



Heating Technical Data



EEDEN15-003

RXL-M

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RXL-M

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1 Features

- Guaranteed heating capacity at low ambient temperature, down to -25°C
- Thanks to the unique free hanging coil technology, the defrost cycle is improved, resulting in lower running costs and no ice buildup

1



Guaranteed
operation down
to -25°C



Outdoor unit
silent operation

2 Specifications

2-1 Capacity and Power input				FTXL25JV/RXL25M		FTXL35JV/RXL35M		
Indoor unit				FTXL25JV		FTXL35JV		
Outdoor unit				RXL25M		RXL35M		
Cooling capacity	Min.	kW		1.2		1.3		
		Btu/h		4,436		4,400		
		kcal/h		1,118		1,120		
	Max.	kW		3.4		3.8		
		Btu/h		12,966		13,000		
		kcal/h		3,268		3,270		
Heating capacity	Min.	kW		1.1		1.2		
		Btu/h		3,753		4,095		
		kcal/h		946		1,032		
	Max.	kW		5.5		6.0		
		Btu/h		18,767.0		20,473.0		
		kcal/h		4,730.0		5,159.0		
Power input	Cooling	Min.	kW	0.290				
		Nom.	kW	0.801		1.140		
		Max.	kW	1.300				
	Heating	Min.	kW	0.240				
		Nom.	kW	0.722		0.902		
		Max.	kW	2.142		2.890		
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+				
		Pdesign	kW	2.50		3.50		
		SEER		6.01		5.87		
		Annual energy consumption	kWh	146		209		
	Heating (Average climate)	Energy label		A+				
		Pdesign	kW	2.50		3.00		
		SCOP		4.37		4.21		
		Annual energy consumption	kWh	793		998		
Piping connections	Liquid	OD	mm	6.35				
	Gas	OD	mm	9.5				
	Drain	OD	mm	18				
	Heat insulation			Both liquid and gas pipes				
Current	Nominal running current (RLA) - 50Hz	Cooling	A	4.0 (2) / 3.8 (3) / 3.6 (4)		6.4 (2) / 6.2 (3) / 6.0 (4)		
		Heating	A	3.6 (2) / 3.5 (3) / 3.4 (4)		4.0 (2) / 3.8 (3) / 3.7 (4)		
Nominal efficiency	EER			3.12		3.07		
	COP			4.43		4.21		
	Annual energy consumption		kWh	400.5		570		
	Energy label	Cooling			B			
		Heating			A			

Notes

- (1) For rated minimal heating capacity indoor unit fan set to SL tap
- (2) 220V
- (3) 230V
- (4) 240V
- (5) EER/COP according to Eurovent 2012, for use outside EU only
- (6) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-2 Technical Specifications				RXL25M		RXL35M	
Casing	Colour			Ivory white			
Dimensions	Unit	Height	mm	550			
		Width	mm	858			
		Depth	mm	330			
	Packed unit	Height	mm	617			
		Width	mm	914			
		Depth	mm	392			

2 Specifications

2-2 Technical Specifications					RXL25M	RXL35M
Weight	Unit		kg		40	
	Packed unit		kg		42	
Heat exchanger	Length		mm		810	
	Rows	Quantity			2	
	Fin pitch		mm		1.5	
	Stages	Quantity			24	
	Tube type				ø8 Hi-XA	
	Fin	Type			Precoat Fin	
Compressor	Model				2YC36BXD#C	
	Type				Hermetically sealed swing compressor	
	Output		W		1,100	
Fan	Type				Propeller fan	
	Air flow rate	Cooling	High	m ³ /min	37.3	
			Super low	m ³ /min	30.6	
		Heating	High	m ³ /min	31.3	
			Super low	m ³ /min	27.2	
				cfm	1,317	
				cfm	1,080	
				cfm	1,105	
			cfm	960		
Fan motor	Model				D50R-28	
	Output		W		50	
	Speed	Cooling	High	rpm	890	
			Low	rpm	790	
			Super low	rpm	-	
		Heating	High	rpm	890	
			Low	rpm	780	
			Super low	rpm	-	
Sound power level		Cooling	dBA	61		
		Heating	dBA	61		
Sound pressure level	Cooling	High	dBA	48		
		Low	dBA	44		
	Heating	High	dBA	49		
		Low	dBA	45		
Operation range	Cooling	Ambient	Min.	°CDB	-10	
			Max.	°CDB	46	
	Heating	Ambient	Min.	°CWB	-25	
			Max.	°CWB	18	
Refrigerant	Type				R-410A	
	Charge		kg		1	
	GWP				1,975	
Refrigerant oil	Type				FVC50K	
	Charged volume		l		0.650	
Piping connections	Liquid	OD	mm	6.35		
		Gas	OD	mm	9.5	
	Drain	ID	mm	-		
		OD	mm	18		
	Piping length	OU - IU	Max.	m	15	
		System	Chargeless	m	10	
	Additional refrigerant charge		kg/m		0.02 (for piping length exceeding 10m)	
	Level difference	IU - IU	Max.	m	12	
	Heat insulation				Both liquid and gas pipes	

2 Specifications

2-3 Electrical Specifications				RXL25M	RXL35M
Power supply	Name			V1	
	Phase			1~	
	Frequency	Hz	50		
	Voltage	V	220-240		
Current	Nominal running current (RLA)	Cooling	A	5.89 (1) / 5.59 (2) / 5.39 (3)	
		Heating	A	4.52 (1) / 4.52 (2) / 4.52 (3)	6.46 (1) / 6.16 (2) / 5.87 (3)
	Starting current	Cooling	A	6.6	
		Heating	A	6.6	
Current - 50Hz	Maximum fuse amps (MFA)	A	20		
Current - 60Hz	Maximum fuse amps (MFA)	A	-		
Wiring connections	For power supply	Remark	3 for power supply, 4 for interunit wiring (including earth wiring)		

Notes

- (1) 220V
- (2) 230V
- (3) 240V

3 Electrical data

3 - 1 Electrical Data

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RXL-M

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTXL35J2V1B	RXL35M2V1B	50	220	MAX. 50 Hz 264V	11	20	60	6.4	0.05	0.23	0.016	0.12
		50	230					6.2				
		50	240	MIN. 50Hz 198V				6.0				
FTXL25J2V1B	RXL25M2V1B	50	220	MAX. 50 Hz 264V	11	20	37	4.0	0.05	0.23	0.016	0.12
		50	230					3.8				
		50	240	MIN. 50Hz 198V				3.6				

- Notes
- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
 - The maximum allowable voltage that is unbalanced between phases is 2%.
 - Select the wire size according to the MCA.
 - 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]
 - OFM Outdoor fan motor
 - IFM Indoor fan motor
 - FLA Full Load Ampere (A)
 - kW Fan motor rated output [kW]
 - RHz Rated operating frequency [Hz]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXL25J2V1B + RXL25M2V1B

AFR	11.2
BF	0.15

Cooling (50Hz 230V)

①	②	③																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2.59	1.84	0.57	2.52	1.81	0.65	2.39	1.77	0.72	2.32	1.74	0.75	2.17	1.69	0.79	1.93	1.52	0.85
22	16	2.68	1.72	0.58	2.61	1.70	0.65	2.49	1.67	0.73	2.44	1.63	0.75	2.31	1.57	0.79	2.07	1.43	0.86
25	18	2.73	1.80	0.58	2.67	1.79	0.66	2.58	1.73	0.73	2.52	1.71	0.76	2.41	1.66	0.80	2.18	1.53	0.86
27	19	2.79	1.90	0.58	2.72	1.88	0.66	2.64	1.85	0.73	2.59	1.81	0.76	2.50	1.78	0.80	2.26	1.63	0.87
30	22	2.93	1.79	0.58	2.86	1.77	0.67	2.75	1.73	0.73	2.70	1.70	0.77	2.61	1.67	0.81	2.35	1.53	0.87
32	24	3.05	1.74	0.59	2.98	1.73	0.68	2.86	1.69	0.74	2.80	1.65	0.77	2.69	1.61	0.81	2.43	1.48	0.87

AFR	13.3
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Heating (50Hz 230V)

①	④																	
	-25		-20		-15		-10		-5		0		6		10			
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
15	1.20	0.48	1.34	0.51	1.65	0.60	1.75	0.63	1.97	0.67	2.40	0.69	3.38	0.72	4.46	0.76		
20	1.06	0.49	1.18	0.52	1.49	0.60	1.59	0.64	1.82	0.68	2.26	0.69	3.20	0.72	4.28	0.76		
22	1.01	0.50	1.12	0.53	1.43	0.61	1.54	0.64	1.76	0.70	2.20	0.70	3.15	0.73	4.22	0.77		
24	0.98	0.50	1.08	0.54	1.35	0.62	1.44	0.66	1.68	0.70	2.09	0.71	3.08	0.74	4.10	0.78		
25	0.92	0.50	1.03	0.54	1.30	0.62	1.39	0.67	1.62	0.71	2.02	0.72	2.99	0.75	3.98	0.78		
27	0.89	0.51	1.00	0.56	1.27	0.64	1.33	0.67	1.58	0.72	1.99	0.73	2.95	0.76	3.94	0.79		

