



Air Conditioning Technical Data

Outdoor unit



EEDEN13-100

RX-GV

TABLE OF CONTENTS

RX-GV

1	Features	2
2	Specifications	3
	Nominal Capacity And Nominal Input	3
	Technical Specifications	3
	Electrical Specifications	5
3	Electrical data	6
	Electrical Data	6
4	Options	7
	Options	7
5	Capacity tables	8
	Cooling/Heating Capacity Tables	8
6	Dimensional drawings	11
	Dimensional Drawings	11
7	Centre of gravity	12
	Centre of Gravity	12
8	Piping diagrams	13
	Piping Diagrams	13
9	Wiring diagrams	14
	Wiring Diagrams - Single Phase	14
10	Sound data	15
	Sound Pressure Spectrum - Cooling	15
	Sound Pressure Spectrum - Heating	17
11	Operation range	19
	Operation Range	19

1 Features

- Outdoor units for pair application
- 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.
- 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



2 Specifications

2-1 Nominal Capacity And Nominal Input				FTX50GV/RX50GV	FTX60GV/RX60GV	FTX71GV/RX71GV
Cooling capacity	Min.	kW		1.7		2.3
		Btu/h		5,800		7,800
		kcal/h		1,460		1,980
	Nom.	kW		5.0 (2)	6.0 (2)	7.1 (2)
		Btu/h		17,100 (2)	20,500 (2)	24,200 (2)
		kcal/h		4,300 (2)	5,160 (2)	6,110 (2)
	Max.	kW		6.0	6.7	8.5
		Btu/h		20,500	22,900	29,000
		kcal/h		5,160	5,760	7,310
Heating capacity	Min.	kW		1.7		2.3
		Btu/h		5,800		7,800
		kcal/h		1,460		1,980
	Nom.	kW		5.8 (3)	7.0 (3)	8.2 (3)
		Btu/h		19,800 (3)	23,900 (3)	28,000 (3)
		kcal/h		4,990 (3)	6,020 (3)	7,050 (3)
	Max.	kW		7.7	8.0	10.2
		Btu/h		26,300	27,300	34,800
		kcal/h		6,620	6,880	8,770
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A+	A	B
		Pdesign	kW	5.00	6.00	7.10
		SEER		5.63	5.10	4.93
		Annual energy consumption		kWh	311	412
	Heating (Average climate)	Energy label		A+	A	
		Pdesign	kW	4.60	4.80	6.50
		SCOP		4.08	3.74	3.50
		Annual energy consumption		kWh	1,578	1,795
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.23	3.02		
	COP		3.63	3.43	3.22	
	Annual energy consumption		kWh	775	995	1,175
	Energy label	Cooling		A	B	
		Heating		A	B	C
Piping connections	Liquid	OD	mm	6.35		
		Gas	OD	mm	12.7	15.9
	Drain	OD	mm	18.0		
	Heat insulation			Both liquid and gas pipes		

Notes

- EER/COP according to Eurovent 2012
- Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m (horizontal)
- Heating: indoor temp. 20°CDB, outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m. High fan speed indoor unit
- Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m

2-2 Technical Specifications				RX50GV	RX60GV	RX71GV
Capacity control	Method			Inverter controlled		
Casing	Colour			Ivory white		
Dimensions	Unit	Height	mm	735		770
		Width	mm	825		900
		Depth	mm	300		320
	Packed unit	Height	mm	797		900
		Width	mm	960		925
		Depth	mm	390		
Weight	Unit		kg	48		71
	Packed unit		kg	53		79

2 Specifications

2-2 Technical Specifications				RX50GV	RX60GV	RX71GV	
Heat exchanger	Length		mm	845		857	
	Rows	Quantity		2			
	Fin pitch		mm	1.8		1.4	
	Stages	Quantity		32		34	
	Tube type			ø8 Hi-XA			
	Fin	Type	Waffle louvered fin				
Treatment		Anti-corrosion treatment (PE)					
Compressor	Model			2YC36BXD#C		2YC63BXD#A	
	Type			Hermetically sealed swing compressor			
	Output		W	1,100		1,920	
Fan	Type			Propeller fan			
	Air flow rate	Cooling	High	m ³ /min	48.9	50.9	54.5
				cfm	1,727	1,797	1,924
			Nom.	m ³ /min	48.9	50.9	54.5
				cfm	1,727	1,797	1,924
			Low	m ³ /min	41.7	42.4	46.0
				cfm	1,472	1,497	1,624
		Super low	m ³ /min	-			
			cfm	-			
		Heating	High	m ³ /min	45.0	46.3	46.0
				cfm	1,589	1,635	1,624
			Low	m ³ /min	41.7	42.4	46.0
				cfm	1,472	1,497	1,624
	Super low		m ³ /min	-			
cfm			-				
Fan motor	Model			KFD-380-50-8C		KFD-280-66-8A	
	Output		W	53.00		66.00	
	Speed	Cooling	High	rpm	780	810	860
			Low	rpm	670	680	730
			Super low	rpm	-		
		Heating	High	rpm	720	740	730
			Low	rpm	670	680	730
			Super low	rpm	-		
Sound power level	Cooling	Nom.	dBA	63		65	
Sound pressure level	Cooling	High	dBA	47	49	52	
		Low	dBA	44	46	49	
	Heating	High	dBA	48	49	52	
		Low	dBA	45	46	49	
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		2.3	
	GWP			1,975			
Refrigerant oil	Type			FVC50K			
	Charged volume		l	0.65		0.75	
Piping connections	Drain	ID	mm	-			
	Piping length	OU - IU	Max.	m			
		System	Chargeless	m			
	Level difference	IU - OU	Max.	m			

2 Specifications

2-3 Electrical Specifications				RX50GV	RX60GV	RX71GV
Power supply	Name			V1		
	Phase			1~		
	Frequency	Hz		50		
	Voltage		V	220-240		
Current	Nominal running current (RLA)	Cooling	A	7.04 (2) / 6.75 (3) / 6.45 (4)	9.01 (2) / 8.62 (3) / 8.23 (4)	10.59 (2) / 10.20 (3) / 9.71 (4)
		Heating	A	7.23 (2) / 6.94 (3) / 6.64 (4)	9.19 (2) / 8.80 (3) / 8.41 (4)	11.42 (2) / 10.93 (3) / 10.44 (4)
	Starting current	Cooling	A	7.4	9.4	-
		Heating	A	7.4	9.4	-
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

- (1) SL: The silent fan level of the air flow rate setting
- (2) 220V
- (3) 230V
- (4) 240V

3 Electrical data

3 - 1 Electrical Data

3

RX-GV

Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTX71GV	RX71GV	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				
FTX50GV	RX50GV	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				
FTX60GV	RX60GV	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				

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°C DB/19.0°C WB.
 - Outdoor temp. 35°C DB.
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.

