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- 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				RXR28EV1B9	RXR42EV1B9	RXR50EV1B9
For combination indoor units + outdoor units	Indoor Units			FTXR28EV1B9	FTXR42EV1B9	FTXR50EV1B9
	Nominal Capacity	Cooling capacity	Minimum	kW	1.55	1.55
Standard			kW	2.8	4.2	5.0
Maximum			kW	3.6	4.60	5.50
Heating		Minimum	kW	1.30	1.30	1.30
		Standard	kW	3.6	5.1	6.0
		Maximum	kW	5.00	5.6	6.20
Nominal input	Cooling	Minimum	kW	0.250	0.260	0.26
		Standard	kW	0.560	1.050	1.46
		Maximum	kW	0.800	1.320	1.8
	Heating	Minimum	kW	0.220	0.220	0.23
		Standard	kW	0.700	1.180	1.51
		Maximum	kW	1.410	1.600	1.77
For combination indoor units + outdoor units	EER	Nominal		5.00	4.00	3.42
	COP	Nominal		5.14	4.32	3.97
	Energy Labeling Directive	Cooling		A		
		Heating		A		
	Annual energy consumption	kWh		280	525	730

2-2 TECHNICAL SPECIFICATIONS				RXR28EV1B9	RXR42EV1B9	RXR50EV1B9
Casing	Colour			Ivory White		
Dimensions	Unit	Height	mm	693	693	693
		Width	mm	795	795	795
		Depth	mm	285	285	285
	Packing	Height	mm	736	736	736
		Width	mm	935	935	935
		Depth	mm	410	410	410
Weight	Unit		kg	48	48	48
	Packed Unit		kg	55	55	55
Heat Exchanger	Dimensions	Length	mm	844		
		Nr of Rows		2/1		
		Fin Pitch	mm	1.27/1.49		
		Nr of Stages		26/6		
	Tube type	ø7.0G79 / ø7.9G2A				
Fin	Type		Corrugated fin			
Fan	Type			Propeller		
	Quantity			1	1	1
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	33.8	36.2	36.2
		Heating	m³/min	31.4	31.9	34.3
	Motor	Quantity		1	1	1
Model		KFD-280-60-8A				
Motor	Speed (nominal)	Cooling	rpm	800	850	850
		Heating	rpm	750	760	810
Fan	Motor	Output	W	60	60	60
Compressor	Quantity			1	1	1
	Motor	Model		2YC36CXD		
		Type		Hermetically sealed swing compressor		
		Motor Output	W	1100	1100	1100
Operation Range	Cooling	Min	°CDB	-10	-10	-10
		Max	°CDB	43	43	43
	Heating	Min	°CWB	-20	-20	-20
		Max	°CWB	18	18	18

## 2 Specifications

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2-2 TECHNICAL SPECIFICATIONS				RXR28EV1B9	RXR42EV1B9	RXR50EV1B9
Sound Level (nominal)	Cooling	Sound Power	dBA	60	62	62
		Sound Pressure	dBA	46	48	48
	Heating	Sound Pressure	dBA	46	48	50
Refrigerant	Type			R-410A		
	Charge	kg		1.4	1.4	1.4
Refrigerant Oil	Type			FVC50K		
	Charged Volume		l	0.4	0.4	0.4
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.35	6.35	6.35
	Gas	Diameter (OD)	mm	9.5	9.5	9.5
	Drain	Diameter (OD)	mm	18	18	18
	Piping Length	Maximum	m	10	10	10
	Additional Refrigerant Charge		kg/m	CHARGELESS		
	Installation height difference	Maximum	m	8	8	8
	Heat Insulation			Both liquid and gas pipes		
	Standard Accessories	Item			Drain plug	
Quantity			1	1	1	
Item			Installation manual			
Quantity			1	1	1	
Item			Humidification hose			
Quantity			1	1	1	
Item			Joint			
Quantity			1	1	1	
Item			Elbow			
Quantity			1	1	1	
Item			Binding band			
Quantity			5	5	5	

2-3 ELECTRICAL SPECIFICATIONS				RXR28EV1B9	RXR42EV1B9	RXR50EV1B9
Power Supply	Name			V1		
	Phase			1	1	1
	Frequency		Hz	50	50	50
	Voltage		V	220-240		
	Voltage range	Minimum	V	-10%		
Maximum		V	+10%			
Current	Nominal running current (RLA)	Cooling (A)	A	2.96	5.04	6.91
		Heating (A)	A	3.66	5.64	7.11
	Starting current (cooling/heating)		A	3.9	5.9	7.4
	Maximum Running Current		A	3.05(C) - 3.75(H)	C:5.13 - H:5.73	7.0(C) - 7.2(H)
Wiring connections	For Power Supply	Quantity		3	3	3
	For connection with indoor	Quantity		4	4	4
		Remark		4 FOR INTERUNIT WIRING ( INCLUDING EARTH WIRING )		

### 3 Features



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## 4 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
FTXR28EV1B9	RXR28EV1B9	50-220 20-230 50-240	Max. 50Hz 264V Min. 50Hz 198V	14.5	16	30	2.6	60	0.10	57	0.14
FTXR42EV1B9	RXR42EV1B9	50-220 20-230 50-240	Max. 60Hz 264V Min. 60Hz 198V	14.5	16	52	4.7	60	0.13	57	0.16
FTXR50EV1B9	RXR50EV1B9	50-220 20-230 50-240	Max. 60Hz 264V Min. 60Hz 198V	14.5	16	66.9	6.6	60	0.13	57	0.19

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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.

# 5 Capacity tables

## 5 - 1 Cooling/Heating capacity tables

FTXR28EV1B9 + RXR28EV1B9																						AFR	11.1		
Cooling																						BF		0.10	
50Hz 220-240V																									
Indoor		Outdoor temperature (°CDB)																							
EWB (°C)	EDB (°C)	-15			-10			-5			0			5			10			15					
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	3.78	2.87	0.14	3.65	2.80	0.18	3.52	2.74	0.22	3.39	2.68	0.26	3.26	2.61	0.31	3.13	2.55	0.35	3.00	2.49	0.39			
16.0	22	3.91	2.80	0.14	3.78	2.74	0.18	3.65	2.68	0.23	3.52	2.62	0.27	3.39	2.56	0.31	3.26	2.50	0.35	3.13	2.45	0.39			
18.0	25	4.04	2.93	0.14	3.91	2.87	0.19	3.78	2.81	0.23	3.65	2.76	0.27	3.52	2.71	0.31	3.39	2.65	0.35	3.26	2.60	0.39			
19.0	27	4.10	3.09	0.15	3.97	3.04	0.19	3.84	2.98	0.23	3.71	2.93	0.27	3.58	2.88	0.31	3.45	2.83	0.35	3.32	2.77	0.39			
22.0	30	4.30	2.96	0.15	4.17	2.92	0.19	4.04	2.87	0.23	3.91	2.82	0.27	3.78	2.78	0.32	3.65	2.73	0.36	3.52	2.69	0.40			
24.0	32	4.43	2.88	0.15	4.30	2.84	0.19	4.17	2.79	0.24	4.04	2.75	0.28	3.90	2.71	0.32	3.77	2.67	0.36	3.64	2.63	0.40			

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	2.87	2.43	0.43	2.74	2.37	0.47	2.61	2.31	0.51	2.56	2.28	0.53	2.48	2.25	0.55	2.35	2.19	0.60						
16.0	22	3.00	2.39	0.43	2.87	2.33	0.47	2.74	2.28	0.51	2.68	2.25	0.53	2.61	2.22	0.56	2.48	2.17	0.60						
18.0	25	3.13	2.55	0.43	3.00	2.49	0.48	2.87	2.44	0.52	2.81	2.42	0.53	2.74	2.39	0.56	2.61	2.34	0.60						
19.0	27	3.19	2.72	0.44	3.06	2.67	0.48	2.93	2.62	0.52	2.88	2.60	0.54	<del>2.80</del>	<del>2.57</del>	<del>0.56</del>	2.67	2.52	0.60						
22.0	30	3.38	2.64	0.44	3.25	2.60	0.48	3.12	2.55	0.52	3.07	2.54	0.54	2.99	2.51	0.56	2.86	2.47	0.61						
24.0	32	3.51	2.59	0.44	3.38	2.54	0.48	3.25	2.50	0.52	3.20	2.49	0.54	3.12	2.46	0.57	2.99	2.43	0.61						


Heating		50Hz 220-240V										AFR	12.4	
Indoor		Outdoor temperature (°CWB)												
EDB (°C)		-10		-5		0		6		10				
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
15.0		2.42	0.59	2.83	0.62	3.24	0.65	3.72	0.68	4.05	0.71			
20.0		2.30	0.61	2.71	0.64	3.11	0.67	<del>3.60</del>	<del>0.70</del>	3.93	0.72			
22.0		2.25	0.61	2.66	0.64	3.06	0.67	3.55	0.71	3.88	0.73			
24.0		2.20	0.62	2.61	0.65	3.01	0.68	3.50	0.71	3.83	0.74			
25.0		2.17	0.62	2.58	0.65	2.99	0.68	3.48	0.72	3.80	0.74			
27.0		2.13	0.63	2.53	0.66	2.94	0.69	3.43	0.72	3.75	0.75			

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### SYMBOLS

AFR	: Air flow rate	(m <sup>3</sup> /min)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C)
EDB	: Entering dry bulb temp.	(°C)
TC	: Total 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.)
- About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
- 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 Capacity tables

## 5 - 1 Cooling/Heating capacity tables

FTXR42EV1B9 + RXR42EV1B9

AFR	12.4
BF	0.14

### Cooling

50Hz 220-240V

Indoor		Outdoor temperature (°CDB)																				
EWB (°C)	EDB (°C)	-15			-10			-5			0			5			10			15		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.17	3.64	0.24	5.17	3.64	0.33	5.17	3.64	0.41	5.09	3.60	0.50	4.89	3.49	0.57	4.69	3.39	0.65	4.50	3.29	0.73
16.0	22	5.87	3.81	0.27	5.67	3.71	0.34	5.47	3.61	0.42	5.28	3.51	0.50	5.08	3.42	0.58	4.89	3.32	0.65	4.69	3.23	0.73
18.0	25	6.06	3.91	0.27	5.86	3.82	0.35	5.67	3.73	0.43	5.47	3.64	0.50	5.28	3.55	0.58	5.08	3.46	0.66	4.89	3.37	0.74
19.0	27	6.16	4.07	0.27	5.96	3.98	0.35	5.76	3.89	0.43	5.57	3.80	0.51	5.37	3.72	0.58	5.18	3.63	0.66	4.98	3.54	0.74
22.0	30	6.45	3.87	0.28	6.25	3.80	0.36	6.05	3.72	0.44	5.86	3.64	0.51	5.66	3.56	0.59	5.47	3.49	0.67	5.27	3.41	0.75
24.0	32	6.64	3.74	0.29	6.44	3.67	0.36	6.25	3.59	0.44	6.05	3.52	0.52	5.86	3.45	0.60	5.66	3.38	0.67	5.47	3.32	0.75

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	4.30	3.19	0.81	4.11	3.09	0.88	3.91	2.99	0.96	3.83	2.96	0.99	3.72	2.90	1.04	3.52	2.80	1.12
16.0	22	4.50	3.13	0.81	4.30	3.04	0.89	4.11	2.95	0.97	4.03	2.91	1.00	3.91	2.86	1.04	3.71	2.77	1.12
18.0	25	4.69	3.28	0.81	4.49	3.20	0.89	4.30	3.11	0.97	4.22	3.08	1.00	4.10	3.03	1.05	3.91	2.95	1.13
19.0	27	4.79	3.46	0.82	4.59	3.38	0.89	4.40	3.30	0.97	4.32	3.26	1.00	<del>4.20</del>	<del>3.22</del>	<del>1.05</del>	4.00	3.14	1.13
22.0	30	5.08	3.34	0.82	4.88	3.26	0.90	4.69	3.19	0.98	4.61	3.16	1.01	4.49	3.12	1.06	4.29	3.05	1.13
24.0	32	5.27	3.25	0.83	5.07	3.18	0.91	4.88	3.12	0.98	4.80	3.09	1.02	4.68	3.05	1.06	4.49	2.99	1.14

### Heating

50Hz 220-240V

AFR	12.9
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Indoor		Outdoor temperature (°CWB)									
EDB (°C)		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0		3.43	1.00	4.01	1.05	4.58	1.10	5.28	1.15	5.74	1.19
20.0		3.26	1.02	3.83	1.07	4.41	1.12	<del>5.10</del>	<del>1.18</del>	5.56	1.22
22.0		3.19	1.04	3.76	1.08	4.34	1.13	5.03	1.19	5.49	1.23
24.0		3.12	1.05	3.69	1.09	4.27	1.14	4.96	1.20	5.42	1.24
25.0		3.08	1.05	3.66	1.10	4.23	1.15	4.92	1.21	5.38	1.25
27.0		3.01	1.06	3.59	1.11	4.16	1.16	4.85	1.22	5.31	1.26

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### SYMBOLS

AFR	: Air flow rate	(m <sup>3</sup> /min)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C)
EDB	: Entering dry bulb temp.	(°C)
TC	: Total 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.)
- About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
- 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.

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# 5 Capacity tables

## 5 - 1 Cooling/Heating capacity tables

FTXR50EV1B9 + RXR50EV1B9																					AFR	13.3			
Cooling																					50Hz 220-240V			BF	0.16
Indoor		Outdoor temperature (°CDB)																							
EWB (°C)	EDB (°C)	-15			-10			-5			0			5			10			15					
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
14.0	20	5.41	3.81	0.31	5.41	3.81	0.42	5.41	3.81	0.53	5.41	3.81	0.65	5.41	3.81	0.77	5.41	3.81	0.89	5.36	3.78	1.01			
16.0	22	6.65	4.26	0.36	6.65	4.26	0.47	6.52	4.19	0.59	6.28	4.07	0.69	6.05	3.95	0.80	5.82	3.83	0.91	5.59	3.71	1.02			
18.0	25	7.21	4.53	0.38	6.98	4.41	0.49	6.75	4.30	0.59	6.51	4.18	0.70	6.28	4.07	0.81	6.05	3.96	0.92	5.82	3.85	1.03			
19.0	27	7.33	4.68	0.38	7.10	4.57	0.49	6.86	4.46	0.60	6.63	4.35	0.70	6.40	4.24	0.81	6.16	4.13	0.92	5.93	4.03	1.03			
22.0	30	7.67	4.45	0.39	7.44	4.35	0.50	7.21	4.25	0.61	6.98	4.15	0.71	6.74	4.06	0.82	6.51	3.96	0.93	6.28	3.87	1.04			
24.0	32	7.9	4.28	0.40	7.67	4.19	0.50	7.44	4.10	0.61	7.21	4.01	0.72	6.97	3.92	0.83	6.74	3.84	0.94	6.51	3.75	1.04			

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	5.12	3.66	1.12	4.89	3.54	1.23	4.66	3.42	1.34	4.56	3.37	1.38	4.42	3.30	1.44	4.19	3.18	1.55
16.0	22	5.35	3.59	1.13	5.12	3.48	1.23	4.89	3.37	1.34	4.79	3.32	1.39	4.65	3.26	1.45	4.42	3.15	1.56
18.0	25	5.58	3.74	1.13	5.35	3.63	1.24	5.12	3.53	1.35	5.02	3.49	1.39	4.88	3.43	1.46	4.65	3.32	1.56
19.0	27	5.70	3.92	1.14	5.47	3.82	1.24	5.23	3.72	1.35	5.14	3.68	1.40	4.99	3.62	1.46	4.77	3.52	1.57
22.0	30	6.04	3.77	1.15	5.81	3.68	1.25	5.58	3.59	1.36	5.49	3.56	1.40	5.35	3.51	1.47	5.11	3.42	1.58
24.0	32	6.27	3.67	1.15	6.04	3.58	1.26	5.81	3.50	1.37	5.72	3.47	1.41	5.58	3.42	1.48	5.34	3.34	1.58


Heating		50Hz 220-240V										AFR	14
Indoor		Outdoor temperature (°CWB)											
EDB (°C)		-10		-5		0		6		10			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
15.0		4.04	1.28	4.72	1.34	5.39	1.40	6.21	1.48	6.75	1.53		
20.0		3.83	1.31	4.51	1.37	5.19	1.44	6.00	1.51	6.54	1.56		
22.0		3.75	1.32	4.43	1.39	5.10	1.45	5.92	1.52	6.46	1.57		
24.0		3.67	1.34	4.34	1.40	5.02	1.46	5.83	1.54	6.38	1.59		
25.0		3.62	1.35	4.30	1.41	4.98	1.47	5.79	1.54	6.33	1.59		
27.0		3.54	1.36	4.22	1.42	4.90	1.48	5.71	1.56	6.25	1.61		

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### SYMBOLS

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

### NOTES

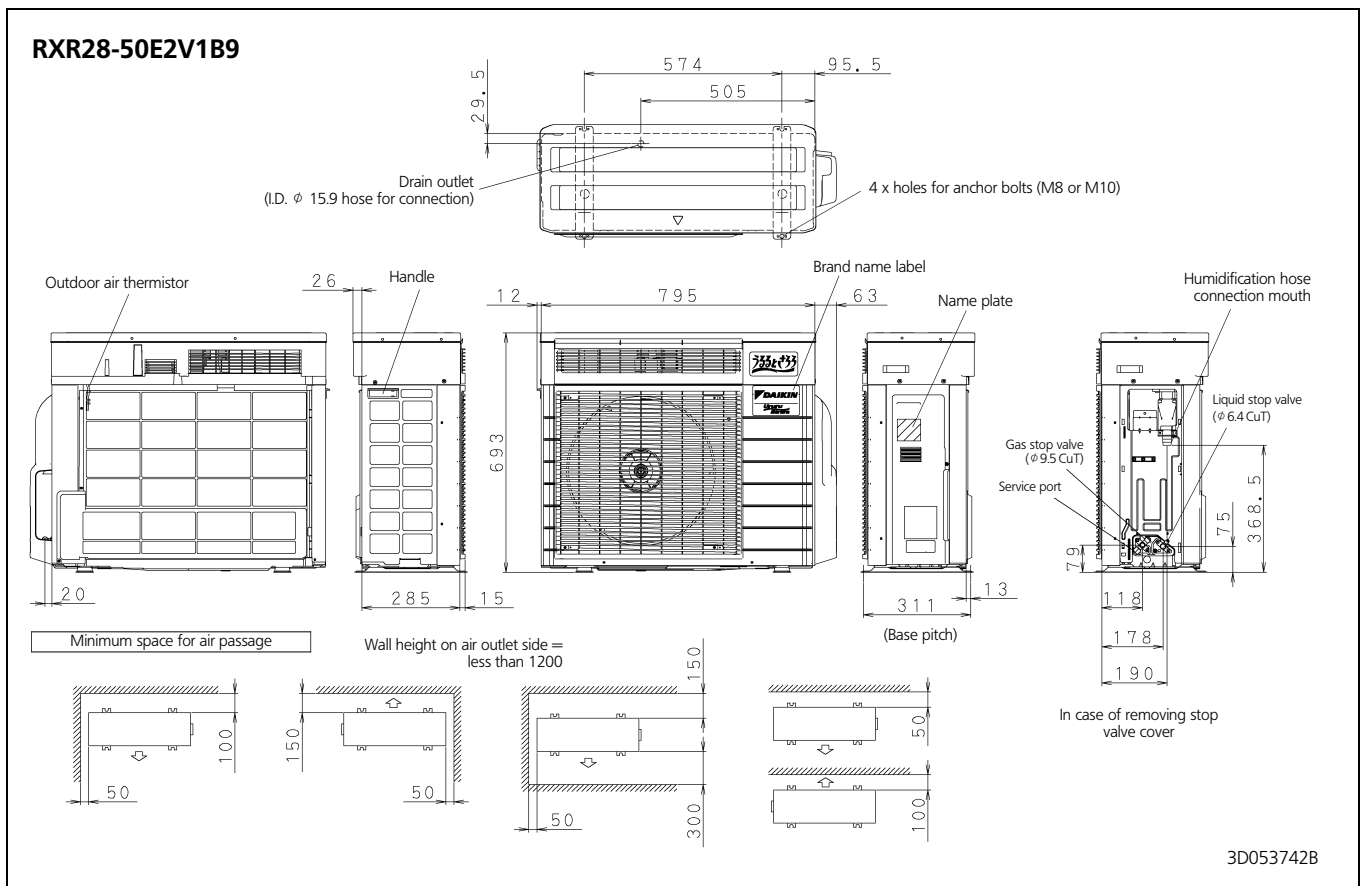
- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
- 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.



# 6 Dimensional drawing & centre of gravity

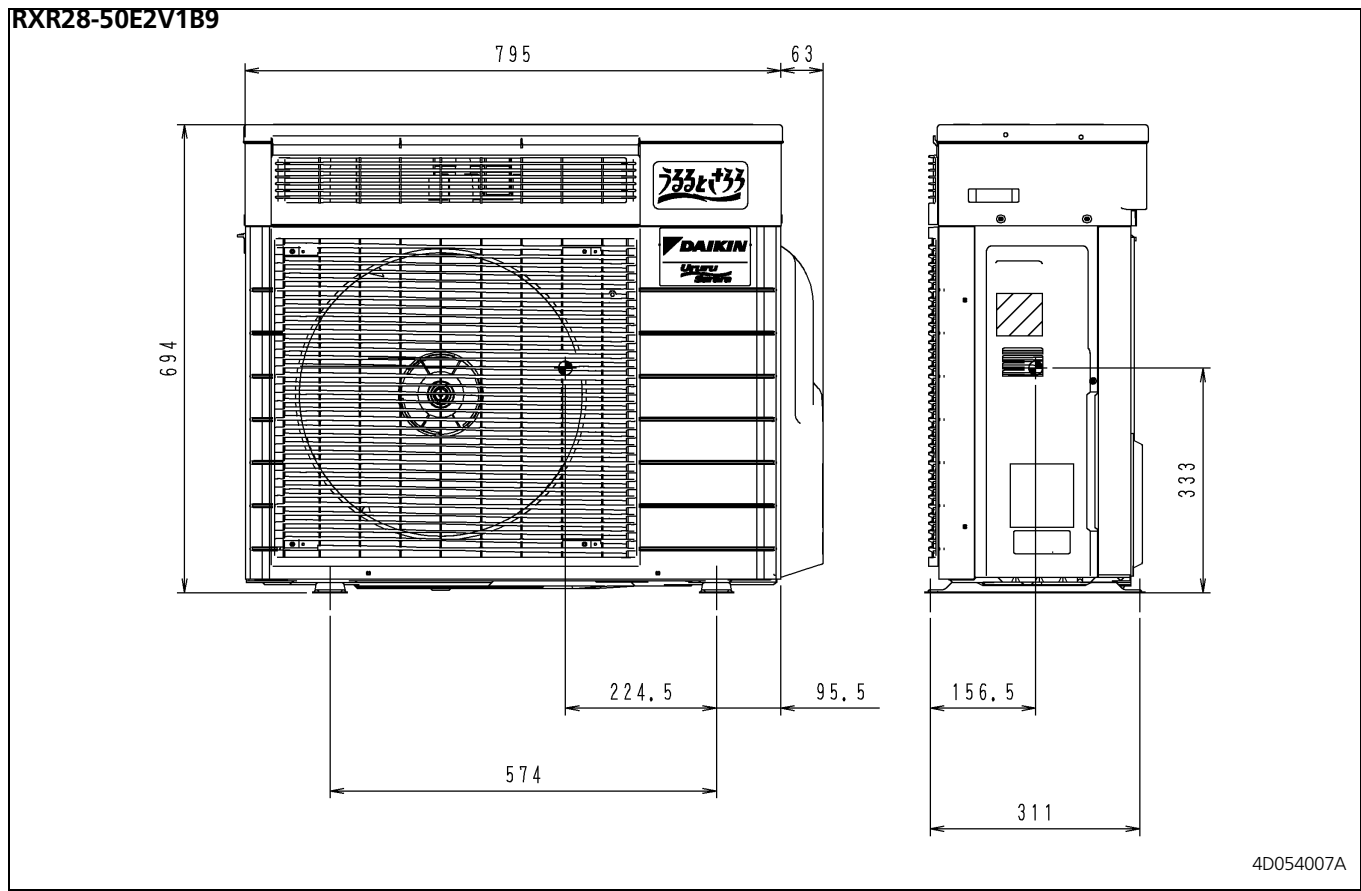
## 6 - 1 Dimensional drawing

1  
6



## 6 Dimensional drawing & centre of gravity

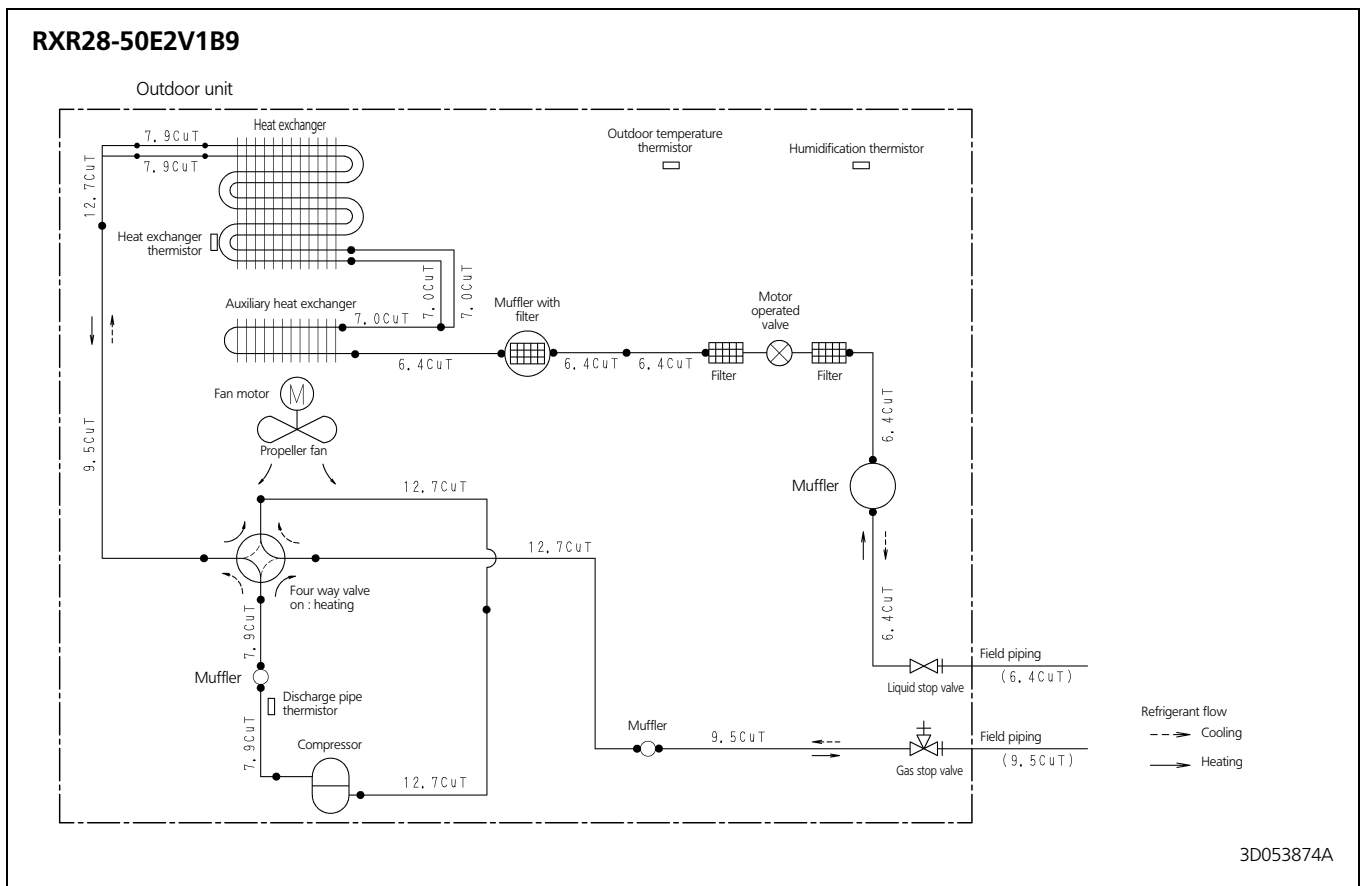
### 6 - 2 Centre of gravity



1  
6

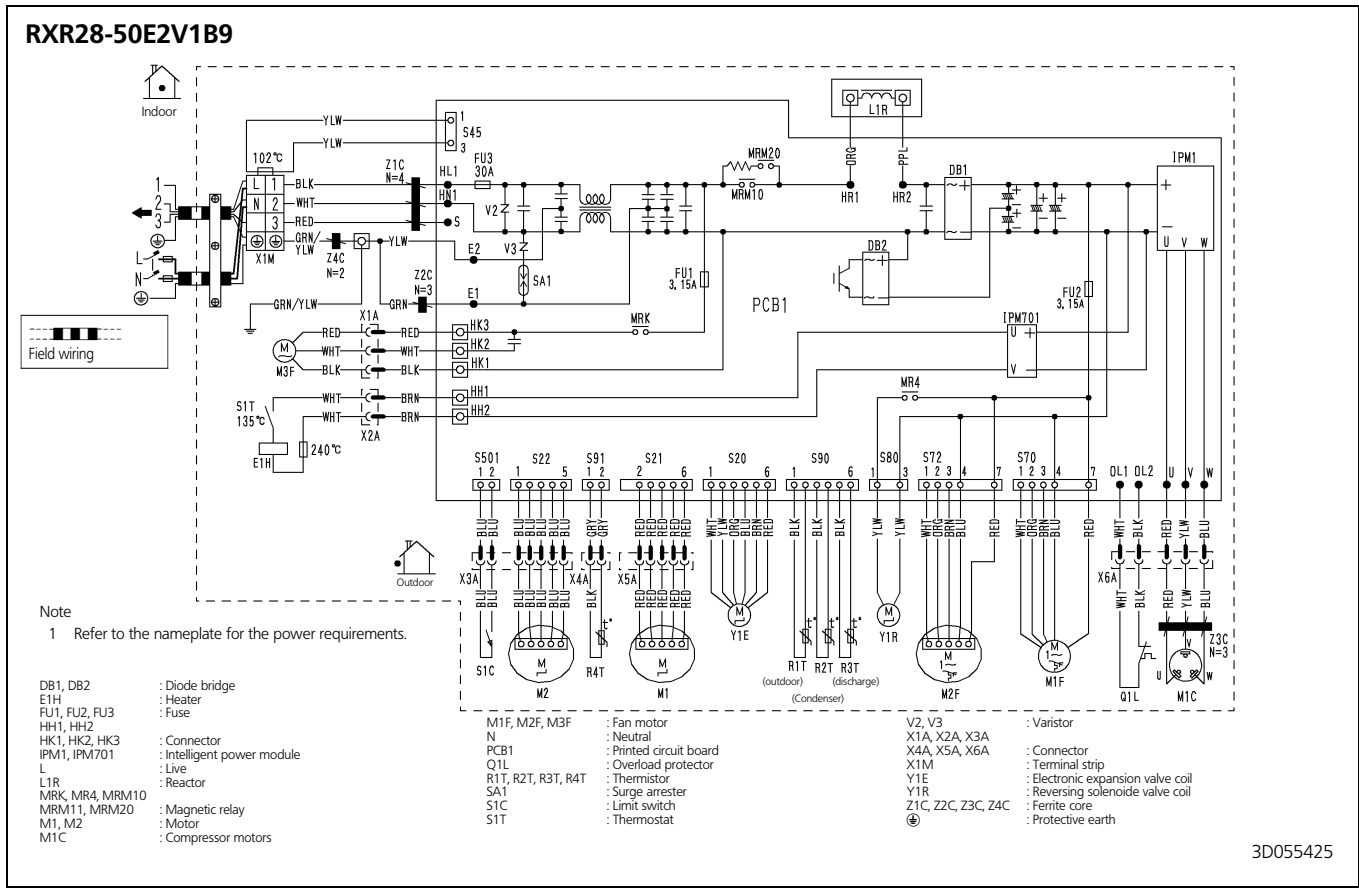
# 7 Piping diagram

1  
7



# 8 Wiring diagram

## 8 - 1 Wiring diagram



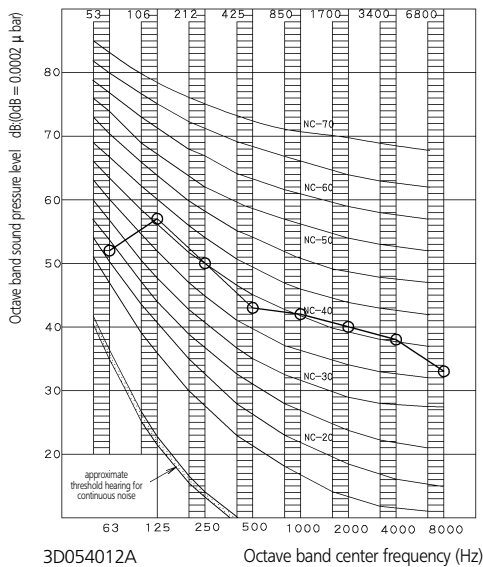
3D055425

# 9 Sound data

## 9 - 1 Sound pressure spectrum

1  
9

**RXR28E2V1B9 (Cooling)**



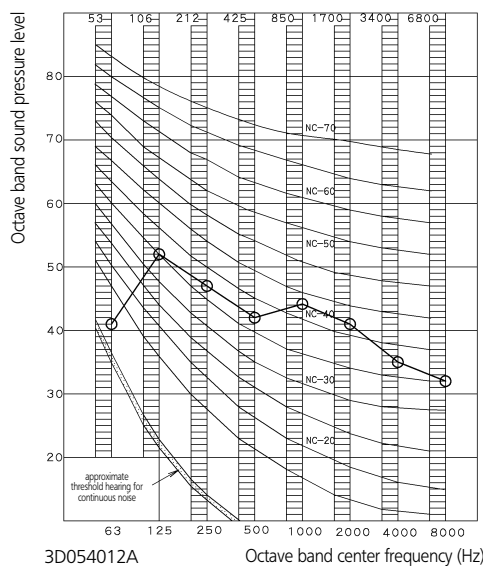
**NOTES**

- 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

○—○ 50Hz, 220-240V

**RXR28E2V1B9 (Heating)**



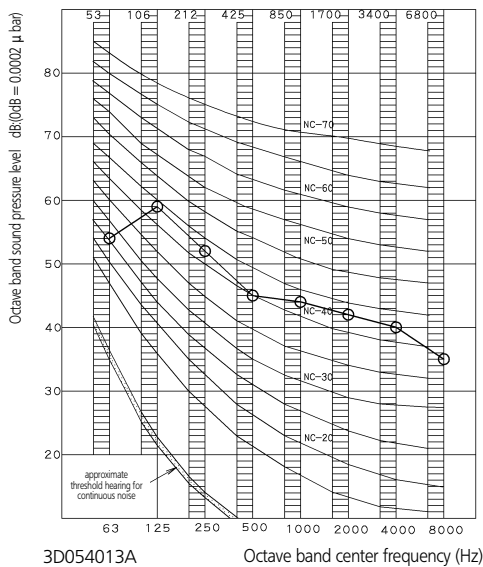
**NOTES**

- 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

○—○ 50Hz, 220-240V

**RXR42E2V1B9 (Cooling)**



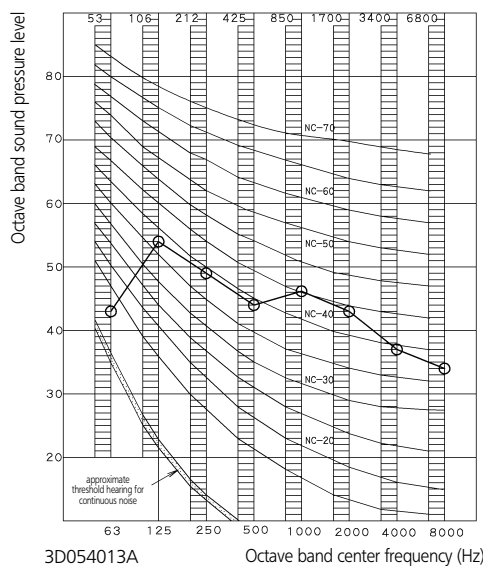
**NOTES**

- 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

○—○ 50Hz, 220-240V

**RXR42E2V1B9 (Heating)**



**NOTES**

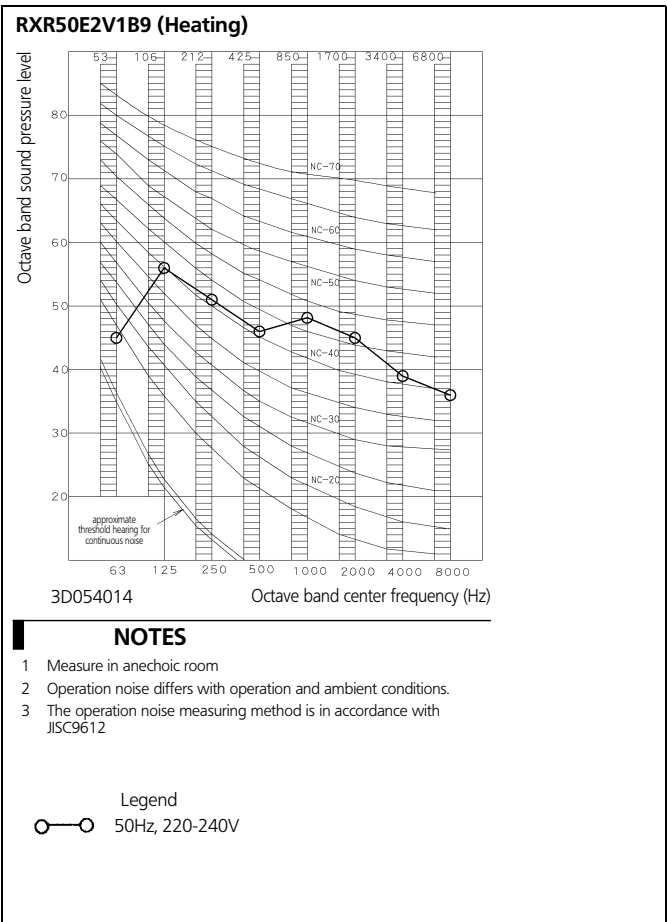
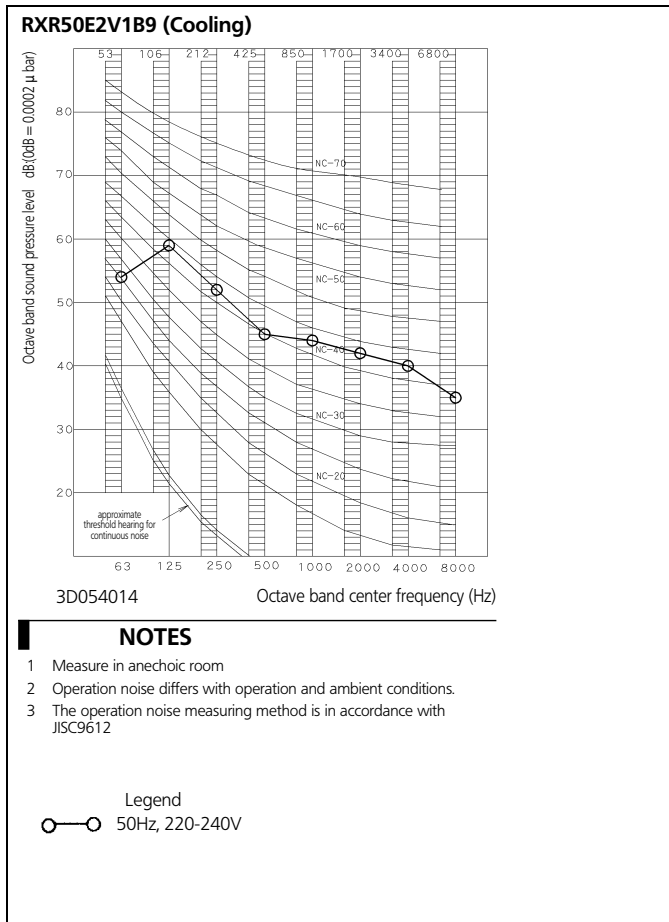
- 1 Measure in anechoic room
- 2 Operation noise differs with operation and ambient conditions.
- 3 The operation noise measuring method is in accordance with JISC9612

Legend

○—○ 50Hz, 220-240V

# 9 Sound data

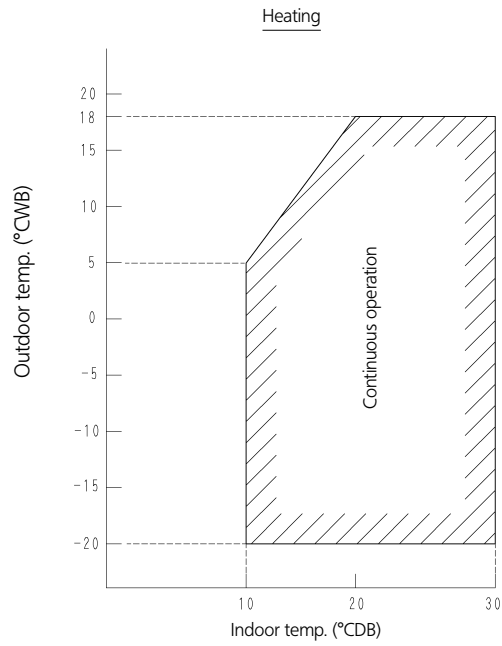
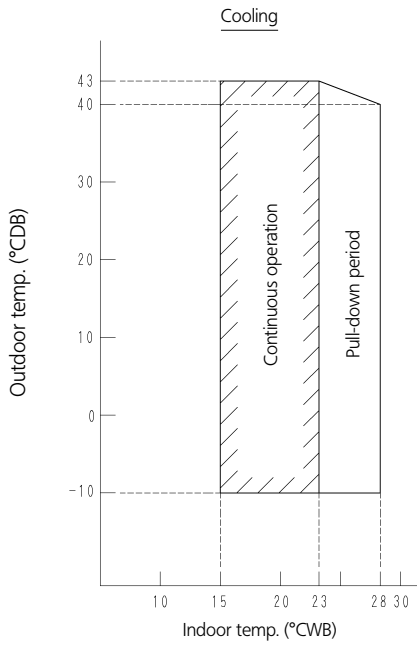
## 9 - 1 Sound pressure spectrum



# 10 Operation range

1  
10

## RXR28-50E2V1B9



**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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