Notes

- The capacities are based on the following conditions:
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
- The bold cells indicate the standard conditions.
 Rated operating frequency [Hz]

Symbols

- TC: Total capacity [kW]
- PI: Power input [kW]
- SHC: Sensible heat capacity [kW]
- AFR: Air flow rate [m³/min]
- BF: Bypass factor

- ① Indoor air temperature [°C DB]
- ② Indoor air temperature [°C WB]
- ③ Outdoor air temperature [°C DB]
- ④ Outdoor air temperature [°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

4

FTXL35J2V1B + RXL35M2V1B

AFR	11.2
BF	0.15

Cooling (50Hz 230V)

①	②	③																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	3.43	2.44	0.87	3.32	2.39	0.96	3.18	2.35	1.04	3.12	2.34	1.08	3.00	2.34	1.13	2.77	2.19	1.22
22	16	3.67	2.35	0.87	3.55	2.31	0.96	3.37	2.26	1.04	3.32	2.22	1.08	3.21	2.18	1.13	2.98	2.06	1.23
25	18	3.80	2.51	0.88	3.70	2.48	0.97	3.56	2.39	1.04	3.50	2.38	1.09	3.40	2.35	1.14	3.18	2.23	1.23
27	19	3.91	2.66	0.88	3.80	2.62	0.97	3.66	2.56	1.05	3.60	2.52	1.09	3.50	2.49	1.14	3.28	2.36	1.23
30	22	4.12	2.51	0.88	4.01	2.49	0.97	3.84	2.42	1.05	3.77	2.38	1.09	3.66	2.34	1.15	3.44	2.24	1.24
32	24	4.30	2.45	0.89	4.20	2.44	0.98	4.06	2.40	1.06	3.98	2.35	1.10	3.85	2.31	1.15	3.59	2.19	1.25

AFR	13.3
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Heating (50Hz 230V)

①	④															
	-25		-20		-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1.28	0.46	1.49	0.52	2.14	0.72	2.29	0.76	2.75	0.79	3.15	0.85	3.94	0.88	5.14	0.98
20	1.20	0.47	1.41	0.53	1.99	0.74	2.15	0.78	2.61	0.80	3.01	0.86	3.80	0.90	5.01	0.99
22	1.14	0.47	1.36	0.54	1.92	0.74	2.08	0.78	2.53	0.80	2.95	0.87	3.73	0.91	4.93	0.99
24	1.11	0.48	1.28	0.54	1.84	0.75	2.00	0.79	2.47	0.81	2.87	0.87	3.65	0.92	4.86	1.00
25	1.06	0.49	1.23	0.54	1.76	0.75	1.96	0.79	2.39	0.81	2.80	0.88	3.60	0.92	4.82	1.01
27	1.02	0.49	1.21	0.55	1.74	0.76	1.92	0.80	2.36	0.82	2.76	0.89	3.54	0.93	4.77	1.02

