



Air Conditioning

Technical Data



EEDEN15-100

RX-GV

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RX-GV

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1 Features

- Outdoor unit silent operation: "silent" button on the remote control lowers the operation sound of the outdoor unit by 3dBA to ensure a quiet environment for the neighbourhood.
- Outdoor units for pair application
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Energy saving during standby mode: reduces current consumption by about 80% when operating in standby. If no people are detected for more than 20 minutes, the system will automatically switch to the current-saving mode.
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



Inverter



Energy saving
during standby
mode



Outdoor unit
silent operation

2 Specifications

2-1 Capacity and Power input				FTX50GV/RX50GV	
Cooling capacity	Min.		kW	1.7	
			Btu/h	5,800	
			kcal/h	1,460	
	Nom.		kW	5.0 (1)	
			Btu/h	17,100 (1)	
			kcal/h	4,300 (1)	
	Max.		kW	6.0	
			Btu/h	20,500	
			kcal/h	5,160	
Heating capacity	Min.		kW	1.7	
			Btu/h	5,800	
			kcal/h	1,460	
	Nom.		kW	5.8 (2)	
			Btu/h	19,800 (2)	
			kcal/h	4,990 (2)	
	Max.		kW	7.7	
			Btu/h	26,300	
			kcal/h	6,620	
Power input	Cooling	Min.	kW	0.440	
		Nom.	kW	1.550	
		Max.	kW	2.080	
	Heating	Min.	kW	0.400	
		Nom.	kW	1.600	
		Max.	kW	2.530	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+	
		Pdesign	kW	5.00	
		SEER		5.63	
		Annual energy consumption	kWh	311	
	Heating (Average climate)	Energy label		A+	
		Pdesign	kW	4.60	
		SCOP		4.08	
		Annual energy consumption	kWh	1,578	
Piping connections	Liquid	OD	mm	6.35	
	Gas	OD	mm	12.7	
	Drain	OD	mm	18.0	
	Heat insulation			Both liquid and gas pipes	
Nominal efficiency	EER			3.23	
	COP			3.63	
	Annual energy consumption		kWh	775	
	Energy label	Cooling		A	
		Heating		A	

Notes

(1) Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m (horizontal)

(2) Heating: indoor temp. 20°CDB, outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m. High fan speed indoor unit

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-2 Technical Specifications			RX50GV	
Capacity control	Method		Inverter controlled	
Casing	Colour		Ivory white	

2 Specifications

2-2 Technical Specifications					RX50GV	
Dimensions	Unit	Height		mm	735	
		Width		mm	825	
		Depth		mm	300	
	Packed unit	Height		mm	797	
		Width		mm	960	
		Depth		mm	390	
Weight	Unit			kg	48	
	Packed unit			kg	53	
Heat exchanger	Length			mm	845	
	Rows	Quantity			2	
	Fin pitch			mm	1.8	
	Stages	Quantity			32	
	Tube type			ø8 Hi-XA		
	Fin	Type			Waffle louvered fin	
		Treatment			Anti-corrosion treatment (PE)	
Compressor	Model				2YC36BXD#C	
	Type				Hermetically sealed swing compressor	
	Output			W	1,100	
Fan	Type				Propeller fan	
	Air flow rate	Cooling	High	m³/min	48.9	
				cfm	1,727	
			Nom.	m³/min	48.9	
				cfm	1,727	
			Low	m³/min	41.7	
				cfm	1,472	
			Super low	m³/min	-	
				cfm	-	
		Heating	High	m³/min	45.0	
				cfm	1,589	
			Low	m³/min	41.7	
				cfm	1,472	
		Super low	m³/min	-		
			cfm	-		
Fan motor	Model				KFD-380-50-8C	
	Output			W	53.00	
	Speed	Cooling	High	rpm	780	
			Low	rpm	670	
			Super low	rpm	-	
		Heating	High	rpm	720	
			Low	rpm	670	
Super low			rpm	-		
Sound power level	Cooling			dBA	63	
	Heating			dBA	64	
Sound pressure level	Cooling	High		dBA	47	
		Low		dBA	44	
	Heating	High		dBA	48	
		Low		dBA	45	
Operation range	Cooling	Ambient	Min.	°CDB	-10	
			Max.	°CDB	46	
	Heating	Ambient	Min.	°CWB	-15	
			Max.	°CWB	18	
Refrigerant	Type				R-410A	
	Charge			kg	1.5	
				TCO ₂ eq	3.1	
	GWP				2,087.5	
Refrigerant oil	Type				FVC50K	
	Charged volume			l	0.65	

2 Specifications

2-2 Technical Specifications				RX50GV
Piping connections	Drain	ID	mm	-
	Piping length	OU - IU	Max.	30
		System	Chargeless	10
	Additional refrigerant charge		kg/m	0.020 (for piping length exceeding 10m)
	Level difference	IU - OU	Max.	20

2-3 Electrical Specifications				RX50GV
Power supply	Name			V1
	Phase			1~
	Frequency		Hz	50
	Voltage		V	220-240
Current	Nominal running current (RLA)	Cooling	A	7.04 / 6.75 / 6.45
		Heating	A	7.23 / 6.94 / 6.64
	Starting current	Cooling	A	7.4
		Heating	A	7.4
Current - 50Hz	Maximum fuse amps (MFA)		A	20
Current - 60Hz	Maximum fuse amps (MFA)		A	-
Wiring connections	For power supply	Quantity		3
	For connection with indoor	Quantity		4
		Remark		Earth wire included

Notes

Contains fluorinated greenhouse gases

SL: The silent fan level of the air flow rate setting

220V

230V

240V

3 Electrical data

3 - 1 Electrical Data

3

RX50-71GV(B)

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTX50GV1B	RX50G3V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	67	6.7	53	0.27	43	0.16
		50 - 230					6.4				
		50 - 240					6.1				
FTX60GV1B	RX60G4V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	84	8.7	53	0.32	43	0.16
		50 - 230					8.3				
		50 - 240					7.9				
FTX71GV1B	RX71GV1B8	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	19.75	20.0	57	10.3	66	0.40	43	0.19
		50 - 230					9.9				
		50 - 240					9.4				

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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 temp.: 27°CDB/19.0°CWB
Outdoor temp.: 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.

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTX50GV + RX50GV

Cooling 50Hz 220-240V

AFR	14.7
BF	0.28

Indoor		Outdoor temp. (°CDB)																	
EWB (°C)	EDB (°C)	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.12	3.61	1.19	4.89	3.49	1.30	4.66	3.37	1.42	4.56	3.32	1.46	4.42	3.25	1.53	4.19	3.13	1.65
16.0	22	5.35	3.55	1.20	5.12	3.43	1.31	4.89	3.32	1.43	4.79	3.27	1.47	4.65	3.21	1.54	4.42	3.10	1.65
18.0	25	5.58	3.69	1.20	5.35	3.58	1.32	5.12	3.47	1.43	5.02	3.43	1.48	4.88	3.37	1.55	4.65	3.26	1.66
19.0	27	5.70	3.86	1.21	5.47	3.75	1.32	5.23	3.65	1.44	5.14	3.61	1.48	5.00	3.55	1.55	4.77	3.45	1.66
22.0	30	6.04	3.71	1.22	5.81	3.62	1.33	5.58	3.52	1.45	5.49	3.49	1.49	5.35	3.43	1.56	5.11	3.35	1.67
24.0	32	6.27	3.60	1.22	6.04	3.52	1.34	5.81	3.43	1.45	5.72	3.40	1.50	5.58	3.35	1.57	5.34	3.27	1.68

Heating 50Hz 220-240V

AFR	16.1
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Indoor		Outdoor temp. (°CWB)									
EDB (°C)		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		3.90	1.35	4.56	1.42	5.21	1.48	6.00	1.56	6.52	1.62
20.0		3.70	1.39	4.36	1.46	5.01	1.52	5.80	1.60	6.32	1.65
22.0		3.62	1.40	4.28	1.47	4.93	1.54	5.72	1.61	6.24	1.67
24.0		3.54	1.42	4.20	1.48	4.85	1.55	5.64	1.63	6.16	1.68
25.0		3.50	1.43	4.16	1.49	4.81	1.56	5.60	1.64	6.12	1.69
27.0		3.42	1.44	4.08	1.51	4.73	1.57	5.52	1.65	6.04	1.70

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SYMBOLS

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

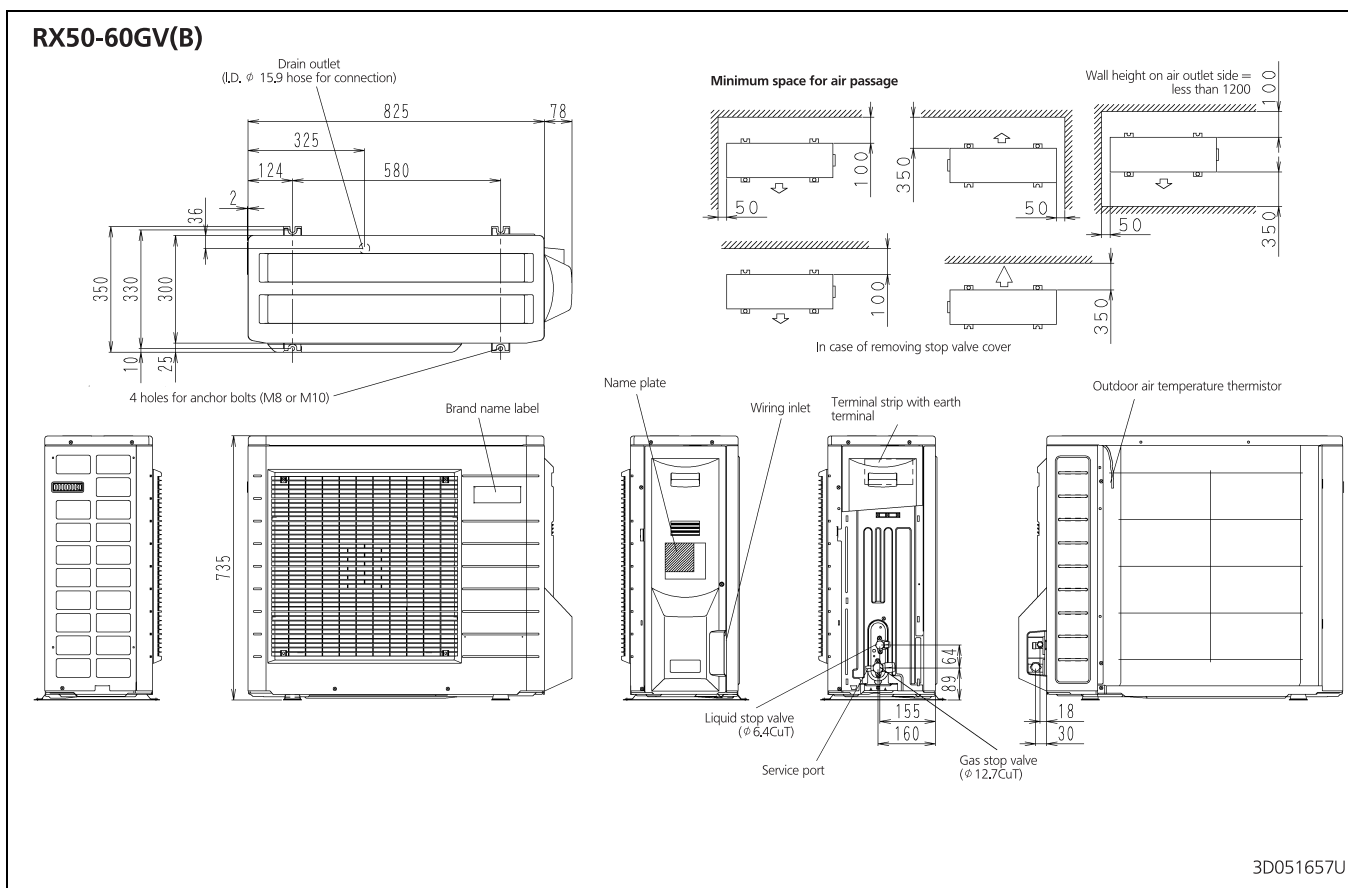
NOTES

- 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.)
- About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
- Capacities are based on the following conditions
Corresponding refrigerant piping length : 5.0 m
Level difference : 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

5 Dimensional drawings

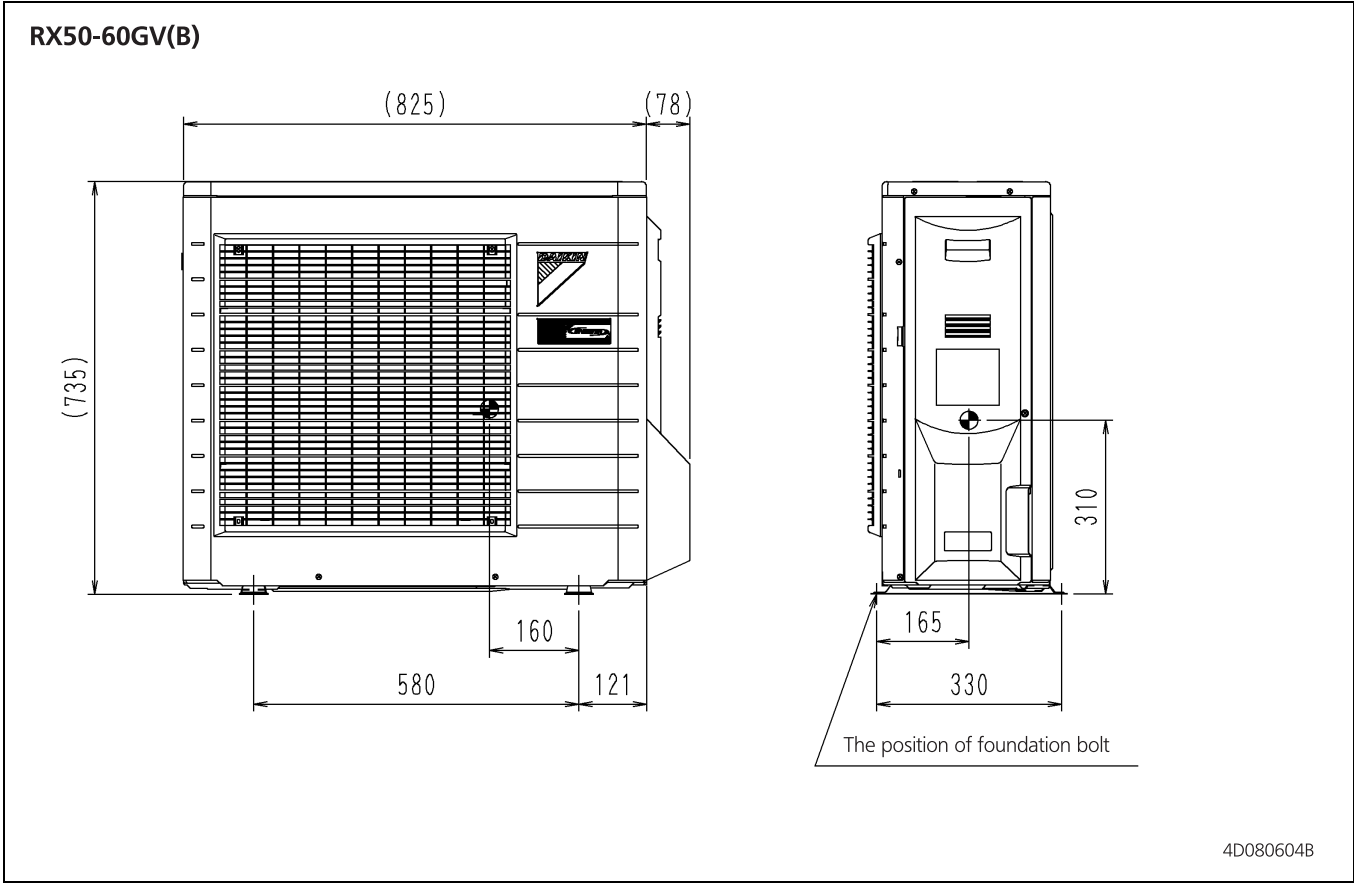
5 - 1 Dimensional Drawings

5



6 Centre of gravity

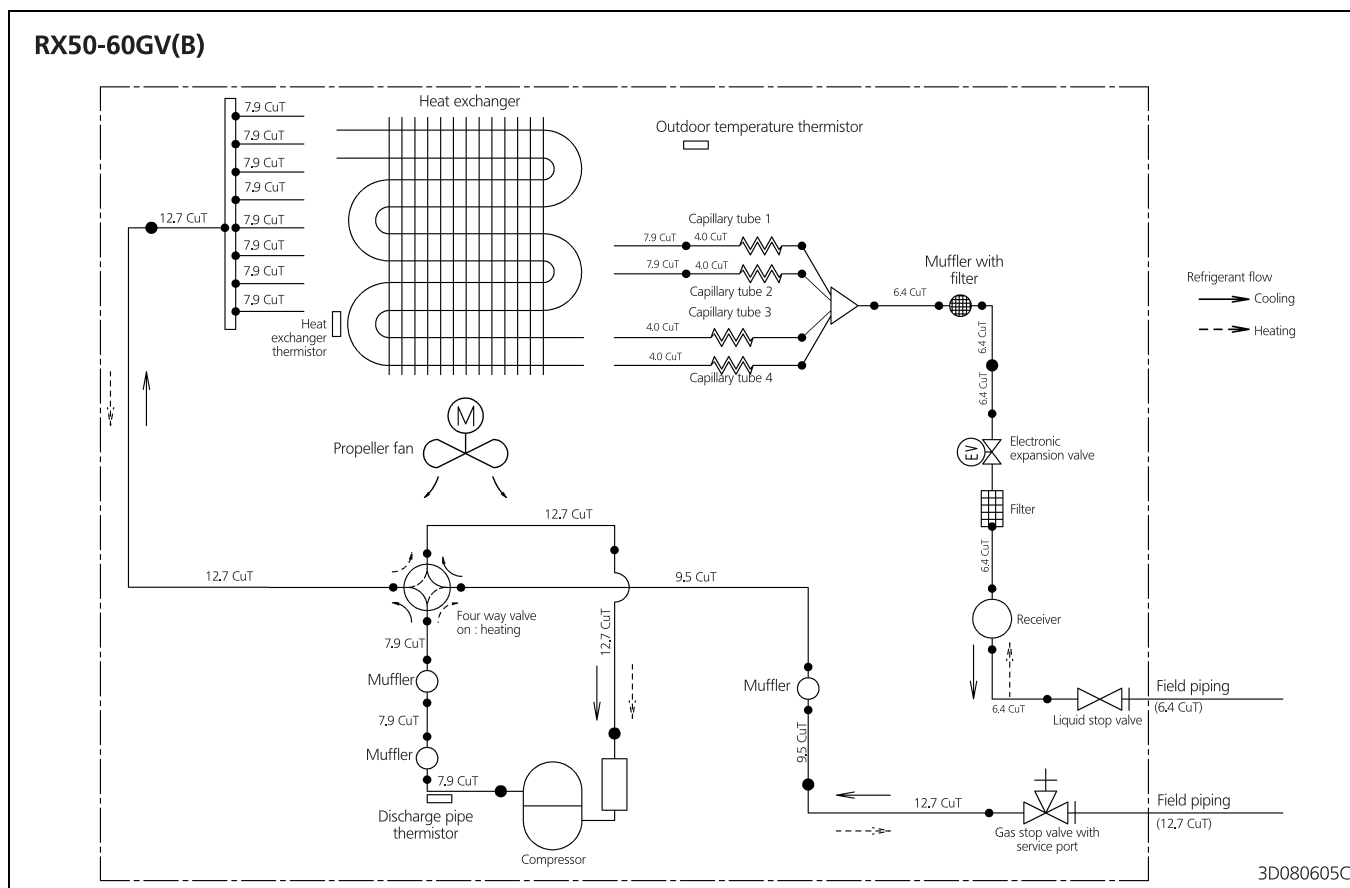
6 - 1 Centre of Gravity



7 Piping diagrams

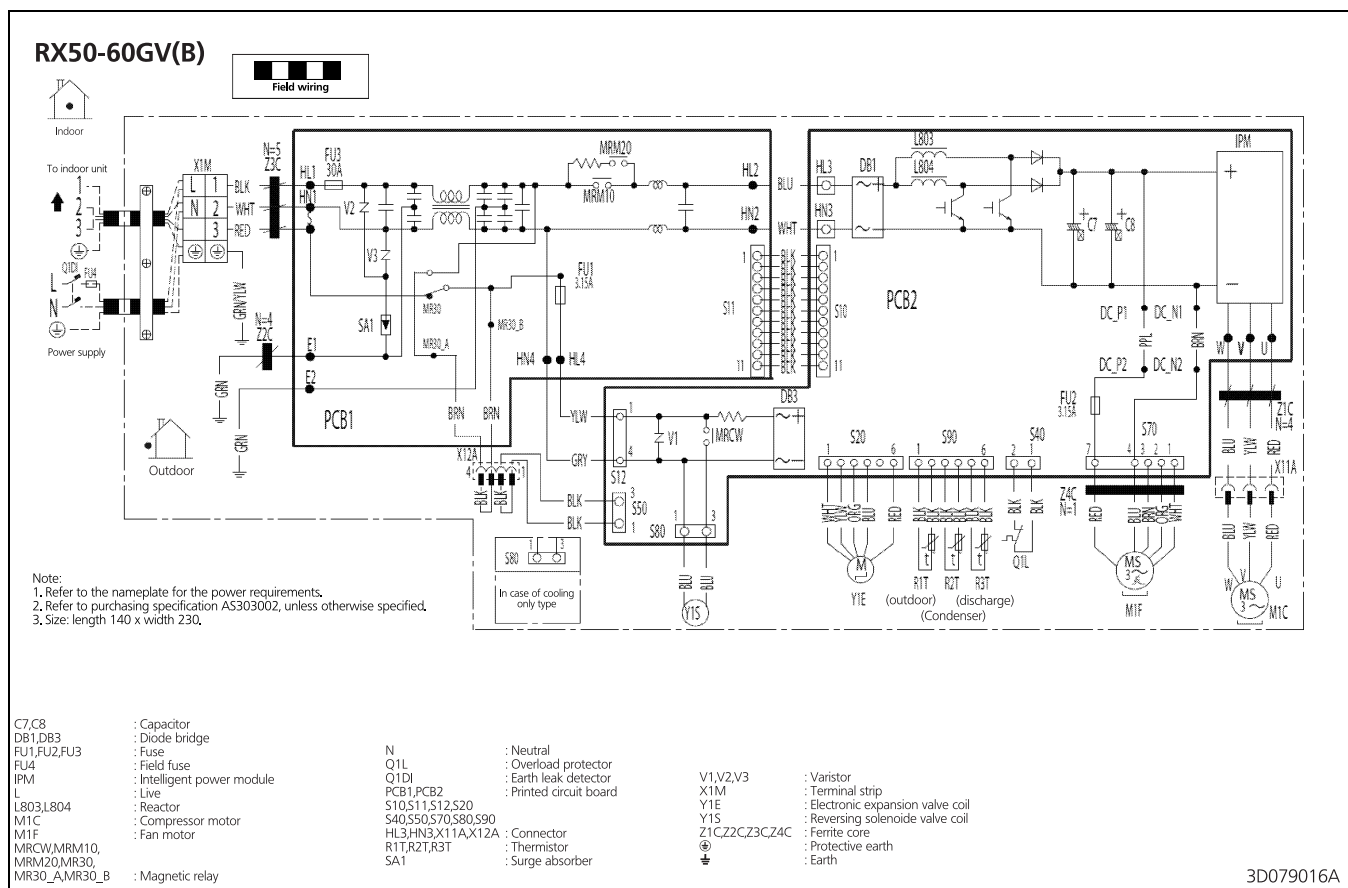
7 - 1 Piping Diagrams

7



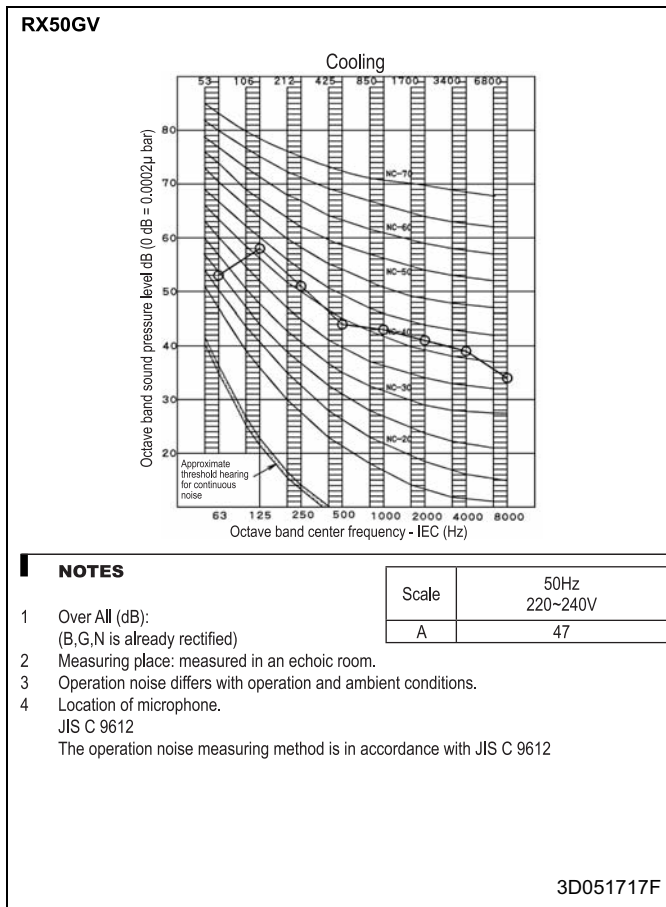
8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase



9 Sound data

9 - 1 Sound Pressure Spectrum - Cooling

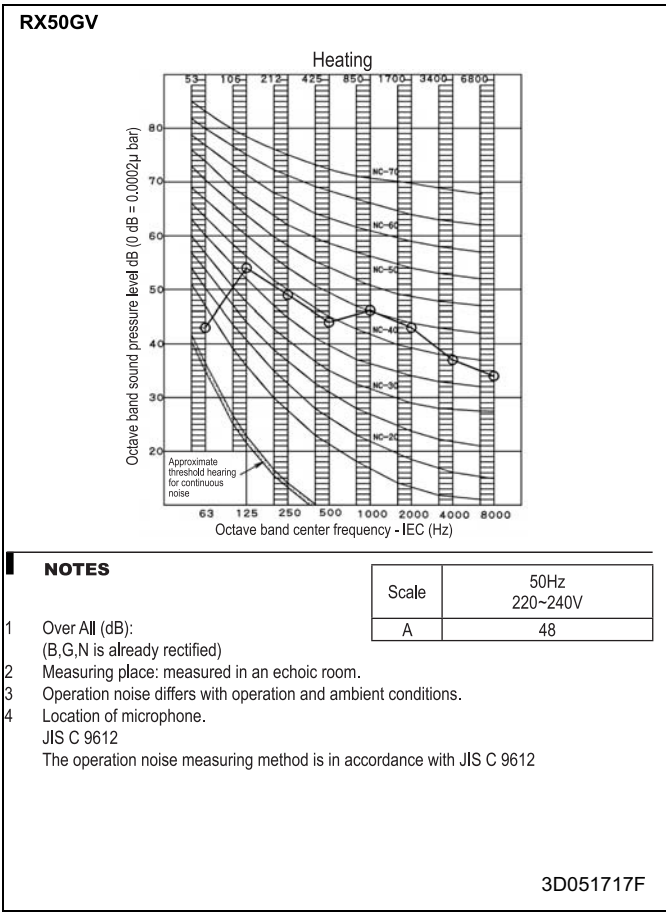


9

Sound data

9 - 2

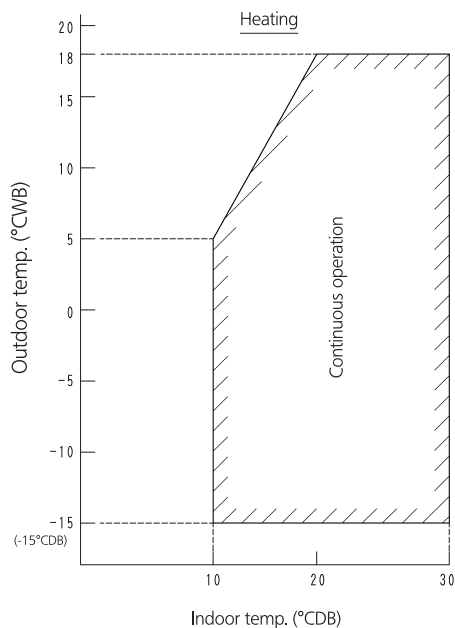
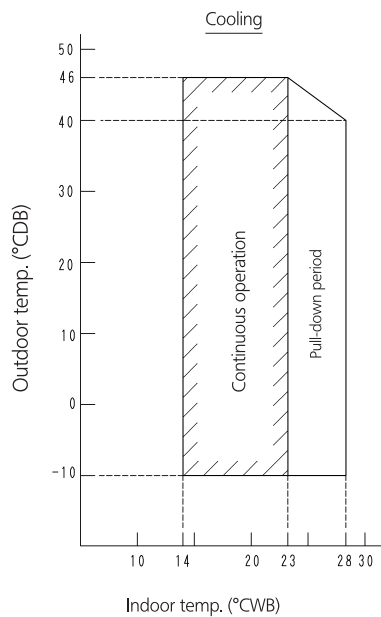
Sound Pressure Spectrum - Heating



10 Operation range

10 - 1 Operation Range

RX50-71GV(B)



Notes:

The graphs are based on the following conditions:

- Equivalent piping length 5.0 m
- Level difference 0 m
- Air flow rate high

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