

technical data



RXG-E2V1B

**Outdoor Units,
Pair Application**

air conditioning systems

Split Sky Air

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RXG-E2V1B

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1 Features

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



1

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RXG25E2V1B	RXG35E2V1B
For combination indoor units + outdoor units	Indoor Units			FTXG25EV1BW	FTXG35EV1BW
Nominal Capacity	Cooling	Minimum	kW	1.3	1.4
		Standard	kW	2.5	3.5
		Maximum	kW	3.0	3.8
	Heating	Minimum	kW	1.3	1.4
		Standard	kW	3.4	4.2
		Maximum	kW	4.5	5.0
For combination indoor units + outdoor units	EER	Cooling		4.03	3.30
	COP	Heating		4.15	3.72
	Energy Labeling Directive	Cooling		A	
		Heating		A	
	Annual energy consumption		kWh	310	530
	Indoor Units			FTXG25EV1BS	FTXG35EV1BS
Nominal Capacity	Cooling	Minimum	kW	1.3	1.4
		Standard	kW	2.5	3.5
		Maximum	kW	3.0	3.8
	Heating	Minimum	kW	1.3	1.4
		Standard	kW	3.4	4.2
		Maximum	kW	4.5	5.0
For combination indoor units + outdoor units	EER	Cooling		4.03	3.30
	COP	Heating		4.15	3.72
	Energy Labeling Directive	Cooling		A	
		Heating		A	
	Annual energy consumption		kWh	310	530
	Indoor Units			FTXG25EV1BS	FTXG35EV1BS

2-2 TECHNICAL SPECIFICATIONS				RXG25E2V1B		RXG35E2V1B	
Casing	Colour			Ivory White			
Dimensions	Unit	Height	mm	550		550	
		Width	mm	765		765	
		Depth	mm	285		285	
	Packing	Height	mm	589		589	
		Width	mm	882		882	
		Depth	mm	363		363	
Weight	Unit		kg	32		32	
	Packed Unit		kg	38		38	
Heat Exchanger	Dimensions	Length	mm	805		805	
		Nr of Rows		2		2	
		Fin Pitch	mm	1.40		1.40	
		Nr of Stages		24		24	
	Tube type			Hi-Xa(7)			
	Fin	Type			WH fin		
Fan	Type			Propeller			
	Quantity			1		1	
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	31.30		31.3	
		Heating	m³/min	28.10		28.1	
	Motor	Quantity		1		1	
		Model		D23A-28			
Motor	Speed (nominal)	Cooling	rpm	810		810	
		Heating	rpm	810		810	
Fan	Motor	Output	W	35		35	

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RXG25E2V1B		RXG35E2V1B	
Compressor	Quantity			1		1	
	Motor	Model		1YC23NXD#A			
		Type		Hermetically sealed swing compressor			
		Motor Output	W	600		600	
Operation Range	Cooling	Min	° CDB	10.0		10.0	
		Max	° CDB	46.0		46.0	
	Heating	Min	° CWB	-15.0		-15	
		Max	° CWB	20.0		20	
Sound Level (nominal)	Cooling	Sound Power	dBA	61.0		62.0	
		Sound Pressure	dBA	46.0		47.0	
	Heating	Sound Power	dBA	47.0		48.0	
		Sound Pressure	dBA	47.0		48.0	
Refrigerant	Type			R-410A			
	Charge		kg	1.00		1.0	
	Control			Motor operated expansion valve			
Refrigerant Oil	Type			FVC50K			
	Charged Volume		l	0.4		0.4	
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.35		6.35	
	Gas	Diameter (OD)	mm	9.5		9.5	
	Drain	Diameter (OD)	mm	18		18	
	Piping Length	Maximum	m	20		20	
	Additional Refrigerant Charge		kg/m	0.02/>10			
	Max. internunit level difference		m	15.0		15.0	
	Heat Insulation			Both liquid and gas pipes			
	Item			Installation manual			
Standard Accessories	Quantity			1		1	
	Item			Drain plug			
	Quantity			1		1	
	Item			Drain plug			
Notes				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.			
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m			
				Sound levels are measured in an anechoic room			
				Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter.			
				The sound power level is an absolute value indicating the power which a sound source generates.			

2-3 ELECTRICAL SPECIFICATIONS				RXG25E2V1B		RXG35E2V1B	
Power Supply	Name			V1			
	Phase			1		1	
	Frequency		Hz	50		50	
	Voltage		V	230		230	
Current	Nominal running current (RLA)	Cooling (A)	A	3.26		4.76	
		Heating (A)	A	4.36		5.06	
	Starting current (cooling/heating)		A	4.5		5.2	
Wiring connections	For Power Supply	Quantity		3		3	
	For connection with indoor	Quantity		4		4	
		Remark		included earth wiring			
Power Supply Intake				Outdoor unit only			

3 Electrical data

RXG+FTXG-E

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG25EV1BW	RXG25E2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	12	15	49	3.3	35	0.23	40	0.52
		50 - 230					3.2		0.22		0.50
		50 - 240					3.1		0.21		0.48
FTXG25EV1BS	RXG25E2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	12	15	49	3.3	35	0.23	40	0.52
		50 - 230					3.2		0.22		0.50
		50 - 240					3.1		0.21		0.48

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SYMBOLS

MCA	: Min. Circuit Amps (A)
MFA	: Max. Fuse Amps (A)
RLA	: Rated Load Amps (A)
OFM	: Outdoor Fan Motor
IFM	: Indoor Fan Motor
FLA	: Full Load Amps (A)
W	: Fan Motor Rated Output (W)
RHz	: Rated operating frequency(Hz)

NOTES

- 1 RLA is based on the following conditions:
Indoor temperature 27°CDB/19°CWB
Outdoor temperature 35°CDB
- 2 Maximum allowable voltage variation between phases is 2%
- 3 Select wire size based on the larger value of MCA.
- 4 Instead of fuse, use circuit breaker
- 5 For more details concerning conditional connections, see
<http://extranet.daikineurope.com>, select "E-Data Books".
Finally, click on the document title of your choice.

3 Electrical data

RXG+FTXG-E

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG35EV1BW	RXG35E2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	12	15	80	4.9	35	0.23	40	0.52
		50 - 230					4.7		0.22		0.50
		50 - 240					4.5		0.21		0.48
FTXG35EV1BS	RXG35E2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	12	15	80	4.9	35	0.23	40	0.52
		50 - 230					4.7		0.22		0.50
		50 - 240					4.5		0.21		0.48

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SYMBOLS

MCA	: Min. Circuit Amps (A)
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RLA	: Rated Load Amps (A)
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NOTES

- 1 RLA is based on the following conditions:
Indoor temperature 27°CDB/19°CWB
Outdoor temperature 35°CDB
- 2 Maximum allowable voltage variation between phases is 2%
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- 4 Instead of fuse, use circuit breaker
- 5 For more details concerning conditional connections, see <http://extranet.daikineurope.com>, select "E-Data Books".
Finally, click on the document title of your choice.

4 Capacity tables

4 - 1 Cooling/Heating capacity tables

RXG + FTXG25E

Cooling

50Hz 220-240V
60Hz 220-230V

AFR	7.4
BF	0.18

Indoor		Outdoor temperature (°C)																	
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	2.50	1.84	0.46	2.44	1.82	0.52	2.33	1.76	0.57	2.28	1.74	0.59	2.21	1.70	0.61	2.10	1.64	0.66
16.0	22	2.68	1.84	0.48	2.56	1.79	0.52	2.44	1.73	0.57	2.40	1.71	0.59	2.33	1.68	0.62	2.21	1.63	0.66
18.0	25	2.79	1.93	0.48	2.68	1.88	0.53	2.56	1.82	0.57	2.51	1.80	0.59	2.44	1.77	0.62	2.33	1.72	0.66
19.0	27	2.85	2.03	0.48	2.73	1.98	0.53	2.62	1.93	0.57	2.57	1.91	0.59	2.50	1.88	0.62	2.38	1.83	0.67
22.0	30	3.02	1.95	0.49	2.91	1.91	0.53	2.79	1.87	0.58	2.74	1.85	0.60	2.67	1.82	0.62	2.56	1.78	0.67
24.0	32	3.14	1.90	0.49	3.02	1.86	0.54	2.90	1.82	0.58	2.86	1.81	0.60	2.79	1.78	0.63	2.67	1.74	0.67

Heating

50Hz 220-240V
60Hz 220-230V

AFR	7.7
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Indoor		Outdoor temperature (°CWB)									
EDB		-10		-5		0		6		10	
(°C)		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0		2.27	0.70	2.65	0.74	3.03	0.77	3.49	0.81	3.80	0.84
18.0		2.22	0.71	2.60	0.74	2.99	0.78	3.45	0.82	3.75	0.84
20.0		2.17	0.72	2.56	0.75	2.94	0.78	3.40	0.83	3.71	0.85
21.0		2.15	0.72	2.53	0.75	2.92	0.79	3.38	0.83	3.68	0.86
22.0		2.12	0.72	2.51	0.76	2.89	0.79	3.35	0.83	3.66	0.86
24.0		2.08	0.73	2.46	0.77	2.85	0.80	3.31	0.84	3.61	0.87

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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)
TC	: Total cooling capacity	(kW)
SHC	: Sensible heating capacity	(kW)
PI	: Power input	(kW)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- SHC is based on each EWB and EDB
SHC1 for any indoor dry-bulb temperatures (EDB1) shall be calculated by the following formula.
SHC*: Correction value of SHC matched with the differential of EDB and EDB1.
SHC*=0.02 X AFR(m³/min.) X (1-BF) X (EDB1-EDB)
The calculation value of SHC1 = SHC + SHC*
- Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

4 Capacity tables

4 - 1 Cooling/Heating capacity tables

RXG + FTXG35E

Cooling

50Hz 220-240V
60Hz 220-230V

AFR	7.9
BF	0.18

Indoor		Outdoor temperature (°C)																	
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	2.67	1.97	0.56	2.67	1.97	0.65	2.67	1.97	0.74	2.67	1.97	0.79	2.67	1.97	0.86	2.67	1.97	0.99
16.0	22	3.39	2.23	0.72	3.39	2.23	0.83	3.39	2.23	0.96	3.36	2.21	1.01	3.26	2.17	1.05	3.10	2.08	1.13
18.0	25	3.91	2.49	0.82	3.75	2.41	0.90	3.58	2.34	0.98	3.52	2.31	1.01	3.42	2.26	1.06	3.26	2.18	1.14
19.0	27	3.99	2.60	0.82	3.83	2.52	0.90	3.66	2.44	0.98	3.60	2.41	1.01	3.50	2.37	1.06	3.34	2.30	1.14
22.0	30	4.23	2.49	0.83	4.07	2.42	0.91	3.90	2.36	0.99	3.84	2.33	1.02	3.74	2.29	1.07	3.58	2.23	1.15
24.0	32	4.39	2.42	0.84	4.23	2.35	0.91	4.07	2.29	0.99	4.00	2.27	1.02	3.90	2.23	1.07	3.74	2.17	1.15

Heating

50Hz 220-240V
60Hz 220-230V

AFR	7.9
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Indoor		Outdoor temperature (°CWB)									
EDB		-10		-5		0		6		10	
(°C)		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0		2.80	0.96	3.27	1.01	3.75	1.06	4.32	1.11	4.70	1.15
18.0		2.74	0.98	3.21	1.02	3.69	1.07	4.26	1.12	4.64	1.16
20.0		2.68	0.99	3.16	1.03	3.63	1.08	4.20	1.14	4.57	1.17
21.0		2.65	0.99	3.13	1.04	3.60	1.08	4.17	1.14	4.43	1.14
22.0		2.62	1.00	3.10	1.04	3.57	1.09	4.14	1.15	4.30	1.12
24.0		2.57	1.01	3.04	1.05	3.51	1.10	4.02	1.14	4.02	1.06

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SYMBOLS

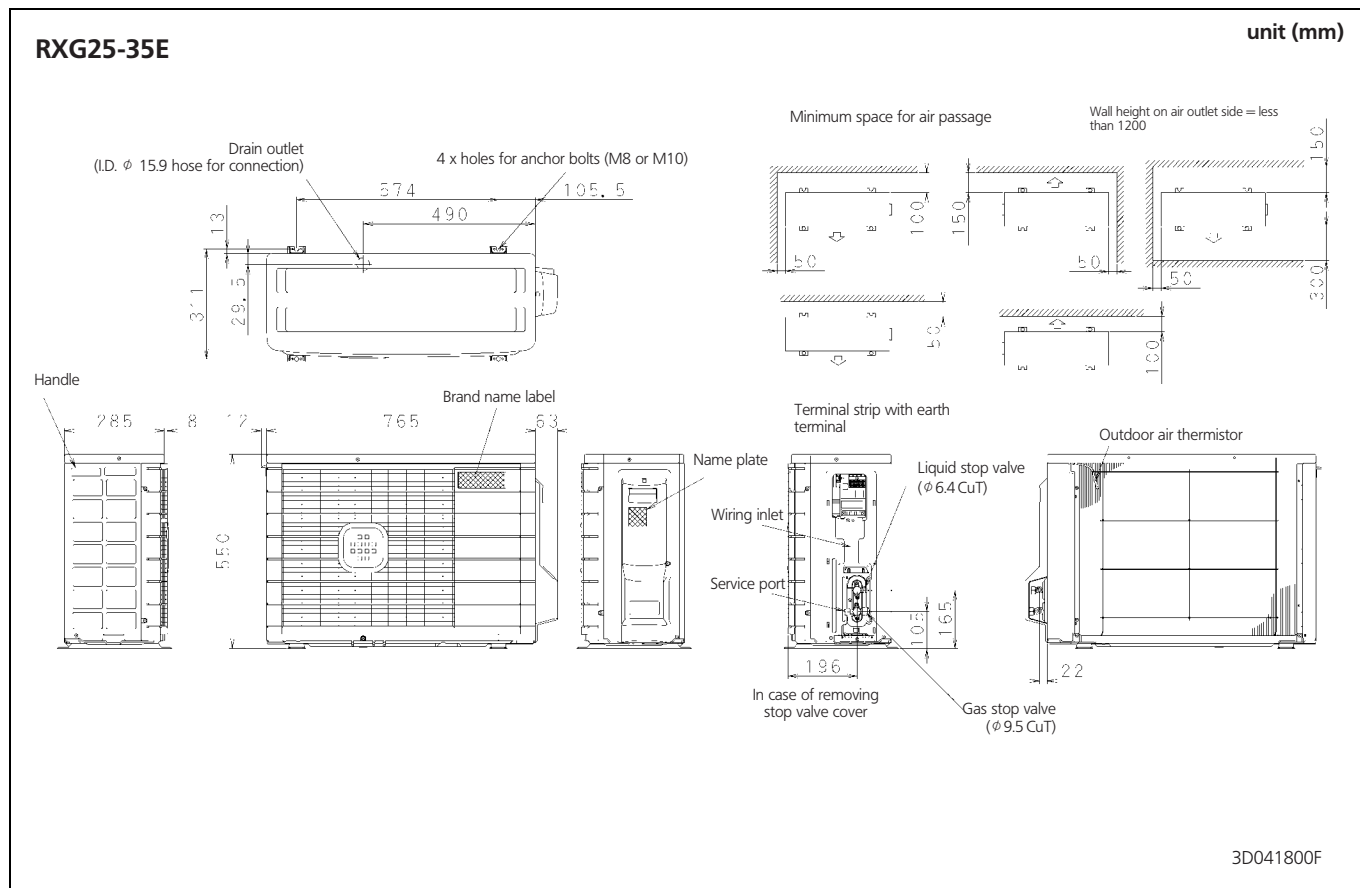
AFR	: Air flow rate	(m ³ /min)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°CWB)
EDB	: Entering dry bulb temp.	(°CDB)
TC	: Total cooling capacity	(kW)
SHC	: Sensible heating capacity	(kW)
PI	: Power input	(kW)

NOTES

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-  shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- SHC is based on each EWB and EDB
SHC*: Correction value of SHC matched with the differential of EDB and EDB1.
SHC*=0.02 X AFR(m³/min.) X (1-BF) X (EDB1-EDB)
The calculation value of SHC = SHC + SHC*
- Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

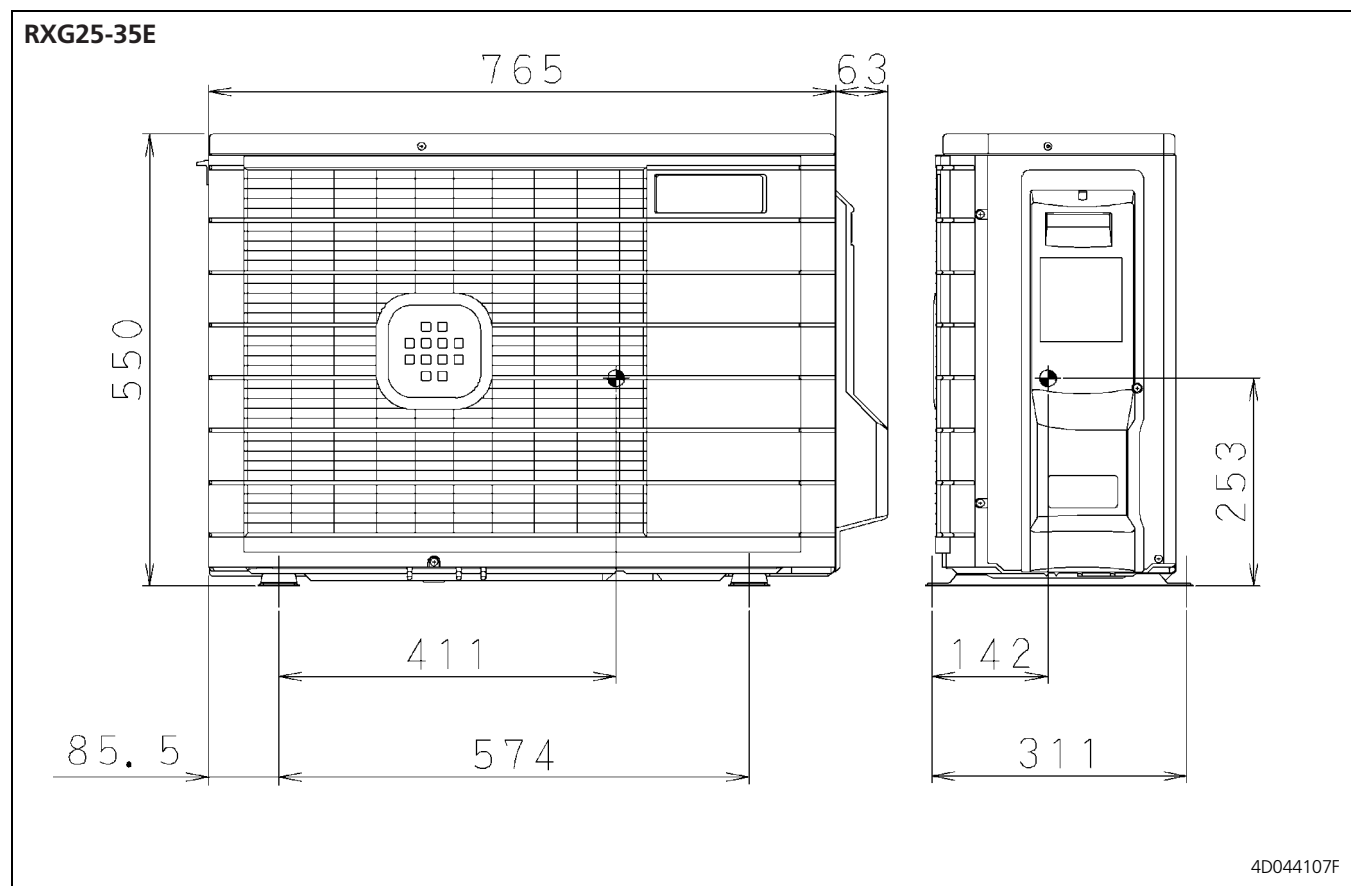
5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

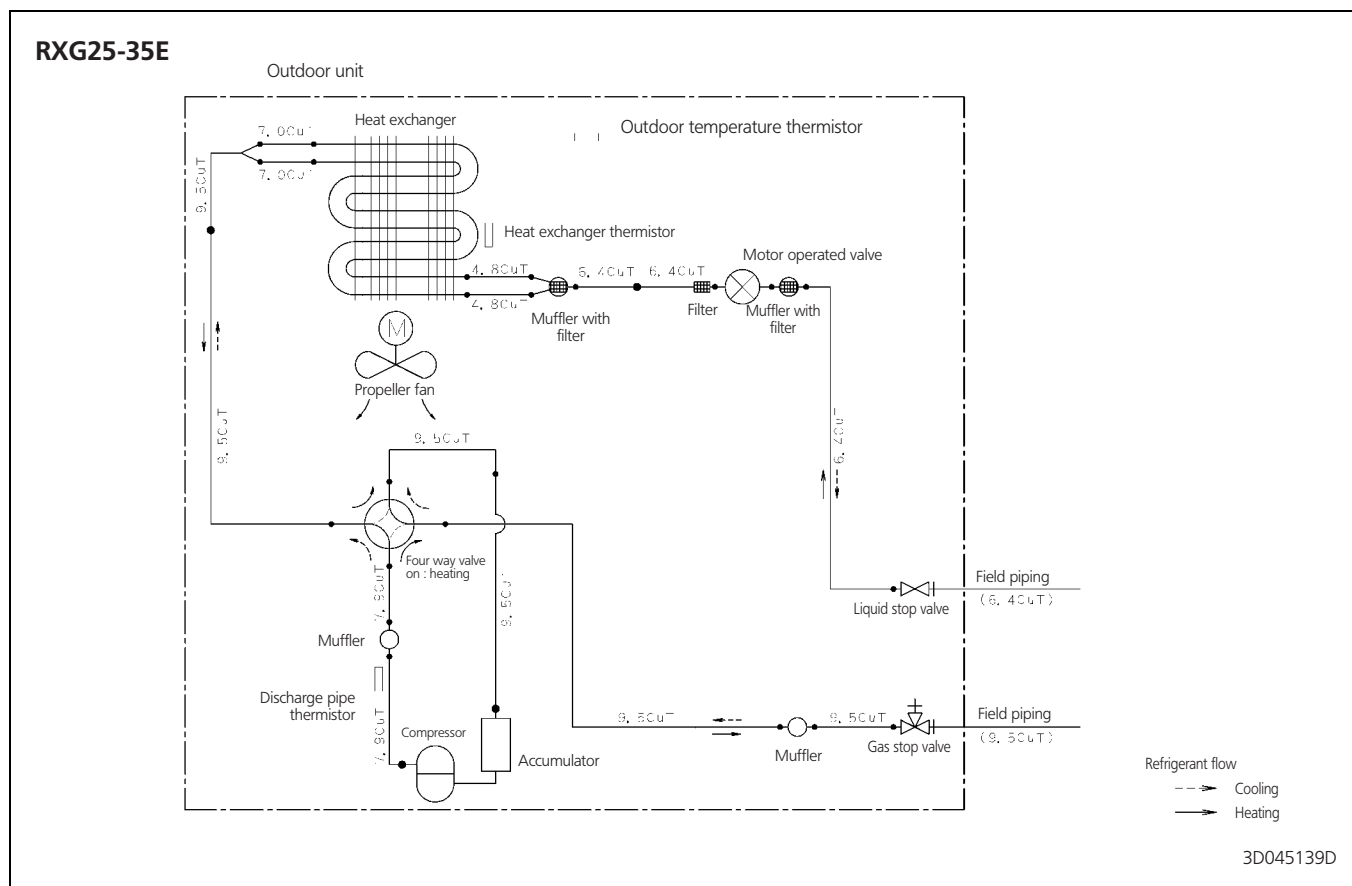


5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

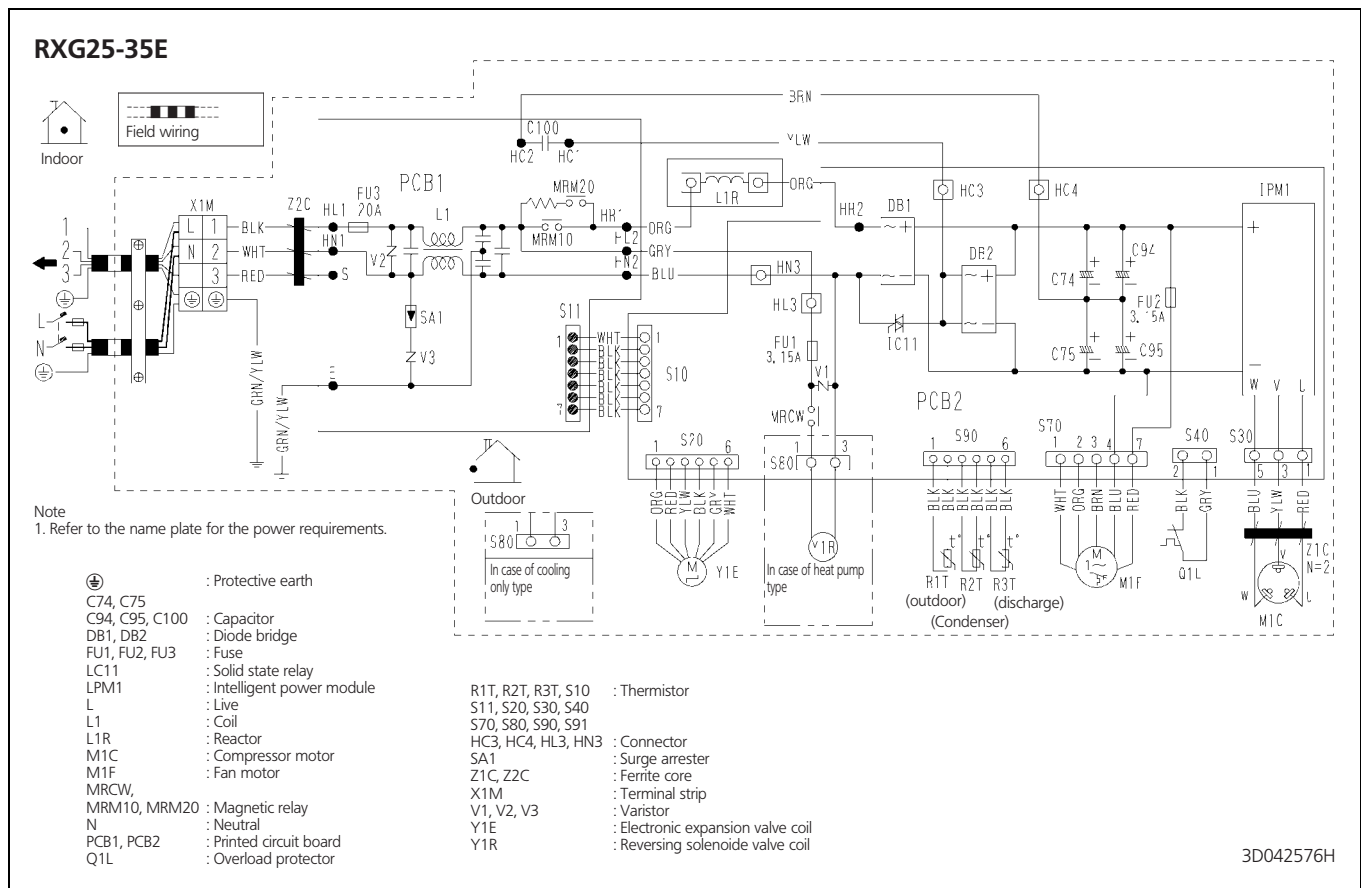


6 Piping diagram



7 Wiring diagram

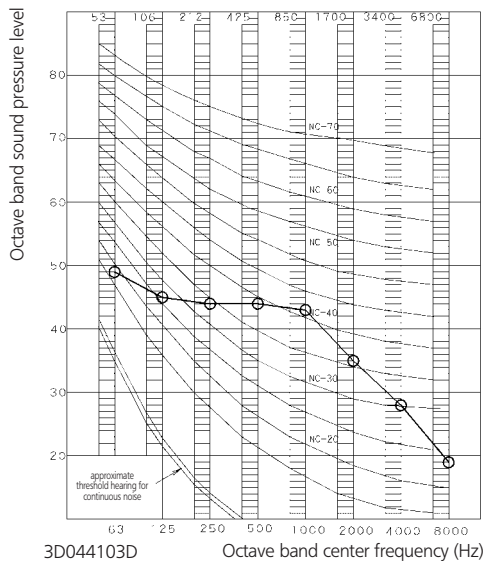
7 - 1 Wiring diagram



8 Sound data

8 - 1 Sound pressure spectrum

RXG25E (Cooling)



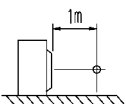
NOTES

- 1 Measure in anechoic room
- 2 Operation noise differs with operation and ambient conditions.
- 3 The operation noise measuring method is in accordance with JISC9612

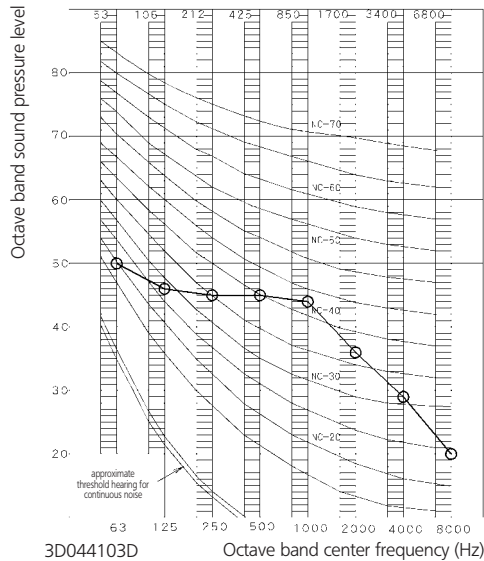
Legend

○—○ 50/60Hz, 220-240V

Location of microphone



RXG25E (Heating)



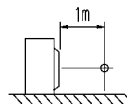
NOTES

- 1 Measure in anechoic room
- 2 Operation noise differs with operation and ambient conditions.
- 3 The operation noise measuring method is in accordance with JISC9612

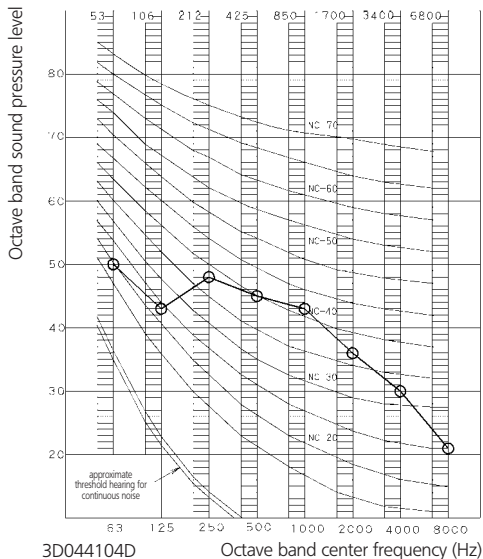
Legend

○—○ 50/60Hz, 220-240V

Location of microphone



RXG35E (Cooling)



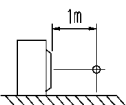
NOTES

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- 2 Operation noise differs with operation and ambient conditions.
- 3 The operation noise measuring method is in accordance with JISC9612

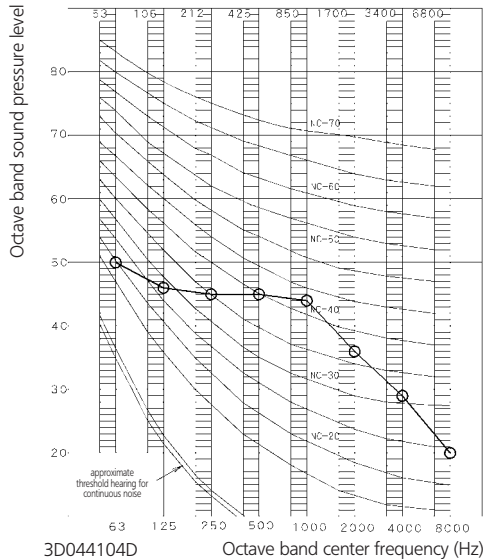
Legend

○—○ 50/60Hz, 220-240V

Location of microphone



RXG35E (Heating)



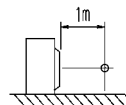
NOTES

- 1 Measure in anechoic room
- 2 Operation noise differs with operation and ambient conditions.
- 3 The operation noise measuring method is in accordance with JISC9612

Legend

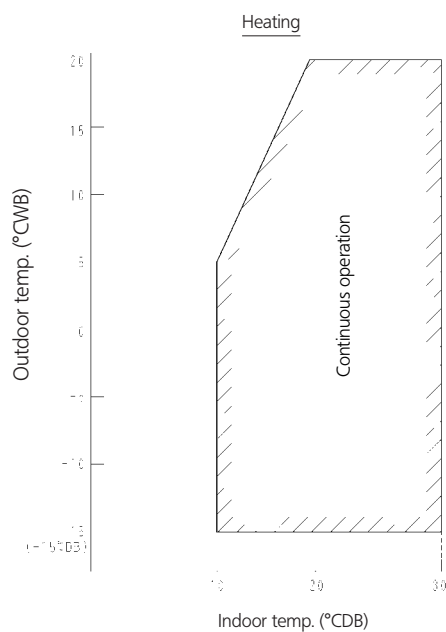
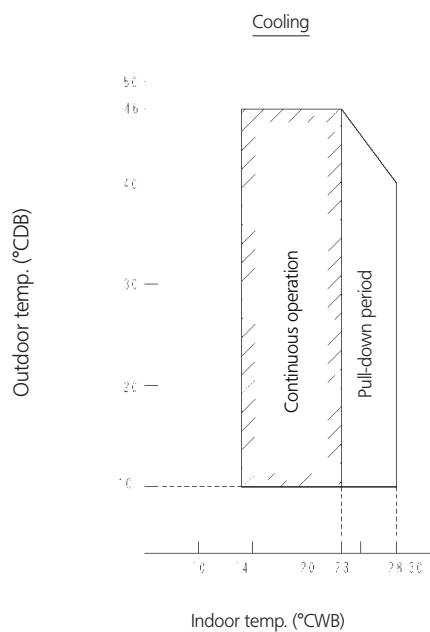
○—○ 50/60Hz, 220-240V

Location of microphone



9 Operation range

RXG25-35E



Notes:

The graphs are based on the following conditions:

- Equivalent piping length 7.5 m
- Level difference 0 m
- Air flow rate high

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Split - Sky Air

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