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

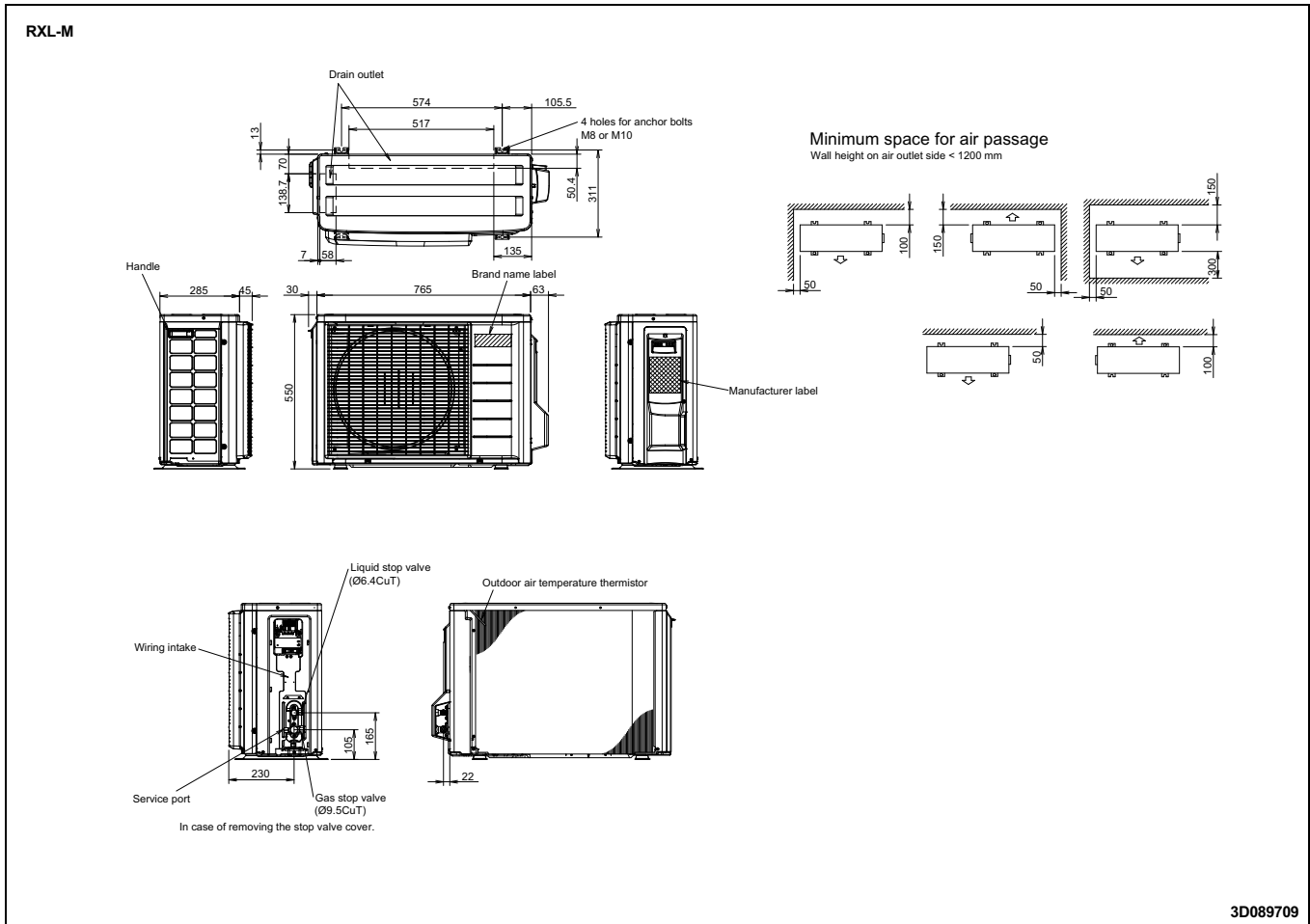
- TC: Total capacity [kW]
- PI: Power input [kW]
- SHC: Sensible heat capacity [kW]
- AFR: Air flow rate [m³/min]
- BF: Bypass factor

- ① Indoor air temperature [°C DB]
- ② Indoor air temperature [°C WB]
- ③ Outdoor air temperature [°C DB]
- ④ Outdoor air temperature [°C WB]

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5 Dimensional drawings

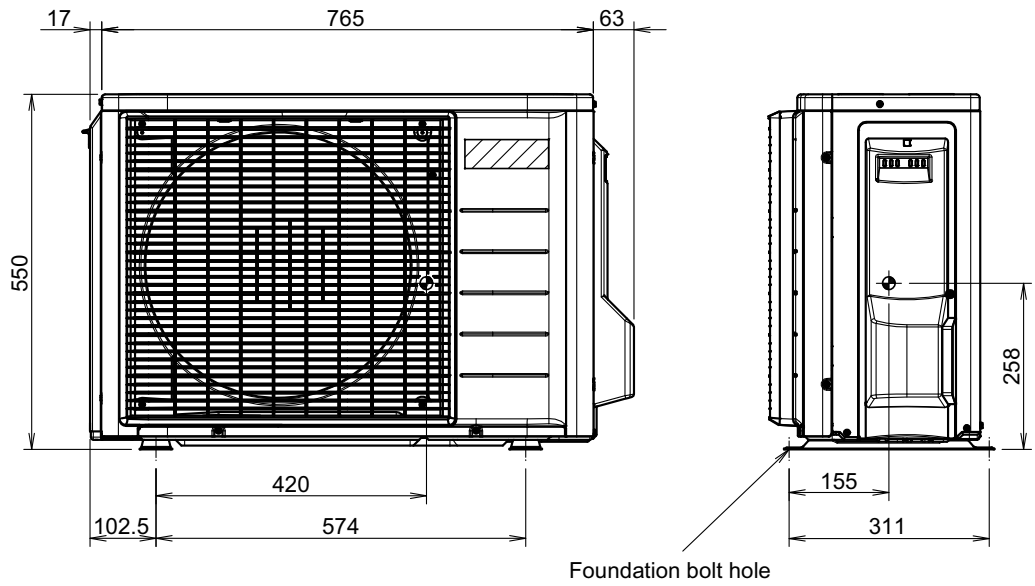
5 - 1 Dimensional Drawings



6 Centre of gravity

6 - 1 Centre of Gravity

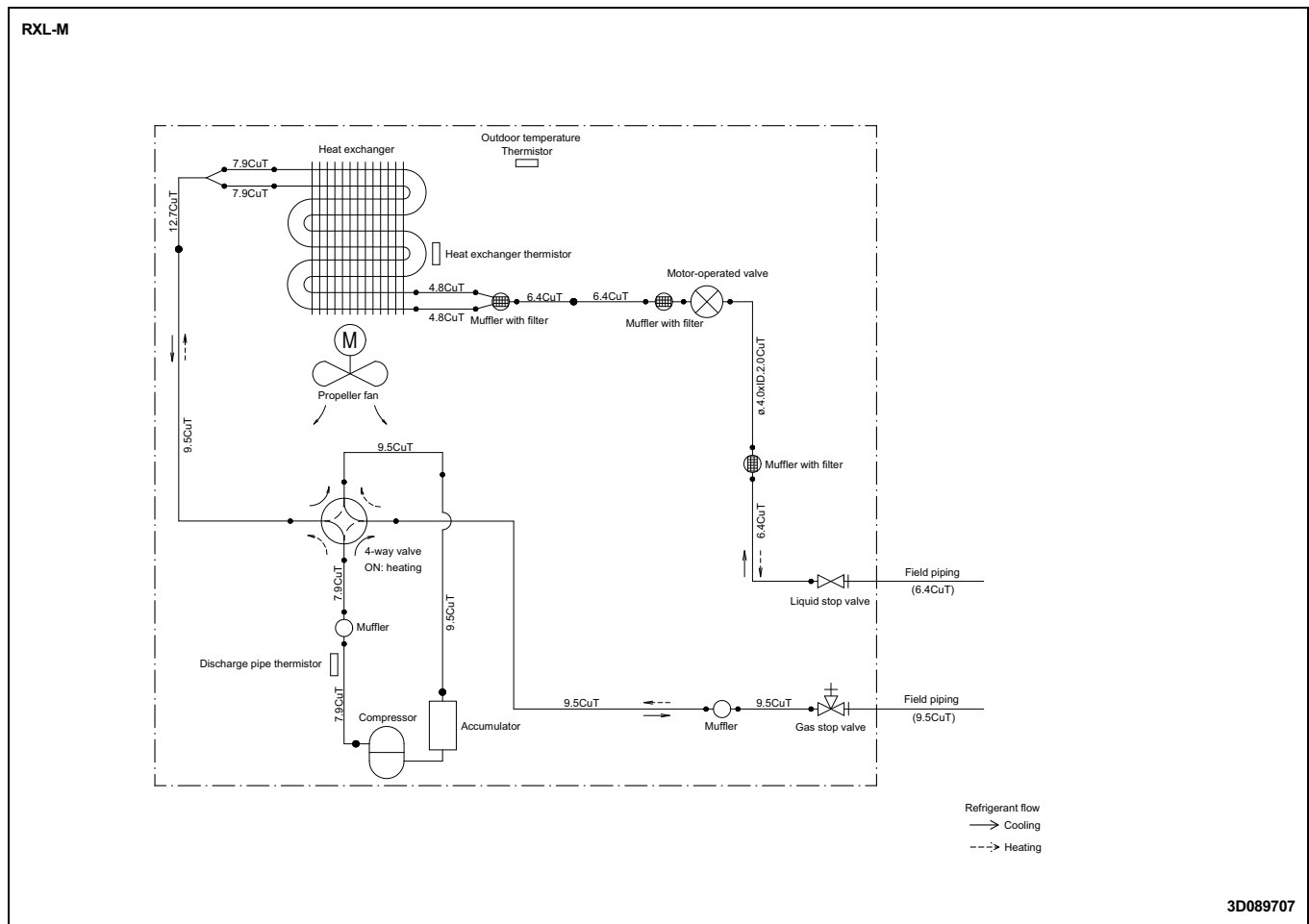
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7 Piping diagrams

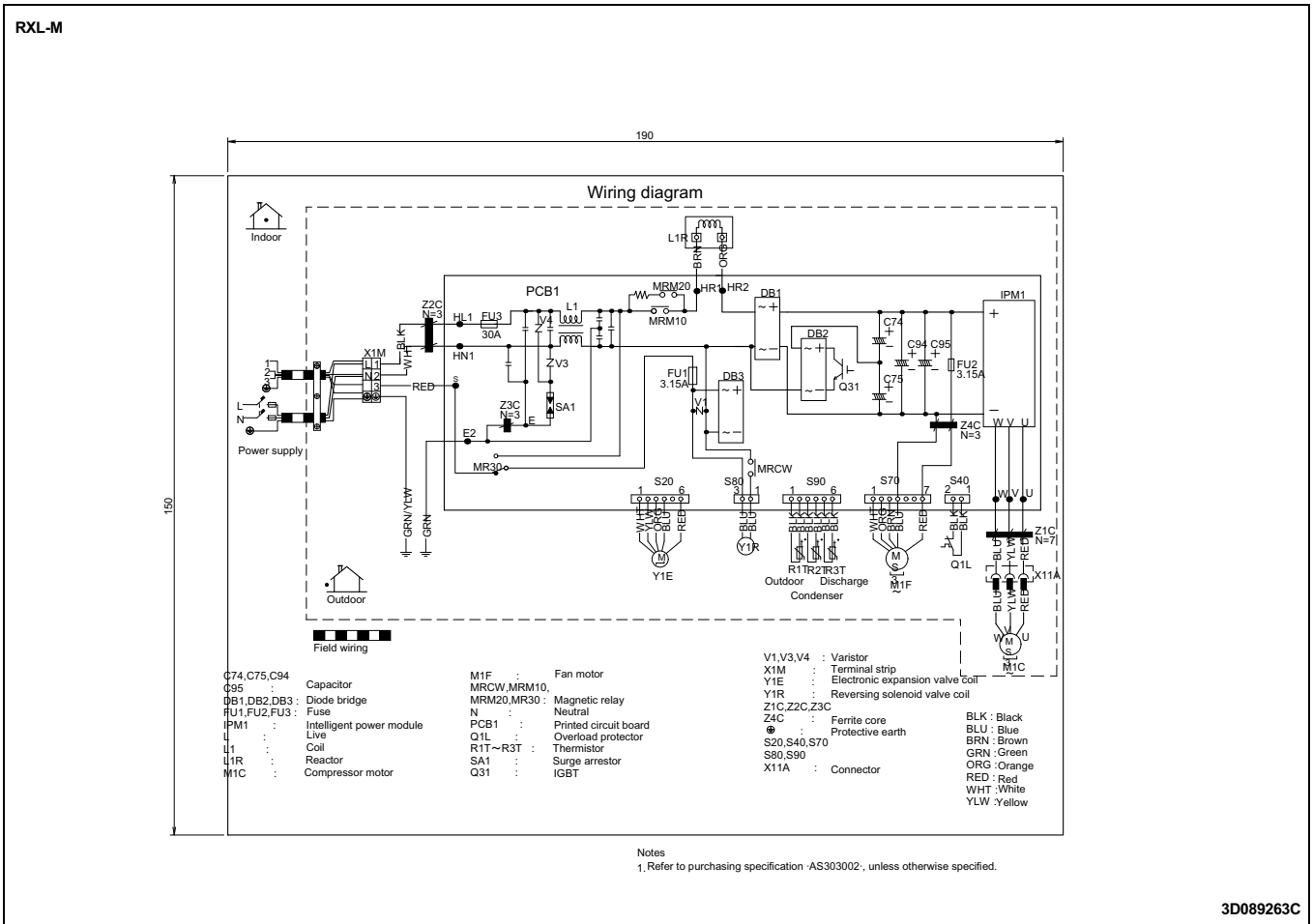
7 - 1 Piping Diagrams



8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

8

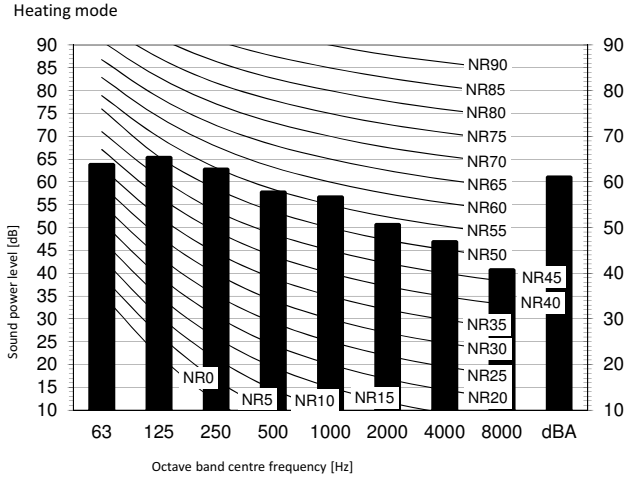
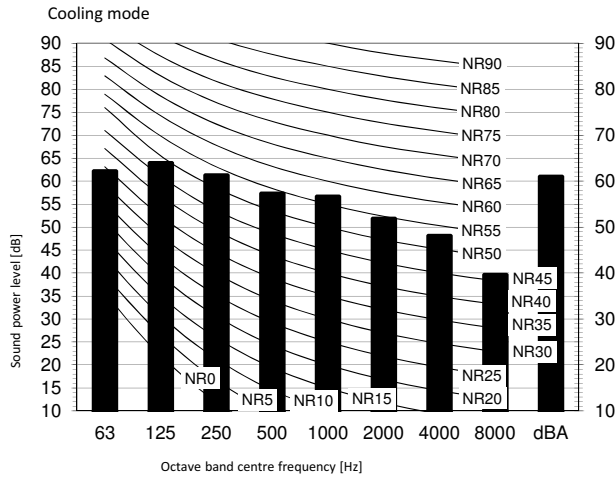


- | | | | | | |
|---------------|--------------------------|-------------------|-----------------------|---------------|---------------------------------|
| C74, C75, C94 | Capacitor | M1F | Fan motor | V1, V3, V4 | Varistor |
| C95 | | MRCW, MRM10, MR30 | Magnetic relay | X1M | Terminal strip |
| DB1, DB2, DB3 | Diode bridge | N | Neutral | Y1E | Electronic expansion valve coil |
| FU1, FU2, FU3 | Fuse | PCB1 | Printed circuit board | Y1R | Reversing solenoid valve coil |
| IPM1 | Intelligent power module | Q1L | Overload protector | Z1C, Z2C, Z3C | Ferrite core |
| L | Live | R1T~R3T | Thermistor | Z4C | Protective earth |
| L1 | Coil | SA1 | Surge arrester | BLK | Black |
| L1R | Reactor | Q31 | IGBT | BLU | Blue |
| M1C | Compressor motor | | | BRN | Brown |
| | | | | GRN | Green |
| | | | | ORG | Orange |
| | | | | RED | Red |
| | | | | WHT | White |
| | | | | YLW | Yellow |

9 Sound data

9 - 1 Sound Power Spectrum

RXL-M



Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0dB = 10E-6\mu W/m^2$
3. Measured according to ISO 3744

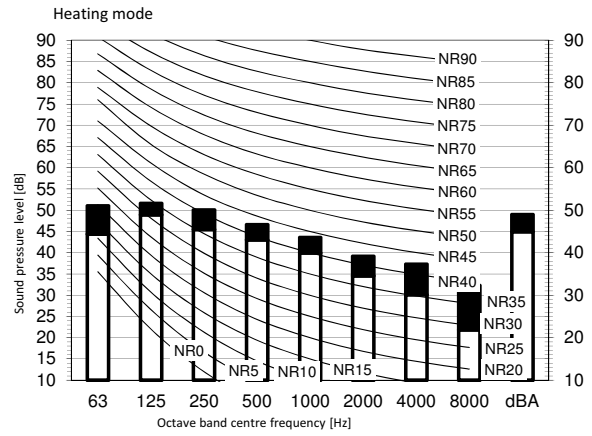
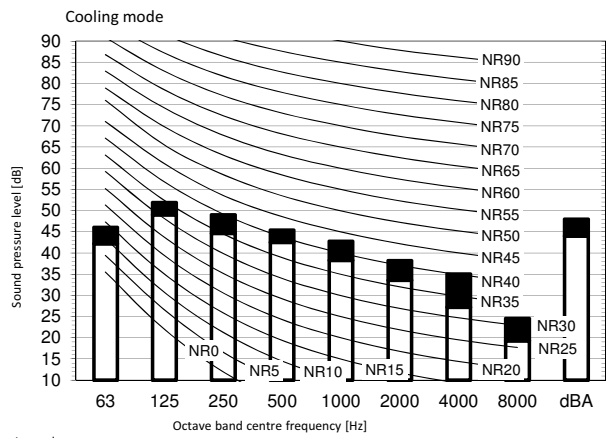
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9 Sound data

9 - 2 Sound Pressure Spectrum

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RXL-M



Legend

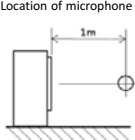
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B High-tap

Low-tap

Location of microphone



Cooling		Total dB
A	B	
dBA		48

Heating		Total dB
A	B	
dBA		49

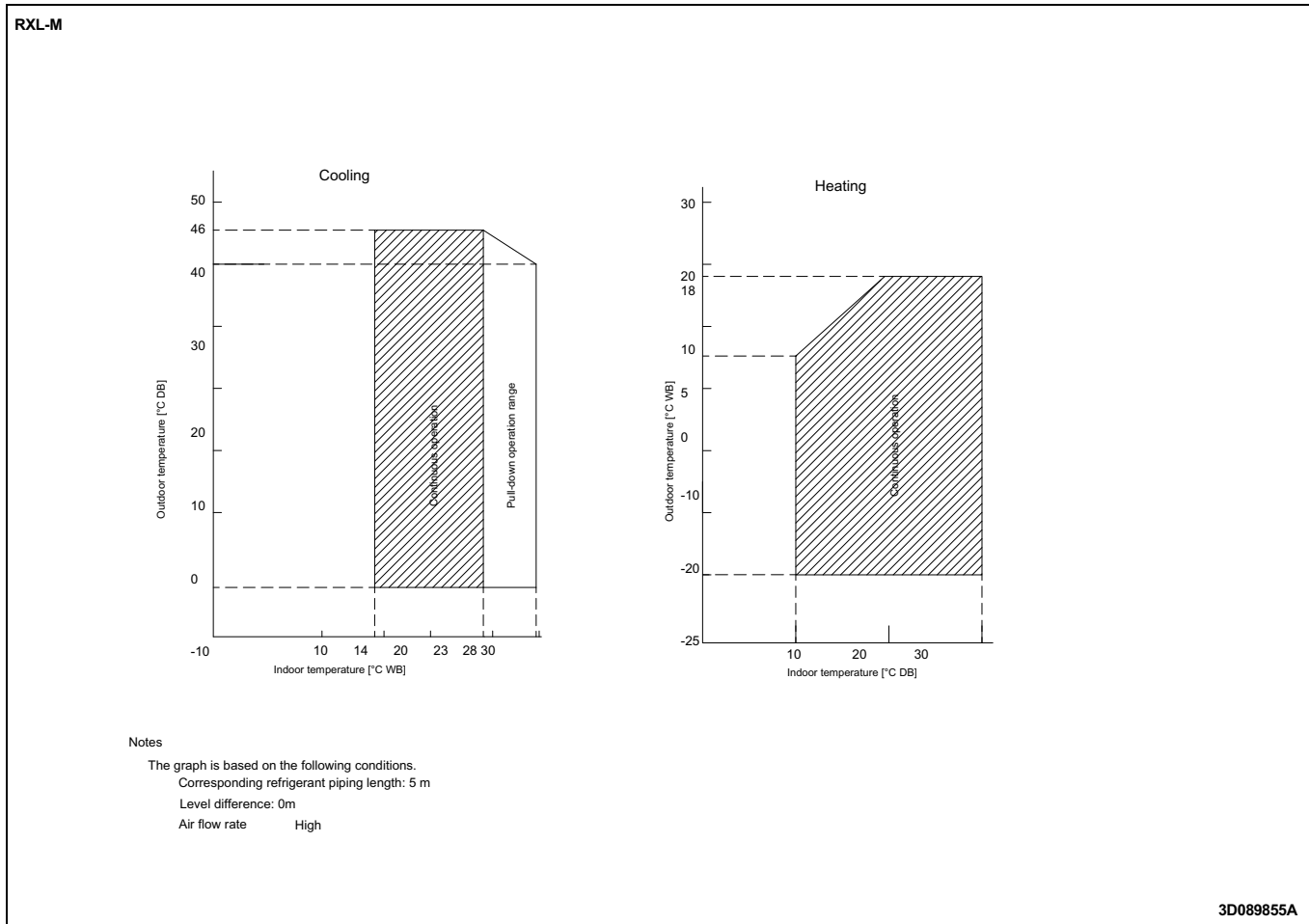
Notes

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

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10 Operation range

10 - 1 Operation Range





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