



Heating Technical Data



EEDEN15-003

RXLS-M

TABLE OF CONTENTS

RXLS-M

1	Features	2
2	Specifications	3
	Capacity and Power input	3
	Technical Specifications	3
	Electrical Specifications	5
3	Electrical data	6
4	Capacity tables	7
	Cooling/Heating Capacity Tables	7
5	Dimensional drawings	9
6	Centre of gravity	10
7	Piping diagrams	11
8	Wiring diagrams	12
	Wiring Diagrams - Single Phase	12
9	Sound data	13
	Sound Power Spectrum	13
	Sound Pressure Spectrum	14
10	Operation range	15

1 Features

- High heating energy efficiency with SCOP up to A++
- 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				FTXLS25K/RXLS25M		FTXLS35K/RXLS35M		
Indoor unit				FTXLS25K		FTXLS35K		
Outdoor unit				RXLS25M		RXLS35M		
Cooling capacity	Min.		kW	1.6	1.7			
			Btu/h	5,800				
			kcal/h	1,460				
	Max.		kW	4.4	5.0			
			Btu/h	17,100				
			kcal/h	4,300				
Heating capacity	Min.		kW	1.0				
			Btu/h	3,412				
			kcal/h	860				
	Max.		kW	6.6	7.2			
			Btu/h	22,861.0	24,567			
			kcal/h	5,761.0	6,191			
Power input	Cooling	Min.	kW	0.320				
		Nom.	kW	0.669	0.951			
		Max.	kW	2.330				
	Heating	Min.	kW	0.240				
		Nom.	kW	1.100	1.310			
		Max.	kW	2.360	2.880			
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++				
		Pdesign	kW	2.50	3.50			
		SEER		6.62	6.91			
		Annual energy consumption	kWh	132	177			
	Heating (Average climate)	Energy label		A++				
		Pdesign	kW	3.20	3.80			
		SCOP		4.62	4.60			
		Annual energy consumption	kWh	947	1,147			
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	3.4 (2) / 3.3 (3) / 3.2 (4)		4.8 (2) / 4.6 (3) / 4.4 (4)		
		Heating	A	5.5 (2) / 5.3 (3) / 5.1 (4)		6.6 (2) / 6.3 (3) / 6.0 (4)		
Nominal efficiency	EER		3.74			3.69		
	COP		4.27			4.12		
	Annual energy consumption		kWh	334.5			475.5	
	Energy label	Cooling					A	
		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				RXLS25M		RXLS35M	
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					RXLS25M	RXLS35M
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		1.3	
	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	20	
		System	Chargeless	m	10	
	Additional refrigerant charge		kg/m		0.02 (for piping length exceeding 10m)	
	Level difference	IU - IU	Max.	m	15	
	Heat insulation				Both liquid and gas pipes	

2 Specifications

2-3 Electrical Specifications				RXLS25M	RXLS35M
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	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

3

RXLS-M

Unit combination restrictions		Power supply				COMP		OFM		IFM		
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTXLS35K2V1B	RXLS35M2V1B	50	220	MAX. 50 Hz 264V	11	20	50	4.8	0.05	0.23	0.023	0.15
		50	230					4.6				
		50	240	MIN. 50Hz 198V				4.4				
FTXLS25K2V1B	RXLS25M2V1B	50	220	MAX. 50 Hz 264V	11	20	32	2.8	0.05	0.23	0.023	0.15
		50	230					2.7				
		50	240	MIN. 50Hz 198V				2.6				

Notes

- 1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- 2 The maximum allowable voltage that is unbalanced between phases is 2%.
- 3 Select the wire size according to the MCA.
- 4 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]

3D089955

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXLS25K2V1B + RXLS25M2V1B

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	2.69	1.99	0.52	2.59	1.96	0.57	2.42	1.83	0.62	2.34	1.77	0.64	2.18	1.68	0.67	1.95	1.52	0.70
22	16	2.82	1.92	0.53	2.70	1.87	0.58	2.56	1.80	0.63	2.47	1.76	0.65	2.33	1.66	0.67	2.10	1.54	0.71
25	18	2.86	1.96	0.54	2.75	1.92	0.58	2.62	1.86	0.63	2.54	1.83	0.65	2.43	1.77	0.67	2.18	1.62	0.71
27	19	2.92	2.08	0.54	2.84	2.06	0.59	2.68	1.99	0.63	2.62	1.96	0.65	2.50	1.90	0.67	2.27	1.76	0.71
30	22	3.02	1.96	0.54	2.93	1.94	0.59	2.78	1.87	0.64	2.72	1.86	0.66	2.62	1.81	0.68	2.36	1.66	0.72
32	24	3.18	1.95	0.54	3.09	1.92	0.59	2.94	1.86	0.64	2.87	1.83	0.66	2.76	1.79	0.69	2.47	1.64	0.72

