

Air Conditioning Technical Data

RXP-L



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RXP-L

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1 Features

- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Outdoor units for pair application



2 Specifications

2-1 Capacity and Power input				FTXP20L/ RXP20L	FTXP25L/ RXP25L	FTXP35L/ RXP35L	FTXP50L/ RXP50L	FTXP60L/ RXP60L	FTXP71L/ RXP71L
Indoor unit				FTXP20L5V1B	FTXP25L5V1B	FTXP35L5V1B	-		
Outdoor unit				RXP20L5V1B	RXP25L5V1B	RXP35L5V1B	-		
Cooling capacity	Min.	kW		1.3			1.7		2.3
				4,435.8			5,800		7,848
				1,117.8			1,460		1,976
	Nom.	kW		2.00	2.50	3.50	5.0	6.0	7.1
				6,824.3	8,530.4	11,942.5	17,060	20,472	24,225
				1,719.7	2,149.6	3,009.5	4,295	5,154	6,099
	Max.	kW		2.6	3.0	4.0	6.0	7.0	7.3
				8,871.6	10,236.4	13,648.6	20,472	23,884	24,908
				2,235.6	2,579.5	3,439.4	5,154	6,013	6,271
Heating capacity	Min.	kW		1.30			1.7		2.3
				4,435.8			5,800		7,848
				1,117.8			1,460		1,976
	Nom.	kW		2.50	3.00	4.00	6.0	7.0	8.2
				8,530.4	10,236.4	13,648.6	20,472	23,884	27,978
				2,149.6	2,579.5	3,439.4	5,154	6,013	7,044
	Max.	kW		3.50	4.00	4.80	7.70	8.00	9.00
				11,942.5	13,648.6	16,378.3	26,272	27,296	30,708
				3,009.5	3,439.4	4,127.3	6,614	6,872	7,731
Power input	Cooling	Min.	kW	0.31		0.29	0.320	0.332	0.449
		Nom.	kW	0.50	0.65	1.01	1.385	1.824	2.689
		Max.	kW	0.72		1.30	1.826	2.980	3.274
	Heating	Min.	kW	0.25		0.29	0.440	0.456	0.617
		Nom.	kW	0.52	0.69	1.00	1.579	1.928	2.571
		Max.	kW	0.95		1.29	2.356	2.787	3.306
Space cooling	Capacity	Pdesign	kW	2.00	2.50	3.50	5.00	6.00	7.10
	Energy efficiency class			A++					A
	SEER			6.79	6.92	6.62	6.72	6.82	5.30
	Annual energy consumption			kWh/a	104	127	186	261	469
	A Condition (35°C - 27/19)	Pdc	kW	2.00	2.50	3.50	5.00	6.00	7.10
		EERd		4.02	3.83	3.49	3.61	3.29	2.64
		Power input	kW	0.50	0.65	1.01	1.39	1.82	2.69
	B Condition (30°C - 27/19)	Pdc	kW	1.47	1.84	2.58	3.68	4.42	5.23
		EERd		5.12	5.19	4.40	5.07	4.82	4.15
		Power input	kW	0.29	0.35	0.59	0.73	0.92	1.26
	C Condition (25°C - 27/19)	Pdc	kW	1.24	1.45	1.66	2.37	2.84	3.36
		EERd		8.51	8.54	8.09	7.48	7.99	6.30
		Power input	kW	0.15	0.17	0.21	0.32	0.36	0.53
	D Condition (20°C - 27/19)	Pdc	kW	1.32	1.34	1.36	2.12	2.39	2.60
		EERd		13.15	13.19	13.38	12.70	13.50	8.21
		Power input	kW	0.10			0.17	0.18	0.32

2 Specifications

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2-1 Capacity and Power input					FTXP20L/ RXP20L	FTXP25L/ RXP25L	FTXP35L/ RXP35L	FTXP50L/ RXP50L	FTXP60L/ RXP60L	FTXP71L/ RXP71L	
Space heating (Average climate)	Capacity	Pdesign	kW		2.20	2.40	2.80	4.60	4.80	6.20	
	Energy efficiency class				A++			A+		A	
	SCOP/A				4.65	4.61	4.64	4.10		3.81	
	SCOPnet/A				4.69	4.65	4.68	4.12		3.83	
	Pdh Heating capacity at -10°		kW		1.99	2.10	2.33	4.12	4.24	5.02	
	Annual energy consumption		kWh/a		662	728	845	1,570	1,637	2,278	
	Required back up heating cap at design conditions		kW		0.21	0.30	0.47	0.48	0.56	1.18	
	TOL	Tol (temperature operating limit)	°C	-15							
				Pdh (declared heating cap)	kW	2.05	2.07	2.09	4.20	4.22	4.24
				COPd (declared COP)		2.24	2.26	2.28	2.06	1.81	1.96
				Power input	kW	0.92			2.04	2.33	2.16
	TBivalent	Tbiv (bivalent temperature)	°C	-7							
				Pdh (declared heating cap)	kW	1.95	2.12	2.48	4.07	4.25	5.48
				COPd (declared COP)		3.26	3.22	3.19	2.76	2.25	2.26
				Power input	kW	0.60	0.66	0.78	1.47	1.89	2.43
	A Condition (-7°C)	Pdh (declared heating cap)	kW	1.95	2.12	2.48	4.07	4.25	5.48		
				COPd (declared COP)		3.26	3.22	3.19	2.76	2.25	2.26
				Power input	kW	0.60	0.66	0.78	1.47	1.89	2.43
	B Condition (2°C)	Pdh (declared heating cap)	kW	1.18	1.29	1.51	2.48	2.58	3.34		
				COPd (declared COP)		4.66	4.61	4.59	4.01	4.34	3.91
				Power input	kW	0.25	0.28	0.33	0.62	0.60	0.85
	C Condition (7°C)	Pdh (declared heating cap)	kW	0.91	0.93	0.97	1.59	1.66	2.15		
				COPd (declared COP)		5.86	5.79	5.84	5.17	5.30	4.71
				Power input	kW	0.16		0.17	0.31		0.46
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.09	1.11	1.13	1.80	2.00	2.07		
				COPd (declared COP)		7.50	7.35	7.38	6.96	6.41	6.74
				Power input	kW	0.15			0.26	0.31	
Current	Nominal running current (RLA) - 50Hz	Cooling	A		2.47	3.25	5.42	6.3	8.0	11.8	
		Heating	A		2.67	3.50	5.03	7.1	8.5	11.3	
Cooling	Cdc (Degradation cooling)				0.25						
Heating	Cdh (Degradation heating)				0.25						
Cooling function included					Yes						
Heating function included					Yes						
Average climate included					Yes						
Cold season included					No			-			
Warm season included					Yes						
Ecolabel logo					No			-			
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	60		62	61	63	66	
	Sound power level indoor	Cooling	Nom.	dBA	55		58	59	60	62	
	Piping length	Cooling	Measuring condition	m	5.0						
Nominal efficiency	EER				4.02	3.83	3.49	3.61	3.29	2.64	
	COP				4.77	4.36	4.02	3.80	3.63	3.19	
	Annual energy consumption			kWh	-			693 (1)	912 (1)	1,345 (1)	
	Energy labeling Directive	Cooling			A			-			
Heating			A			-					

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2 Specifications

2-1 Capacity and Power input				FTXP20L/ RXP20L	FTXP25L/ RXP25L	FTXP35L/ RXP35L	FTXP50L/ RXP50L	FTXP60L/ RXP60L	FTXP71L/ RXP71L
Power consumption in other than active mode	Crankcase heater mode	PCK	W	0.0					
	Off mode	POFF	W	1.0					
	Standby mode	Cooling	PSB	W	1.0				
		Heating	PSB	W	1.0		-		
	Thermostat-off mode	PTO	Cooling	W	12				14
			Heating	W	12				14
Power factor	Nominal	Cooling	%	88.6 (1)		81.9 (1)	95.60 (1)	99.10 (1)	
		Heating	%	85.5 (1)		86.0 (1)	96.70 (1)	99.20 (1)	98.90 (1)
Space heating (Warm climate)	Capacity	Pdesignh	kW	1.18	1.29	1.51	2.48	2.58	3.34
	Energy efficiency class			A+++					
	SCOP			5.65	5.63	5.79	5.18	5.20	5.12
	SCOPnet			5.83	5.79	5.93	5.25	5.27	5.17
	Annual energy consumption		kWh/a	293	321	366	669	696	913
	Required back up heating cap at design conditions		kW	0.00					
	TOL	Tol (temperature operating limit)	°C	-15					
		Pdh (declared heating cap)	kW	2.05	2.07	2.09	4.20	4.22	4.24
		COPd (declared COP)		2.24	2.26	2.28	2.06	1.81	1.96
		Power input	kW	0.92			2.04	2.33	2.16
	TBivalent	Tbiv (bivalent temperature)	°C	2					
		Pdh (declared heating cap)	kW	1.18	1.29	1.51	2.48	2.58	3.34
		COPd (declared COP)		4.66	4.61	4.59	4.01	4.34	3.91
		Power input	kW	0.25	0.28	0.33	0.62	0.60	0.85
	B Condition (2°C)	Pdh (declared heating cap)	kW	1.18	1.29	1.51	2.48	2.58	3.34
		COPd (declared COP)		4.66	4.61	4.59	4.01	4.34	3.91
		Power input	kW	0.25	0.28	0.33	0.62	0.60	0.85
	C Condition (7°C)	Pdh (declared heating cap)	kW	0.91	0.93	0.97	1.59	1.66	2.15
		COPd (declared COP)		5.86	5.79	5.84	5.17	5.30	4.71
		Power input	kW	0.16		0.17	0.31		0.46
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.09	1.11	1.13	1.80	2.00	2.07
		COPd (declared COP)		7.50	7.35	7.38	6.96	6.41	6.74
		Power input	kW	0.15			0.26	0.31	

Notes

(1) See separate drawing for electrical data

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2-2 Technical Specifications				RXP20L	RXP25L	RXP35L	RXP50L	RXP60L	RXP71L
Capacity control	Method			Variable (inverter)					
Casing	Colour			Ivory white					
Dimensions	Unit	Height	mm	550			734		
		Width	mm	658			870		
		Depth	mm	275			373		
	Packed unit	Height	mm	630			820		
		Width	mm	790			1,050		
		Depth	mm	400			480		
Weight	Unit		kg	26		28	46.0	50.0	
	Packed unit		kg	28		30	50.0	54.0	
Packing	Weight		kg	2			4.0		

2 Specifications

2-2 Technical Specifications					RXP20L	RXP25L	RXP35L	RXP50L	RXP60L	RXP71L
Heat exchanger	Length		mm		670		647	943	920	
	Rows	Quantity			1		2	1	2	
	Fin pitch		mm		1.40					
	Stages	Quantity			24			32		
	Passes	Quantity			1.6		3.1	2.2		
	Tube type				ø7 Hi-XD					
	Tube material				Copper			-		
	Fin	Type			Waffle fin (PE)					
Compressor	Model				1YC25KXD#C			2YC40JXD#C		
	Oil Amount			cm³	375			650		
	Type				Hermetically sealed swing compressor					
	Output			W	870			1,300.0		
	Oil Type				FW68DA					
Fan	Type				Propeller			Propeller fan		
	Air flow rate	Cooling	High	m³/min	27.6		28.2	-		
				cfm	975		996	-		
			Nom.	m³/min	-			43.2	47.8	
				cfm	-			1,527	1,689	
		Heating	High	m³/min	27.1		26.8	-		
				cfm	957		946	-		
	Nom.		m³/min	-			43.2	45.3		
	cfm	-			1,527	1,600				
Fan motor	Model				ZWA138S28A			D90B-37		
	Insulation grade				Class "E"			-		
	Output			W	21			58	81	
	Speed	Cooling	High	rpm	840			780	840	
			Nom.	rpm	-			710	780	
			Low	rpm	700			710	780	
		Heating	High	rpm	870		840	710	740	
			Nom.	rpm	-			710	740	
Low			rpm	720			710	740		
Sound power level	Cooling			dBA	60		62	61	63	66
	Heating			dBA	61		62	61	63	65
Sound pressure level	Cooling	High		dBA	46		48	-		
		Nom.		dBA	-			47	49	52
	Heating	High		dBA	47		48	-		
		Nom.		dBA	-			49		52
Operation range	Cooling	Ambien t	Min.	°CDB	-			-10		
			Max.	°CDB	-			46		
	Heating	Ambien t	Min.	°CWB	-			-15		
			Max.	°CWB	-			18		
Refrigerant	Type				R-32					
	Charge			kg	0.65		0.70	0.90	1.15	
				TCO ₂ eq	0.44		0.48	0.61	0.78	
	GWP				675.0					
Piping connections	Liquid	OD		mm	6,35			6,4		
	Gas	OD		mm	9.5			12.7		
	Drain	OD		mm	18			16		
	Piping length	OU - IU	Max.	m	15			30		
	Additional refrigerant charge				kg/m	0.02 (for piping length exceeding 10m)				
	Level difference	IU - OU	Max.	m	12			20		
	Heat insulation				-			Both liquid and gas pipes		

Standard Accessories : Drain plug; Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Refrigerant charge label; Quantity : 1;

Standard Accessories : Multilingual fluorinated greenhouse gases labels; Quantity : 1;

2 Specifications

Standard Accessories : General safety precautions; Quantity : 1;

Standard Accessories : Drain cap (1); Quantity : 6;

Standard Accessories : Drain cap (2); Quantity : 3;

2-3 Electrical Specifications			RXP20L	RXP25L	RXP35L	RXP50L	RXP60L	RXP71L
Power supply	Phase		1~					
	Frequency	Hz	50					
	Voltage	V	220-240					
Current - 50Hz	Maximum fuse amps (MFA)	A	-			16		
Wiring connections	For power supply	Quantity	3					
		Remark	Earth wire included					
	For connection with indoor	Quantity	4					
		Remark	Earth wire included					

Notes

See separate drawing for operation range

See separate drawing for electrical data

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

RXP20-35L

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor unit	Outdoor units	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTXP20L2V1B	RXP20L5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	36,0	2,8	0,024	0,17	0,024	0,34
		50	230	Minimum ·50·Hz ·198·V								
		50	240									
FTXP25L2V1B	RXP25L5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	48,0	3,3	0,024	0,17	0,024	0,34
		50	230	Minimum ·50·Hz ·198·V								
		50	240									
FTXP35L2V1B	RXP35L5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	70,0	4,7	0,021	0,16	0,037	0,45
		50	230	Minimum ·50·Hz ·198·V								
		50	240									
ATXP20L2V1B	ARXP20L5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	36,0	2,8	0,024	0,17	0,024	0,34
		50	230	Minimum ·50·Hz ·198·V								
		50	240									
ATXP25L2V1B	ARXP25L5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	48,0	3,3	0,024	0,17	0,024	0,34
		50	230	Minimum ·50·Hz ·198·V								
		50	240									
ATXP35L2V1B	ARXP35L5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	70,0	4,7	0,021	0,16	0,037	0,45
		50	230	Minimum ·50·Hz ·198·V								
		50	240									
FTXF20A2V1B	RXF20A5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	36,0	2,8	0,024	0,17	0,024	0,34
		50	230	Minimum ·50·Hz ·198·V								
		50	240									
FTXF25A2V1B	RXF25A5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	48,0	3,3	0,024	0,17	0,024	0,34
		50	230	Minimum ·50·Hz ·198·V								
		50	240									
FTXF35A2V1B	RXF35A5V1B	50	220	Maximum ·50·Hz ·264·V	10,4	16	70,0	4,7	0,021	0,16	0,037	0,45
		50	230	Minimum ·50·Hz ·198·V								
		50	240									

Symbols

- ① Hz
② Voltage
③ Voltage range

MCA: Minimum Circuit Amperes [A]

MFA: Maximum Fuse Amperes [A]

RLA: Rated Load Amperes [A]

COMP: Compressor

OFM: Outdoor fan motor

IFM: Indoor fan motor

FLA: Full Load Amperes [A]

kW: Fan motor rated output [kW]

RHz: Rated operating frequency [Hz]

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

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RXP50-71L

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Outdoor unit	Indoor unit	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTXP50L2V1B	RXP50L2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,5	16	54	6,5	0,080	0,53	0,045	0,43
		50	230					6,3				
		50	240					6,1				
FTXP60L2V1B	RXP60L2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,7	16	66	8,1	0,058	0,38	0,049	0,46
		50	230					8,0				
		50	240					7,9				
FTXP71L2V1B	RXP71L2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,7	16	84	11,9	0,058	0,38	0,049	0,46
		50	230					11,8				
		50	240					11,7				
FTXF50A2V1B	RXF50B2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,5	16	54	7,1	0,068	0,34	0,045	0,43
		50	230					6,9				
		50	240					6,8				
FTXF60A2V1B	RXF60B2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,7	16	66	8,2	0,068	0,34	0,049	0,46
		50	230					8,1				
		50	240					8,0				
FTXF71A2V1B	RXF71A2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,7	16	84	12,3	0,068	0,34	0,049	0,46
		50	230					12,2				
		50	240					12,1				

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
② Voltage
③ Voltage range

MCA Minimum Circuit Ampere [A]

MFA Maximum Fuse Ampere [A]

RLA Rated load amps [A]

COMP Compressor

OFM Outdoor fan motor

IFM Indoor fan motor

FLA Full Load Ampere [A]

kW Fan motor rated output [kW]

RHz Rated operating frequency [Hz]

3D115378

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

RXP20L

Cooling 50 Hz 230 V

AFR	9,8
BF	0,22

Indoor temperature		Outdoor temperature [°C DB]																							
EWB	EDB	20				25				30				32				35				40			
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
14,0	20	2,05	1,80	0,39	1,96	1,76	0,42	1,86	1,72	0,46	1,83	1,70	0,48	1,77	1,67	0,50	1,68	1,63	0,53						
16,0	22	2,14	1,77	0,39	2,05	1,73	0,43	1,95	1,69	0,46	1,92	1,68	0,48	1,86	1,65	0,50	1,77	1,61	0,54						
18,0	25	2,23	1,89	0,39	2,14	1,86	0,43	2,05	1,82	0,46	2,01	1,81	0,48	1,95	1,78	0,50	1,86	1,75	0,54						
19,0	27	2,28	2,03	0,39	2,19	2,00	0,43	2,09	1,96	0,47	2,06	1,95	0,48	2,00	1,93	0,50	1,91	1,89	0,54						
22,0	30	2,42	1,97	0,39	2,32	1,94	0,43	2,23	1,91	0,47	2,19	1,90	0,48	2,14	1,88	0,51	2,05	1,85	0,54						
24,0	32	2,51	1,93	0,40	2,42	1,91	0,43	2,32	1,88	0,47	2,29	1,87	0,49	2,23	1,85	0,51	2,14	1,82	0,55						

Heating 50 Hz 230 V

AFR	10,3
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15				-10				-5			
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	1,19	0,34	1,43	0,35	1,67	0,37	1,92	0,49	2,59	0,51	2,81	0,53	
20,0	1,12	0,35	1,36	0,36	1,60	0,38	1,84	0,50	2,50	0,52	2,73	0,54	
22,0	1,09	0,35	1,33	0,37	1,57	0,38	1,81	0,50	2,47	0,53	2,69	0,55	
24,0	1,06	0,35	1,30	0,37	1,54	0,39	1,78	0,51	2,43	0,53	2,66	0,55	
25,0	1,04	0,36	1,28	0,37	1,52	0,39	1,76	0,51	2,41	0,54	2,64	0,55	
27,0	1,01	0,36	1,25	0,38	1,49	0,39	1,74	0,51	2,38	0,54	2,61	0,56	

Symbols

- AFR : Air flow rate [m³/min]
 B F : Bypass factor
 EWB : Entering wet-bulb temperature (°C WB)
 EDB : Entering dry-bulb temperature (°C DB)
 TC : Total capacity [kW]
 SHC : Sensible heat capacity [kW]
 PI : Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]
- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5 m
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D113921

RXP25L

Cooling 50 Hz 230 V

AFR	10,1
BF	0,22

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	2,56	2,08	0,50	2,44	2,03	0,55	2,33	1,97	0,59	2,28	1,95	0,61	2,21	1,92	0,64	2,10	1,86	0,67
16,0	22	2,68	2,05	0,50	2,56	1,99	0,55	2,44	1,94	0,60	2,40	1,92	0,62	2,33	1,89	0,65	2,21	1,84	0,70
18,0	25	2,79	2,17	0,50	2,68	2,12	0,55	2,56	2,07	0,60	2,51	2,06	0,62	2,44	2,03	0,65	2,33	1,98	0,70
19,0	27	2,85	2,31	0,50	2,73	2,27	0,55	2,62	2,22	0,60	2,57	2,20	0,62	2,50	2,18	0,65	2,38	2,13	0,70
22,0	30	3,02	2,24	0,51	2,91	2,20	0,56	2,79	2,16	0,61	2,74	2,14	0,63	2,67	2,12	0,66	2,56	2,08	0,70
24,0	32	3,14	2,19	0,51	3,02	2,15	0,56	2,90	2,12	0,61	2,86	2,10	0,63	2,79	2,08	0,66	2,67	2,04	0,71

Heating 50 Hz 230 V

AFR	10,3
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15				-10				-5			
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	1,43	0,44	1,72	0,47	2,00	0,49	2,30	0,64	3,10	0,67	3,37	0,70	
20,0	1,34	0,46	1,63	0,48	1,92	0,50	2,21	0,65	3,00	0,69	3,27	0,71	
22,0	1,31	0,46	1,59	0,48	1,88	0,51	2,17	0,66	2,96	0,69	3,23	0,72	
24,0	1,27	0,47	1,56	0,49	1,85	0,51	2,14	0,67	2,92	0,70	3,19	0,72	
25,0	1,25	0,47	1,54	0,49	1,83	0,51	2,12	0,67	2,90	0,70	3,17	0,73	
27,0	1,22	0,47	1,51	0,50	1,79	0,52	2,09	0,68	2,86	0,71	3,13	0,73	

Symbols

- AFR : Air flow rate [m³/min]
 BF : Bypass factor
 EWB : Entering wet-bulb temperature (°C WB)
 EDB : Entering dry-bulb temperature (°C DB)
 TC : Total capacity [kW]
 SHC : Sensible heat capacity [kW]
 PI : Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]
- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5 m
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D113922

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

RXP35L

Cooling 50 Hz 230 V

AFR	11,5
BF	0,23

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	3,59	2,69	0,77	3,42	2,61	0,85	3,26	2,53	0,91	3,19	2,50	0,94	3,10	2,45	0,99	2,93	2,37	1,06
16,0	22	3,75	2,65	0,78	3,58	2,57	0,85	3,42	2,49	0,92	3,36	2,47	0,95	3,26	2,42	0,99	3,10	2,35	1,07
18,0	25	3,91	2,78	0,78	3,75	2,71	0,86	3,58	2,64	0,92	3,52	2,61	0,95	3,42	2,57	1,00	3,26	2,50	1,07
19,0	27	3,99	2,93	0,78	3,83	2,86	0,86	3,66	2,80	0,92	3,60	2,77	0,95	3,50	2,73	1,00	3,34	2,67	1,08
22,0	30	4,23	2,83	0,79	4,07	2,77	0,87	3,90	2,71	0,93	3,84	2,69	0,96	3,74	2,65	1,01	3,58	2,59	1,08
24,0	32	4,39	2,76	0,80	4,23	2,70	0,87	4,07	2,65	0,94	4,00	2,63	0,97	3,90	2,59	1,01	3,74	2,54	1,09

Heating 50 Hz 230 V

AFR	11,5
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	20	1,90	0,64	2,29	0,67	2,67	0,71	3,07	0,92	4,14	0,97	4,50	1,01
20,0	20	1,79	0,66	2,17	0,69	2,56	0,72	2,95	0,95	4,00	1,00	4,36	1,03
22,0	20	1,74	0,67	2,12	0,70	2,51	0,73	2,90	0,95	3,94	1,00	4,31	1,04
24,0	20	1,69	0,67	2,08	0,71	2,46	0,74	2,85	0,96	3,89	1,01	4,25	1,05
25,0	20	1,67	0,68	2,05	0,71	2,44	0,74	2,83	0,97	3,86	1,02	4,22	1,05
27,0	20	1,62	0,68	2,01	0,72	2,39	0,75	2,78	0,98	3,81	1,03	4,17	1,06

Symbols

AFR	:	Air flow rate [m³/min]
BF	:	Bypass factor
EWB	:	Entering wet-bulb temperature (°C WB)
EDB	:	Entering dry-bulb temperature (°C DB)
TC	:	Total capacity [kW]
SHC	:	Sensible heat capacity [kW]
PI	:	Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]
- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5 m
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D113923

RXP50L

Cooling 50 Hz 230 V

AFR	16,8
BF	0,27

Indoor temperature				Outdoor temperature [°C DB]																	
EWB		EDB		20			25			30			32			35			40		
°C		°C		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0		20		5,12	3,71	1,06	4,89	3,59	1,17	4,66	3,47	1,27	4,56	3,42	1,31	4,42	3,35	1,37	4,19	3,24	1,46
16,0		22		5,35	3,64	1,07	5,12	3,53	1,17	4,89	3,42	1,27	4,79	3,38	1,32	4,65	3,31	1,38	4,42	3,20	1,47
18,0		25		5,58	3,80	1,07	5,35	3,70	1,18	5,12	3,59	1,28	5,02	3,55	1,32	4,88	3,49	1,38	4,65	3,39	1,48
19,0		27		5,70	3,99	1,08	5,47	3,89	1,18	5,23	3,79	1,28	5,14	3,75	1,33	5,00	3,70	1,39	4,77	3,60	1,48
22,0		30		6,04	3,85	1,09	5,81	3,76	1,19	5,58	3,67	1,29	5,49	3,63	1,33	5,35	3,58	1,39	5,11	3,50	1,49
24,0		32		6,27	3,74	1,09	6,04	3,66	1,20	5,81	3,58	1,30	5,72	3,55	1,34	5,58	3,50	1,39	5,34	3,42	1,50

Heating 50 Hz 230 V

AFR	17,3
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Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	20	2,86	1,02	3,43	1,07	4,01	1,12	4,58	1,47	6,21	1,54	6,75	1,60
20,0	20	2,68	1,04	3,26	1,10	3,83	1,15	4,41	1,50	6,00	1,58	6,54	1,63
22,0	20	2,61	1,06	3,19	1,11	3,76	1,16	4,34	1,52	5,92	1,59	6,46	1,65
24,0	20	2,54	1,07	3,12	1,12	3,69	1,17	4,27	1,53	5,83	1,61	6,38	1,66
25,0	20	2,51	1,07	3,08	1,13	3,66	1,18	4,23	1,54	5,79	1,61	6,33	1,67
27,0	20	2,43	1,08	3,01	1,14	3,59	1,19	4,17	1,55	5,71	1,63	6,25	1,68

Symbols

AFR	:	Air flow rate [m³/min]
BF	:	Bypass factor
EWB	:	Entering wet-bulb temperature (°C WB)
EDB	:	Entering dry-bulb temperature (°C DB)
TC	:	Total capacity [kW]
SHC	:	Sensible heat capacity [kW]
PI	:	Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]
- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5 m
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D109044A

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

RXP60L

Cooling	50 Hz	230 V	AFR	17,3
			BF	0,27

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	6,15	4,35	1,40	5,87	4,20	1,53	5,59	4,05	1,67	5,48	4,00	1,72	5,31	3,91	1,81	5,03	3,77	1,95
16,0	22	6,42	4,27	1,41	6,14	4,13	1,55	5,86	4,00	1,68	5,75	3,94	1,73	5,59	3,86	1,81	5,31	3,73	1,95
18,0	25	6,70	4,44	1,42	6,42	4,31	1,56	6,14	4,18	1,69	6,03	4,13	1,75	5,86	4,05	1,82	5,58	3,93	1,96
19,0	27	6,84	4,65	1,42	6,56	4,52	1,56	6,28	4,40	1,69	6,17	4,35	1,75	6,00	4,28	1,82	5,72	4,16	1,97
22,0	30	7,25	4,47	1,43	6,97	4,36	1,57	6,69	4,25	1,70	6,58	4,21	1,76	6,41	4,14	1,83	6,14	4,04	1,98
24,0	32	7,53	4,34	1,45	7,25	4,24	1,58	6,97	4,14	1,71	6,86	4,10	1,77	6,69	4,04	1,85	6,41	3,94	1,98

Heating	50 Hz	230 V	AFR	17,9
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Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		3,33	1,24	4,01	1,31	4,68	1,37	5,35	1,79	7,24	1,89	7,87	1,95
20,0		3,13	1,28	3,80	1,34	4,47	1,40	5,14	1,83	7,00	1,93	7,63	1,99
22,0		3,05	1,29	3,72	1,35	4,39	1,42	5,06	1,85	6,90	1,95	7,54	2,01
24,0		2,96	1,30	3,64	1,37	4,31	1,43	4,98	1,87	6,81	1,96	7,44	2,03
25,0		2,92	1,31	3,59	1,37	4,27	1,44	4,94	1,88	6,76	1,97	7,39	2,04
27,0		2,84	1,32	3,51	1,39	4,18	1,45	4,85	1,89	6,66	1,99	7,29	2,05

Symbols

AFR	:	Air flow rate [m³/min]
BF	:	Bypass factor
EWB	:	Entering wet-bulb temperature (°C WB)
EDB	:	Entering dry-bulb temperature (°C DB)
TC	:	Total capacity [kW]
SHC	:	Sensible heat capacity [kW]
PI	:	Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]
- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5 m
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D109045A

RXP71L

Cooling	50 Hz	230 V	AFR	17,7
			BF	0,27

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	7,28	5,14	2,07	6,95	4,97	2,26	6,61	4,79	2,46	6,48	4,73	2,54	6,28	4,62	2,67	5,95	4,46	2,87
16,0	22	7,60	5,05	2,08	7,27	4,88	2,28	6,93	4,73	2,48	6,80	4,66	2,56	6,61	4,56	2,67	6,28	4,41	2,87
18,0	25	7,93	5,25	2,10	7,60	5,10	2,30	7,27	4,94	2,49	7,14	4,88	2,57	6,93	4,79	2,69	6,60	4,65	2,89
19,0	27	8,09	5,50	2,10	7,76	5,34	2,30	7,43	5,20	2,49	7,30	5,14	2,57	7,10	5,06	2,69	6,77	4,92	2,90
22,0	30	8,58	5,28	2,12	8,25	5,15	2,31	7,92	5,02	2,51	7,79	4,98	2,59	7,58	4,89	2,71	7,27	4,78	2,92
24,0	32	8,91	5,13	2,13	8,58	5,01	2,33	8,25	4,89	2,53	8,12	4,85	2,61	7,92	4,78	2,72	7,58	4,66	2,92

Heating	50 Hz	230 V	AFR	18,5
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Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		3,90	1,65	4,70	1,74	5,48	1,82	6,26	2,38	8,48	2,52	9,22	2,60
20,0		3,67	1,70	4,45	1,78	5,24	1,86	6,03	2,44	8,20	2,57	8,94	2,65
22,0		3,57	1,72	4,36	1,80	5,14	1,89	5,92	2,46	8,08	2,60	8,83	2,68
24,0		3,47	1,73	4,26	1,82	5,05	1,90	5,83	2,49	7,98	2,61	8,72	2,70
25,0		3,42	1,74	4,21	1,82	5,00	1,92	5,79	2,50	7,92	2,62	8,66	2,72
27,0		3,33	1,76	4,11	1,85	4,90	1,93	5,69	2,52	7,80	2,65	8,54	2,73

Symbols

AFR	:	Air flow rate [m³/min]
BF	:	Bypass factor
EWB	:	Entering wet-bulb temperature (°C WB)
EDB	:	Entering dry-bulb temperature (°C DB)
TC	:	(°C DB) Total capacity [kW]
SHC	:	Sensible heat capacity [kW]
PI	:	Power input [kW]

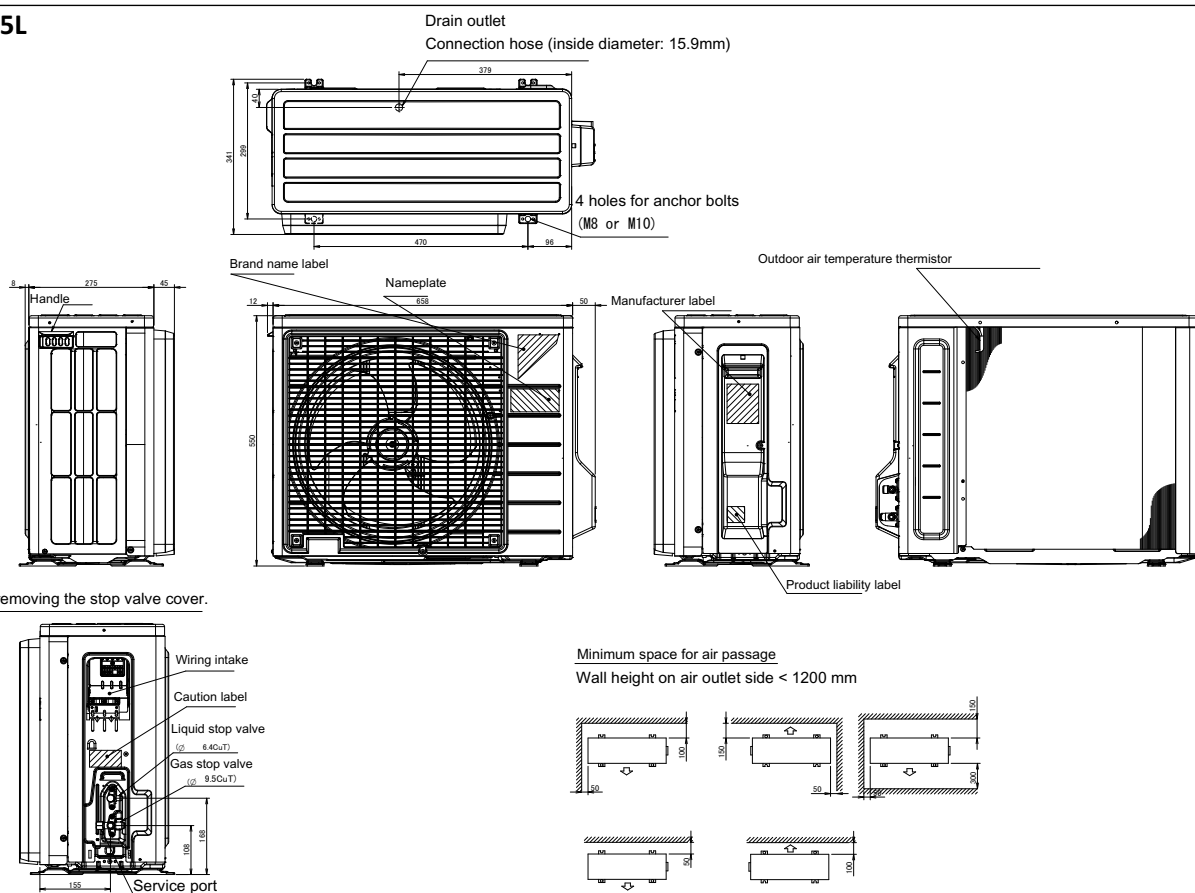
Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- The bold cells indicate the standard conditions.
- Rated operating frequency [Hz]
- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5 m
Level difference: 0m
The air flow rate and bypass factor are mentioned in the table.

3D109046A

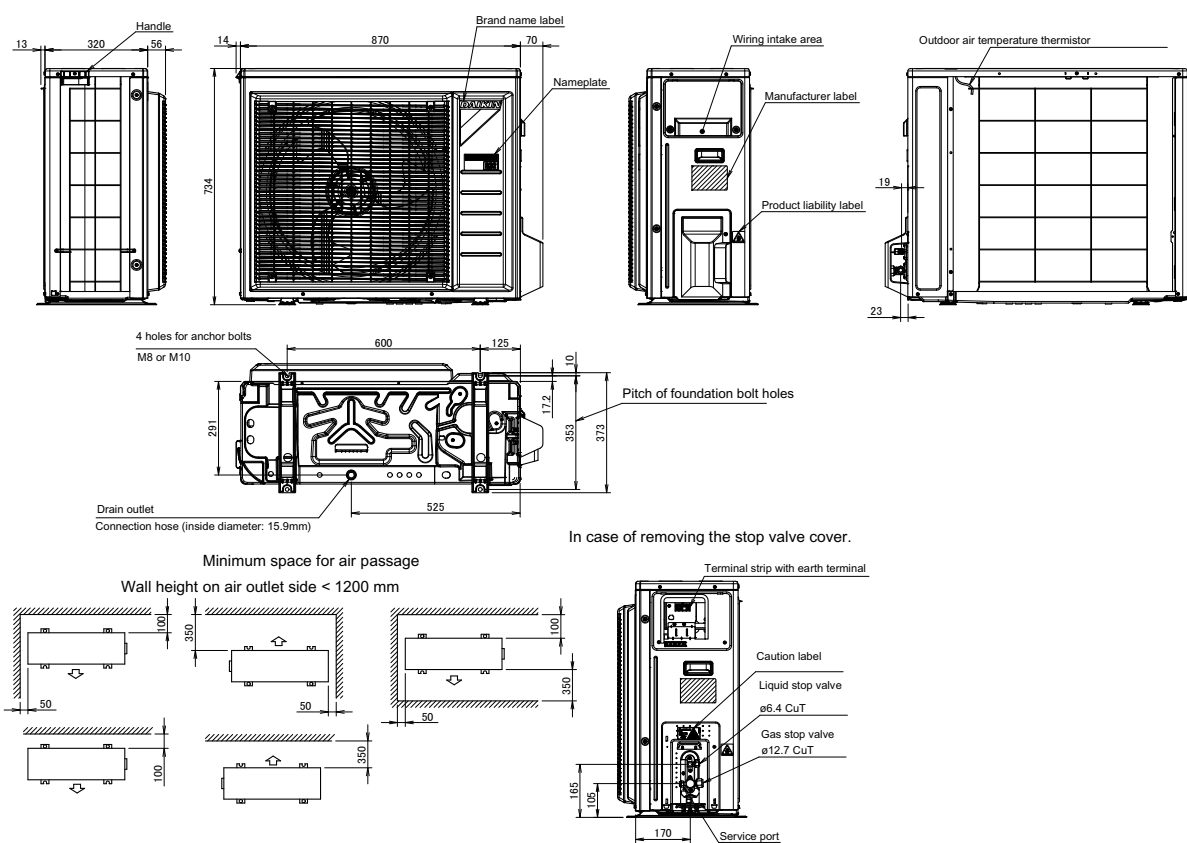
5 - 1 Dimensional Drawings

RXP20-35L



2D113526

RXP50-71L

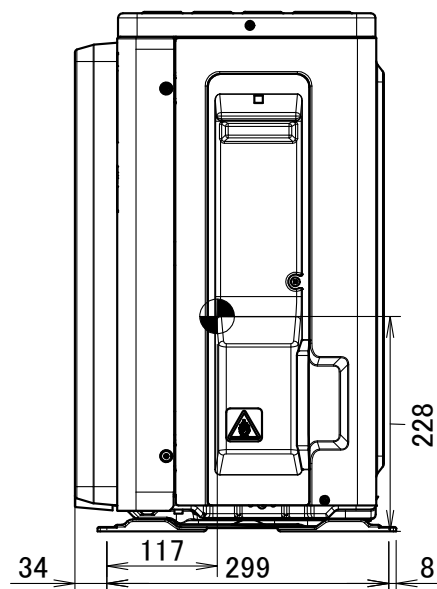
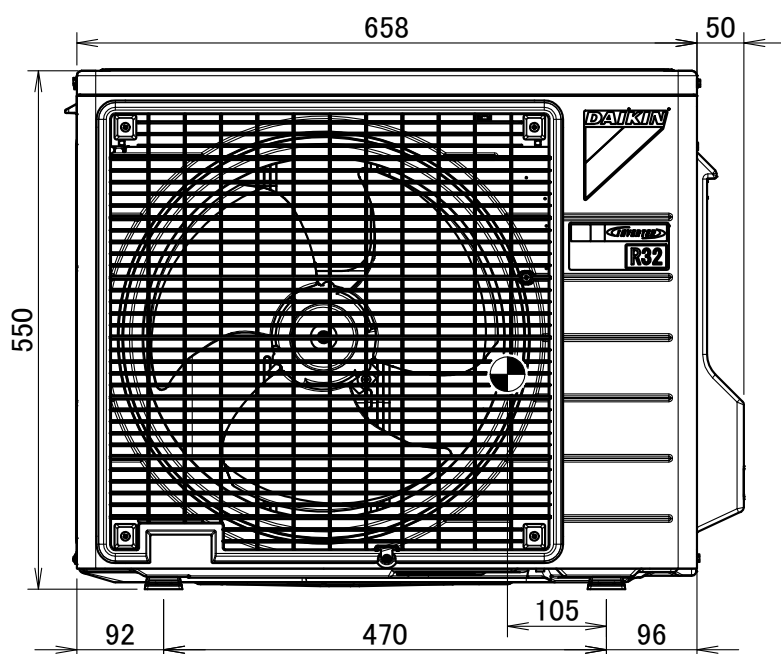


3D114108

6 Centre of gravity

6 - 1 Centre of Gravity

RXP20-25L

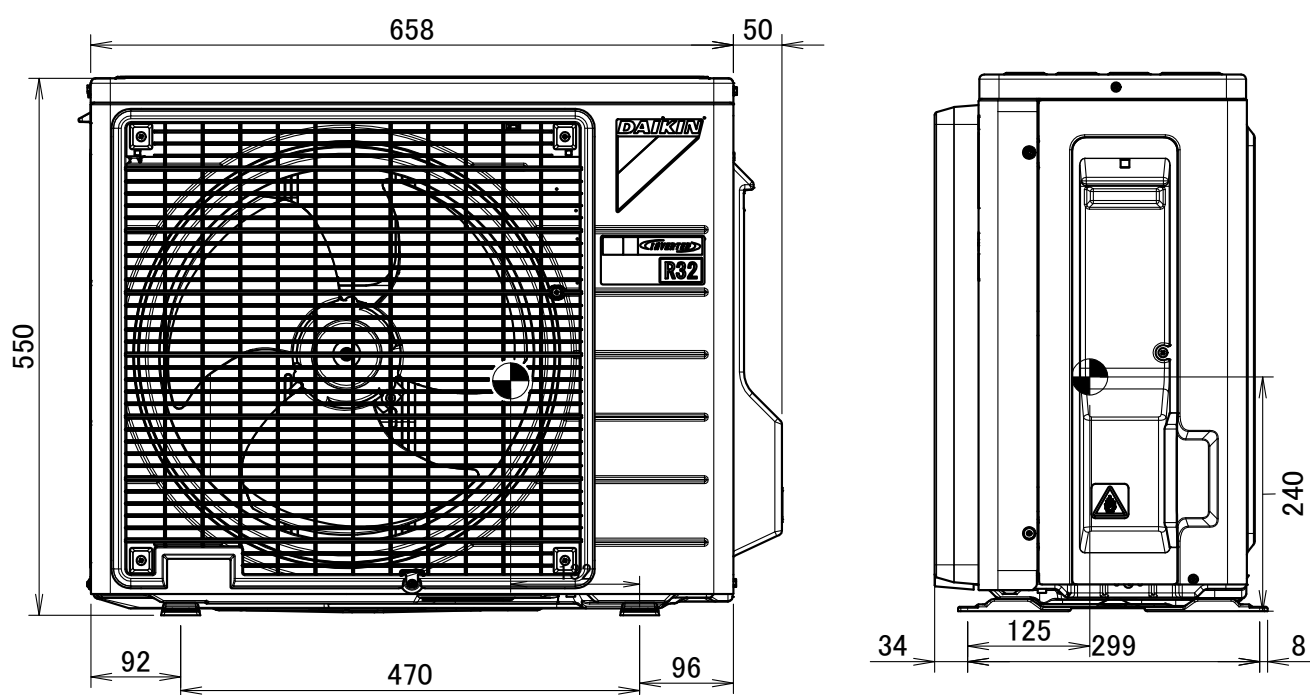


4D116239

6 Centre of gravity

6 - 1 Centre of Gravity

RXP35L



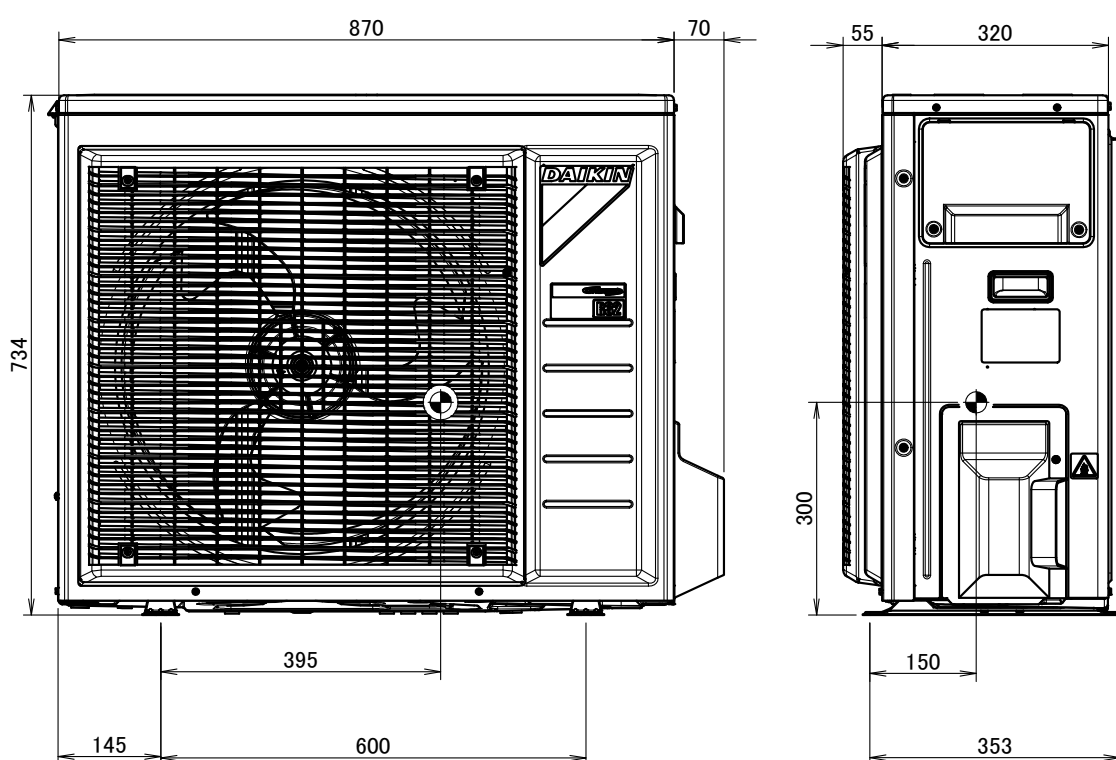
4D116242

6 Centre of gravity

6 - 1 Centre of Gravity

RXP50L

6

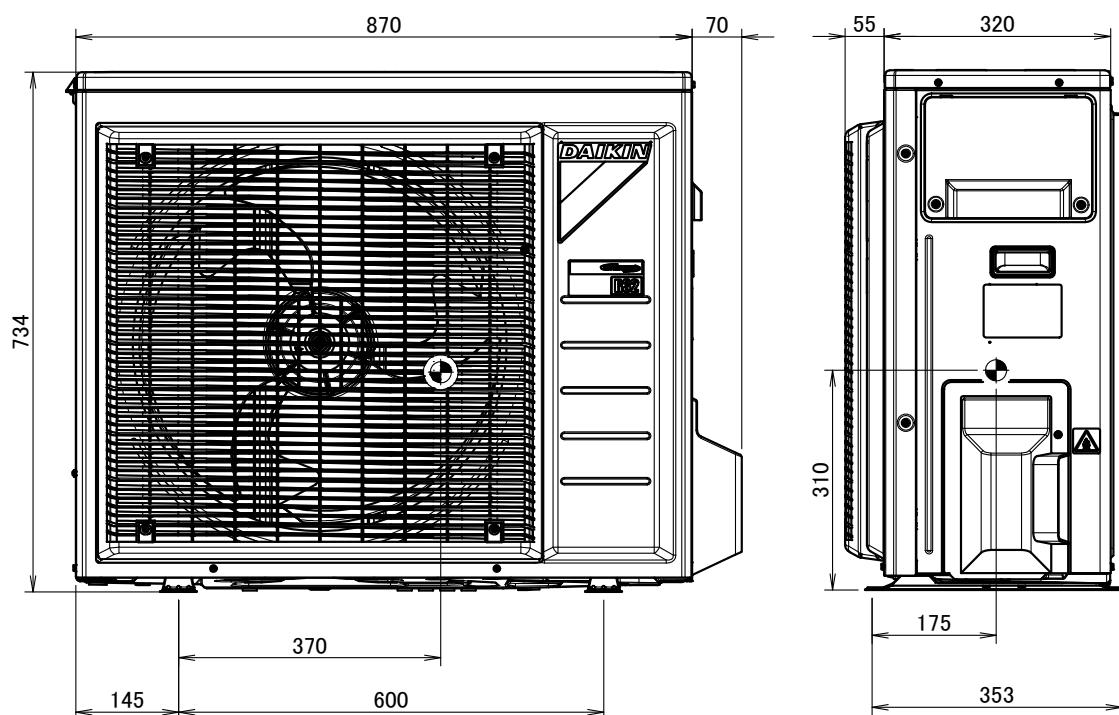


4D114820

6 Centre of gravity

6 - 1 Centre of Gravity

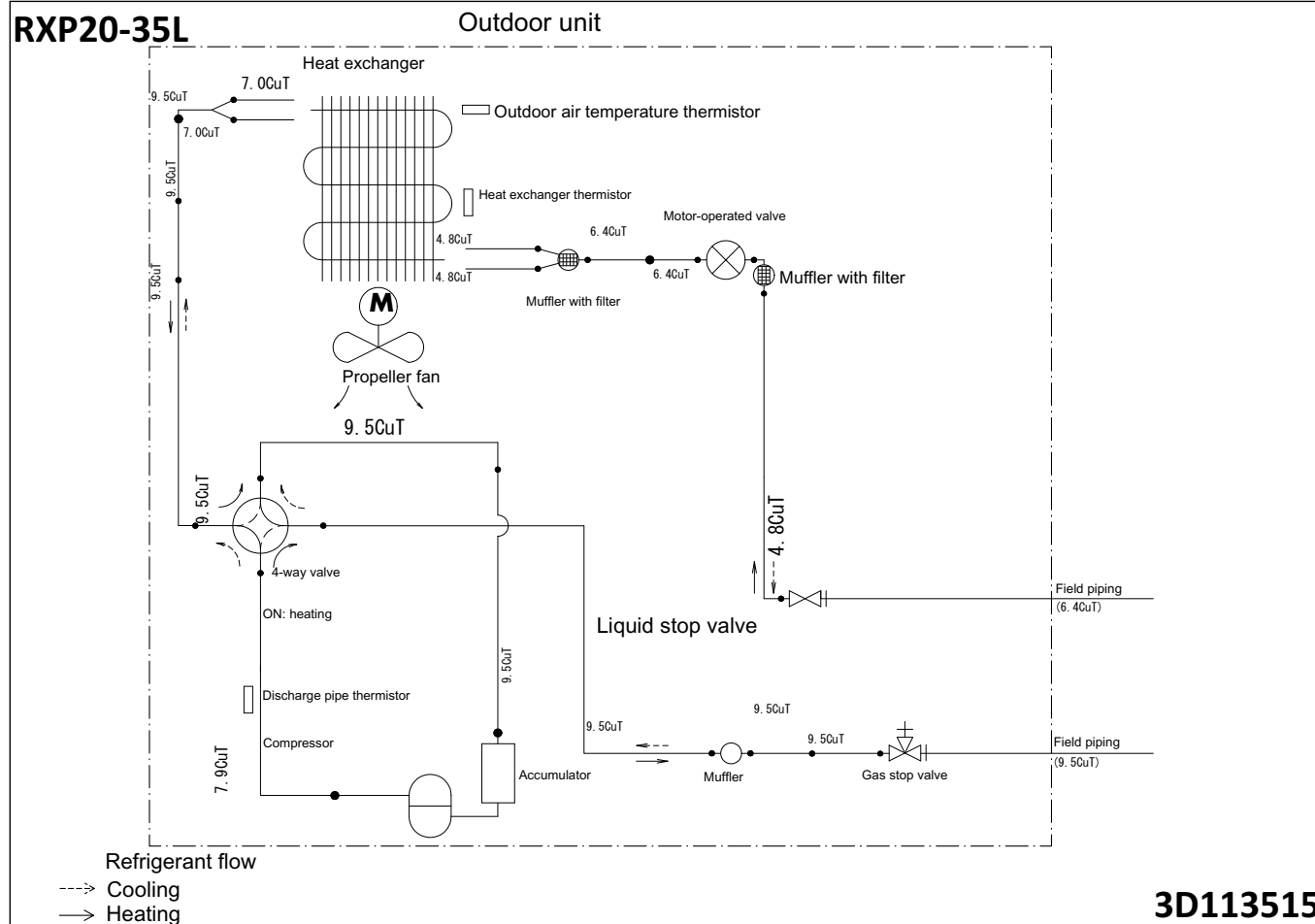
RXP60-71L



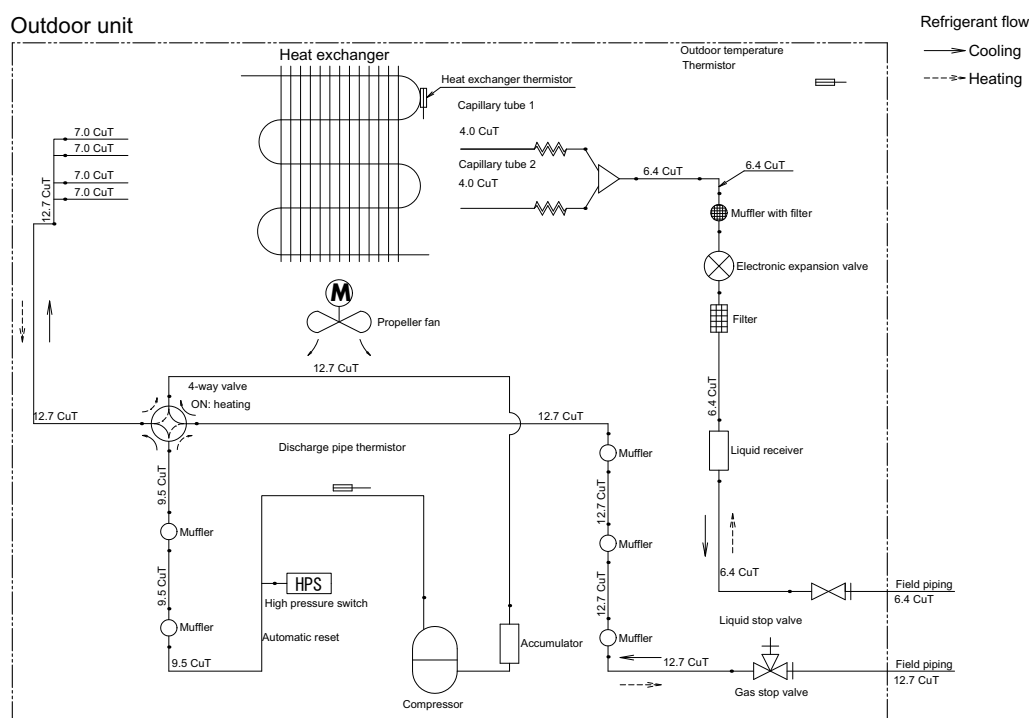
4D114824

7 Piping diagrams

7 - 1 Piping Diagrams



RXP50L

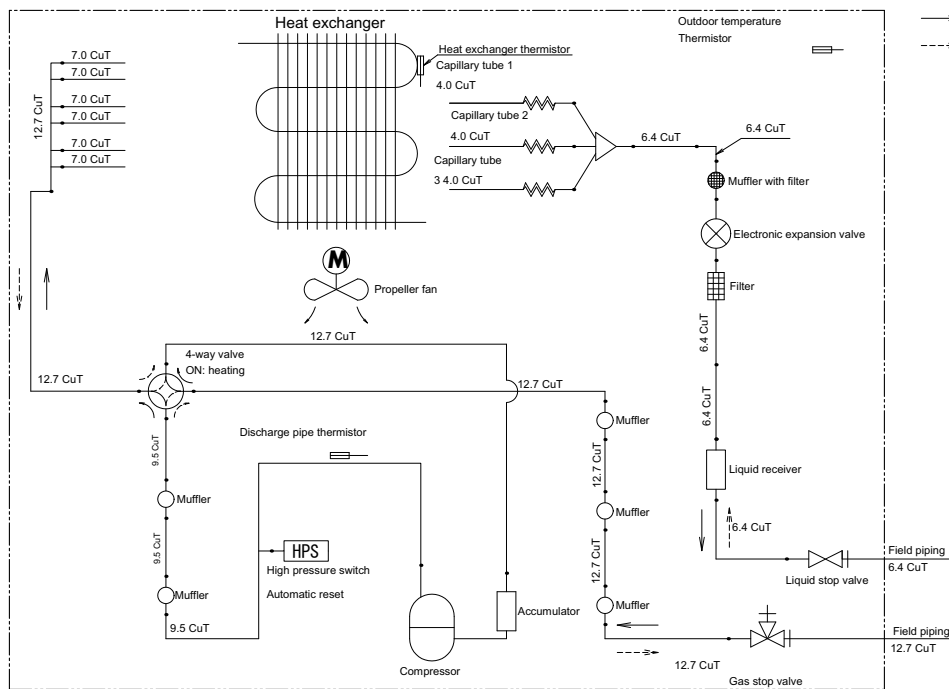


7 Piping diagrams

7 - 1 Piping Diagrams

RXP60-71L

Outdoor unit



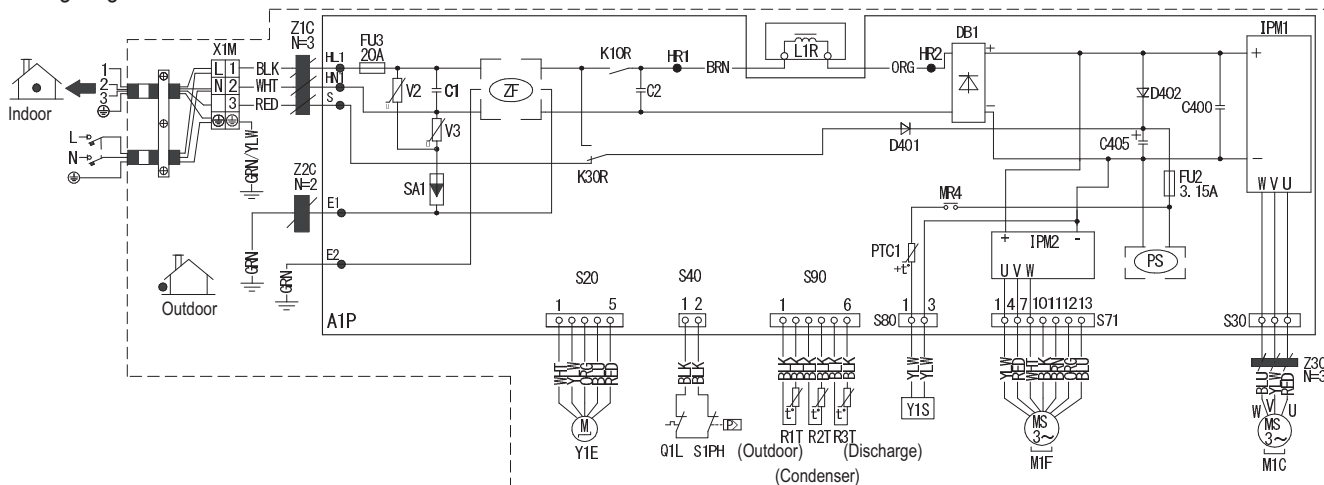
3D114450

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

RXP20-35L

Wiring diagram



C1, C2, C400, C405	Capacitor
HL1, HN1, S, E1, E2, HR1, HR2	Connection
D401, D402	Diode
DB1	Diode bridge
FU2, FU3	Fuse
IPM1, IPM2	Intelligent power module
L1R	Reactor
M1C	Compressor motor
M1F	Fan motor
K30R, K10R, MR4	Magnetic relay
A1P	Printed circuit board
PS	Switching power supply
Q1L	Overload protector
R1T, R2T, R3T	Thermistor
S1PH	High pressure switch
SA1	Surge arrester
S20, S30, S40, S71, S80, S90	Connector
V2, V3	Varistor
X1M	Terminal strip
Y1S	Reversing solenoid valve coil
PTC1	Thermistor PTC
Y1E	Electronic expansion valve coil
Z1C, Z2C, Z3C	Ferrite core
ZF	Noise filter

BLK:	Black
WHT:	White
BRN:	Brown
RED:	Red
GRN:	Green
YLW:	Yellow
ORG:	Orange
BLU:	Blue

⊕ : Protective earth

⊥ : Earth

▬ : Field wiring

NOTES

1. Refer to the nameplate for the power requirements.

3D114611A

8 - 1 Wiring Diagrams - Single Phase

Indoor

Field wiring

Wiring diagram

For the power requirements, refer to the nameplate.

Outdoor

Capacitor

Diode

Diode bridge

Connection

Fuse

Intelligent power module

Live

Compressor motor

Fan motor

Magnetic relay

Neutral

Number of passes

Pulse-amplitude modulation

Printed circuit board

Switching power supply

Overload protector

Thermistor

High pressure switch

Terminal connector

Surge arrester

Varistor

Connector

Terminal strip

Electronic expansion valve coil

Reversing solenoid valve coil

Ferrite core

Noise filter

Earth

Protective earth

BLK : Black

BLU : Blue

BRN : Brown

GRN : Green

GRY : Grey

ORG : Orange

RED : Red

WHT : White

YLW : Yellow

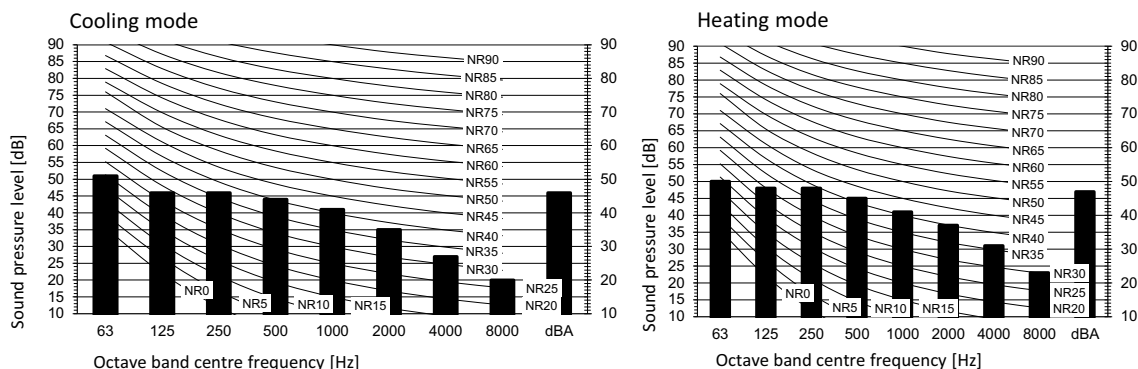
1. **Size:** 105 x 185
2. **Refer to purchasing specification AS(Y)303002, unless otherwise specified.**

3D114452A

9 Sound data

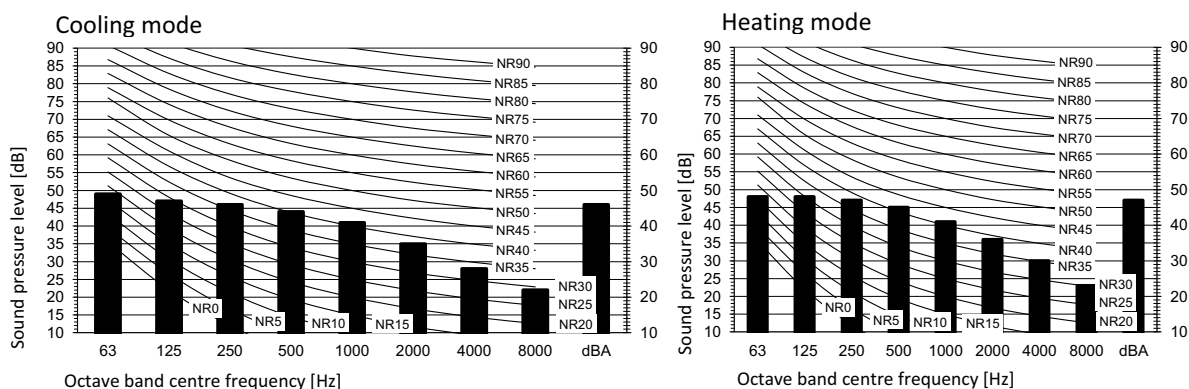
9 - 1 Sound Pressure Spectrum

RXP20L



3D092072D

RXP25L



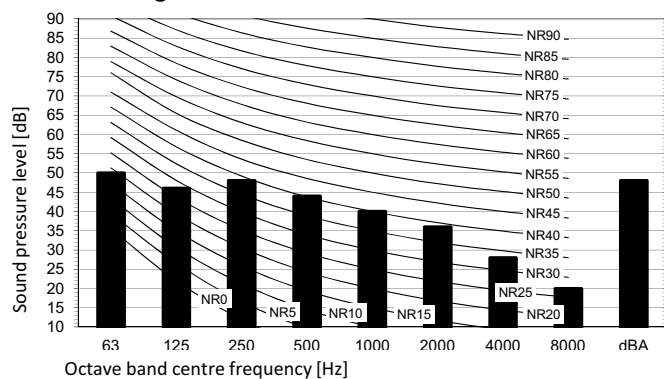
3D092073D

9 Sound data

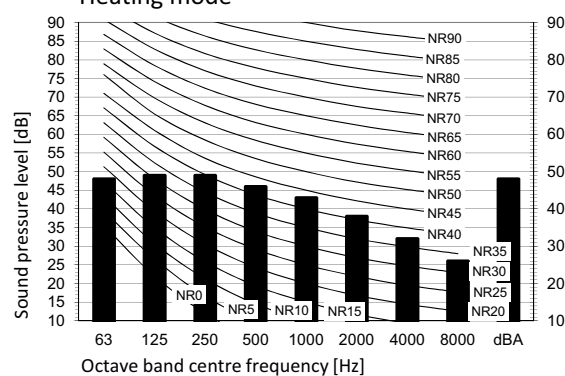
9 - 1 Sound Pressure Spectrum

RXP35L

Cooling mode



Heating mode



Legend

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

A Scale

B High

Fan speed

Cooling

Total dB

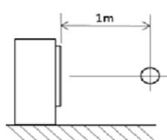
A	B
dBA	48

Heating

Total dB

A	B
dBA	48

Location of microphone



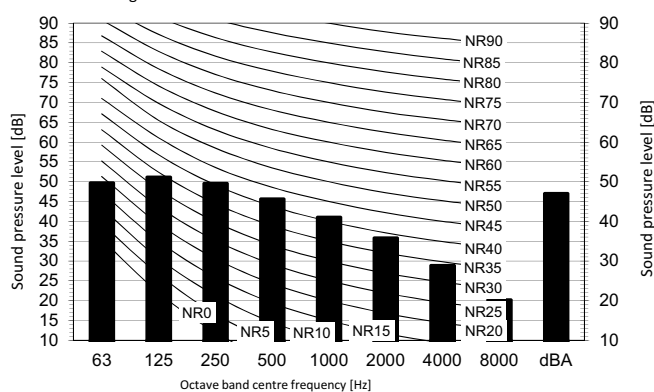
Notes

- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

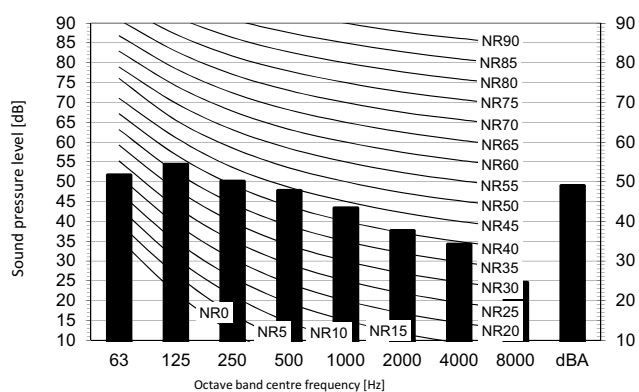
3D092074D

RXP50L

Cooling mode



Heating mode



Legend

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

A Scale

B Fan speed: High

Cooling

Total dB

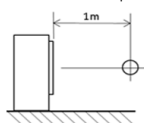
A	B
dBA	47

Heating

Total dB

A	B
dBA	49

Location of microphone



Notes

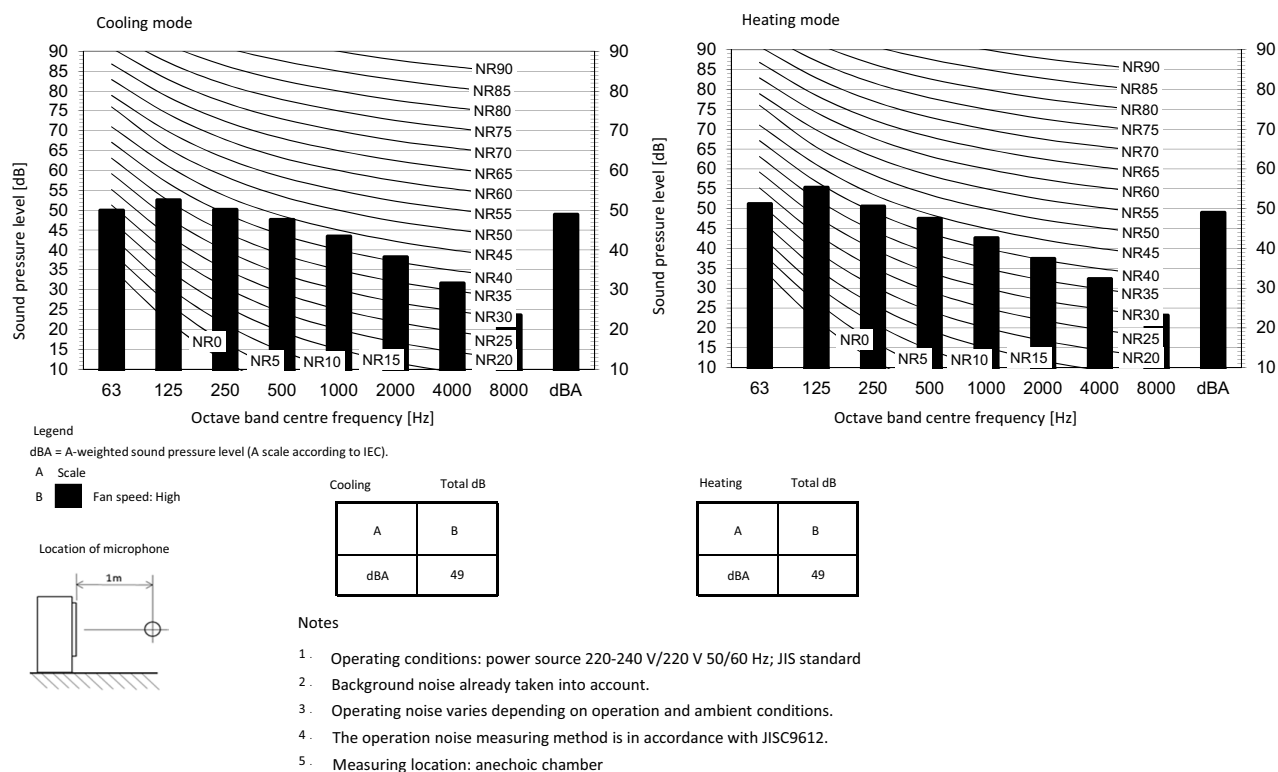
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D115238

9 Sound data

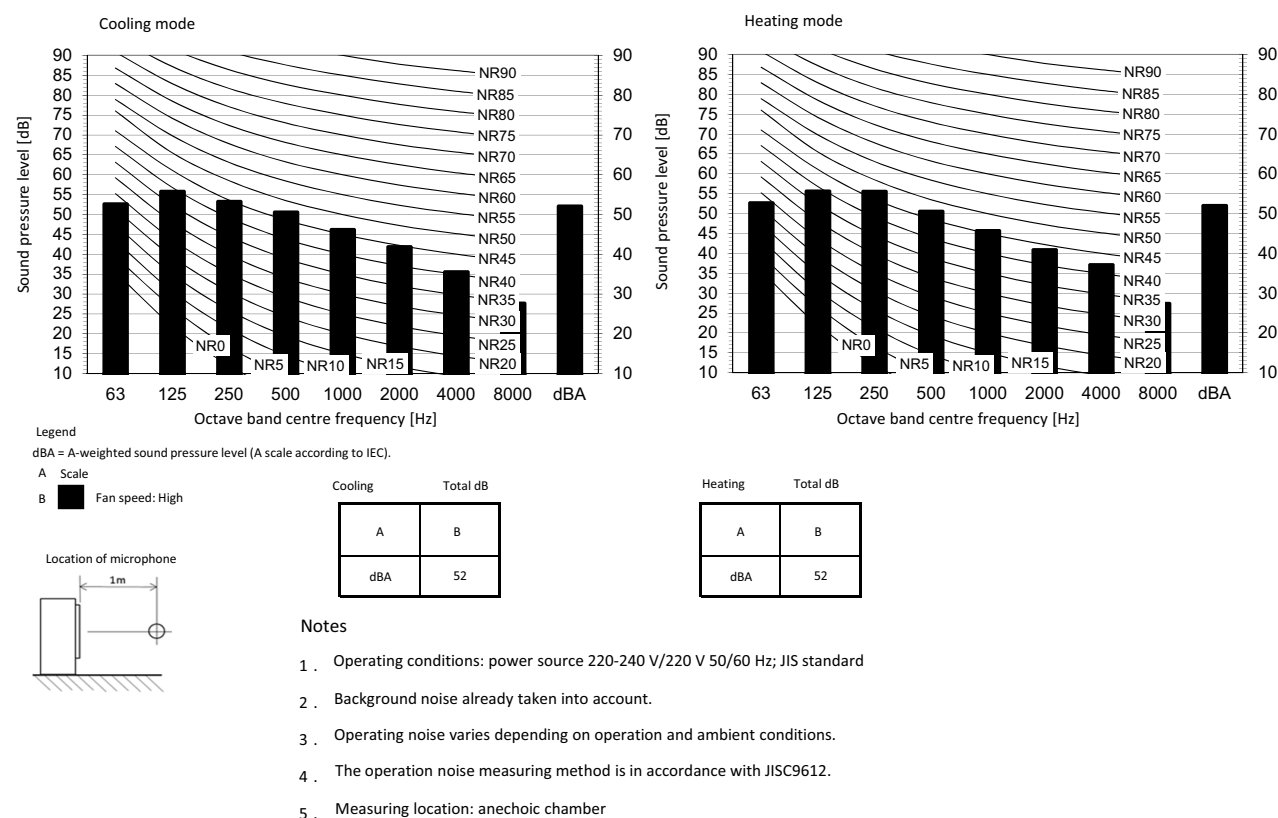
9 - 1 Sound Pressure Spectrum

RXP60L



3D115239

RXP71L



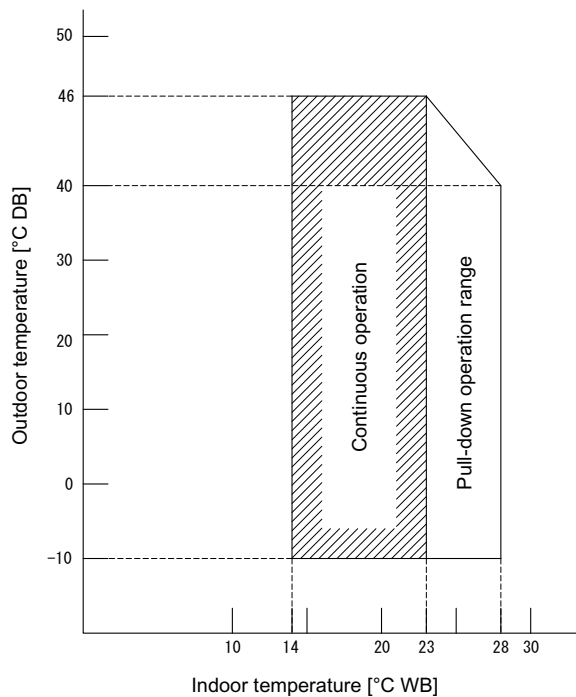
3D115240

10 Operation range

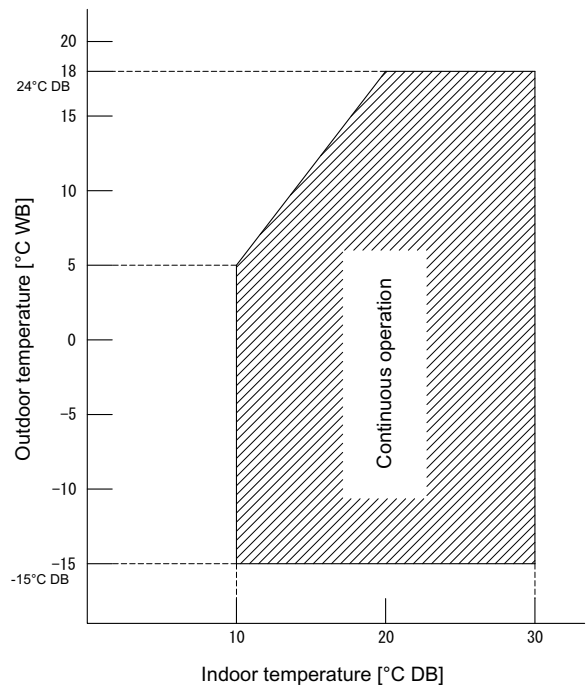
10 - 1 Operation Range

RXP-L

Cooling



Heating



Notes

- The graphs is based on the following conditions.
Corresponding refrigerant piping length: 5 m
Level difference: 0m
Air flow rate High

3D100846D

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11/18



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