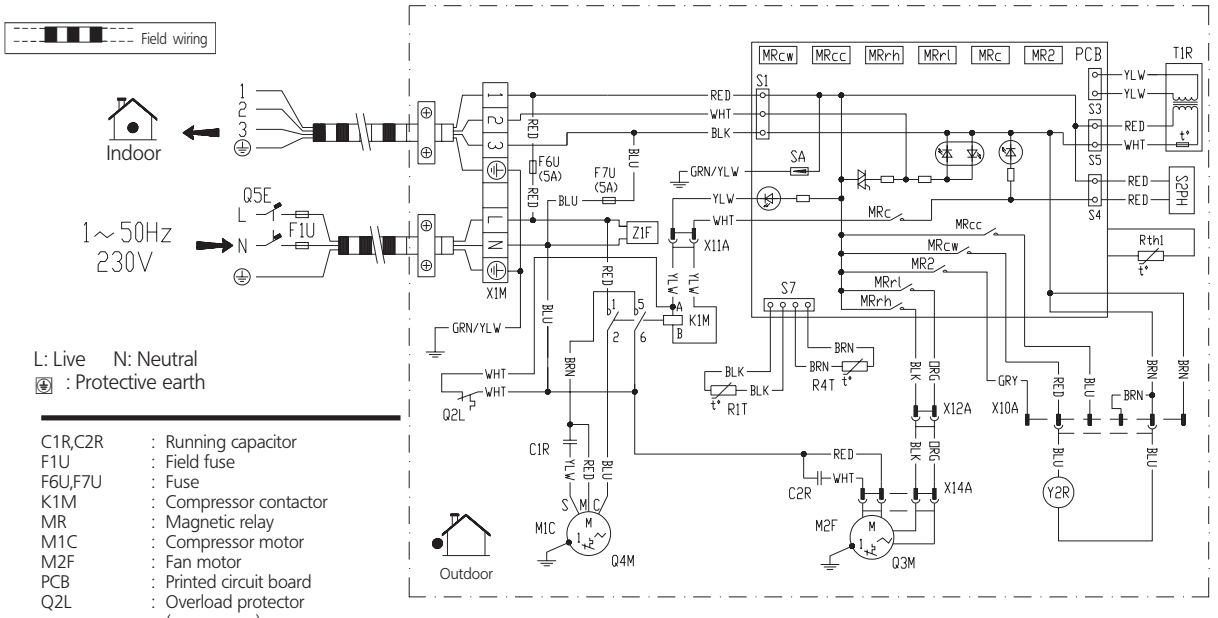
RYP200-250B7



3TW23635-1

7 Wiring diagrams

RY35/45EAZ7V1



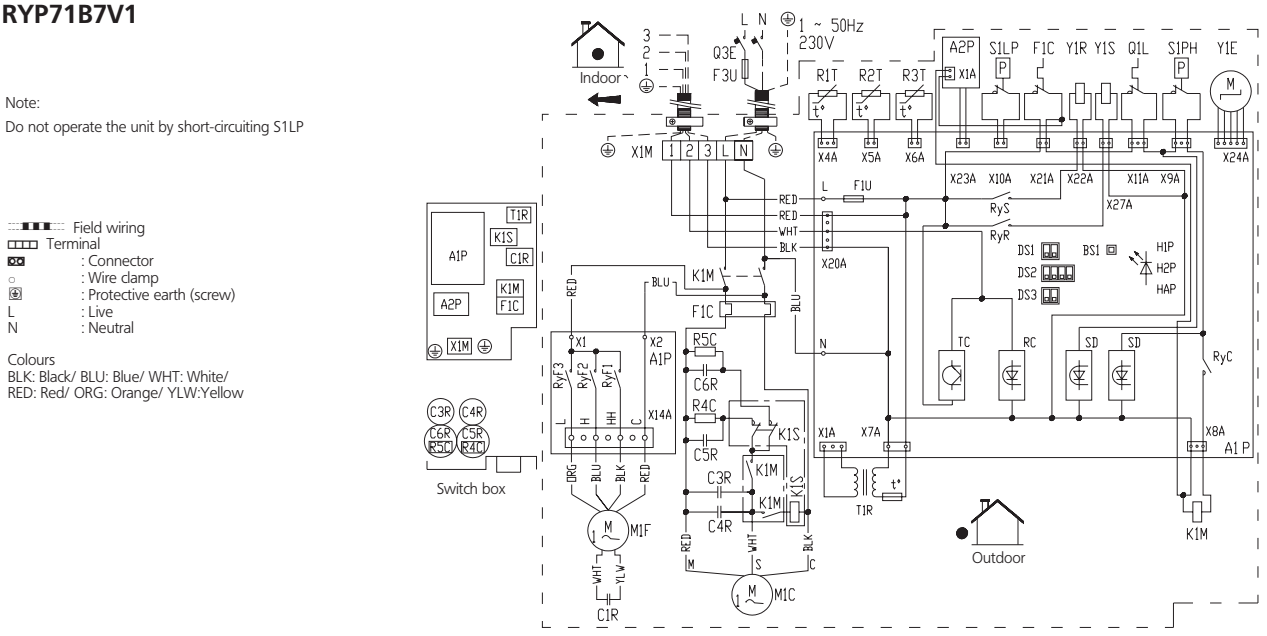
C1R,C2R	: Running capacitor	
F1U	: Field fuse	
F6U,F7U	: Fuse	
K1M	: Compressor contactor	
MR	: Magnetic relay	
M1C	: Compressor motor	
M2F	: Fan motor	
PCB	: Printed circuit board	
Q2L	: Overload protector (compressor)	
Q3M, Q4M	: Thermal protector	
Q5E	: Field earth leak protector	
R1T	: Outside air temperature thermistor	
R4T	: Defrost thermistor	
Rth1	: PCB temperature thermistor	

SA	: Surge absorber	
S1,S3	: Connector on PCB	
S2PH	: Pressure switch (high)	
T1R	: Transformer	
X1M	: Terminal strip	
X10A,X11A,...	: Connector	
Y2R	: Reversing solenoid valve	
Z1F	: Noise filter	

3TW01326-1C

RYP71B7V1

Note:
Do not operate the unit by short-circuiting S1LP



L-RED N-BLU

A1P,A2P	Printed circuit board	F1U	Fuse (250V, 5A)	Q3E	Earth leak detector	RyS	Magnetic relay (Y1R)
BS1	Push button (forced defrost-pump down)	F3U	Field fuse	R1T	Thermistor (air)	S1LP	Pressure switch (low)
C1R	Capacitor (M1F)	HAP	Light emitting diode (service monitor green)	R2T	Thermistor (coil)	S1PH	Pressure switch (high)
C3R,C4R	Capacitor (M1C)	H1P,H2P	Light emitting diode (service monitor red)	R3T	Thermistor (discharge pipe)	SD	Safety devices input
C5R,C6R	Starting capacitor (M1C)	K1M	Magnetic contactor (M1C)	R4C,R5C	Resistor	T1R	Transformer (220-240V/19V)
DS1	Selector switch (defrost)	K1S	Starting contactor (M1C)	RC	Signal receiver circuit	TC	Signal transmission circuit
DS2	Selector switch (various see PCB)	M1C	Motor (compressor)	RyC	Magnetic relay (K1M)	X1M	Terminal strip
DS3	Selector switch (emergency)	M1F	Motor (fan)	RyF1-3	Magnetic relay (M1F)	Y1E	Expansion valve
F1C	Overcurrent relay (M1C)	Q1L	Thermo switch (M1F)	RyR	Magnetic relay (Y1S)	Y1R	4-way valve
						Y1S	Solenoid valve

2TW23316-1A

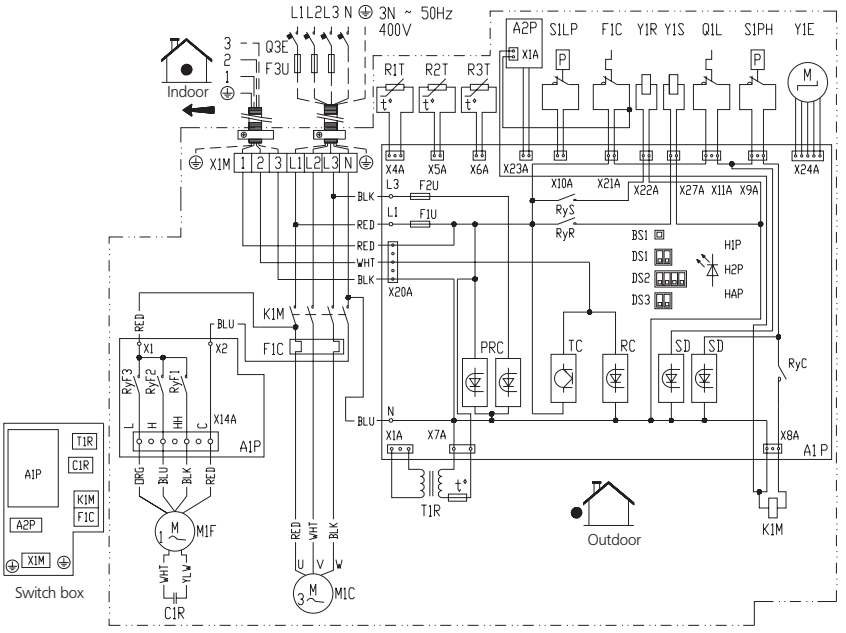
7 Wiring diagrams

RYP71B7W1

Note:
Do not operate the unit by short-circuiting S1LP

Field wiring
Terminal
: Connector
: Wire clamp
: Protective earth (screw)
L : Live
N : Neutral

Colours
BLK: Black/ BLU: Blue/ WHT: White/
RED: Red/ ORG: Orange/ YLW:Yellow



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

A1P,A2P	Printed circuit board	HAP	Light emitting diode (service monitor green)	R2T	Thermistor (coil)	SD	Safety devices input
BS1	Push button (forced defrost-pump down)	H1P,H2P	Light emitting diode (service monitor red)	R3T	Thermistor (discharge pipe)	T1R	Transformer (220-240V/19V)
C1R	Capacitor (M1F)	K1M	Magnetic contactor (M1C)	RC	Signal receiver circuit	TC	Signal transmission circuit
DS1	Selector switch (defrost)	M1C	Motor (compressor)	RyC	Magnetic relay (K1M)	X1M	Terminal strip
DS2	Selector switch (various see PCB)	M1F	Motor (fan)	RyF1-3	Magnetic relay (M1F)	Y1E	Expansion valve
DS3	Selector switch (emergency)	PRC	Phase reverse circuit	RyR	Magnetic relay (Y1S)	Y1R	4-way valve
F1C	Overcurrent relay (M1C)	Q1L	Thermo switch (M1F)	RyS	Magnetic relay (Y1R)	Y1S	Solenoid valve
F1U,F2U	Fuse (250V, 5A)	Q3E	Earth leak detector	S1LP	Pressure switch (low)		
F3U	Field fuse	R1T	Thermistor (air)	S1PH	Pressure switch (high)		

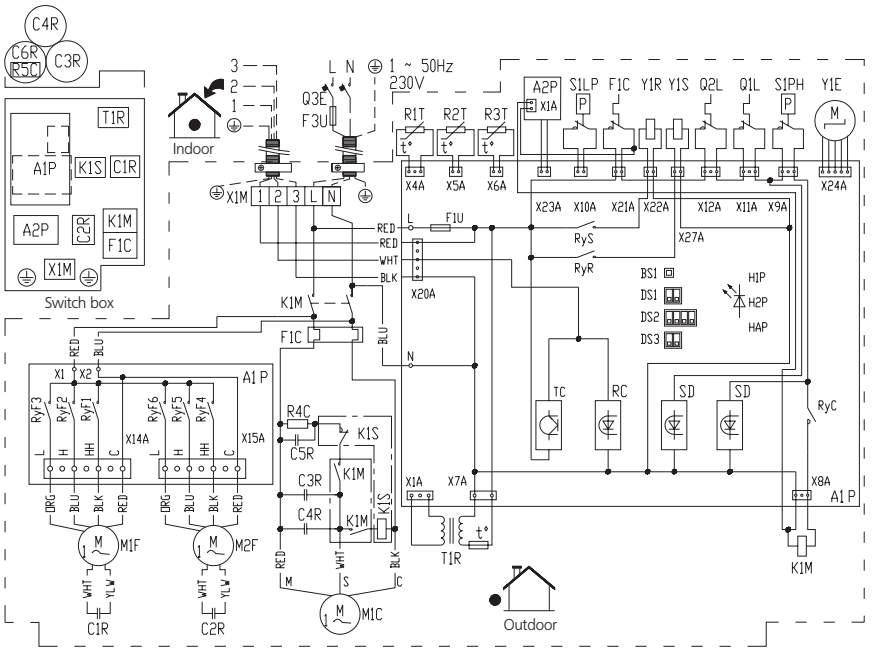
2TW23326-1A

RYP100B7V1

Note:
Do not operate the unit by short-circuiting S1LP

Field wiring
Terminal
: Connector
: Wire clamp
: Protective earth (screw)
L : Live
N : Neutral

Colours
BLK: Black/ BLU: Blue/ WHT: White/
RED: Red/ ORG: Orange/ YLW:Yellow



L-RED N-BLU

A1P,A2P	Printed circuit board	F1U	Fuse (250V, 5A)	Q3E	Earth leak detector	RyS	Magnetic relay (Y1R)
BS1	Push button (forced defrost-pump down)	F3U	Field fuse	R1T	Thermistor (air)	S1LP	Pressure switch (low)
C1R	Capacitor (M1F)	HAP	Light emitting diode (service monitor green)	R2T	Thermistor (coil)	S1PH	Pressure switch (high)
C3R,C4R	Capacitor (M1C)	H1P,H2P	Light emitting diode (service monitor red)	R3T	Thermistor (discharge pipe)	SD	Safety devices input
C5R,C6R	Starting capacitor (M1C)	K1M	Magnetic contactor (M1C)	R4C,R5C	Resistor	T1R	Transformer (220-240V/19V)
DS1	Selector switch (defrost)	K1S	Starting contactor (M1C)	RC	Signal receiver circuit	TC	Signal transmission circuit
DS2	Selector switch (various see PCB)	M1C	Motor (compressor)	RyC	Magnetic relay (K1M)	X1M	Terminal strip
DS3	Selector switch (emergency)	M1F	Motor (fan)	RyF1-3	Magnetic relay (M1F)	Y1E	Expansion valve
F1C	Overcurrent relay (M1C)	Q1L	Thermo switch (M1F)	RyR	Magnetic relay (Y1S)	Y1R	4-way valve
						Y1S	Solenoid valve

2TW23366-1A

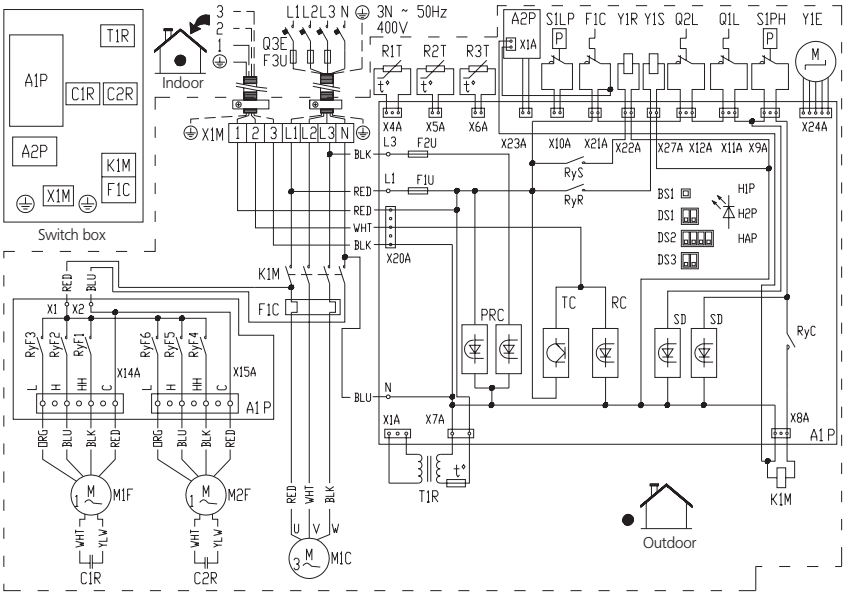
7 Wiring diagrams

RYP100-125B7W1

Note:
Do not operate the unit by short-circuiting S1LP

Field wiring
Terminal
: Connector
: Wire clamp
: Protective earth (screw)
L : Live
N : Neutral

Colours
BLK: Black/ BLU: Blue/ WHT: White/
RED: Red/ ORG: Orange/ YLW:Yellow



L1-RED	L2-WHT	L3-BLK	N-BLU				
A1P,A2P	Printed circuit board	HAP	Light emitting diode (service monitor green)	R2T	Thermistor (coil)	SD	Safety devices input
BS1	Push button (forced defrost-pump down)	H1P,H2P	Light emitting diode (service monitor red)	R3T	Thermistor (discharge pipe)	T1R	Transformer (220-240V/19V)
C1R,C2R	Capacitor (M1F-M2F)	K1M	Magnetic contactor (M1C)	RC	Signal receiver circuit	TC	Signal transmission circuit
DS1	Selector switch (defrost)	M1C	Motor (compressor)	RyC	Magnetic relay (K1M)	X1M	Terminal strip
DS2	Selector switch (various see PCB)	M1F,M2F	Motor (fan)	RyF1-6	Magnetic relay (M1F-M2F)	Y1E	Expansion valve
DS3	Selector switch (emergency)	PRC	Phase reverse circuit	RyR	Magnetic relay (Y1S)	Y1R	4-way valve
F1C	Overcurrent relay (M1C)	Q1L,Q2L	Thermo switch (M1F)	RyS	Magnetic relay (Y1R)	Y1S	Solenoid valve
F1U,F2U	Fuse (250V, 5A)	Q3E	Earth leak detector	S1LP	Pressure switch (low)		
F3U	Field fuse	R1T	Thermistor (air)	S1PH	Pressure switch (high)		

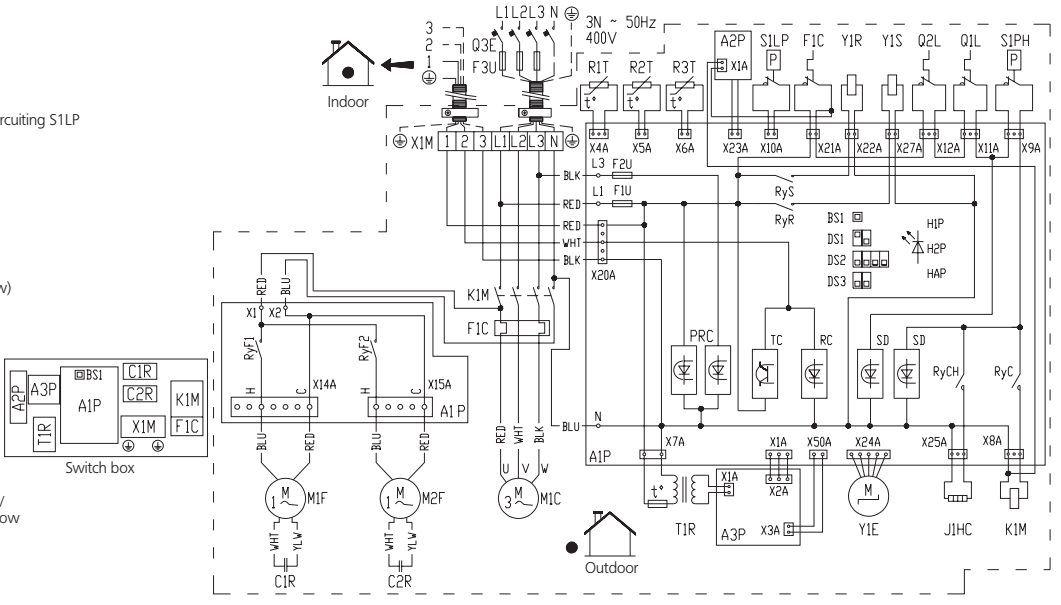
2TW23376-1A

RYP200-250B7W1

Note:
Do not operate the unit by short-circuiting S1LP

Field wiring
Terminal
: Connector
: Wire clamp
: Protective earth (screw)
L : Live
N : Neutral

Colours
BLK: Black/ BLU: Blue/ WHT: White/
RED: Red/ ORG: Orange/ YLW:Yellow

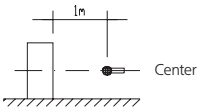


L1-RED	L2-WHT	L3-BLK	N-BLU				
A1P,A2P,A3P	Printed circuit board	HAP	Light emitting diode (service monitor green)	R1T	Thermistor (air)	S1LP	Pressure switch (low)
BS1	Push button (forced defrost-pump down)	H1P,H2P	Light emitting diode (service monitor red)	R2T	Thermistor (coil)	S1PH	Pressure switch (high)
C1R,C2R	Capacitor (M1F-M2F)	J1HC	Crankcase heater	R3T	Thermistor (discharge pipe)	SD	Safety devices input
DS1	Selector switch (defrost)	K1M	Magnetic contactor (M1C)	RC	Signal receiver circuit	T1R	Transformer (230V/20.1V)
DS2	Selector switch (various see PCB)	M1C	Motor (compressor)	RyC	Magnetic relay (K1M)	TC	Signal transmission circuit
DS3	Selector switch (emergency)	M1F,M2F	Motor (fan)	RyCH	Magnetic relay (J1HC)	X1M	Terminal strip
F1C	Overcurrent relay	PRC	Phase reverse circuit	RyF1-2	Magnetic relay (M1F-M2F)	Y1E	Expansion valve
F1U,F2U	Fuse (250V, 10A)	Q1L,Q2L	Thermo switch (M1F)	RyR	Magnetic relay (Y1S)	Y1R	4-way valve
F3U	Field fuse	Q3E	Earth leak detector	RyS	Magnetic relay (Y1R)	Y1S	Solenoid valve

2TW23636-1B

8 Sound level

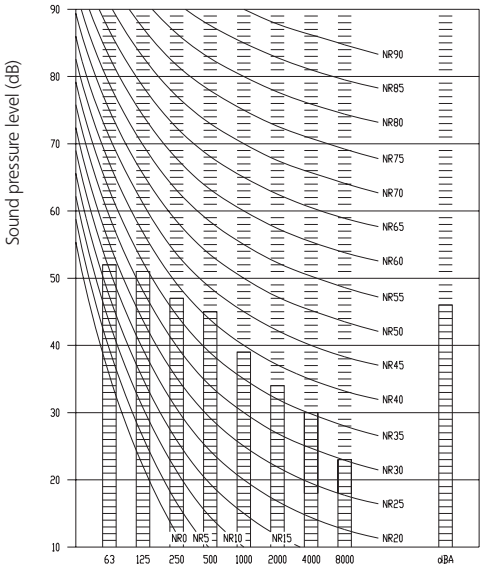
8-1 Sound level data

Model	Sound pressure level		Measuring location	Sound power (H) (cooling/heating)
	50Hz			
	H (cooling)	H (heating)		
RY35EAZ7	46	48		59/60
RY45EAZ7	47	48		60/61
RYP71B7	50	52		63/–
RYP100B7	53	56		66/–
RYP125B7	53	56		67/–
RYP200B7	57	57		77/78
RYP250B7	57	57		77/78

8-2 Sound spectrum

RY35EAZ7

Cooling

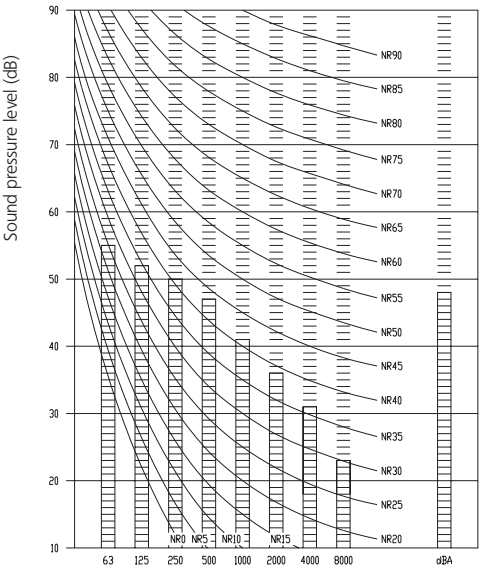


3TW01327-1

Octave band center frequency (Hz)

RY35EAZ7

Heating



3TW01327-1

Octave band center frequency (Hz)

Legend

High speed

Low speed

NOTES

1 Data is valid at free field condition

2 Operation sound levels are valid at nominal operation condition 230V

3 dBA = A-weighted sound pressure level (A-scale according to IEC)

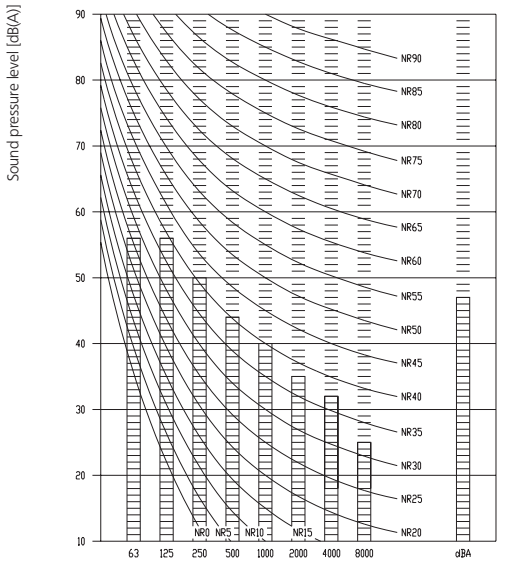
4 Reference acoustic pressure 0dB = 20μPa

8 Sound level

8-2 Sound pressure spectrum

RY45EAZ7

Cooling

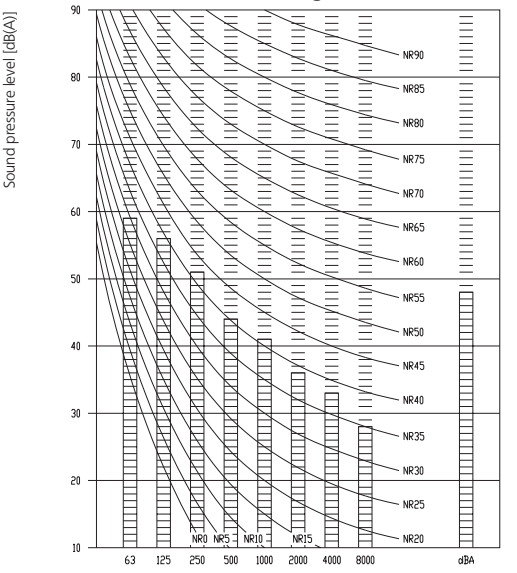


3TW01337-1

Octave band center frequency (Hz)

RY45EAZ7

Heating

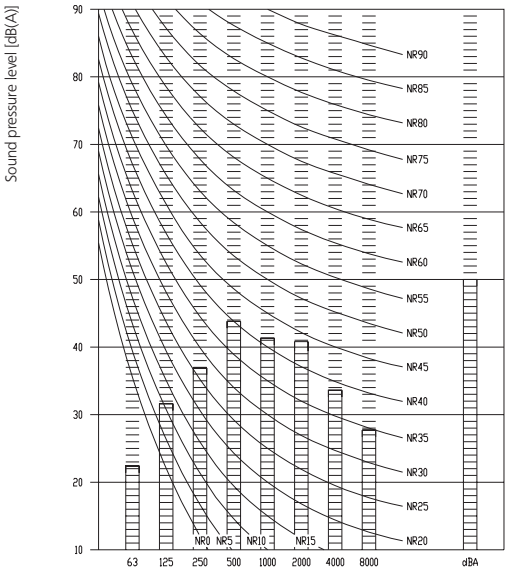


3TW01337-1

Octave band center frequency (Hz)

RYP71B7

Cooling

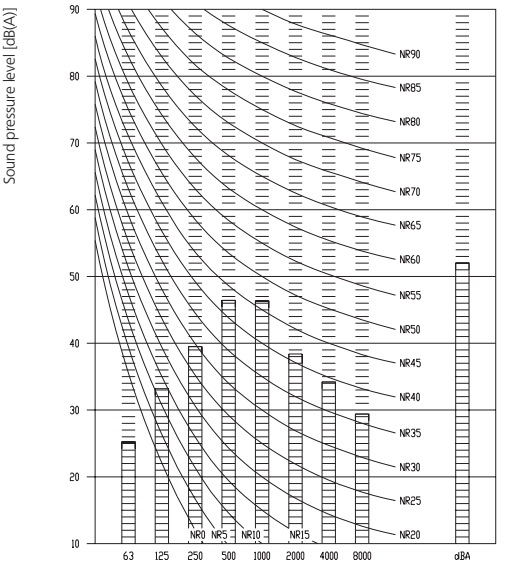


3TW23287-1

Octave band center frequency (Hz)

RYP71B7

Heating



3TW23317-2

Octave band center frequency (Hz)

NOTES

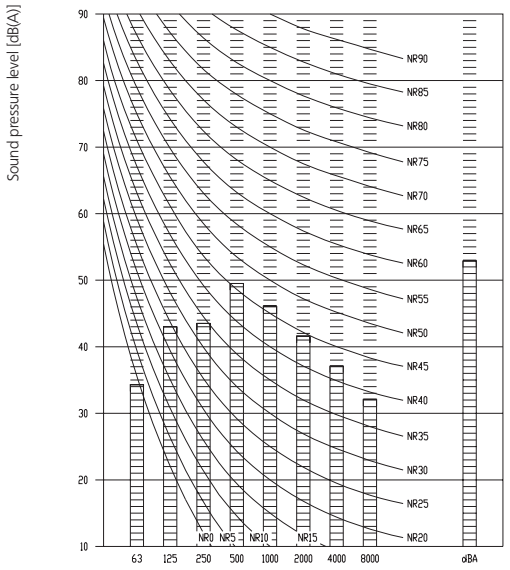
1 Data is valid at free field condition
2 Operation sound levels are valid at nominal operation condition
3 dBA = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20μPa

8 Sound level

8-2 Sound pressure spectrum

RYP100B7

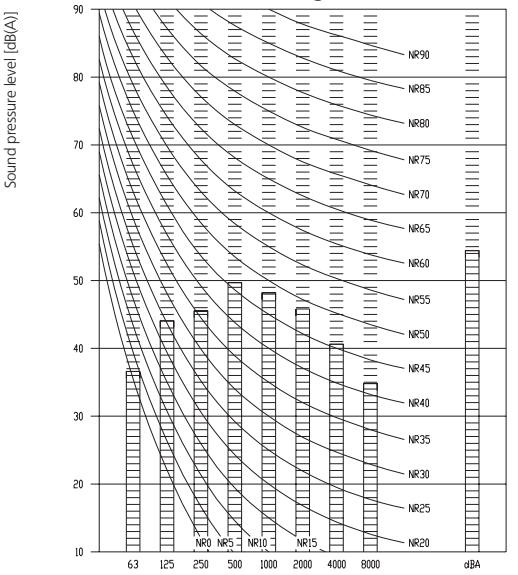
Cooling



3TW23337-1

RYP100B7

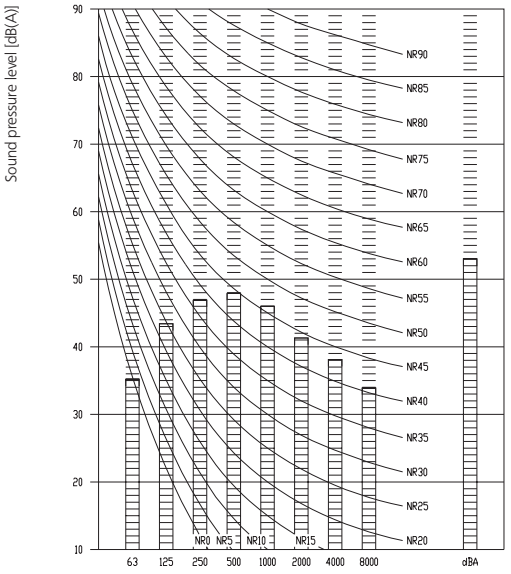
Heating



3TW23367-2

RYP125B7

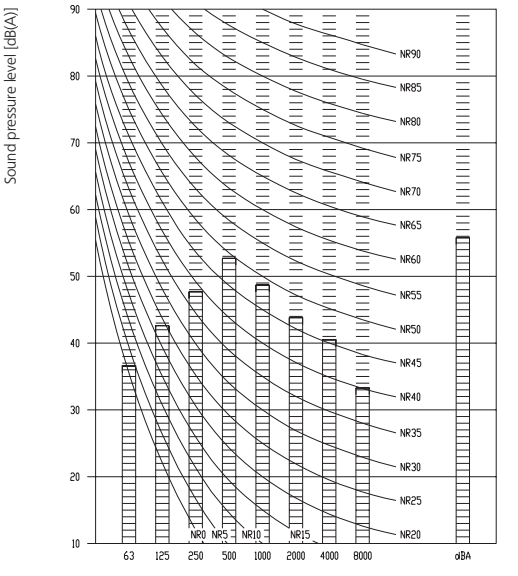
Cooling



3TW23387-1

RYP125B7

Heating



3TW23407-2

NOTES

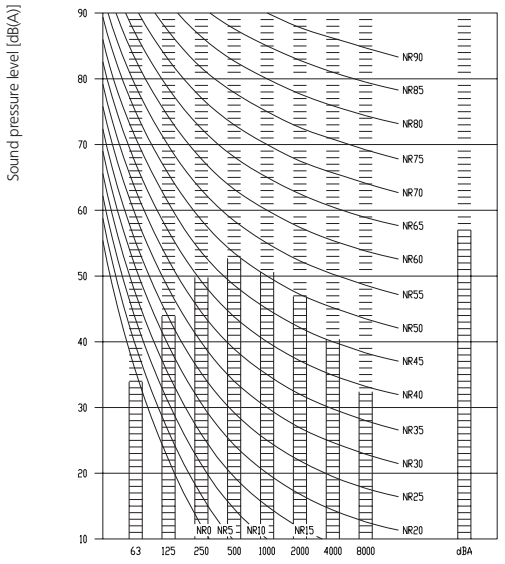
1 Data is valid at free field condition
2 Operation sound levels are valid at nominal operation condition
3 dBA = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20μPa

8 Sound level

8-2 Sound pressure spectrum

RYP200B7

Cooling

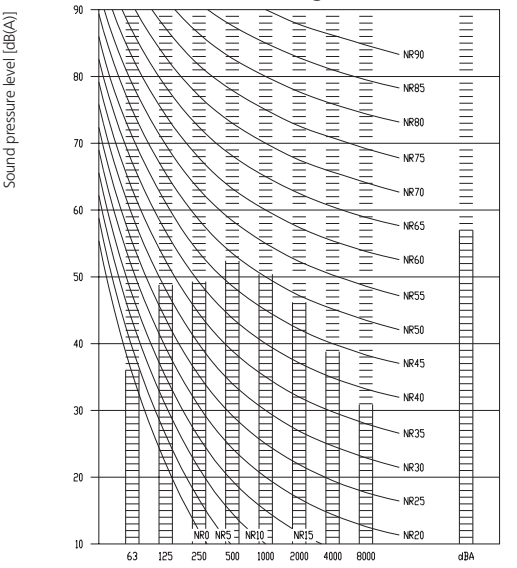


3TW23637-1

Octave band center frequency (Hz)

RYP200B7

Heating

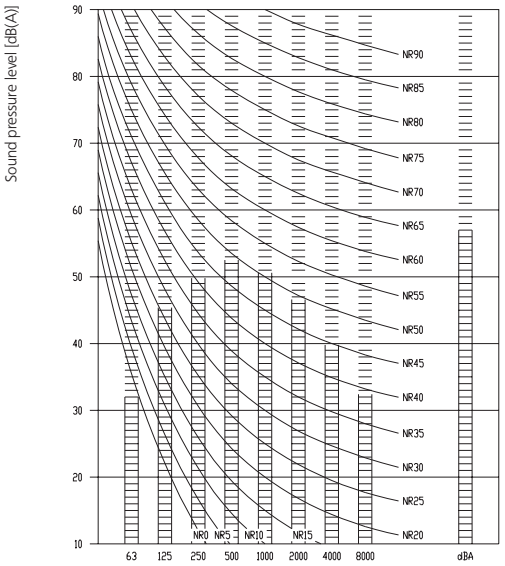


3TW23637-1

Octave band center frequency (Hz)

RYP250B7W1

Cooling

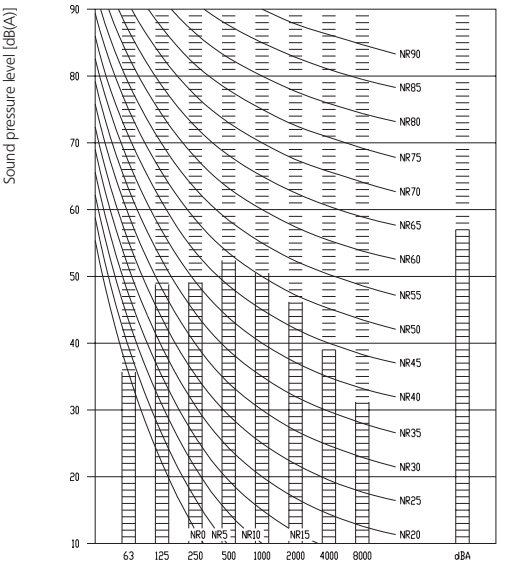


3TW23647-1

Octave band center frequency (Hz)

RYP250B7W1

Heating



3TW23647-1

Octave band center frequency (Hz)

NOTES

1 Data is valid at free field condition

2 dBA = A-weighted sound pressure level (A-scale according to IEC)

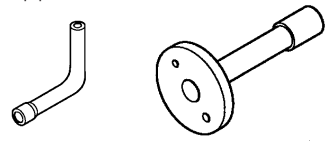
3 Reference acoustic pressure 0dB = 20μPa

9 Accessories

9-1 Standard accessories

RYP200-250B7

Gas pipes



9-2 Optional accessories

RY35-45EAZ7

Model \ Option kit	EKDK02	EKDK03
RY35-45EAZ7V1	○	○

EKDKO2: drain kit (10 x joint)
EKDK03: drain kit (20 x cap)

4TW00029-1

RYP71-125B7
Available options for RYP71-125B7(V1,W1)

Name of option		Kit name		
		RYP71B	RYP100B	RYP125B
Central drain plug		KKPJ5F180		
Refrigerant branch piping	Twin	KHRP79BA7		
	Triple	~	KHRP96H7	

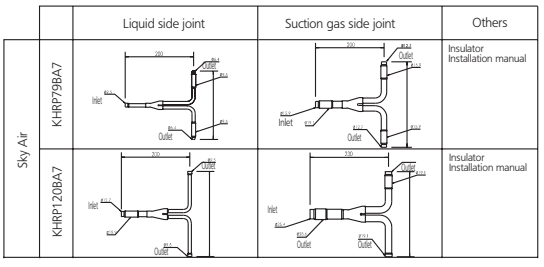
3TW23189-1

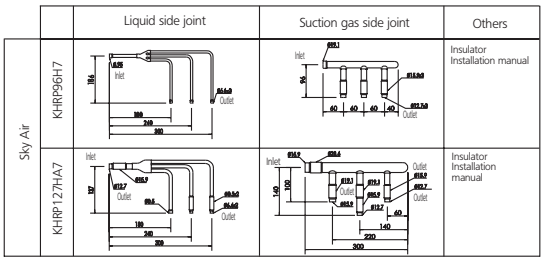
RYP200-250B7
Available options for RYP200-250B7W1

Option	Option name	RYP200B	RYP250B
Fan motor size up	NFM22C5	X	X
Kit for discharge duct	EKND26A10	X	X
Refnet	KHRP79BA7	Refer to the table with possible indoor combinations*	
Refnet	KHRP102BA7		
Refnet	KHRP127HA7		

3TW23619-2

*Table with possible indoor combinations = combination matrix 3TW23619-1 (See chapter RY-EAZ7/RYP-B7, twin/triple/double twin application)

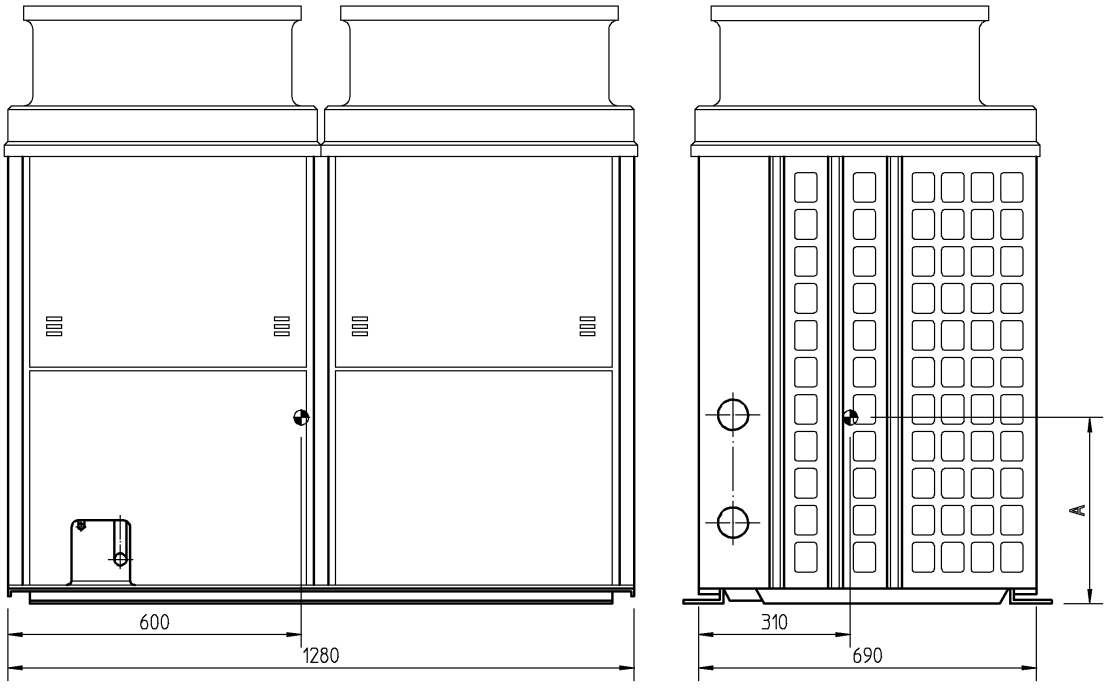




1TW21559-11A

10 Centre of gravity

RYP200-250



4TW23619-1

Model	A
RYP200B7W1	380
RYP250B7W1	510

11 Safety device settings

Split unit

Model Safety device	RY35EAZ7V1	RY45EAZ7V1
Fan motor Thermal protector	Off 135 ±5°C On 86 ±15°C	Off 135 ±5°C On 87 ±15°C
Compressor Internal protector	Off 180 ±5°C On 100 ±15°C	Off 175 ±5°C On 100 ±10°C
Overload relay	Off 130 ±5°C On 95 ±10°C	Off 120 ±3°C On 95 ±10°C
Overcurrent relay	~	~

4TW01321-2A

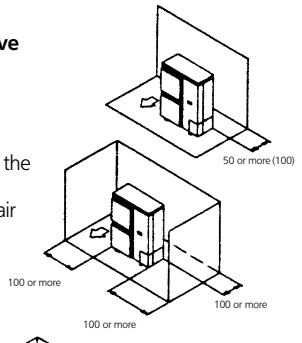
12 Installation

The numerical figures used here represent the dimensions for the models RYP71 to RYP25. The figures inside () indicate the dimensions for the models RYP100 and RY125. (Unit: mm)
The figures inside < > indicate the dimension of discharge grille when it is installed facing downward
When installing multiple units in lateral connection, discharge grille cannot be set to discharge air in Left/Right direction

(A) In case obstacles exist in front of the air inlet

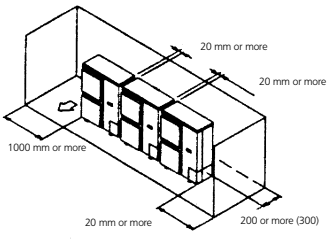
- **Where there are no obstacles above the unit**

1 Installation of single unit
- In case obstacles exist only in front of the air inlet.
- In case obstacles exist in front of the air inlet and on both sides of the unit.



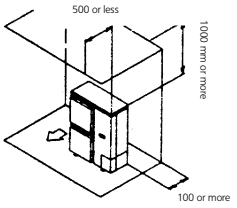
2 Installation of multiple units in lateral connection (2 units or more).

- In case obstacles exist in front of the air inlet and on both sides of the unit.

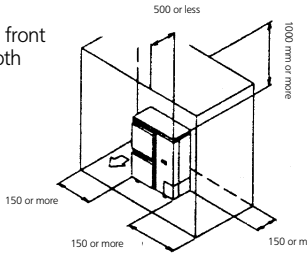


- **Where there are obstacles above the unit.**

1 Installation of single unit
- In case obstacles exist only in front of the air inlet.

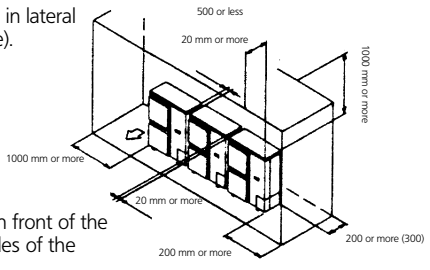


- In case obstacles exist in front of the air inlet and on both sides of the unit.



2 Installation of multiple units in lateral connection (2 units or more).

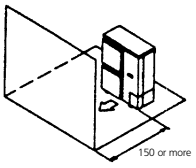
- In case obstacles exist in front of the air inlet and on both sides of the unit.



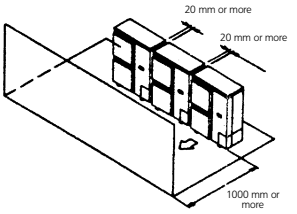
(B) In case obstacles exist only in front of outlet side

- **Where there are no obstacles above the unit.**

1 Installation of single unit
- In case obstacles exist only in front of outlet side.

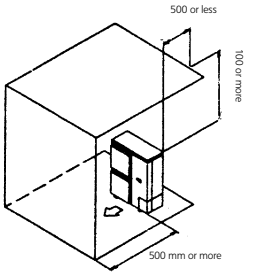


2 Installation of multiple units in lateral connection (2 units or more).



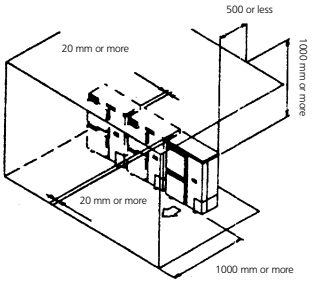
- **Where there are obstacles above the unit.**

1 Installation of single unit
- In case obstacles exist only in front of outlet side.



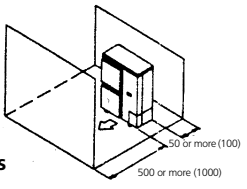
2 Installation of multiple units in lateral connection (2 units or more).

- In case obstacles exist only in front of outlet side.



(C) In case obstacles exist in front of both the air inlet and outlet sides.

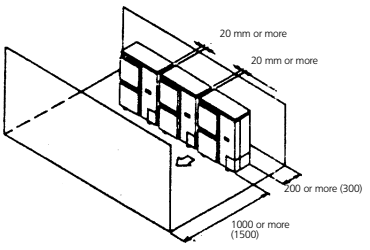
Pattern 1 — Where obstacle in front of the air outlet is higher than the unit.



- **Where there are no obstacles above the unit.**

1 Installation of single unit.

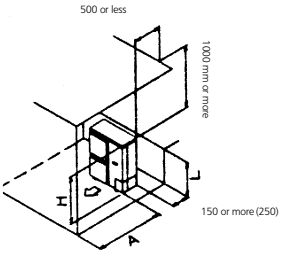
2 Installation of multiple units in lateral connection (2 units or more).



12 Installation

- **Where there are obstacles above the unit.**

1 Installation of single unit.

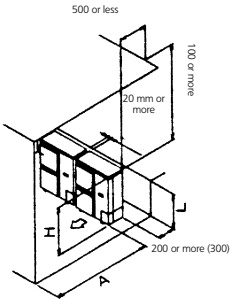


Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	750<1250>
	1/2 H < L	1000<1500>
H < L	Set the frame to be L<=H	

Get the lower part of the frame sealed so that air from the outlet does not bypass

2 Installation of multiple units in lateral connection (2 units or more).



Relation of dimensions of H, A, and L are shown in the table below.

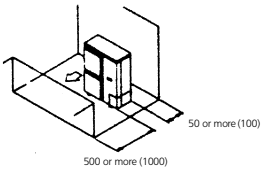
	L	A
L ≤ H	0 < L ≤ 1/2 H	1000<1500>
	1/2 H < L	1250<1750>
H < L	Set the frame to be L<=H	

Get the lower part of the frame sealed so that air from the outlet does not bypass
Do not install more than 2 units

Pattern 2 — Where obstacle in front of the air outlet is lower than the unit.

- **Where there are no obstacles above the unit.**

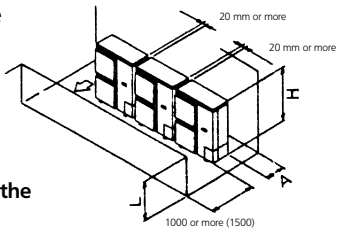
1 Installation of single unit.



2 Installation of multiple units in lateral connection (2 units or more).

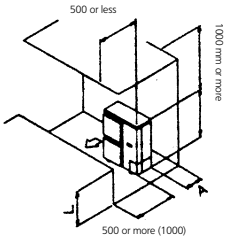
Relation of dimensions of H, A, and L are shown in the table below.

L	A
0 < L ≤ 1/2 H	150 (250)
1/2 H < L	200 (300)



- **Where there are obstacles above the unit.**

1 Installation of single unit.



Relation of dimensions of H, A, and L are shown in the table below.

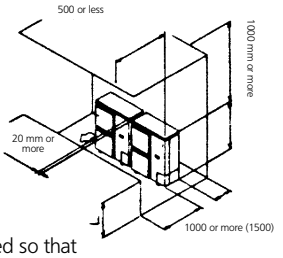
	L	A
L ≤ H	0 < L ≤ 1/2 H	50 (100)
	1/2 H < L	100 (200)
H < L	Set the frame to be L<=H	

Get the lower part of the frame sealed so that air from the outlet does not bypass

2 Installation of multiple units in lateral connection (2units or less).

Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Set the frame to be L<=H	

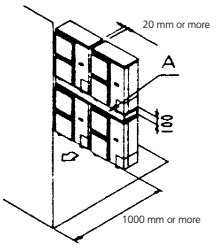


Get the lower part of the frame sealed so that air from the outlet does not bypass

Do not install more than 2 units

(D) In case of stacked installation

1 In case obstacles exist in front of the outlet side.

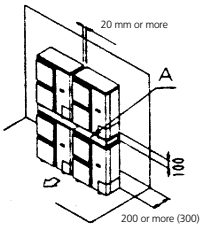


Do not stack more than one unit.

About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.

Get the portion A sealed so that air from the outlet does not bypass.

2 In case obstacles exist in front of the air inlet.



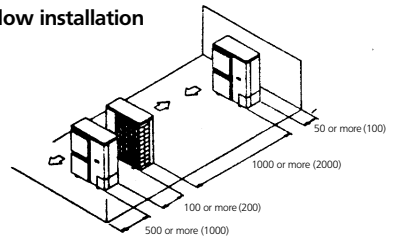
Do not stack more than one unit.

About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.

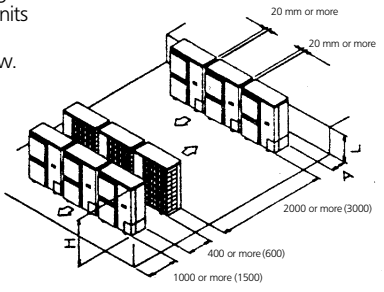
Get the portion A sealed so that air from the outlet does not bypass.

(E) In case of multiple-low installation (for roof top use, etc.).

1 In case of installing one unit per row.



2 In case of installing multiple units (2 units or more) in lateral connection per row.



Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

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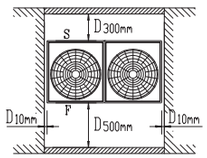
12 Installation

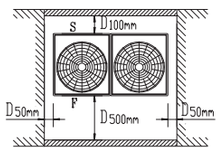
RYP200-250B7

Single installation

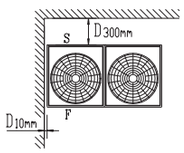
Case 1



Case 2

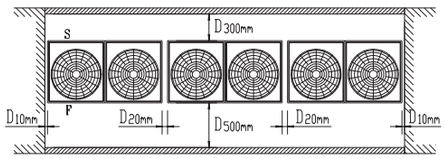


Case 3

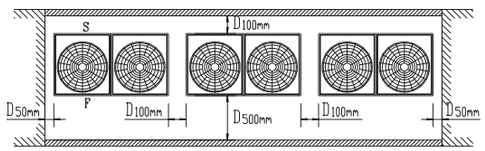


Installation in a row

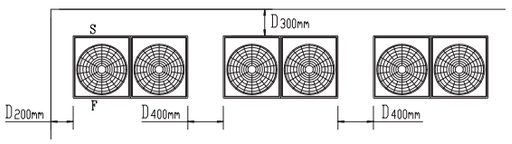
Case 1

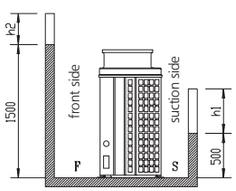


Case 2



Case 3





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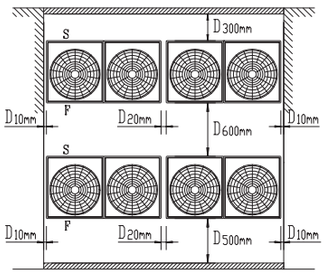
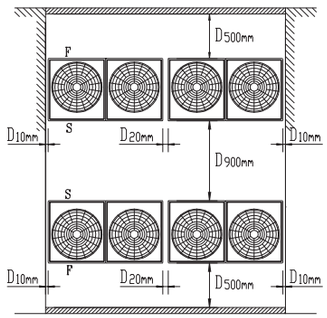
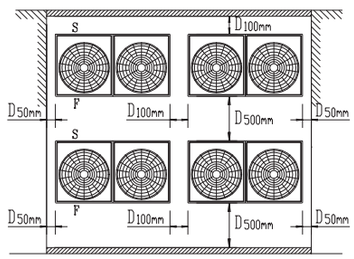
Conentrated installation

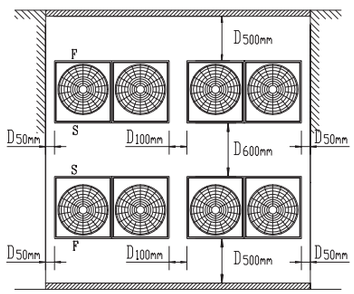
Case 1





Case 2





1 Case 1and case 2
- Front wall height is 1500mm
- Suction wall height is 500mm
- Side wall height has no limit
- Case 3 wall height has no limit

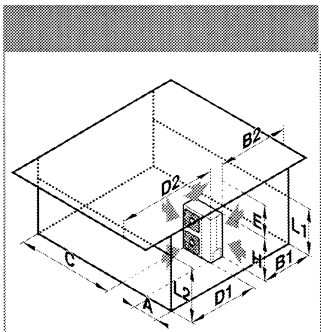
2 If the wall is higher than mentioned in note 1: ADO h2/2 (front side) and ANO h1/2 (suction side) to the mentioned values for installation. (h1 and h2: see figure to the left)

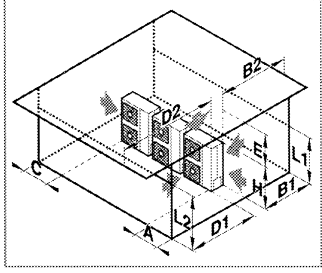
3 Before installing, please check the passage of humans and air at the side, and select a place which is suitable for the case. (If there are a lot of units to be installed, take care that there is no shortcircuit of air)

4 Please install considering piping installation at the front side.

12 Installation

Non stacked installation





							A	B1	B2	C	D1	D2	E	L1/L2
✓								≥50(100)						
✓		✓	✓				≥100	≥100		≥100				
✓				✓				≥100				≤500	≥1000	
✓		✓	✓	✓			≥150	≥150		≥150		≤500	≥1000	
	✓										≥500			
	✓			✓					≤500		≥500		≥1000	
✓	✓				L1<L2			≥50(100)			≥500			
					L2<L1			≥50(100)			≥500			
✓	✓			✓	L1<L2	L1≤H		≥150(250)	≤500		≥750 ≥1000		≥1000	0<L1≤1/2H 1/2H<L1
						H<L1	L≤H							
					L2<L1	L2≤H		≥50(100) ≥100(200)			≥500	≥500	≥1000	0<L2≤1/2H 1/2H<L2
						H<L2	L≤H							
✓		✓	✓				≥200	≥200(300)		≥1000				
✓		✓	✓	✓			≥200	≥200(300)		≥1000		≤500	≥1000	
	✓								≤500		≥1000		≥1000	
	✓			✓	L1<L2			≥200(300)			≥1000			
✓	✓				L2<L1			≥150(250) ≥200(300)			≥1000			0<L1≤1/2H 1/2H<L
✓	✓			✓	L1<L2	L1≤H		≥200(300)	≤500		≥1000 ≥1250		≥1000	0<L1≤1/2H 1/2H<L1
						H<L1	L≤H							
					L2<L1	L2≤H		≥150(250) ≥200(300)			≥1000	≤500	≥1000	0<L2≤1/2H 1/2H<L2
						H<L2	L≤H							

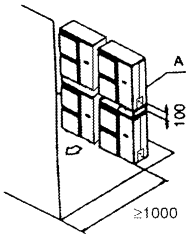
When installing link of multiple units, leave a space of 200 mm or more between the casing of one unit and the stop valves of the other unit.

Legend

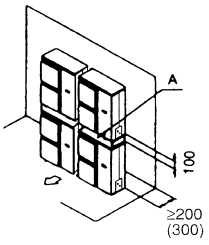
- Suction side obstacle
- Discharge side obstacle
- Left side obstacle
- Right side obstacle
- Top side obstacle
- ✓ Obstacle is present

Stacked installation

Obstacles exist in front of the outlet side



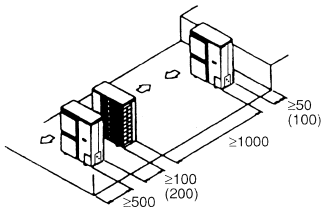
Obstacles exist in front of the air inlet



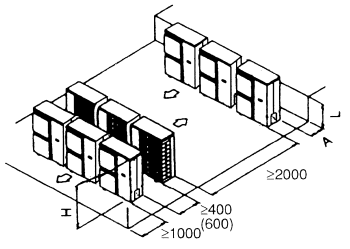
Do not stack more than one unit
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe
Get the portion A sealed so that air from the outlet does not bypass

Multiple-row installation

Installation of one unit per row



Installing multiple units (2 units or more) in lateral connection per row



Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

3TW23189-4

12 Installation

Refrigerant pipe size

1. Pair system (fig. 1)

Outdoor unit	Refrigerant pipe size	
	Gas pipe	Liquid pipe
R(Y)P200	Φ 28.8	Φ 12.7
R(Y)P250	Φ 28.8	Φ 15.9

2. Simultaneous operation system

Twin and triple operation system (fig. 2 / fig. 3)
The pipes between the outdoor unit and the branch (L1) should have the same size as the outdoor connections.
The pipes between the branch and the indoor units (L2-L4) should have the same size as the indoor connections.
Branch: see marking '[ ]' on the figures.Double twin operation system (fig. 4)
The pipes between the outdoor unit and the branch (L1) should have the same size as the outdoor connections.
The pipes between the branch and the indoor units (L2-L4) should have the same size as the indoor connections.
Branch: see marking '[ ]' on the figures.

Outdoor unit	Refrigerant pipe size	
	Gas pipe	Liquid pipe
R(Y)P200,250	Φ 19.1	Φ 9.5

Additional charge

The units require additional charging of refrigerant, according to the length of pipe connected at the size.
The correct amount of refrigerant to charge 'G' (kg) can be lound by using the following formulas (If G<O: no addition is required).

1. Pair system

L1 (m) One way length of liquid pipe

RP200	G = (L1-30) * 0.06
RP250	G = (L1-30) * 0.09
RYP200	G = (L1-30) * 0.10
RYP250	G = (L1-30) * 0.14

2. Simultaneous operation system

L1 (m) One way length of main liquid pipe
L2-L7 (m) One way length of branched liquid pipes

RP200	G = (L1-30) * 0.06+L2*A+L3*A+L4*A+L5*A+L6*A+L7*A
RP250	G = (L1-30) * 0.09+L2*A+L3*A+L4*A+L5*A+L6*A+L7*A
RYP200	G = (L1-30) * 0.10+L2*A+L3*A+L4*A+L5*A+L6*A+L7*A
RYP250	G = (L1-30) * 0.14+L2*A+L3*A+L4*A+L5*A+L6*A+L7*A

Outdoor unit	Branched pipe	A
RP200,250	Φ 9.5	0.03 kg/m
RYP200,250	Φ 6.4	0.03 kg/m
	Φ 9.5	0.05 kg/m

Allowable pipe length

See the table below concerning lengths and heights. Refer to the figures. Assume that the longest line in the figure corresponds with the actual longest pipe, and the highest unit in the figure corresponds with the actual highest unit.

Maximum allowable pipe length (figures between parenthesis represent equivalent length)	Pair	L1	50m (70m)
	Twin/triple	L1+L2	
	Double twin	L1+L2+L4	
Maximum total one-way pipe length	Twin	L1+L2+L3	60m
	Triple	L1+L2+L3+L4	
	Double twin	L1+L2+L3+L4+L5+L6+L7	
Maximum branch pipe length	Twin/triple	L2	20m
	Double twin	L2+L4	
Maximum difference between branch lengths	Twin	L2-L3	10m
	Triple	L2-L4	
	Double twin	(L2+L4)-(L3+L7)	
Maximum difference between each 1st branch	Double twin	L2-L3	10m
Maximum difference between each 2nd branch	Double twin	L4-L5, L6-L7	10m
Maximum height between indoor and outdoor	All	H1	30m
Maximum height between indoors	Twin / triple / double twin	H2	0.5m

3TW23619-3

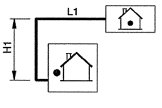


fig. 1: Pair

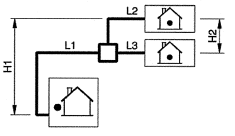


fig. 2: Twin

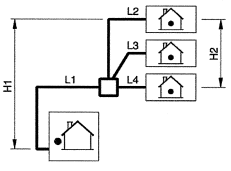


fig. 3: Triple

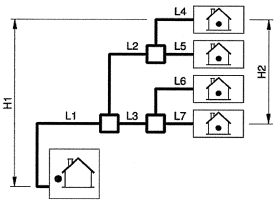


fig. 4: Double twin