AFR	13.3
-----	------

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	1.43	0.81	1.68	0.84	2.48	0.96	2.83	1.00	3.12	1.04	4.08	1.05	4.89	1.08	5.93	1.12
20	1.24	0.84	1.49	0.87	2.34	0.99	2.61	1.03	2.91	1.06	3.89	1.08	4.70	1.10	5.81	1.16
22	1.12	0.85	1.39	0.88	2.24	0.99	2.53	1.05	2.85	1.08	3.82	1.09	4.63	1.12	5.73	1.18
24	1.09	0.87	1.34	0.89	2.19	1.00	2.43	1.06	2.79	1.09	3.74	1.10	4.56	1.13	5.66	1.19
25	1.04	0.87	1.29	0.89	2.14	1.01	2.36	1.08	2.75	1.10	3.70	1.10	4.52	1.15	5.57	1.20
27	1.01	0.88	1.23	0.90	2.09	1.01	2.30	1.08	2.68	1.10	3.65	1.12	4.48	1.16	5.50	1.21

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]

3D090497

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

4

FTXLS35K2V1B + RXLS35M2V1B

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	3.74	2.88	0.71	3.55	2.77	0.78	3.33	2.59	0.86	3.23	2.55	0.89	3.03	2.36	0.94	2.79	2.23	1.02
22	16	3.90	2.73	0.72	3.72	2.62	0.79	3.54	2.51	0.86	3.43	2.44	0.90	3.23	2.29	0.94	2.98	2.21	1.02
25	18	3.98	2.72	0.73	3.83	2.66	0.79	3.66	2.59	0.87	3.56	2.52	0.90	3.41	2.45	0.95	3.12	2.31	1.03
27	19	4.06	2.88	0.73	3.92	2.82	0.80	3.73	2.76	0.87	3.64	2.69	0.90	3.50	2.55	0.95	3.21	2.47	1.03
30	22	4.28	2.76	0.74	4.11	2.69	0.81	3.90	2.61	0.88	3.82	2.56	0.91	3.68	2.50	0.96	3.38	2.36	1.04
32	24	4.44	2.71	0.75	4.29	2.64	0.82	4.10	2.54	0.89	4.01	2.52	0.92	3.88	2.48	0.96	3.53	2.29	1.05

AFR	13.3
-----	------

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	1.73	0.85	2.07	0.90	2.95	1.12	3.21	1.16	3.55	1.18	4.48	1.24	5.59	1.29	6.77	1.37
20	1.54	0.87	1.88	0.93	2.81	1.15	3.02	1.18	3.26	1.21	4.27	1.26	5.40	1.31	6.65	1.39
22	1.42	0.89	1.78	0.94	2.71	1.15	2.94	1.19	3.29	1.22	4.20	1.27	5.33	1.32	6.57	1.40
24	1.39	0.89	1.73	0.94	2.65	1.16	2.85	1.20	3.22	1.25	4.12	1.29	5.25	1.33	6.50	1.42
25	1.34	0.90	1.68	0.95	2.60	1.16	2.82	1.20	3.17	1.26	4.08	1.31	5.21	1.34	6.46	1.43
27	1.28	0.91	1.62	0.96	2.55	1.17	2.76	1.21	3.10	1.26	4.01	1.31	5.14	1.34	6.39	1.43