3D066565C

4 Options

4 - 1 Options

RX-GV

Outdoor Units

	RX50GV	RX60GV	RX71GV
Air direction adjustment grille		KPW045A4	

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

5

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
-----	------

Indoor EDB (°C)	Outdoor temp. (°CWB)									
	-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

3D051923E

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

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. shows nominal (rated) capacities and power input.
3. 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.)
4. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on the following conditions
Corresponding refrigerant piping length : 5.0 m
Level difference : 0 m
6. Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FTX60GV + RX60GV

Cooling 50Hz 220-240V

AFR	16.2
BF	0.29

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	5.60	3.94	1.49	5.60	3.94	1.66	5.59	3.94	1.82	5.48	3.88	1.88	5.31	3.79	1.97	5.03	3.64	2.12
16.0	22	6.42	4.17	1.54	6.14	4.02	1.68	5.86	3.88	1.83	5.75	3.82	1.89	5.59	3.74	1.98	5.31	3.60	2.12
18.0	25	6.70	4.31	1.54	6.42	4.17	1.69	6.14	4.04	1.84	6.03	3.99	1.90	5.86	3.91	1.99	5.58	3.78	2.13
19.0	27	6.84	4.49	1.55	6.56	4.36	1.70	6.28	4.23	1.84	6.17	4.18	1.90	6.00	4.10	1.99	5.72	3.98	2.14
22.0	30	7.25	4.31	1.56	6.97	4.19	1.71	6.69	4.08	1.86	6.58	4.04	1.91	6.41	3.97	2.00	6.14	3.86	2.15
24.0	32	7.53	4.18	1.57	7.25	4.07	1.72	6.97	3.97	1.86	6.86	3.93	1.92	6.69	3.87	2.01	6.41	3.77	2.16

Heating 50Hz 220-240V

AFR	17.4
-----	------

Indoor		Outdoor temp. (°CWB)									
EDB (°C)		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		4.71	1.73	5.50	1.81	6.29	1.89	7.24	1.99	7.87	2.06
20.0		4.47	1.77	5.26	1.86	6.05	1.94	7.00	2.04	7.63	2.11
22.0		4.37	1.79	5.16	1.87	5.95	1.96	6.90	2.06	7.54	2.13
24.0		4.28	1.81	5.07	1.89	5.86	1.98	6.81	2.08	7.44	2.14
25.0		4.23	1.82	5.02	1.90	5.81	1.99	6.76	2.09	7.39	2.15
27.0		4.13	1.84	4.92	1.92	5.71	2.00	6.66	2.10	7.29	2.17

3D051924G

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

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. shows nominal (rated) capacities and power input.
3. 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.)
4. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on the following conditions
 Corresponding refrigerant piping length : 5.0 m
 Level difference : 0 m
6. Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FTX71GV+RX71GV

Cooling

50Hz 220-240V

AFR	17.4
BF	0.17

Indoor		Outdoor temperature (°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	7.03	4.95	1.78	6.94	4.90	1.98	6.61	4.73	2.15	6.48	4.66	2.22	6.28	4.56	2.32	5.95	4.39	2.50
16.0	22	7.60	4.99	1.81	7.27	4.83	1.99	6.94	4.66	2.16	6.81	4.60	2.23	6.61	4.50	2.33	6.28	4.34	2.51
18.0	25	7.93	5.17	1.82	7.60	5.02	2.00	7.27	4.87	2.17	7.13	4.80	2.24	6.94	4.71	2.34	6.61	4.57	2.52
19.0	27	8.09	5.41	1.83	7.76	5.26	2.00	7.43	5.11	2.18	7.30	5.05	2.25	7.10	4.96	2.35	6.77	4.82	2.52
22.0	30	8.58	5.20	1.84	8.25	5.06	2.02	7.92	4.93	2.19	7.79	4.88	2.26	7.59	4.80	2.37	7.26	4.67	2.54
24.0	32	8.91	5.04	1.85	8.58	4.92	2.03	8.25	4.80	2.20	8.12	4.75	2.27	7.92	4.68	2.38	7.59	4.56	2.55

Heating

50Hz 220-240V

AFR	19.7
-----	------


Indoor		Outdoor temperature (°CWB)									
EDB (°C)		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		5.52	2.16	6.45	2.26	7.37	2.37	8.48	2.49	9.22	2.58
20.0		5.24	2.21	6.16	2.32	7.09	2.42	8.20	2.55	8.94	2.63
22.0		5.12	2.24	6.05	2.34	6.98	2.45	8.09	2.57	8.83	2.66
24.0		5.01	2.26	5.94	2.36	6.86	2.47	7.97	2.60	8.71	2.68
25.0		4.95	2.27	5.88	2.38	6.81	2.48	7.92	2.61	8.47	2.68
27.0		4.84	2.29	5.77	2.40	6.69	2.50	7.80	2.63	7.92	2.68

3D056030E

SYMBOLS

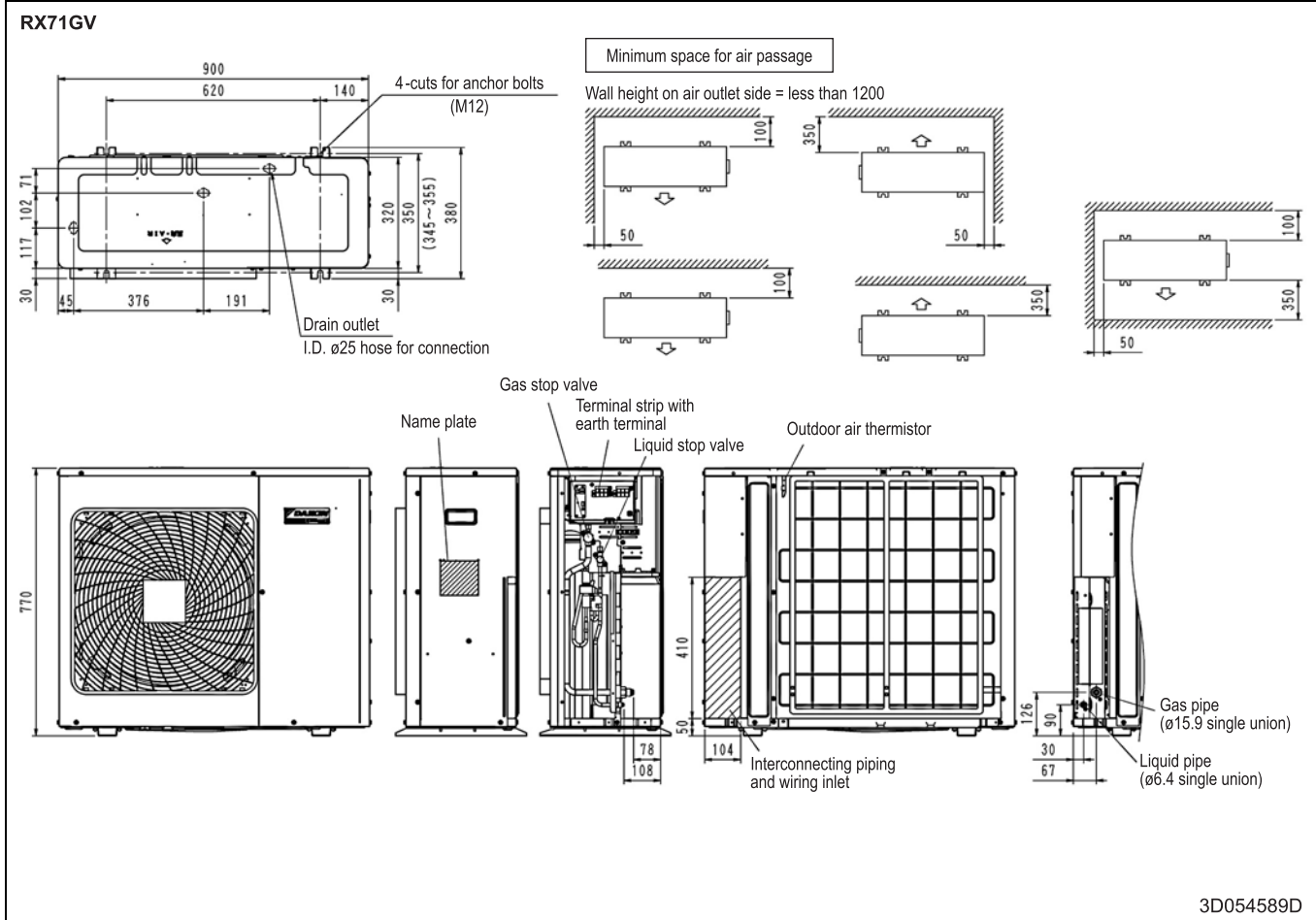
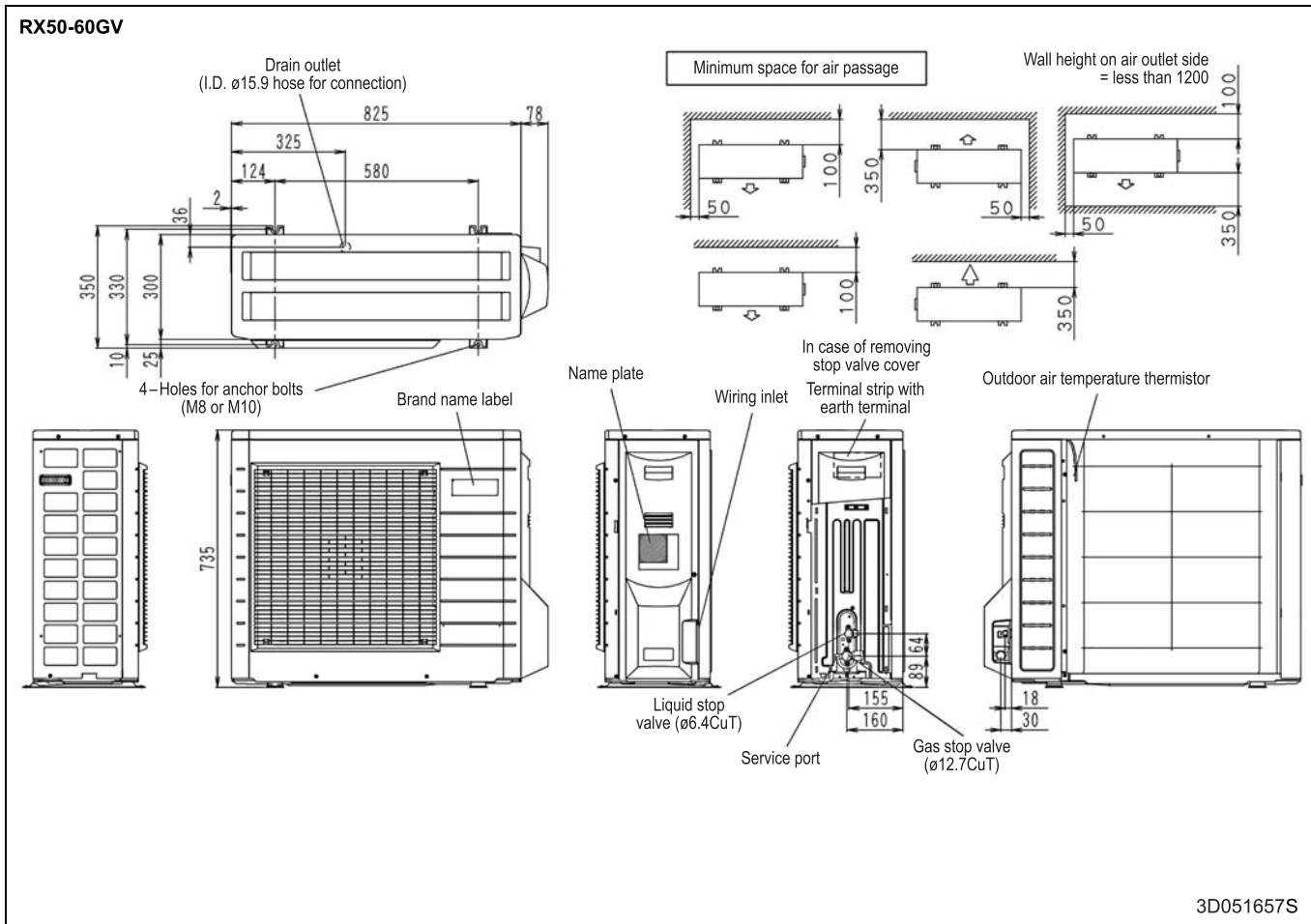
AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°C)
EDB:	Entering dry bulb temp.	(°C)
TC:	Total capacity	(kW)
SHC:	Sensible heat capacity	(kW)
PI:	Power input	(kW)

NOTES

- Capacities are based on the following conditions:
 - (1) Corresponding refrigerant piping length: 5.0 m
 - (2) Level difference: 0 m
-  shows nominal (rated) capacities and power input.

6 Dimensional drawings

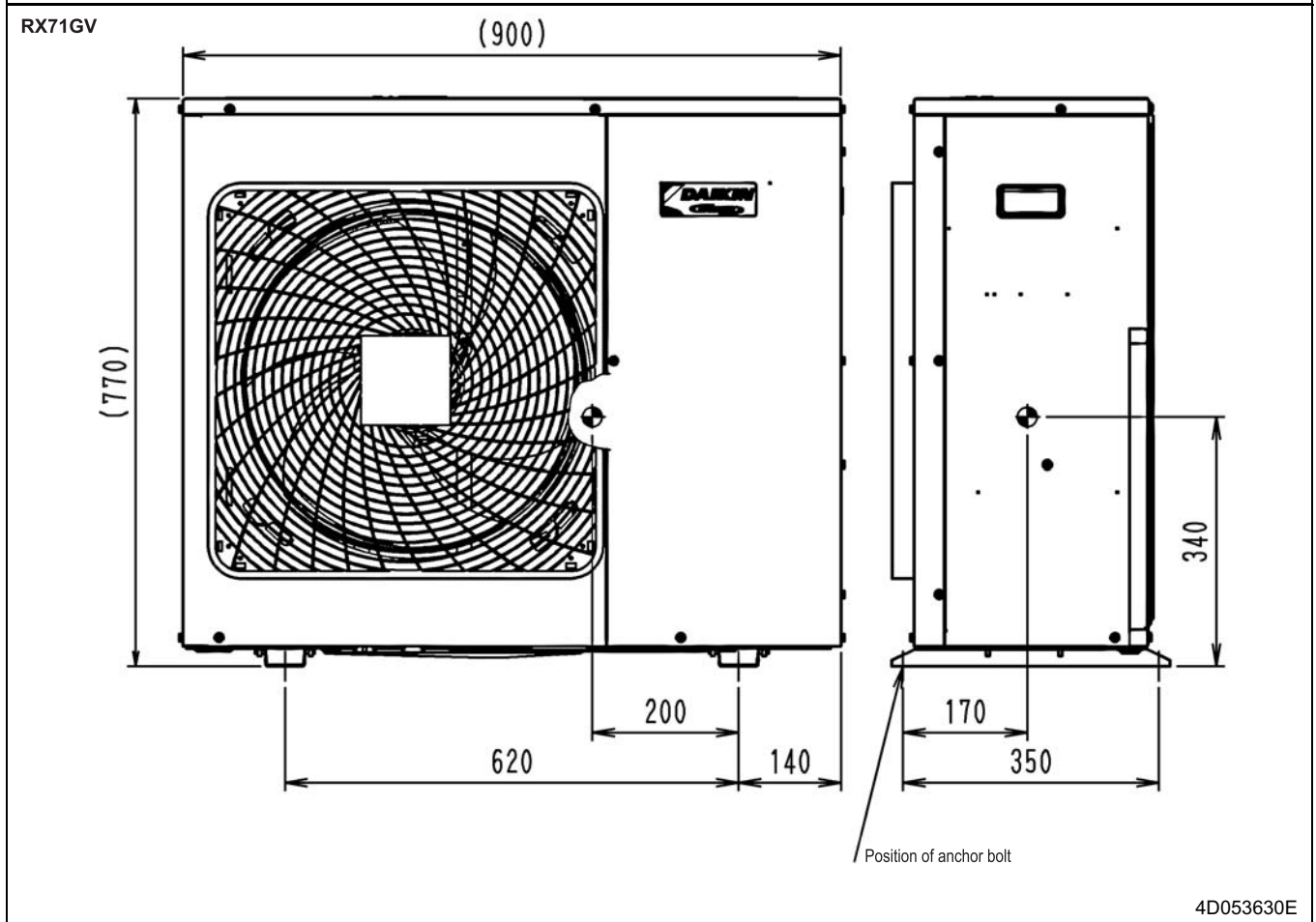
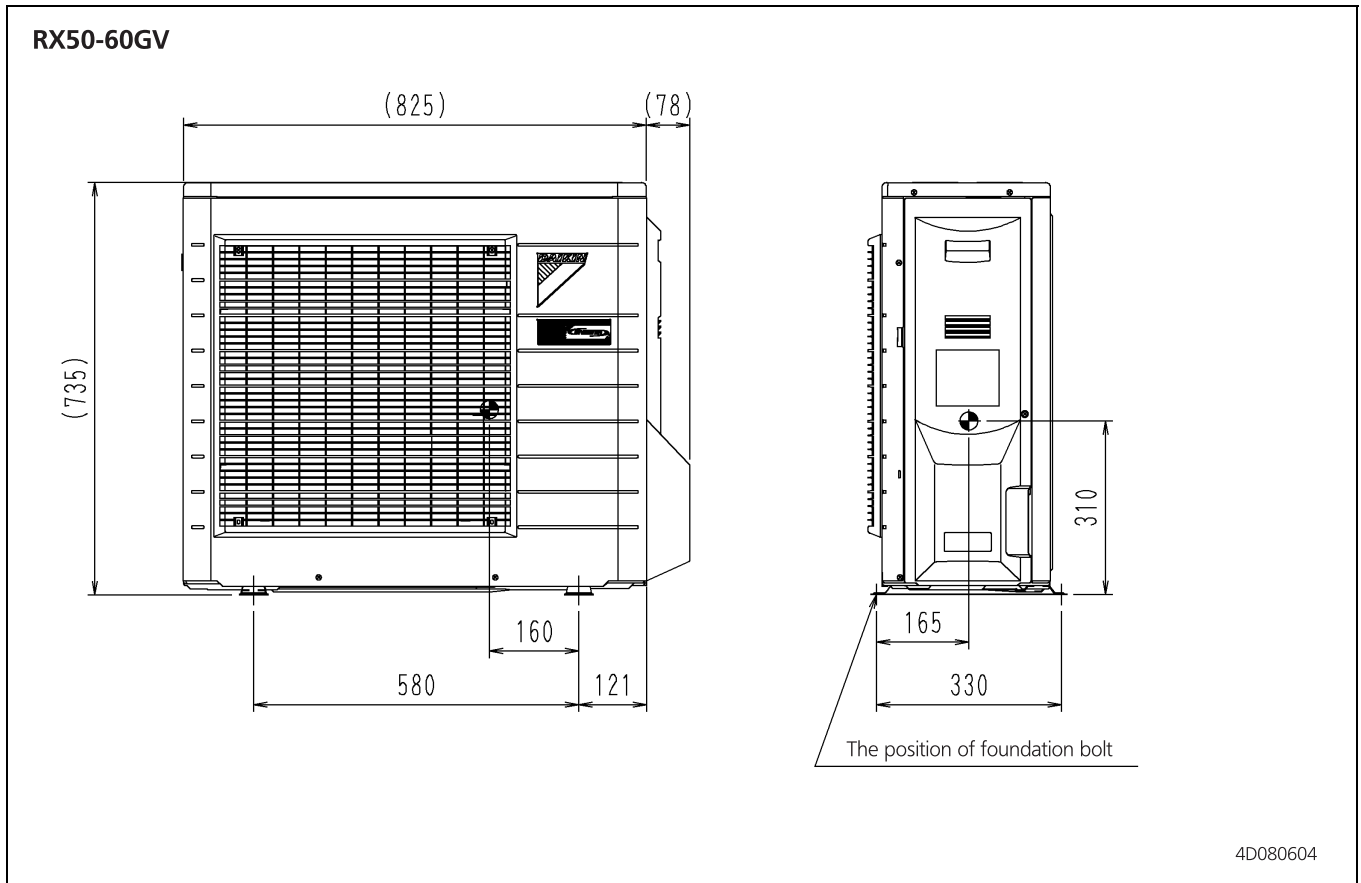
6 - 1 Dimensional Drawings



7 Centre of gravity

7 - 1 Centre of Gravity

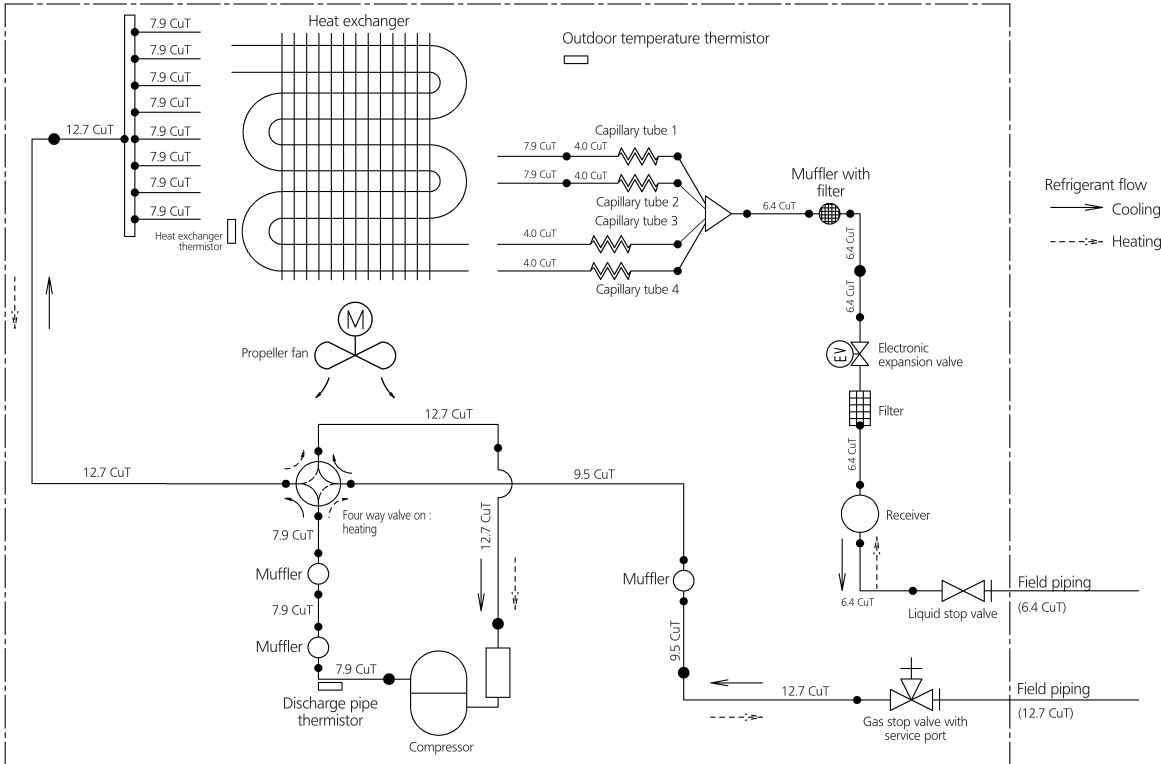
7



8 Piping diagrams

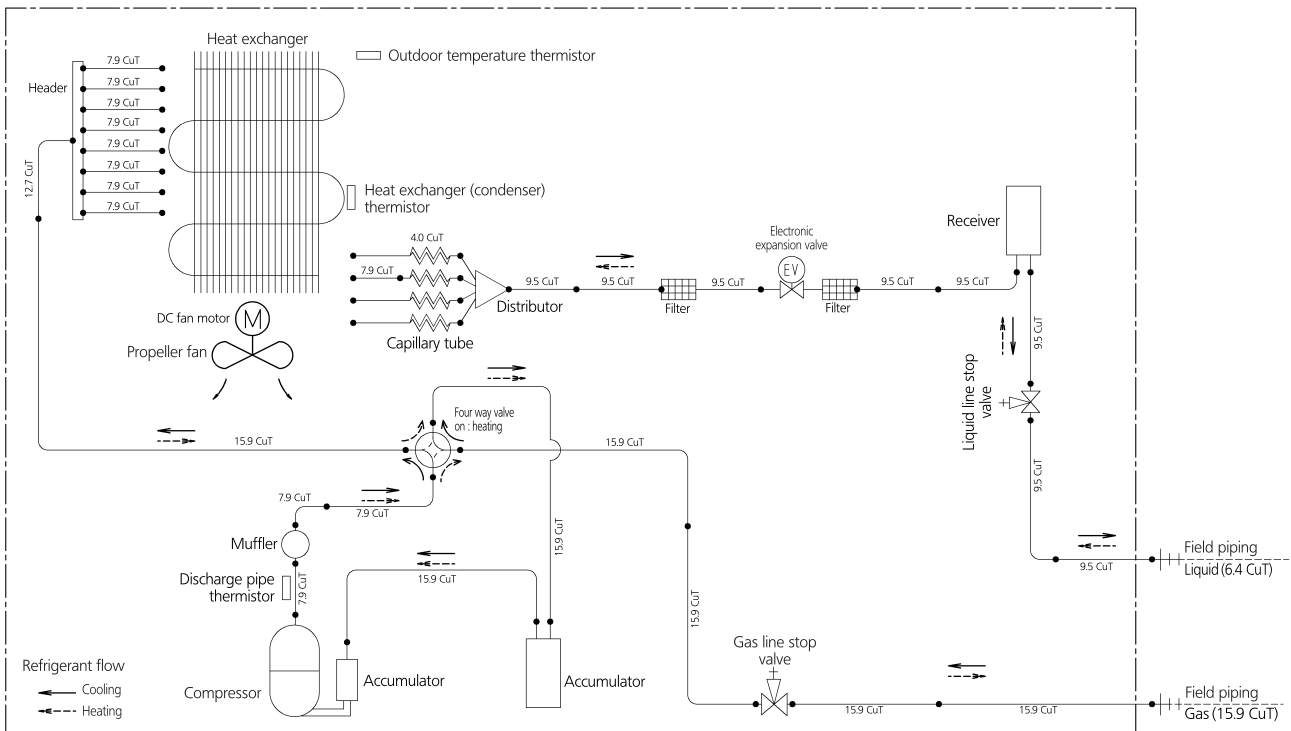
8 - 1 Piping Diagrams

RX50-60GV



3D080605

RX71GV

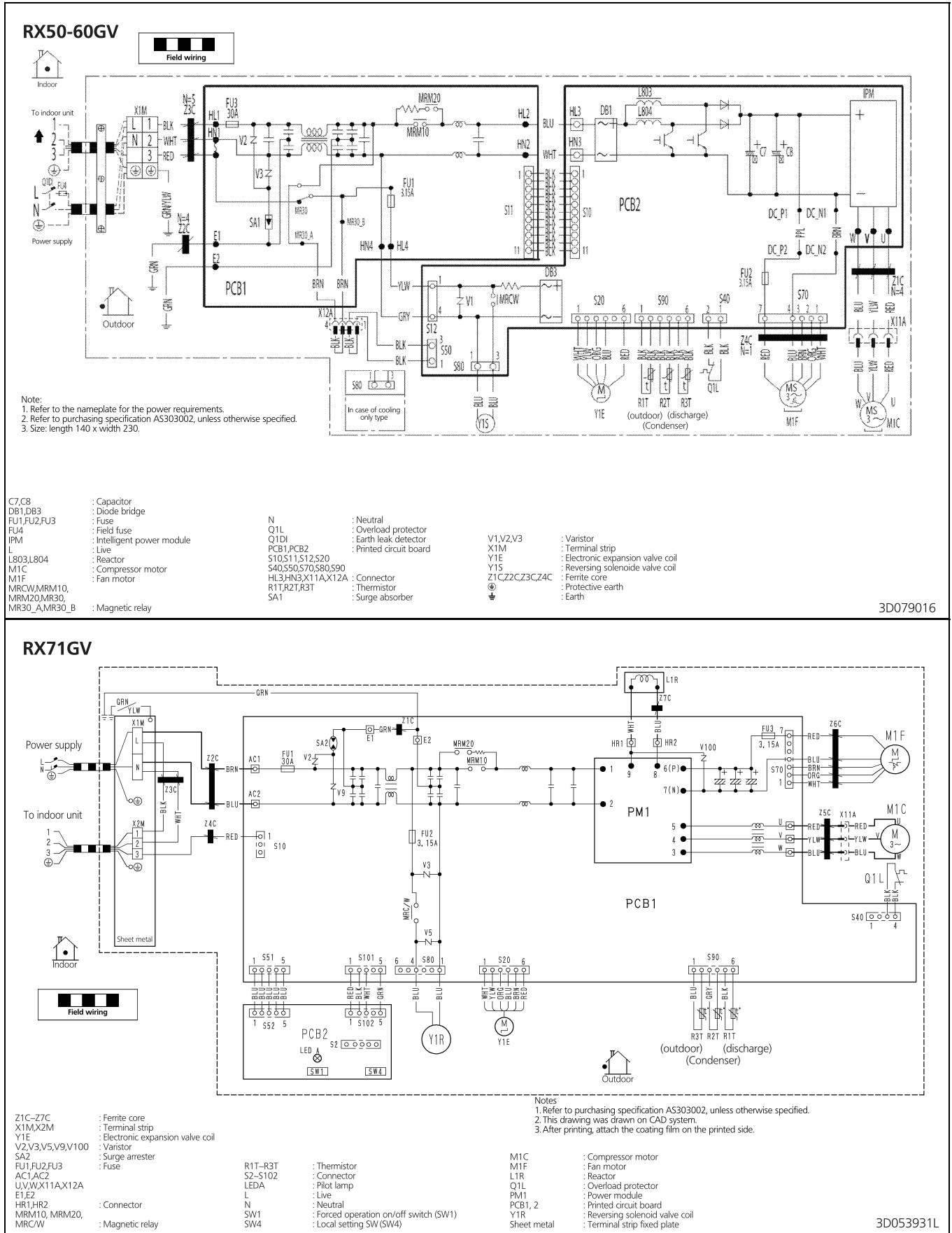


3D054593M

9 Wiring diagrams

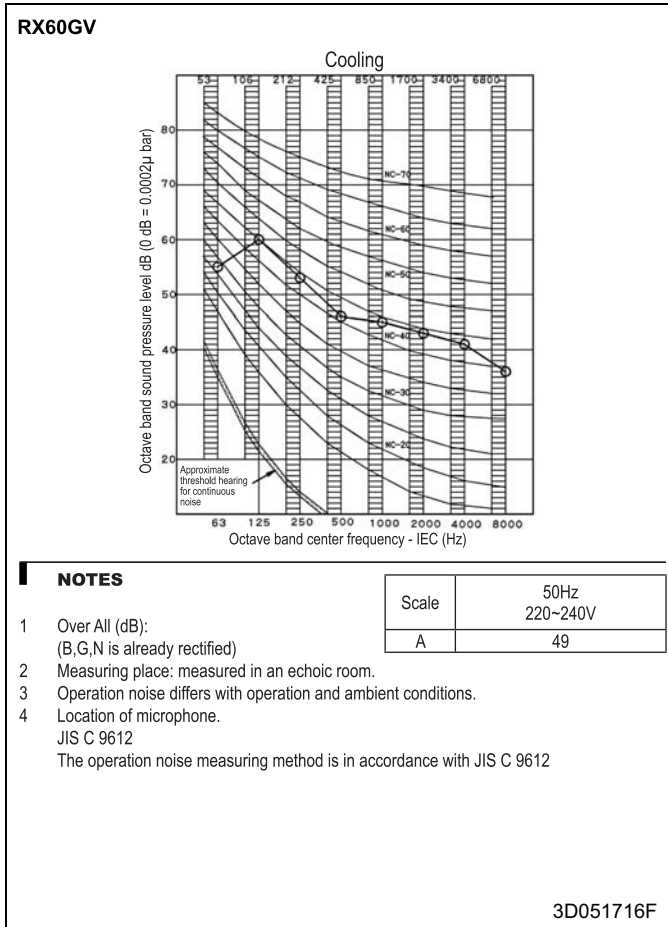
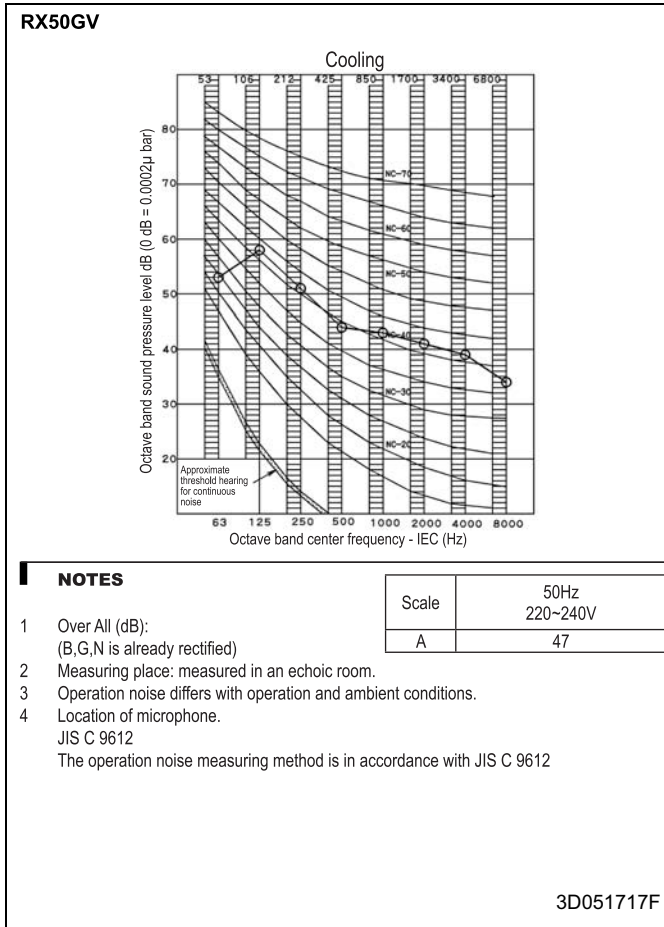
9 - 1 Wiring Diagrams - Single Phase

9



10 Sound data

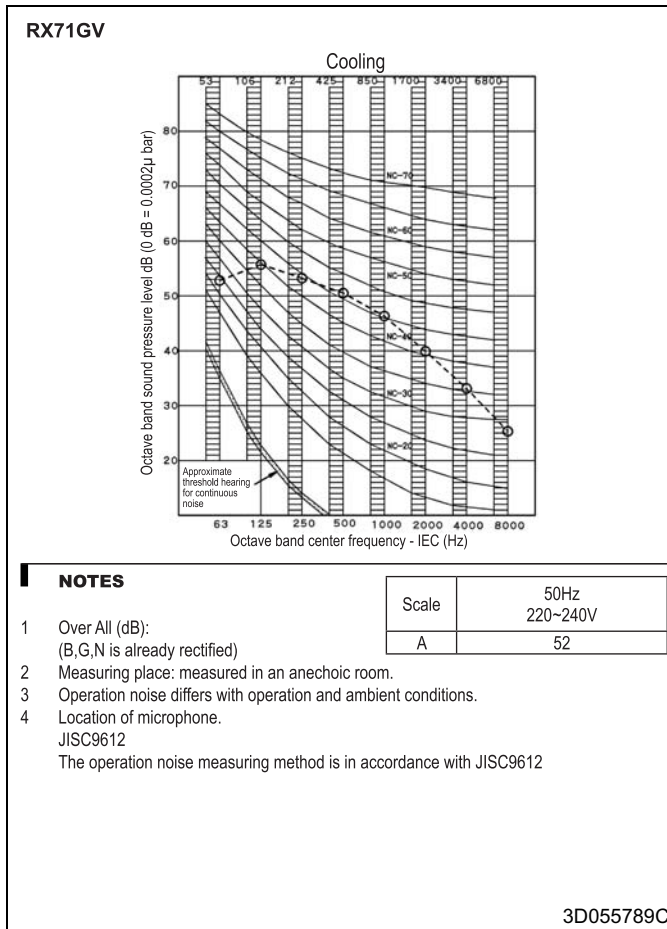
10 - 1 Sound Pressure Spectrum - Cooling



10 Sound data

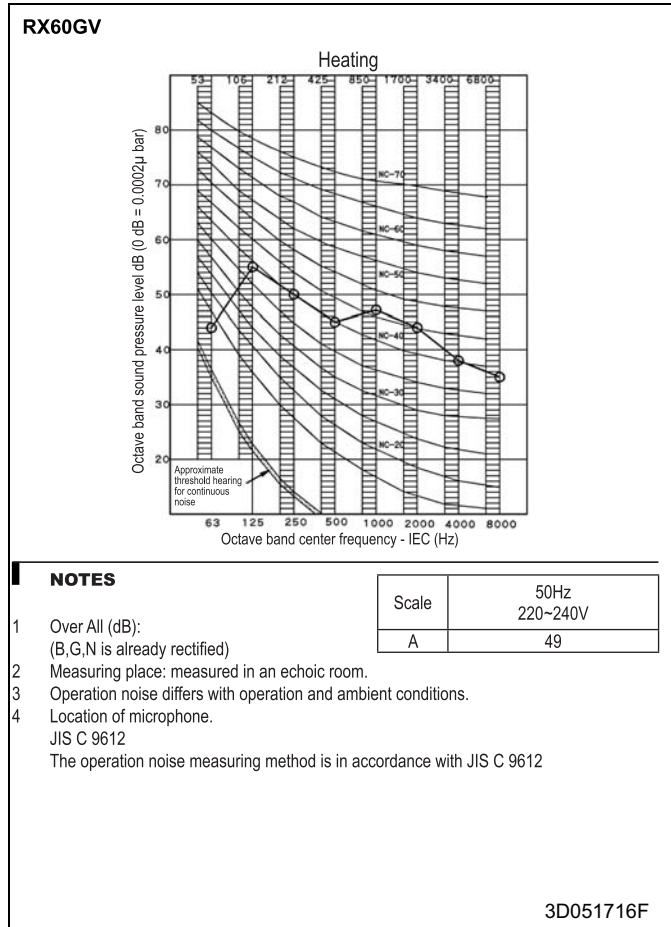
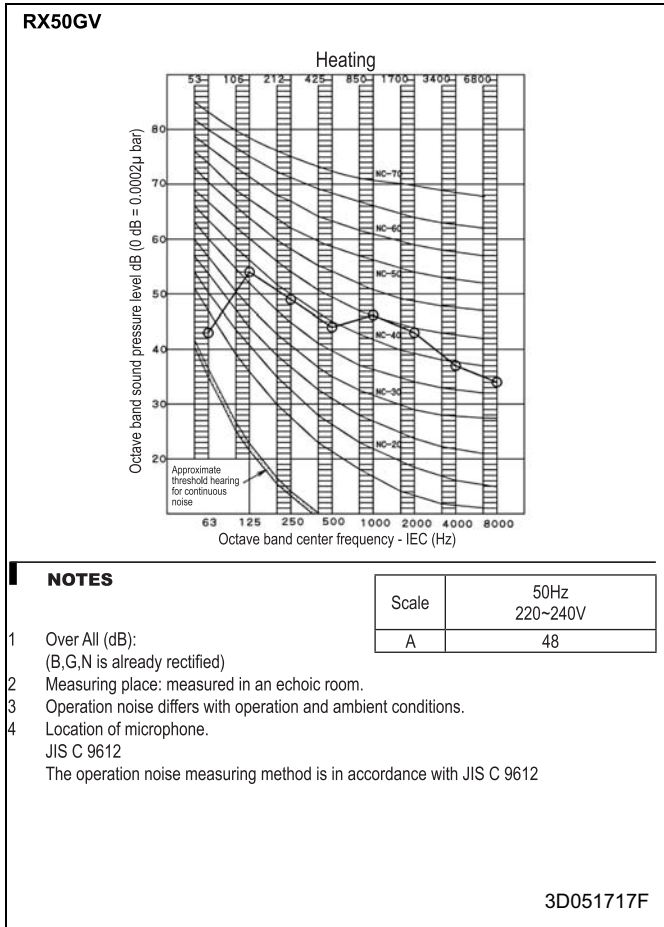
10 - 1 Sound Pressure Spectrum - Cooling

10



10 Sound data

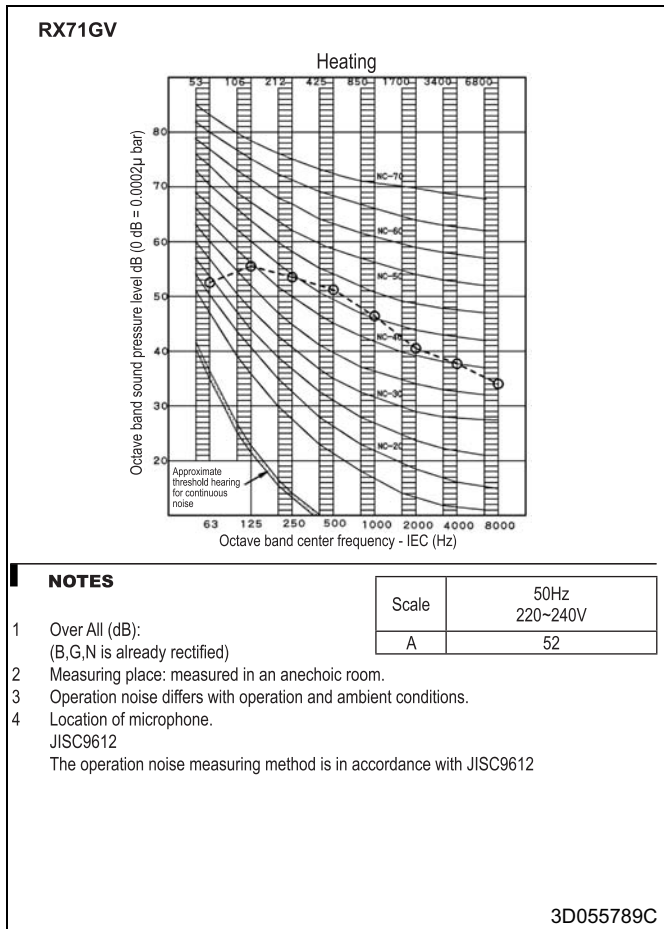
10 - 2 Sound Pressure Spectrum - Heating



10 Sound data

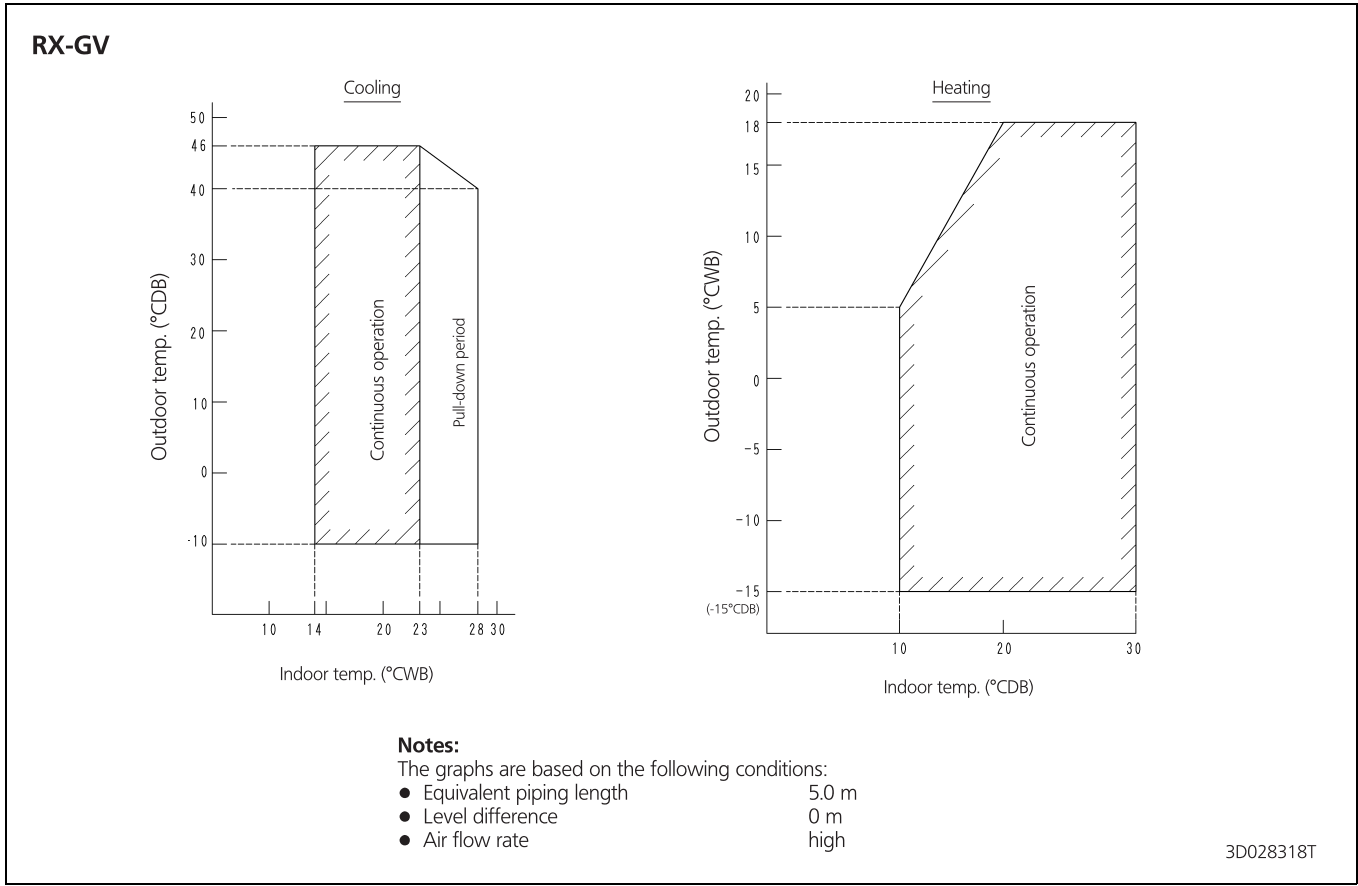
10 - 2 Sound Pressure Spectrum - Heating

10



11 Operation range

11 - 1 Operation Range





Daikin Europe N.V. participates in the Eurovent Certification programme for Air conditioners (AC), Liquid Chilling Packages (LCP) 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: