

1 Features

- Outdoor units for pair application
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- 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				RX20GV1B	RX25GV1B	RX35GV1B
For combination indoor units + outdoor units	Indoor Units			FTX20GV1B	FTX25GV1B	FTX35GV1B
Cooling capacity	Minimum	kW		1.3	1.3	1.3
		Btu/h		4,400		
		Kcal/h		1,120		
	Standard	kW		2.0	2.5	3.2
		Btu/h		6,800	8,500	10,900
		Kcal/h		1,720	2,150	2,750
	Maximum	kW		2.6	3.0	3.8
		Btu/h		8,900	10,200	13,000
		Kcal/h		2,240	2,580	3,270
Heating capacity	Minimum	kW		1.3	1.3	1.3
		Btu/h		4,400		
		Kcal/h		1,120		
	Standard	kW		2.5	2.8	3.4
		Btu/h		8,500	9,600	11,600
		Kcal/h		2,150	2,410	2,920
	Maximum	kW		3.5	4.0	4.8
		Btu/h		11,600	13,600	16,400
		Kcal/h		3,010	3,440	4,130
Power Input	Cooling	Minimum	kW	0.31	0.31	0.29
		Standard	kW	0.55	0.74	0.95
		Maximum	kW	0.72	1.05	1.30
	Heating	Minimum	kW	0.25	0.25	0.29
		Standard	kW	0.64	0.76	0.91
		Maximum	kW	0.95	1.11	1.29
For combination indoor units + outdoor units	EER	Nominal		3.62	3.38	3.37
	COP	Nominal		3.90	3.68	3.74
	Energy Label	Cooling		A		
		Heating		A		
Annual energy consumption	kWh		275	370	470	

2-2 TECHNICAL SPECIFICATIONS				RX20GV1B	RX25GV1B	RX35GV1B
Casing	Colour			Ivory White		
Dimensions	Unit	Height	mm	550	550	550
		Width	mm	658	658	658
		Depth	mm	275	275	275
	Packing	Height	mm	616	616	616
		Width	mm	788	788	788
		Depth	mm	359	359	359
Weight	Unit	kg	28	28	30	
	Packed Unit	kg	31	31	34	
Heat Exchanger	Dimensions	Length	mm	670	670	647
		Nr of Rows		1	1	2
		Fin Pitch	mm	1.4	1.4	1.4
		Nr of Stages		24	24	24
	Tube type	Hi-Xa(7)				
	Fin	Type	Waffle fin			

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RX20GV1B	RX25GV1B	RX35GV1B	
Fan	Type			Propeller			
	Quantity			1	1	1	
	Air Flow Rate	Cooling (Standard)	m ³ /min	29.2	29.2	27.6	
		Heating (Standard)	m ³ /min	26.2	26.2	24.5	
	Cooling (Standard)	cfm		1,030	1,030	975	
		Heating (Standard)		cfm	927	927	865
Motor	Quantity			1	1	1	
	Model			KFD-280-33-8A			
Motor	Speed (nominal)	Cooling (Low)	rpm	720	720	720	
		Cooling (High)	rpm	860	860	860	
		Heating (Low)	rpm	350	350	350	
		Heating (High)	rpm	860	860	860	
Fan	Motor	Output	W	33	33	33	
Compressor	Quantity			1	1	1	
	Motor	Model			1YC23AEXDA		
		Type			Hermetically sealed swing compressor		
Motor Output	W		750	750	750		
	Cooling	Min	°CDB	10	10	10	
Max		°CDB	46	46	46		
Heating	Min	°CWB	-15	-15	-15		
	Max	°CWB	20	20	20		
Sound Level (nominal)	Cooling	Sound Power	dBA	60	60	62	
		Sound Pressure (High)	dBA	46	46	48	
	Heating	Sound Pressure (High)	dBA	47	47	48	
Refrigerant	Type			R-410A			
	Charge		kg	0.74	0.74	1.0	
Refrigerant Oil	Type			FVC50K			
	Charged Volume		l	0.375	0.375	0.375	
Piping connections	Liquid (OD)	Quantity		1	1	1	
		Diameter (OD)	mm	6.35	6.35	6.35	
	Gas	Quantity		1	1	1	
		Diameter (OD)	mm	9.52	9.52	9.52	
	Drain	Quantity		1	1	1	
		Diameter (OD)	mm	18	18	18	
	Piping Length	Maximum	m	15	15	15	
	Additional Refrigerant Charge		kg/m	0.02(>10m)			
Installation height difference	Maximum	m	12	12	12		
Heat Insulation			Both liquid and gas pipes				

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2 Specifications

2-2 TECHNICAL SPECIFICATIONS		RX20GV1B	RX25GV1B	RX35GV1B
Standard Accessories	Item	Installation manual		
	Quantity	1	1	1
	Item	Drain plug		
	Quantity	1	1	1
Notes		Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19.0°CWB; outdoor temperature: 35°CDB, 24°CWB, refr.pip.length: 5m		
		Nominal heating capacities are based on: indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB, refr.pip.length: 5m	Nominal heating capacities are based on: indoor temperature:20°CDB, outdoor temperature:7°CDB, 6°CWB, refr.pip. length 5m (horizontal)	Nominal heating capacities are based on: indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB, refr.pip.length: 5m

2-3 ELECTRICAL SPECIFICATIONS				RX20GV1B	RX25GV1B	RX35GV1B
Power Supply	Name			V1		
	Phase			1~		
	Frequency	Hz	50	50	50	
	Voltage		V	220-230-240		
Current	Nominal running current (RLA)	Cooling (A)	A	2.52	3.52	4.82
		Heating (A)	A	2.82	3.32	4.42
	Starting current (cooling/heating)		A	2.7	3.7	5.0
Wiring connections	For Power Supply	Quantity	3	3	3	
	For connection with indoor	Quantity	4	4	4	
		Remark	(including earth wiring)			

3 Electrical data

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Representative unit combination		Power supply				Comp		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTX20GV1B	RX20GV1B	50-220	Max 50Hz 264V Min. 50Hz 198V	14.5	16	36	2.2	33	0.17	16	0.12
		50-230									
		50-240									
FTX25GV1B	RX25GV1B	50-220	Max 50Hz 264V Min. 50Hz 198V	14.5	16	48	3.2	33	0.17	16	0.12
		50-230									
		50-240									
FTX35GV1B	RX35GV1B	50-220	Max 50Hz 264V Min. 50Hz 198V	14.5	16	66	4.5	33	0.17	16	0.12
		50-230									
		50-240									

SYMBOLS

MCA	: Air flow rate	(A)
MFA	: Bypass factor	(A)
RLA	: Entering wet bulb temp.	(A)
OFM	: Entering dry bulb temp.	
IFM	: Total capacity	
FLA	: Sensible heat capacity	(A)
W	: Power input	(W)
RHz	: Rated operating frequency	(Hz)

NOTES

- 1 RLA is based on the following conditions.
Indoor temp. 27°C DB/19°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.

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4 Capacity tables

4 - 1 Cooling/Heating capacity tables

FTX20GV1B + RX20GV1B

Cooling

50Hz 220-240V

AFR	9.1
BF	0.24

Indoor		Outdoor temperature (°C DB)																	
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	2.05	1.71	0.42	1.96	1.67	0.46	1.86	1.62	0.50	1.83	1.61	0.52	1.77	1.58	0.54	1.68	1.54	0.58
16.0	22	2.14	1.68	0.42	2.05	1.64	0.47	1.95	1.60	0.51	1.92	1.59	0.52	1.86	1.56	0.55	1.77	1.52	0.59
18.0	25	2.23	1.79	0.43	2.14	1.75	0.47	2.05	1.71	0.51	2.01	1.70	0.52	1.95	1.68	0.55	1.86	1.64	0.59
19.0	27	2.28	1.91	0.43	2.19	1.88	0.47	2.09	1.84	0.51	2.06	1.83	0.53	2.00	1.80	0.55	1.91	1.77	0.59
22.0	30	2.42	1.85	0.43	2.32	1.82	0.47	2.23	1.79	0.51	2.19	1.78	0.53	2.14	1.76	0.55	2.05	1.73	0.59
24.0	32	2.51	1.81	0.43	2.42	1.78	0.47	2.32	1.76	0.52	2.29	1.74	0.53	2.23	1.73	0.56	2.14	1.70	0.60

Heating

50Hz 220-240V

AFR	9.4
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Indoor		Outdoor temperature (°C DB)									
EDB °C	°C	-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		1.68	0.54	1.97	0.57	2.25	0.59	2.59	0.63	2.81	0.65
20.0		1.60	0.56	1.88	0.58	2.16	0.61	2.50	0.64	2.73	0.66
22.0		1.56	0.56	1.84	0.59	2.13	0.61	2.47	0.65	2.69	0.67
24.0		1.53	0.57	1.81	0.59	2.09	0.62	2.43	0.65	2.66	0.67
25.0		1.51	0.57	1.79	0.60	2.07	0.62	2.41	0.65	2.64	0.68
27.0		1.48	0.58	1.76	0.60	2.04	0.63	2.38	0.66	2.61	0.68

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: 5m
 (2) Level difference : 0m
- shows nominal (rated) capacities and power input.

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4 Capacity tables

4 - 1 Cooling/Heating capacity tables

FTX25GV1B + RX25GV1B

Cooling

50Hz 220-240V

AFR	9.2
BF	0.29

Indoor		Outdoor temperature (°C DB)																	
°C	EDB	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	2.15	1.72	0.52	2.15	1.72	0.59	2.15	1.72	0.66	2.15	1.72	0.69	2.15	1.72	0.73	2.10	1.69	0.79
16.0	22	2.68	1.89	0.57	2.56	1.83	0.63	2.44	1.78	0.68	2.40	1.76	0.70	2.33	1.72	0.74	2.21	1.67	0.79
18.0	25	2.79	1.98	0.57	2.68	1.93	0.63	2.56	1.88	0.68	2.51	1.86	0.71	2.44	1.83	0.74	2.33	1.78	0.79
19.0	27	2.85	2.09	0.58	2.73	2.04	0.63	2.62	1.99	0.69	2.57	1.97	0.71	2.50	1.94	0.74	2.38	1.90	0.79
22.0	30	3.02	2.02	0.58	2.91	1.97	0.64	2.79	1.93	0.69	2.74	1.91	0.71	2.67	1.89	0.74	2.56	1.85	0.80
24.0	32	3.14	1.96	0.58	3.02	1.92	0.64	2.90	1.89	0.69	2.86	1.87	0.72	2.79	1.85	0.75	2.67	1.81	0.80

Heating

50Hz 220-240V

AFR	9.7
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Indoor		Outdoor temperature (°C DB)									
°C	EDB	-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		1.88	0.64	2.20	0.67	2.52	0.71	2.90	0.74	3.15	0.77
20.0		1.79	0.66	2.10	0.69	2.42	0.72	2.80	0.76	3.05	0.79
22.0		1.75	0.67	2.07	0.70	2.38	0.73	2.76	0.77	3.01	0.79
24.0		1.71	0.67	2.03	0.70	2.34	0.74	2.72	0.77	2.98	0.80
25.0		1.69	0.68	2.01	0.71	2.32	0.74	2.70	0.78	2.96	0.80
27.0		1.65	0.68	1.97	0.72	2.29	0.75	2.66	0.78	2.92	0.81

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: 5m
 - (2) Level difference : 0m
- shows nominal (rated) capacities and power input.

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4 Capacity tables

4 - 1 Cooling/Heating capacity tables

FTX35GV1B + RX35GV1B

Cooling

50Hz 220-240V

AFR	9.3
BF	0.25

Indoor		Outdoor temperature (°C DB)																	
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	2.30	1.83	0.69	2.30	1.83	0.79	2.30	1.83	0.90	2.30	1.83	0.90	2.30	1.83	0.94	2.30	1.83	1.01
16.0	22	3.07	2.11	0.72	3.07	2.11	0.80	3.07	2.11	0.87	3.07	2.11	0.90	2.98	2.07	0.94	2.83	2.00	1.01
18.0	25	3.57	2.38	0.74	3.42	2.31	0.81	3.28	2.24	0.88	3.22	2.22	0.91	3.13	2.18	0.95	2.98	2.11	1.02
19.0	27	3.65	2.49	0.74	3.50	2.43	0.81	3.35	2.36	0.88	3.29	2.34	0.91	3.20	2.30	0.95	3.05	2.23	1.02
22.0	30	3.87	2.40	0.75	3.72	2.34	0.82	3.57	2.28	0.89	3.51	2.26	0.91	3.42	2.22	0.96	3.27	2.17	1.03
24.0	32	4.02	2.33	0.75	3.87	2.28	0.82	3.72	2.22	0.89	3.66	2.20	0.92	3.57	2.17	0.96	3.42	2.12	1.03

Heating

50Hz 220-240V

AFR	10.1
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Indoor		Outdoor temperature (°C DB)									
EDB °C	°C	-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		2.29	0.77	2.67	0.81	3.06	0.84	3.52	0.89	3.82	0.92
20.0		2.17	0.79	2.56	0.83	2.94	0.87	3.40	0.91	3.71	0.94
22.0		2.12	0.80	2.51	0.84	2.89	0.87	3.35	0.92	3.66	0.95
24.0		2.08	0.81	2.46	0.84	2.85	0.88	3.28	0.93	3.61	0.96
25.0		2.05	0.81	2.44	0.85	2.82	0.89	3.28	0.93	3.59	0.96
27.0		2.01	0.82	2.39	0.86	2.77	0.89	3.24	0.94	3.54	0.97

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: 5m
 (2) Level difference : 0m
- shows nominal (rated) capacities and power input.

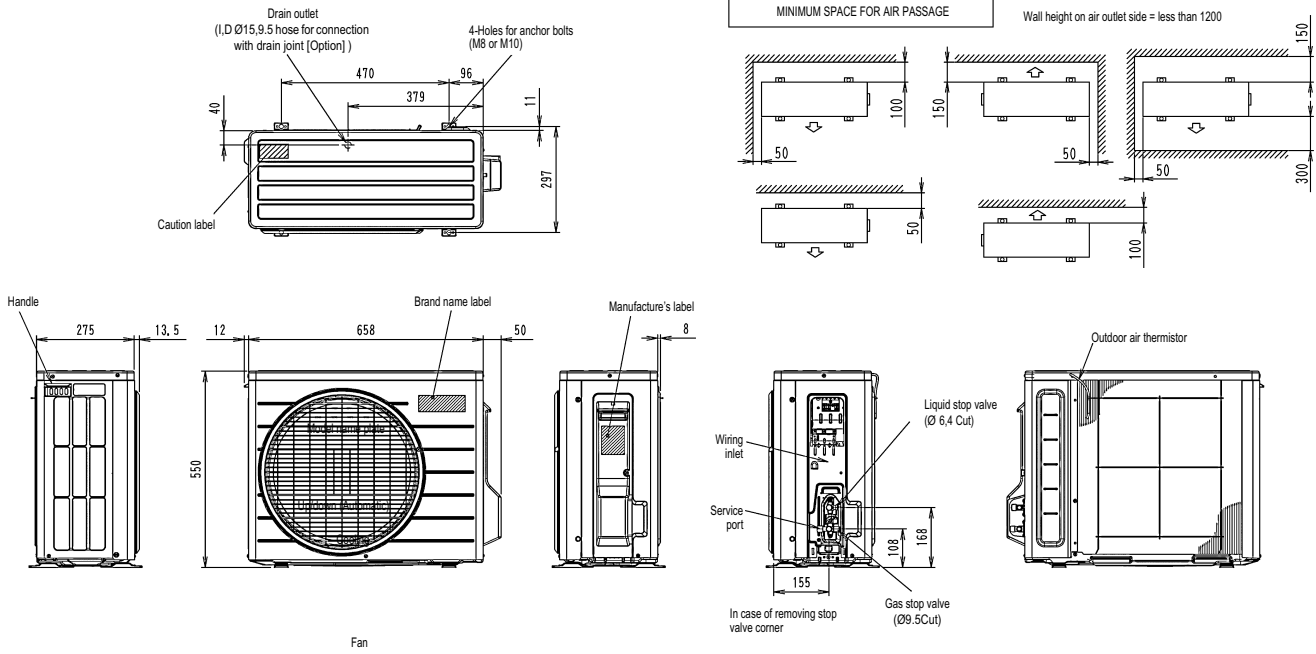
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5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

RX20-35GV

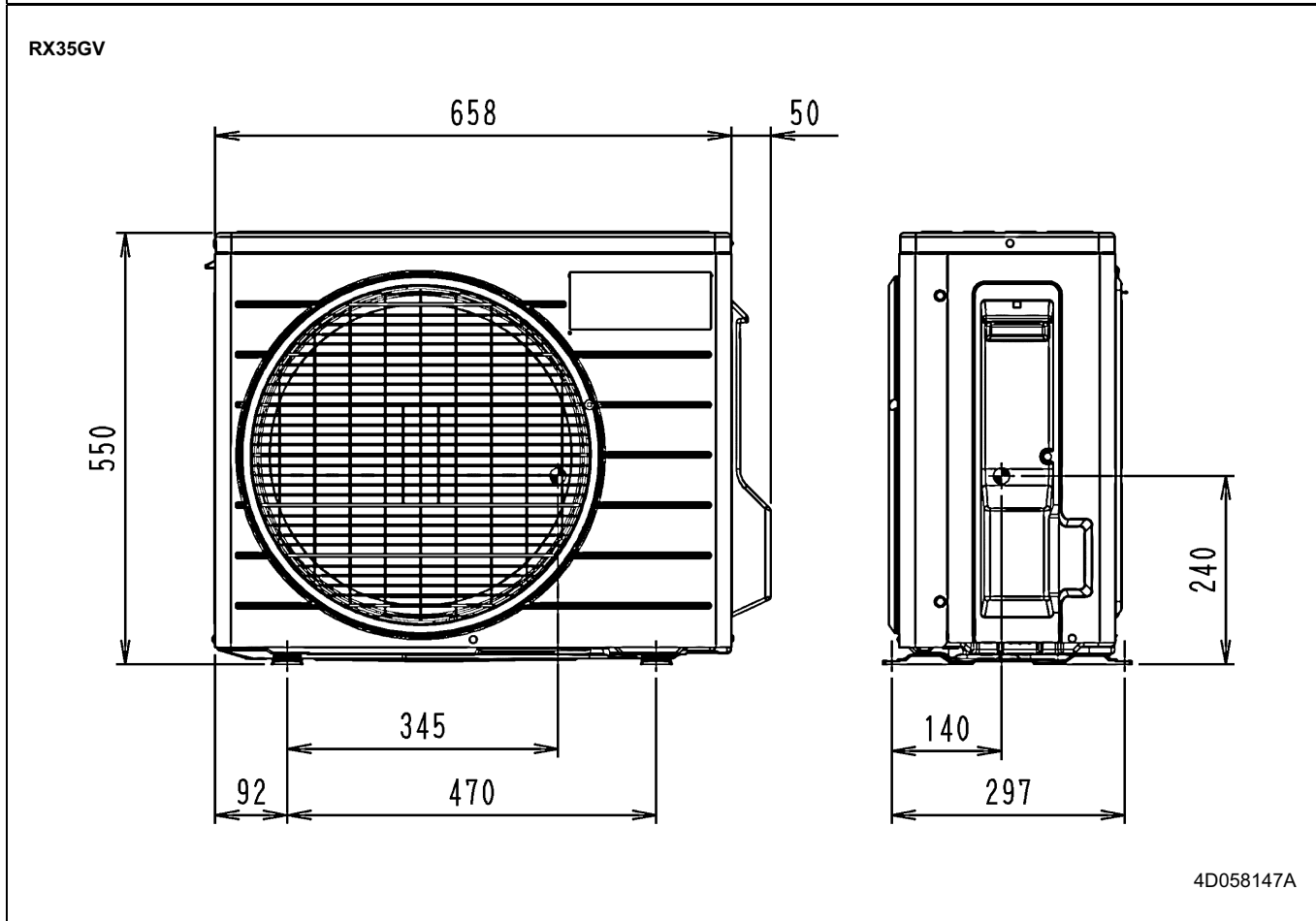
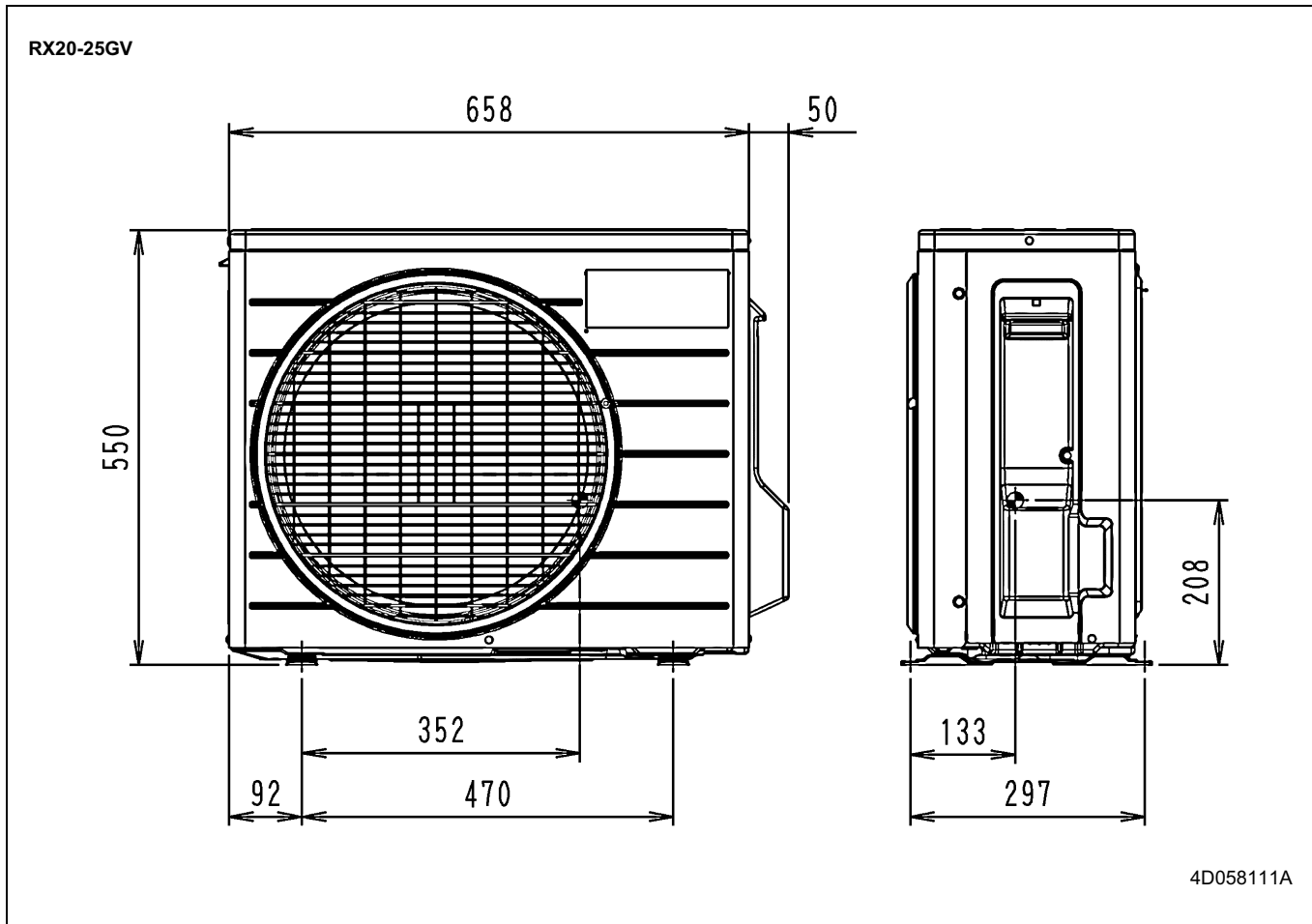
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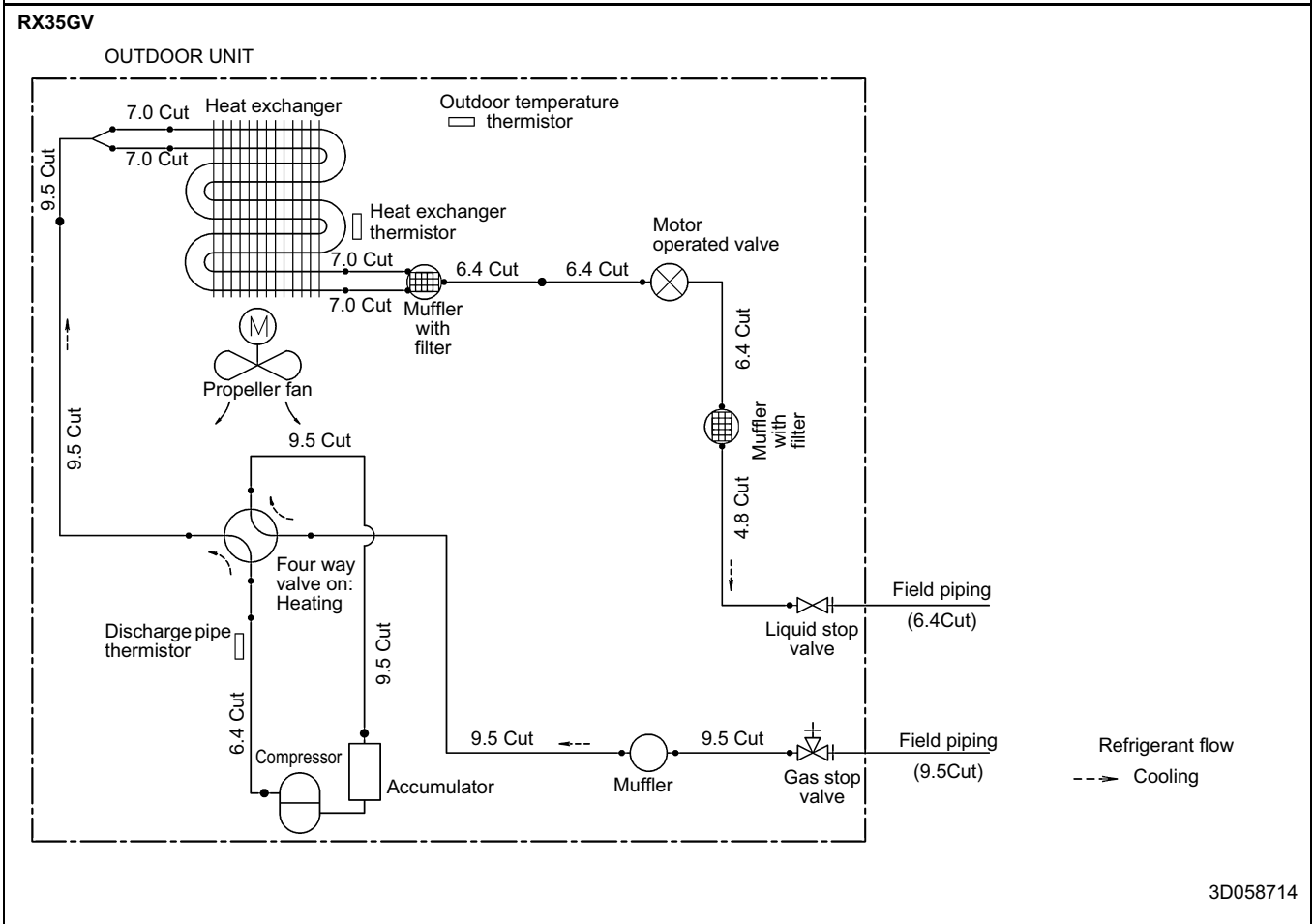
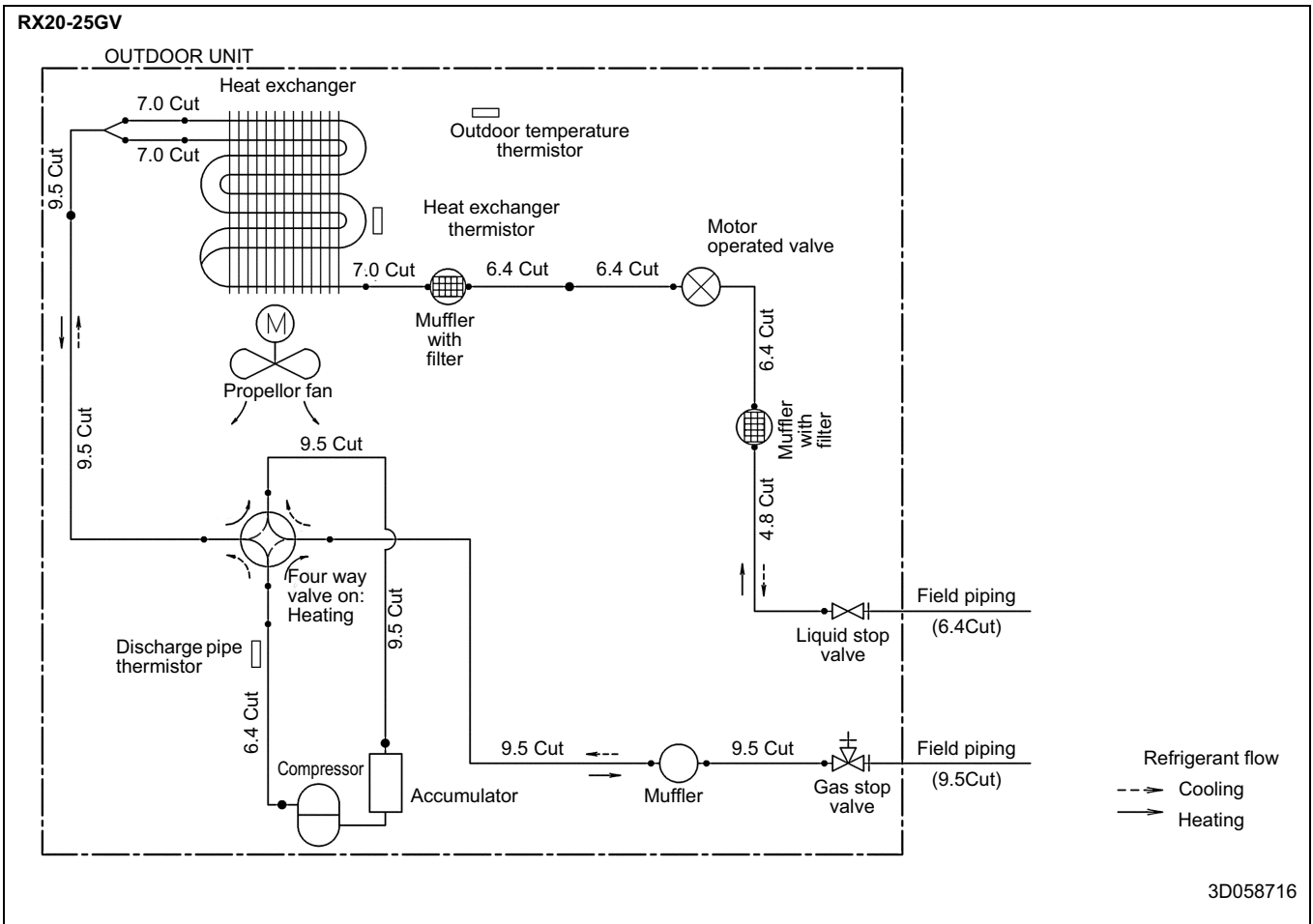
5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity



6 Piping diagram

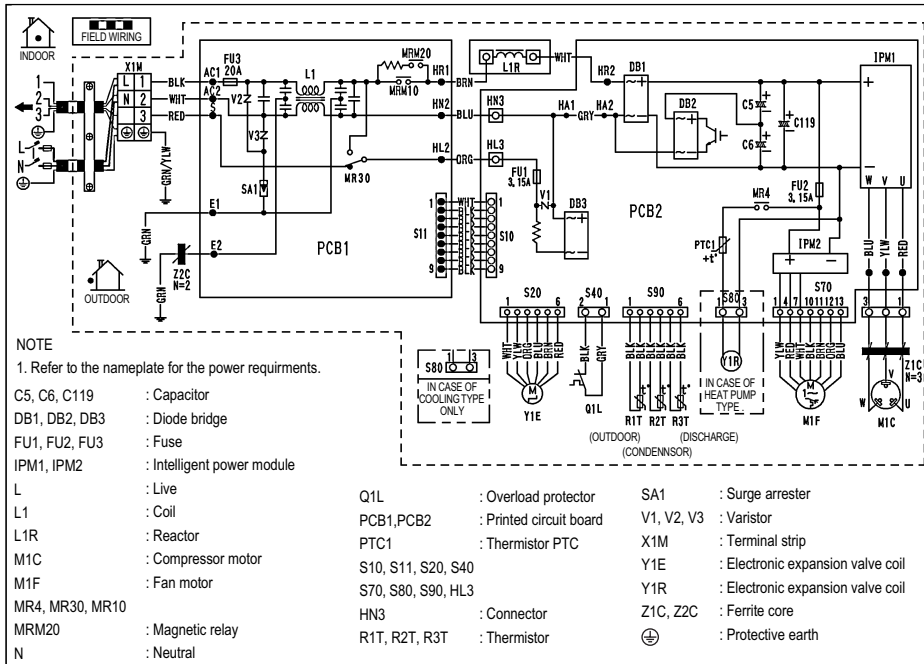
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7 Wiring diagram

7 - 1 Wiring diagram

RX20-35GV



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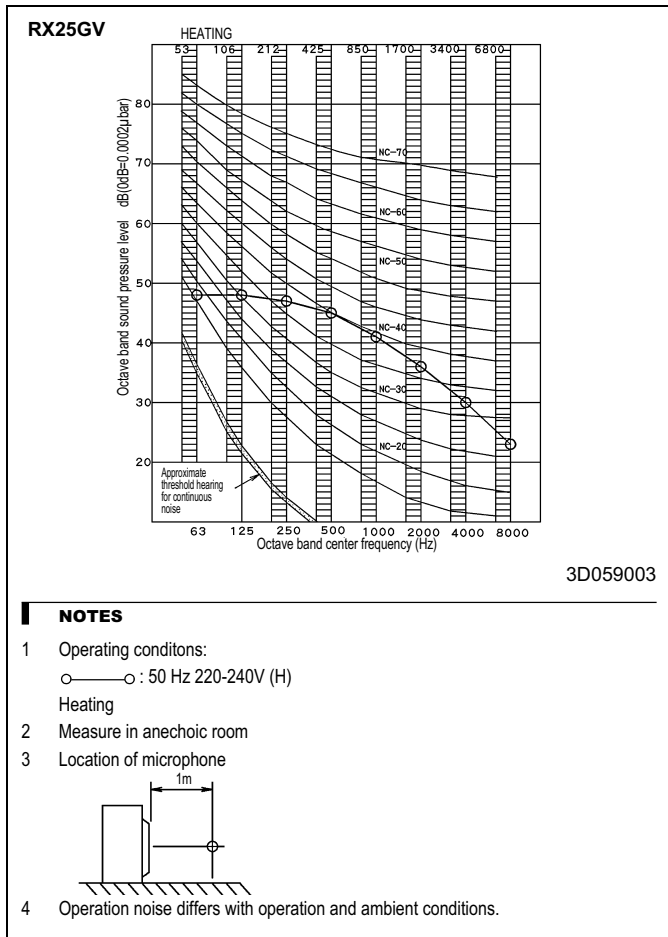
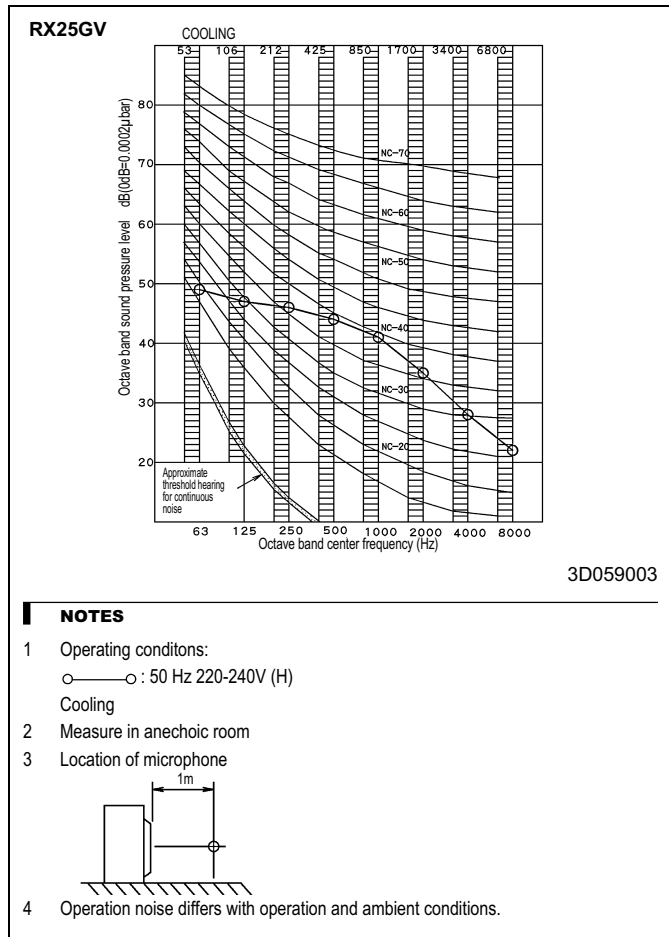
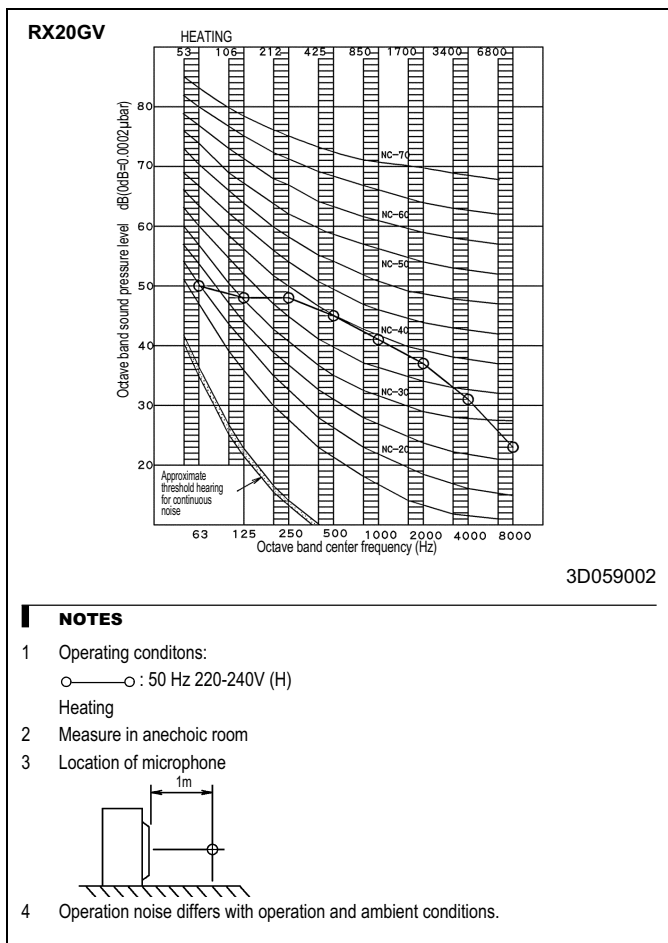
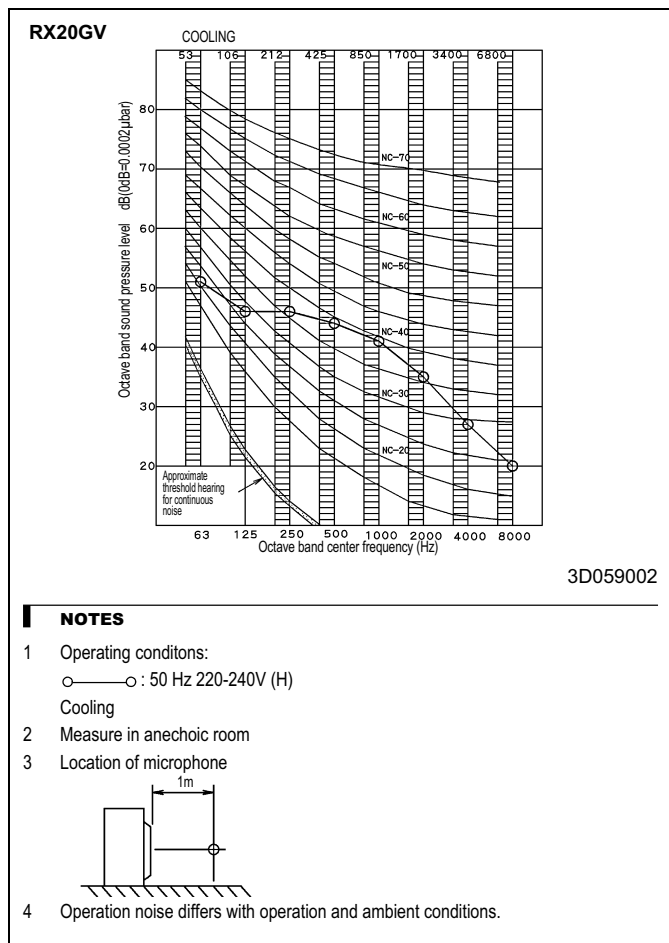
NOTES

- 1 Size: Length 132 x Width 185
- 2 Refer to purchasing specification AS(Y)303002, unless otherwise specified.
- 3 This drawing was drawn on CAD system.

8 Sound data

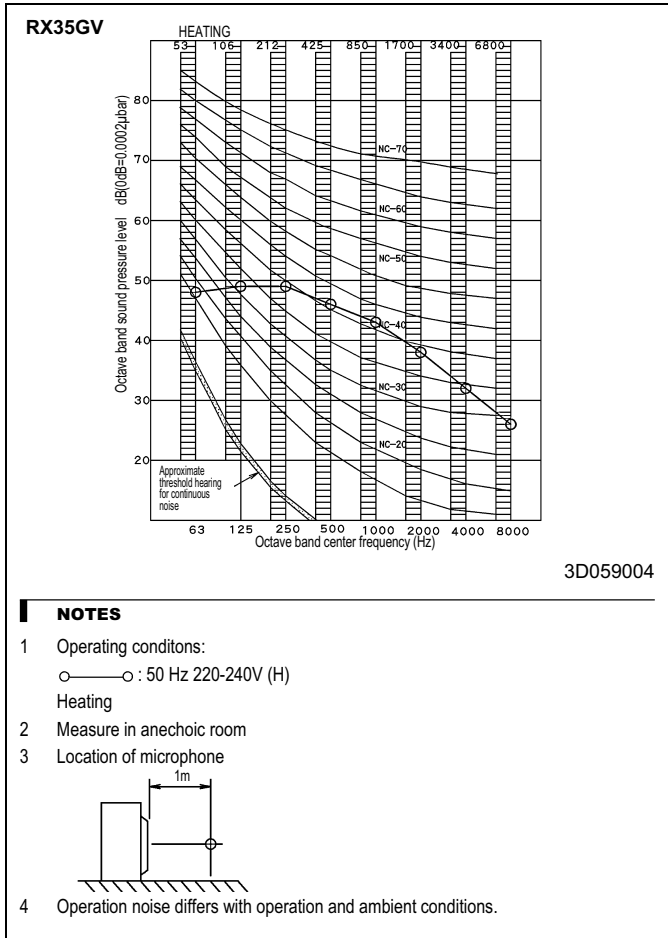
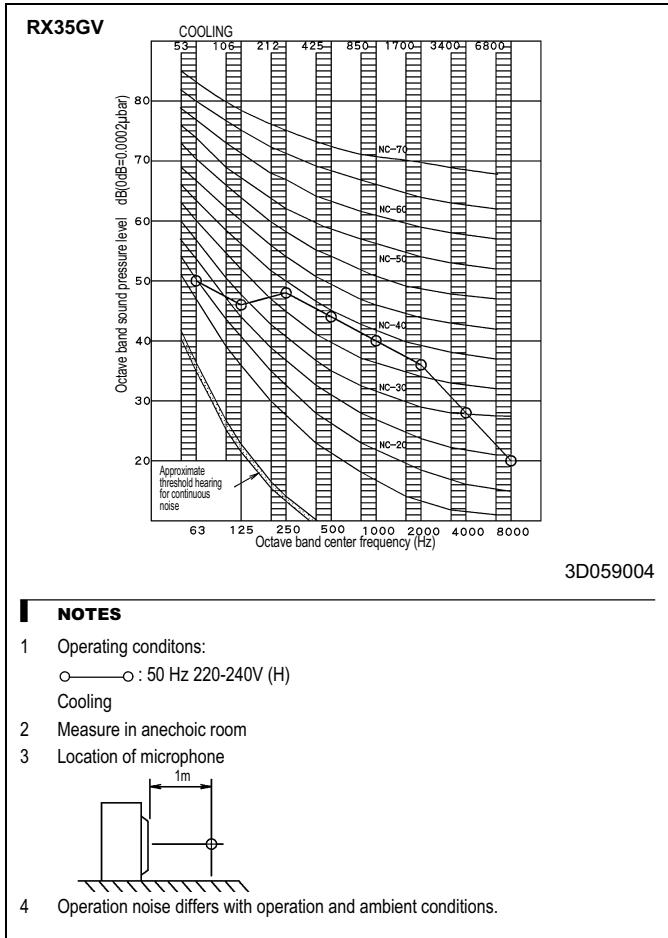
8 - 1 Sound pressure spectrum

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8 Sound data

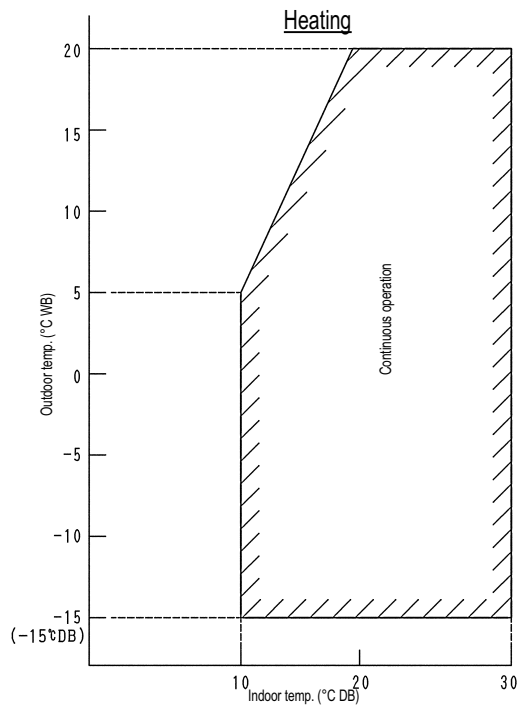
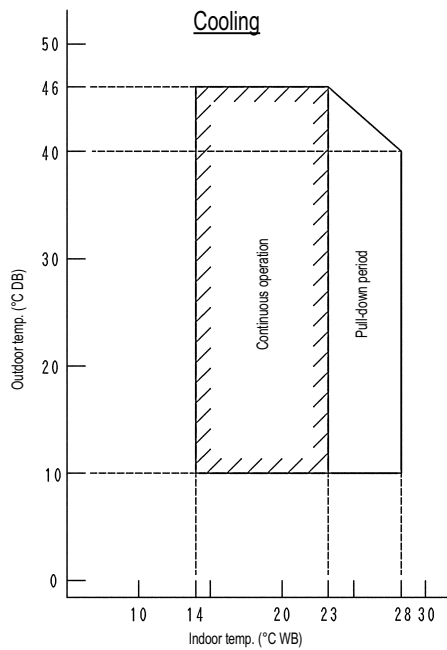
8 - 1 Sound pressure spectrum



9 Operation range

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RX20-35GV



NOTES

- The graphs are based on the following conditions.
 - Equivalent piping length 5m
 - Level difference 0m
 - Air flow rate High

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