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

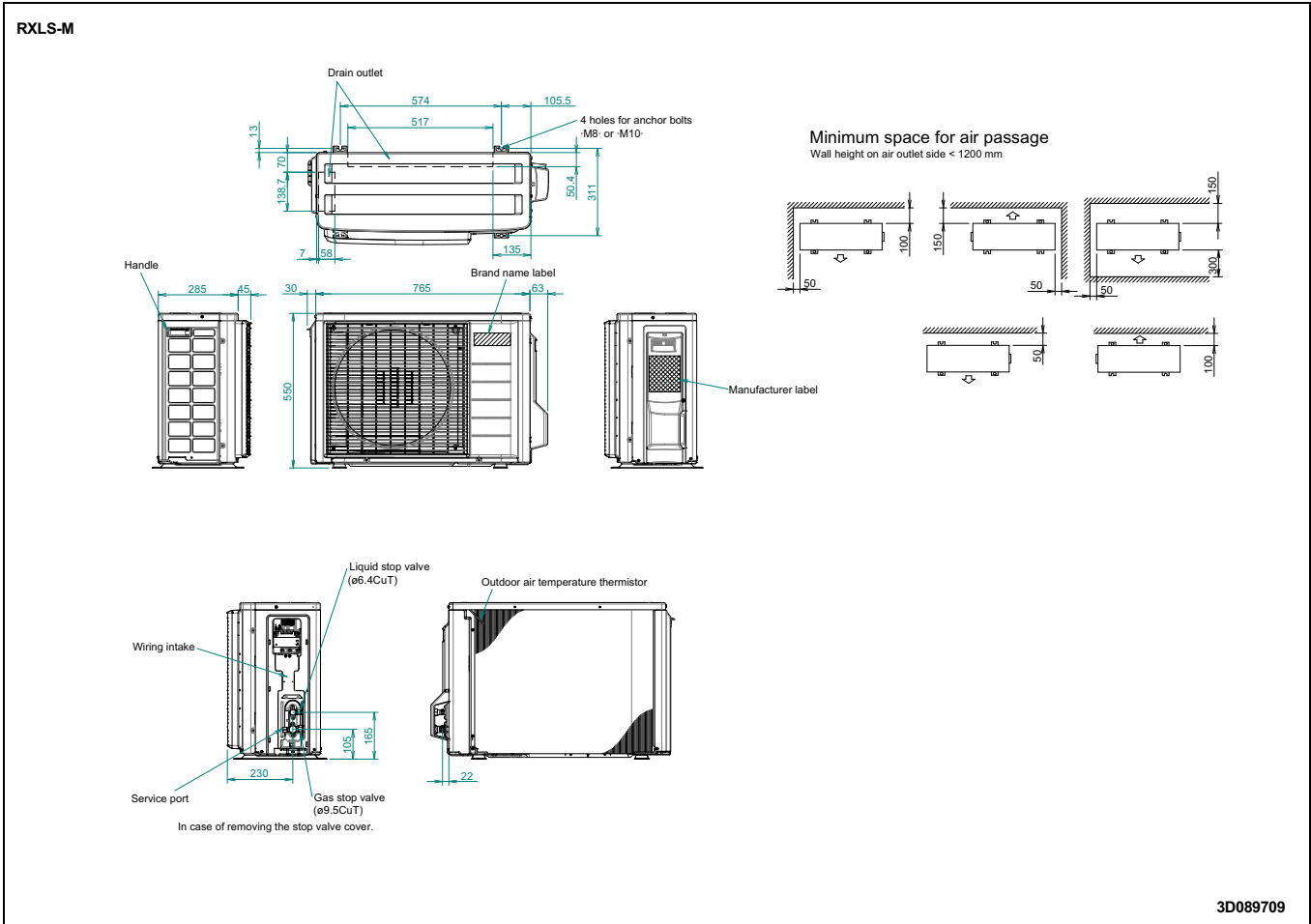
- TC: Total capacity [kW]
- PI: Power input [kW]
- SHC: Sensible heat capacity [kW]
- AFR: Air flow rate [m³/min]
- BF: Bypass factor

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

3D090495

5 Dimensional drawings

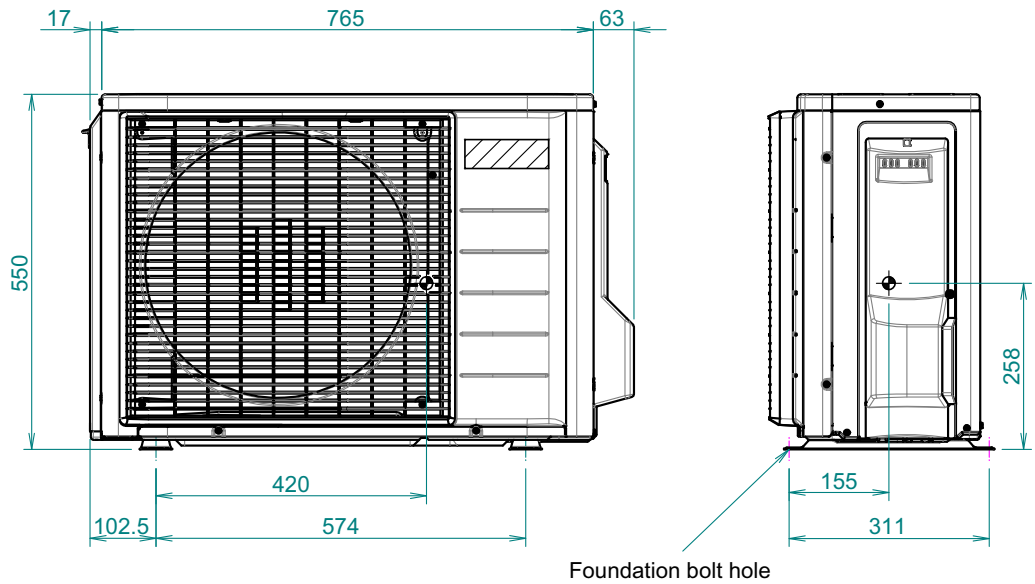
5 - 1 Dimensional Drawings



6 Centre of gravity

6 - 1 Centre of Gravity

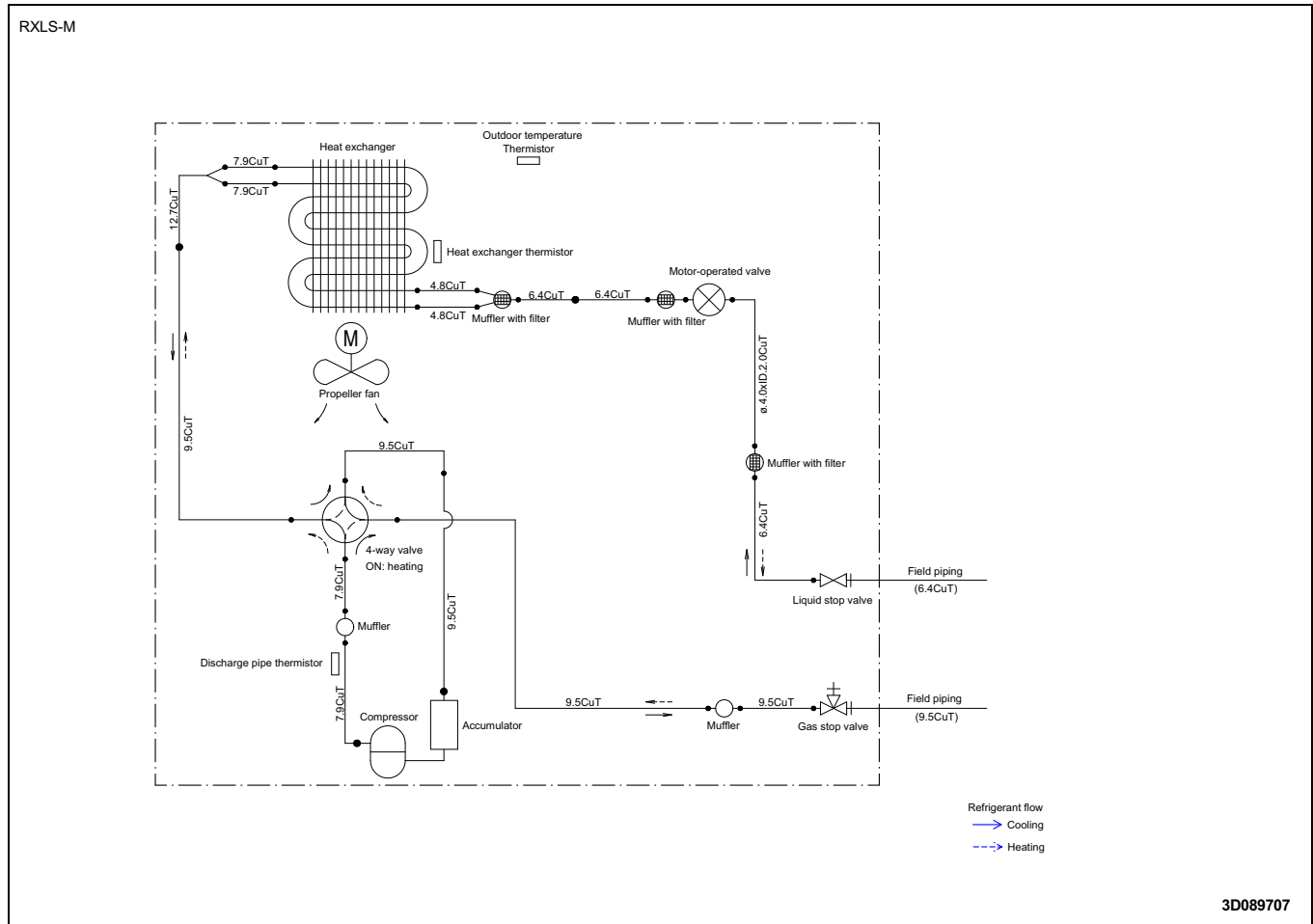
RXLS-M



4D089718

7 Piping diagrams

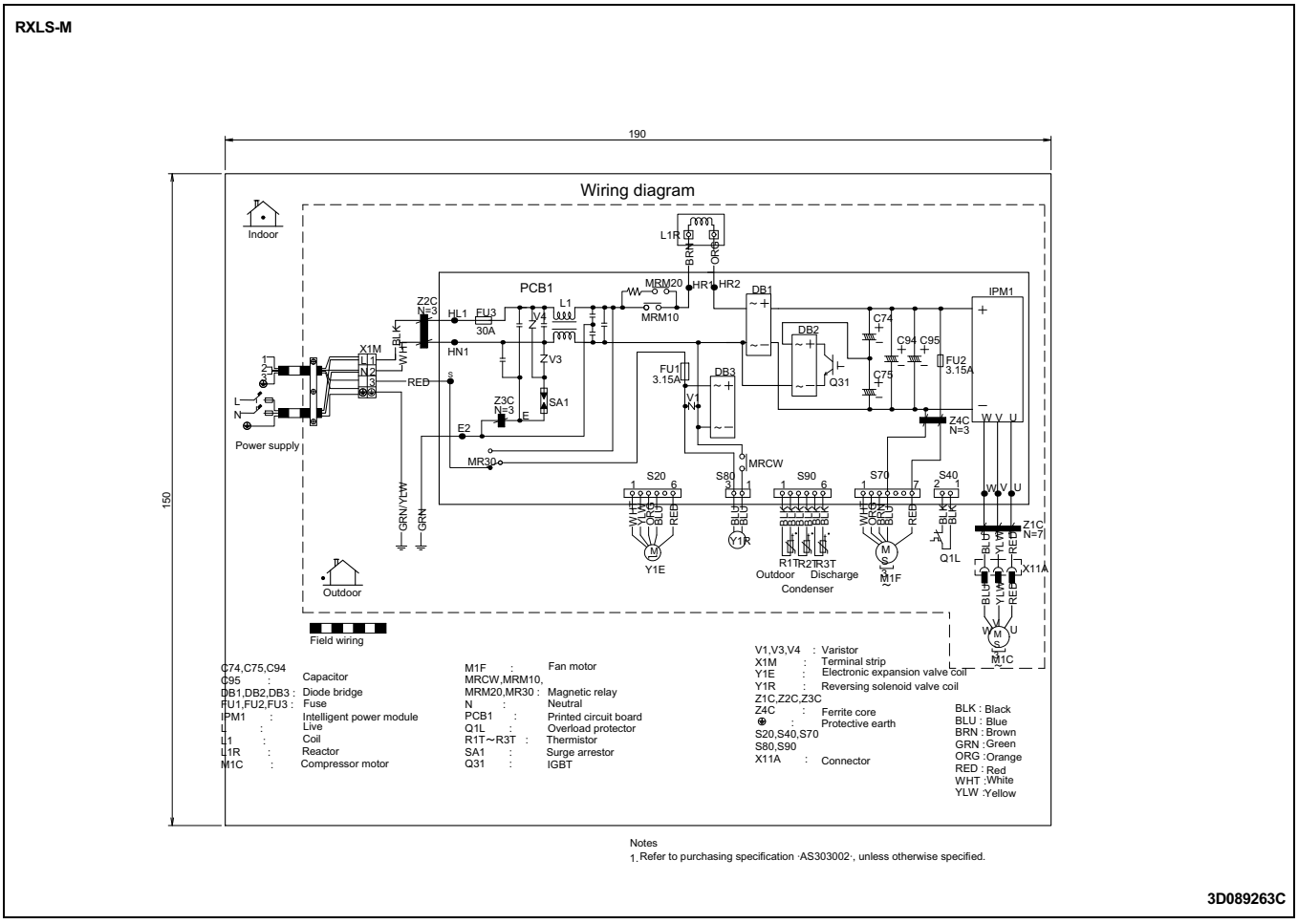
7 - 1 Piping Diagrams



8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

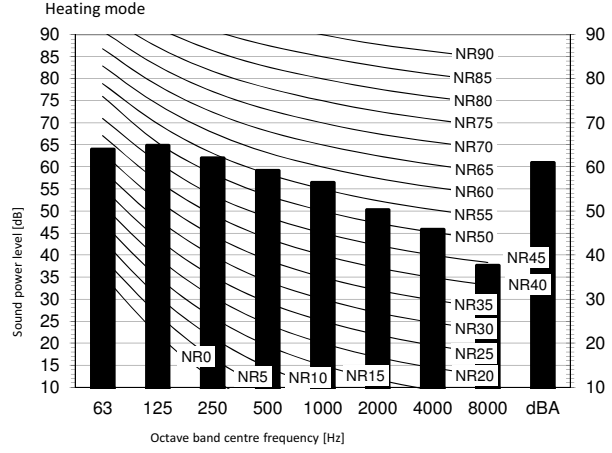
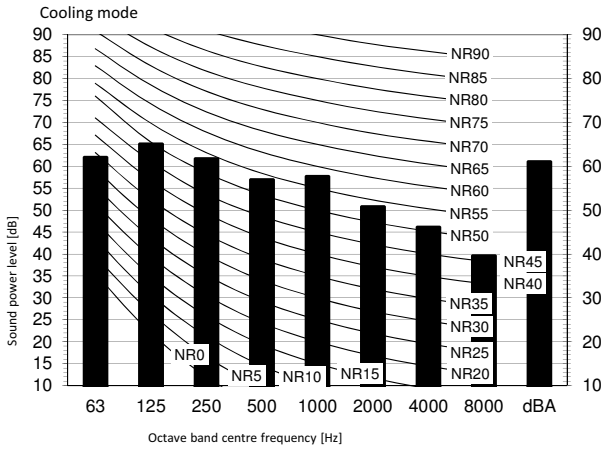
8



9 Sound data

9 - 1 Sound Power Spectrum

RXLS-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

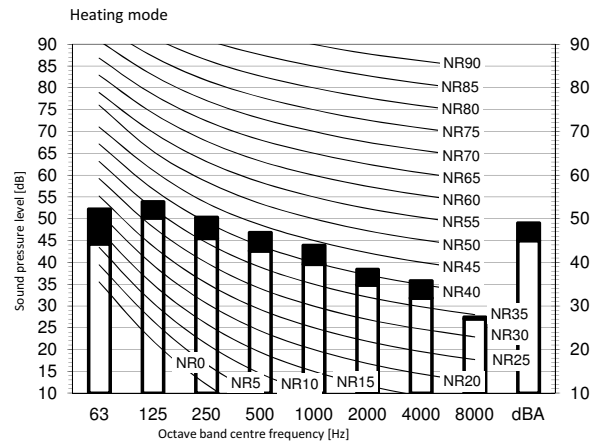
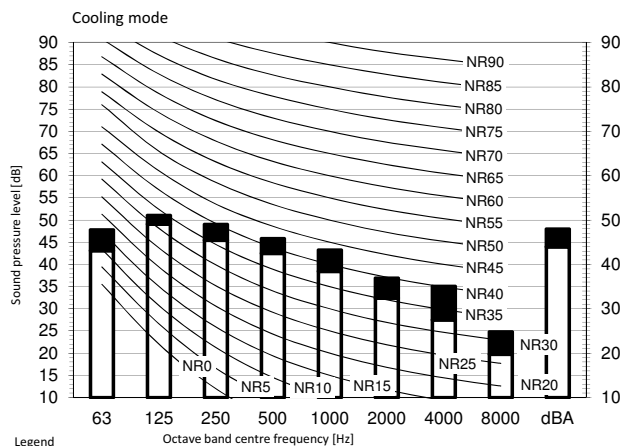
3D089944

9 Sound data

9 - 2 Sound Pressure Spectrum

9

RXLS-M



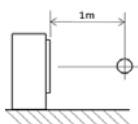
Legend

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

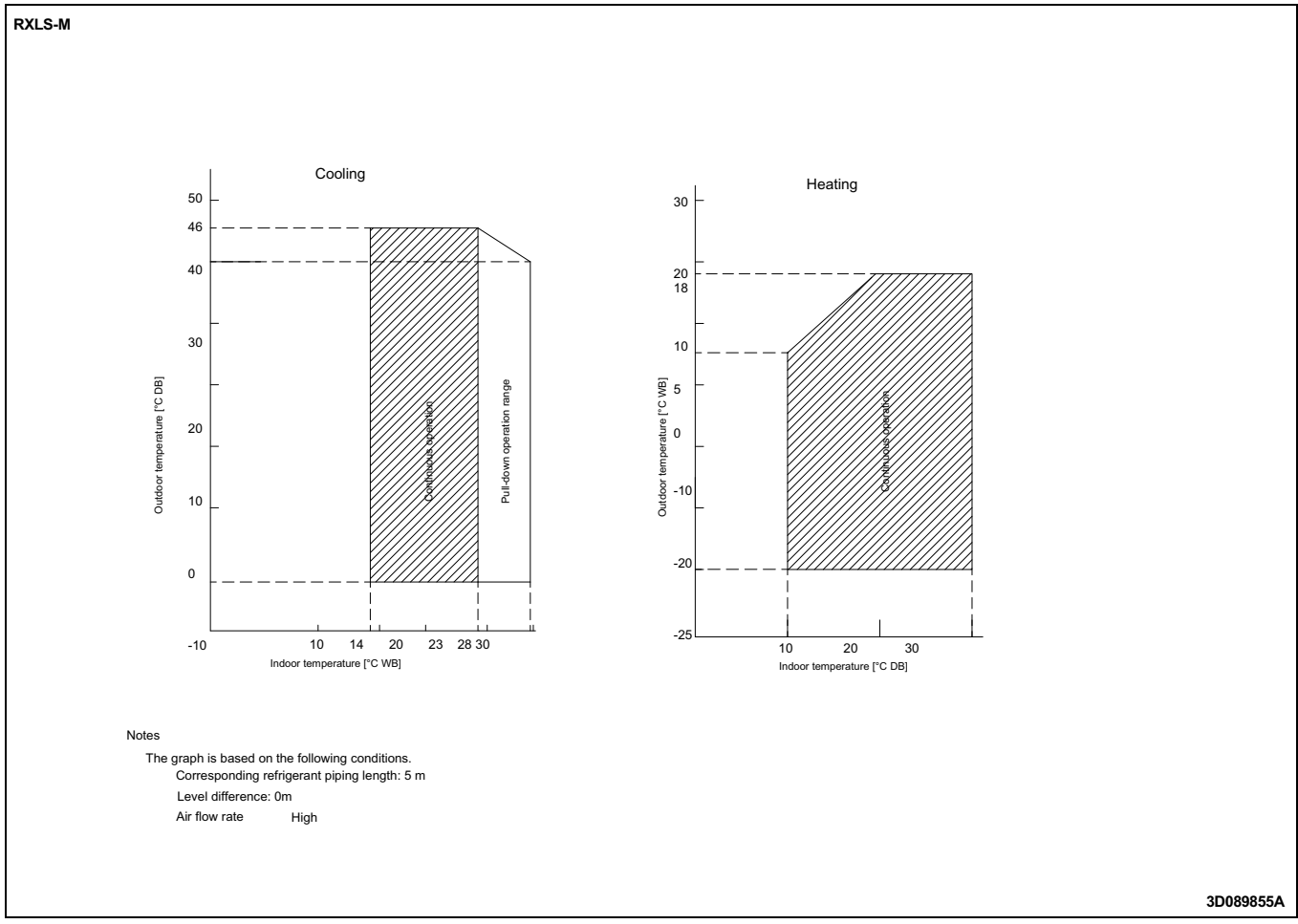
Notes

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

3D090101

10 Operation range

10 - 1 Operation Range





Daikin Europe N.V. participates in the Eurovent Certification programme for Liquid Chilling Packages (LCP), Air handling units (AHU) and Fan coil units (FCU). Check on-going validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V.. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.

BARCODE

Daikin products are distributed by: