



Air Conditioning

Technical Data



EEDEN15-100

ARXS-L3

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ARXS-L3

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1 Features

- SEER / SCOP up to A++
- 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
- The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- Daikin outdoor units are neat, sturdy and can easily be mounted 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
- 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.



Energy saving
during standby
mode



Auto cooling-
heating
changeover



Outdoor unit
silent operation

2 Specifications

2-1 Capacity and Power input				ATXS25K/ARXS25L3	ATXS35K/ARXS35L3
Indoor unit				ATXS25K	ATXS35K
Outdoor unit				ARXS25L3	ARXS35L3
Cooling capacity	Min.		kW	-	1.4
			Btu/h	4,400	4,800
			kcal/h	1,120	1,200
	Nom.		kW	2.5 (1)	3.5 (1)
			Btu/h	8,500 (1)	11,900 (1)
			kcal/h	2,150 (1)	3,010 (1)
	Max.		kW	-	4.0
			Btu/h	10,900	13,600
			kcal/h	2,750	3,440
Heating capacity	Min.		kW	1.3	1.4
			Btu/h	4,400	4,800
			kcal/h	1,120	1,200
	Nom.		kW	2.8 (1)	4.00 (1)
			Btu/h	9,600 (1)	13,600 (1)
			kcal/h	2,410 (1)	3,440 (1)
	Max.		kW	4.7	5.2
			Btu/h	16,000	17,700
			kcal/h	4,040	4,470
Power input	Cooling	Min.	kW	0.320	0.350
		Nom.	kW	0.602 (1)	0.840 (1)
		Max.	kW	1.000	1.190
	Heating	Min.	kW	0.310	0.340
		Nom.	kW	0.620 (1)	0.840 (1)
		Max.	kW	1.410	1.460
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++	
		Pdesign	kW	2.50	3.50
		SEER		7.51	7.10
		Annual energy consumption	kWh	117	173
	Heating (Average climate)	Energy label		A++	
		Pdesign	kW	2.50	3.60
		SCOP		4.68	4.61
		Annual energy consumption	kWh	747	1,094
Piping connections	Liquid	OD	mm	6.35	
	Gas	OD	mm	9.5	
	Drain	OD	mm	18	
	Heat insulation			Both liquid and gas pipes	
Current	Nominal running current (RLA) - 50Hz	Cooling	A	3.38 (2) / 3.28 (3) / 3.17 (4)	4.84 (2) / 4.61 (3) / 4.39 (4)
		Heating	A	3.30 (2) / 3.20 (3) / 3.10 (4)	4.30 (2) / 4.10 (3) / 3.90 (4)
Nominal efficiency	EER			4.15 (5)	3.70 (5)
	COP			4.52 (5)	4.76 (5)
	Annual energy consumption		kWh	301	473
	Energy label	Cooling		A	
		Heating		A	

Notes

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

(2) 220V

(3) 230V

(4) 240V

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

2 Specifications

2-2 Technical Specifications					ARXS25L3		ARXS35L3	
Capacity control	Method				Inverter controlled			
Casing	Colour				Ivory white			
Dimensions	Unit	Height		mm	550			
		Width		mm	765			
		Depth		mm	285			
	Packed unit	Height		mm	612			
		Width		mm	906			
		Depth		mm	364			
Weight	Unit			kg	34			
	Packed unit			kg	37			
Packing	Weight			kg	3			
Heat exchanger	Length			mm	805			
	Rows	Quantity			2			
	Fin pitch			mm	1.4			
	Stages	Quantity			24			
	Tube type			ø7 Hi-XD				
	Fin	Type			Waffle louvered fin			
	Compressor	Model				1YC23AWXDC		
Type				Hermetically sealed swing compressor				
Output			W	600	1,100			
Fan		Type				Propeller fan		
	Air flow rate	Cooling	High	m³/min	33.5		36.0	
				cfm	1,183		1,271	
			Super low	m³/min	30.1			
				cfm	1,063			
		Heating	High	m³/min	28.3		999	
				cfm	25.6		904	
			Super low	m³/min	25.6			
				cfm	904			
Fan motor	Model				ARW34W8P50DA			
	Output			W	50			
	Speed	Cooling	High	rpm	860		920	
			Super low	rpm	780			
		Heating	High	rpm	860			
			Super low	rpm	740			
Sound power level	Cooling			dBA	59		61	
	Heating			dBA	59		61	
Sound pressure level	Cooling	High		dBA	46		48	
		Low		dBA	-		44	
		Silent operation		dBA	43		-	
	Heating	High		dBA	47		48	
		Low		dBA	44		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	1.0		1.2	
				TCO?eq	2.1		2.5	
	GWP				2,087.5			
Refrigerant oil	Type				FVC50K			
	Charged volume			l	0.375			

2 Specifications

2-2 Technical Specifications				ARXS25L3	ARXS35L3
Piping connections	Liquid	OD	mm	6.35	
	Gas	OD	mm	9.5	
	Drain	ID	mm	-	
		OD	mm	18	
	Piping length	OU - IU	Max. m	20	
		System	Chargeless m	10	
	Additional refrigerant charge		kg/m	0.02 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max. m	15	
Heat insulation				Both liquid and gas pipes	

2-3 Electrical Specifications				ARXS25L3	ARXS35L3
Power supply	Name			V1	
	Phase			1~	
	Frequency		Hz	50	
	Voltage		V	220-240	
Current	Nominal running current (RLA)	Cooling	A	3.19 (1) / 3.10 (2) / 3.00 (3)	4.72 (1) / 4.49 (2) / 4.28 (3)
		Heating	A	2.61 (1) / 2.52 (2) / 2.43 (3)	4.17 (1) / 3.97 (2) / 3.78 (3)
	Starting current	Cooling	A	3.3	4.3
		Heating	A	3.3	4.3
Current - 50Hz	Maximum fuse amps (MFA)		A	10	
Current - 60Hz	Maximum fuse amps (MFA)		A	-	

Notes

(1) 220V

(2) 230V

(3) 240V

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

ARXS25L3

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	A	B	C	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
ATXS25K3V1B	ARXS25L3V1B	50	220	MAX. 50 Hz 264V	8	10	47	2,82	0,023	0,24	0,016	0,19
		50	230					2,70		0,23		0,18
		50	240	MIN. 50Hz 198V				2,59		0,22		0,17

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

A Hz
B Voltage
C Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]

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ARXS35L3

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	A	B	C	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
ATXS35K3V1B	ARXS35L3V1B	50	220	MAX. 50 Hz 264V	8,8	10	68	3,80	0,023	0,23	0,023	0,15
		50	230	3,60								
		50	240	MIN. 50Hz 198V				3,40				

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

A Hz
B Voltage
C Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATXS25K3V1B + ARXS25L3V1B

AFR	9,1
BF	0,24

Cooling 220-240V 50Hz

A	B	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
20	14	2,28	1,82	0,41	2,28	1,82	0,46	2,28	1,82	0,52	2,28	1,82	0,54	2,21	1,79	0,56	2,10	1,73	0,61
22	16	2,68	1,92	0,44	2,56	1,87	0,48	2,44	1,82	0,52	2,40	1,80	0,54	2,33	1,76	0,57	2,21	1,71	0,61
25	18	2,79	2,02	0,44	2,68	1,97	0,48	2,56	1,92	0,53	2,51	1,90	0,54	2,44	1,88	0,57	2,33	1,83	0,61
27	19	2,85	2,14	0,44	2,73	2,09	0,49	2,62	2,05	0,53	2,57	2,03	0,54	2,50	2,00	0,57	2,38	1,95	0,61
30	22	3,02	2,07	0,45	2,91	2,03	0,49	2,79	1,98	0,53	2,74	1,97	0,55	2,67	1,94	0,57	2,56	1,90	0,62
32	24	3,14	2,02	0,45	3,02	1,98	0,49	2,90	1,94	0,53	2,86	1,92	0,55	2,79	1,90	0,58	2,67	1,87	0,62

AFR	10,0
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Heating 220-240V 50Hz

A	D											
	-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,33	0,39	1,60	0,41	1,87	0,43	2,52	0,56	2,90	0,59	3,15	0,61
20	1,25	0,40	1,52	0,42	1,79	0,44	2,42	0,57	2,80	0,60	3,05	0,62
22	1,22	0,40	1,49	0,43	1,76	0,45	2,38	0,57	2,76	0,61	3,01	0,63
24	1,19	0,41	1,45	0,43	1,72	0,45	2,34	0,58	2,72	0,61	2,98	0,63
25	1,17	0,41	1,44	0,43	1,71	0,45	2,32	0,58	2,70	0,61	2,96	0,63
27	1,14	0,42	1,41	0,44	1,67	0,45	2,29	0,59	2,66	0,62	2,92	0,64

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

TC: Total capacity [kW]

PI: Power input [kW]

SHC: Sensible heat capacity [kW]

AFR: Air flow rate [m³/min]

BF: Bypass factor

A Indoor air temperature [°C DB]

B Indoor air temperature [°C WB]

C Outdoor air temperature
[°C DB]

D Outdoor air temperature
[°C WB]

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4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATXS35K3V1B + ARXS35L3V1B

AFR	11,2
BF	0,12

Cooling 220-240V 50Hz

A	B	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
20	14	3,24	2,59	0,63	3,24	2,59	0,72	3,24	2,59	0,79	3,19	2,57	0,81	3,10	2,52	0,85	2,93	2,44	0,91
22	16	3,75	2,71	0,67	3,58	2,64	0,73	3,42	2,56	0,79	3,36	2,53	0,82	3,26	2,49	0,85	3,10	2,42	0,92
25	18	3,91	2,85	0,67	3,75	2,78	0,73	3,58	2,72	0,80	3,52	2,69	0,82	3,42	2,65	0,86	3,26	2,58	0,92
27	19	3,99	3,02	0,67	3,83	2,96	0,74	3,66	2,89	0,80	3,60	2,86	0,82	3,50	2,82	0,86	3,34	2,76	0,92
30	22	4,23	2,92	0,68	4,07	2,86	0,74	3,90	2,80	0,80	3,84	2,78	0,83	3,74	2,75	0,87	3,58	2,69	0,93
32	24	4,39	2,85	0,68	4,23	2,79	0,75	4,07	2,74	0,81	4,00	2,72	0,83	3,90	2,69	0,87	3,74	2,64	0,93

AFR	12,1
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Heating 220-240V 50Hz

A	D											
	-15		-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,90	0,54	2,29	0,57	2,67	0,60	3,60	0,78	4,14	0,82	4,50	0,85
20	1,79	0,56	2,17	0,58	2,56	0,61	3,46	0,80	4,00	0,84	4,36	0,87
22	1,74	0,56	2,12	0,59	2,51	0,62	3,40	0,81	3,94	0,85	4,31	0,88
24	1,69	0,57	2,08	0,60	2,46	0,62	3,35	0,81	3,89	0,86	4,25	0,88
25	1,67	0,57	2,05	0,60	2,44	0,63	3,32	0,82	3,86	0,86	4,22	0,89
27	1,62	0,58	2,01	0,60	2,39	0,63	3,26	0,82	3,81	0,87	4,17	0,89

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]

Symbols

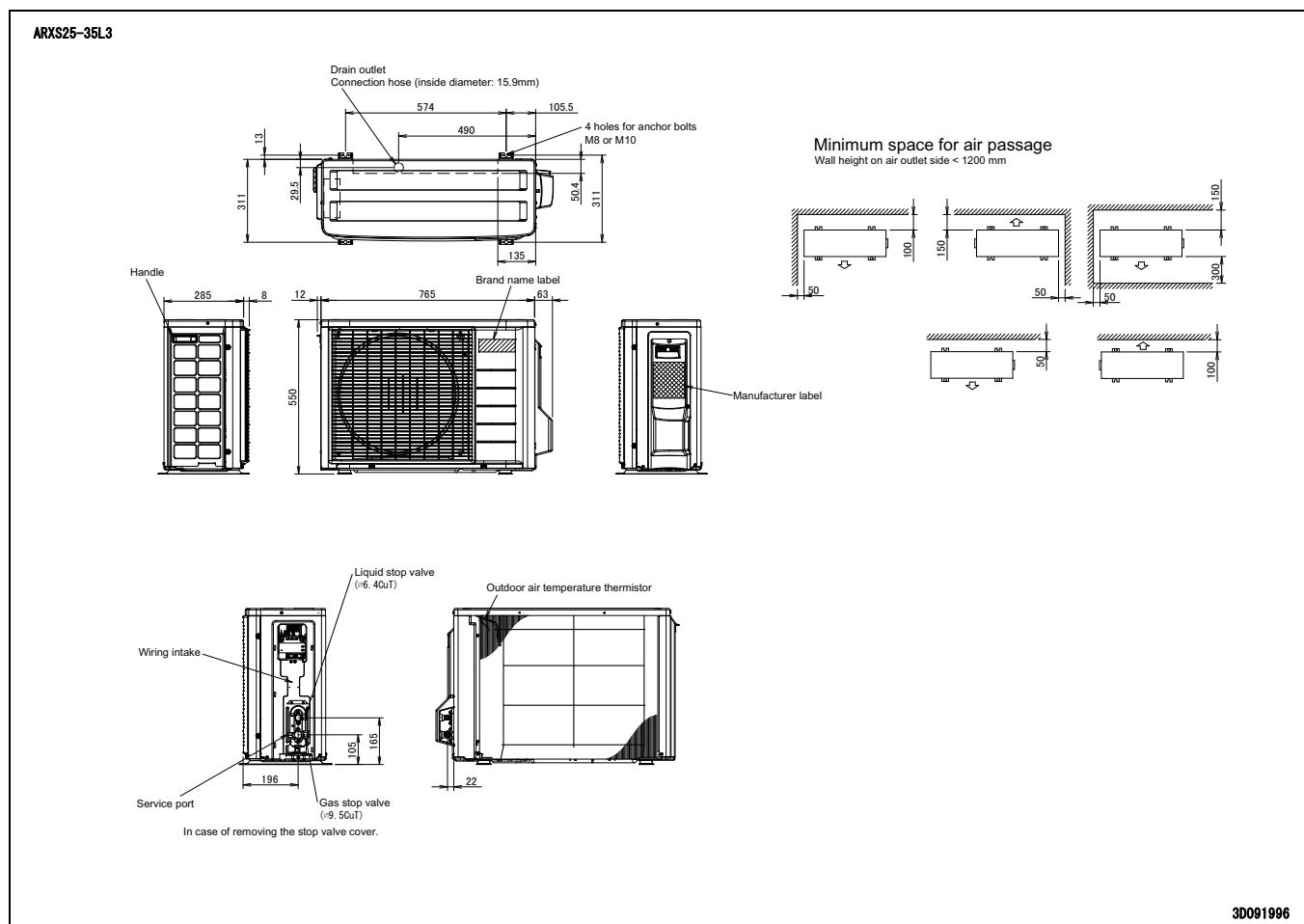
TC: Total capacity [kW]
PI: Power input [kW]
SHC: Sensible heat capacity [kW]
AFR: Air flow rate [m³/min]
BF: Bypass factor

A Indoor air temperature [°C DB]
B Indoor air temperature [°C WB]
C Outdoor air temperature [°C DB]
D Outdoor air temperature [°C WB]

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5 Dimensional drawings

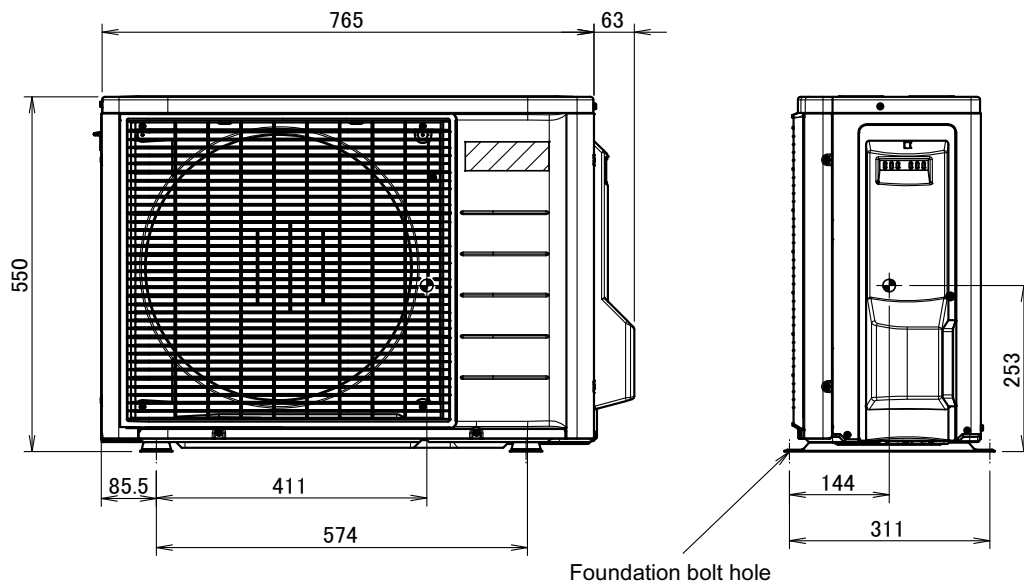
5 - 1 Dimensional Drawings



6 Centre of gravity

6 - 1 Centre of Gravity

ARXS25-35L3

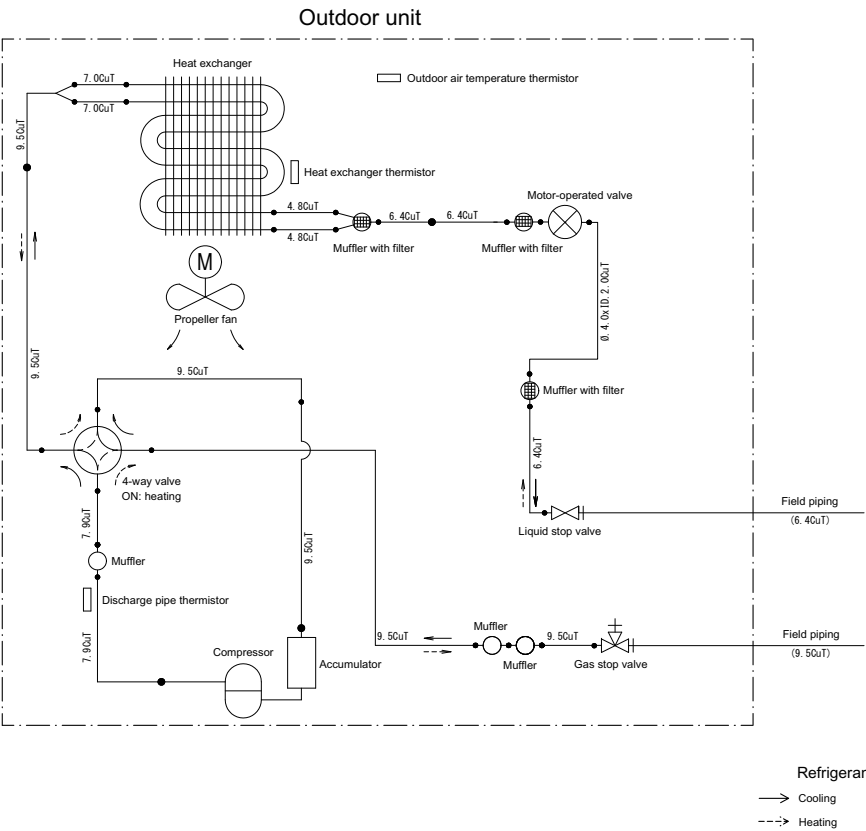


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7 Piping diagrams

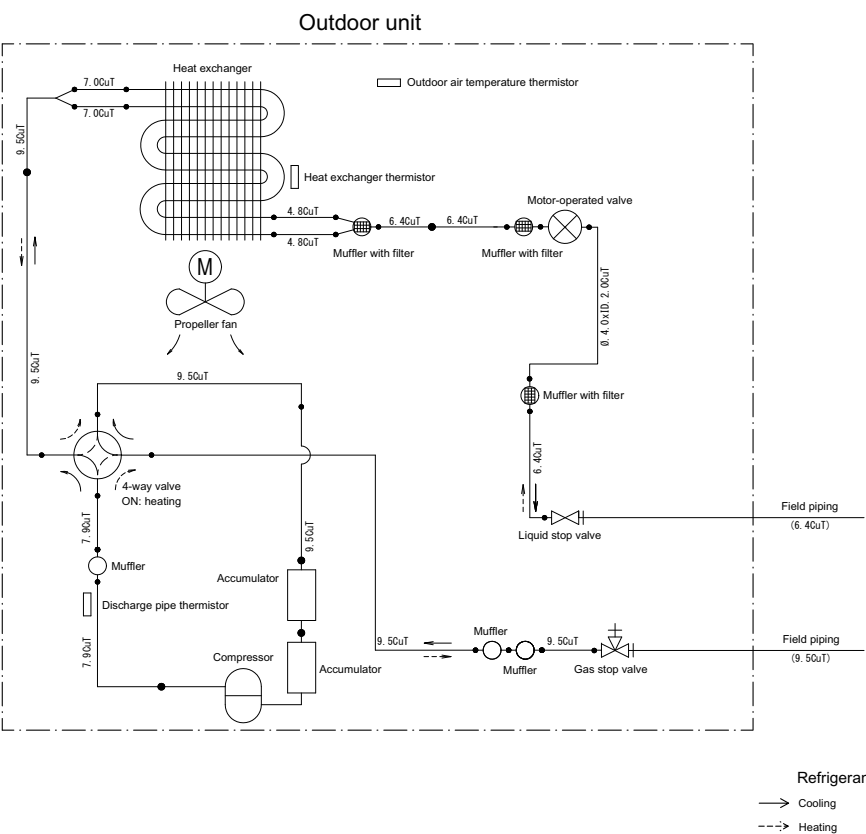
7 - 1 Piping Diagrams

ARXS25L3



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ARXS35L3

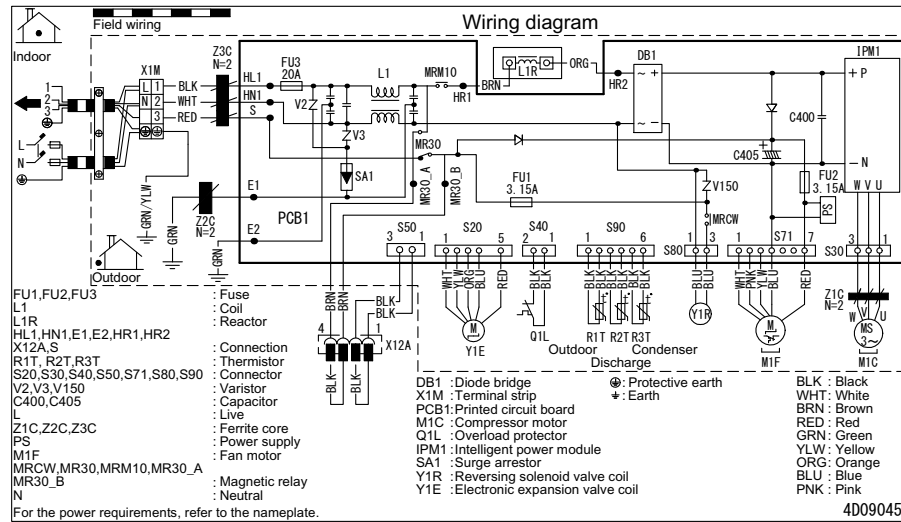


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8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

ARXS25-35L3



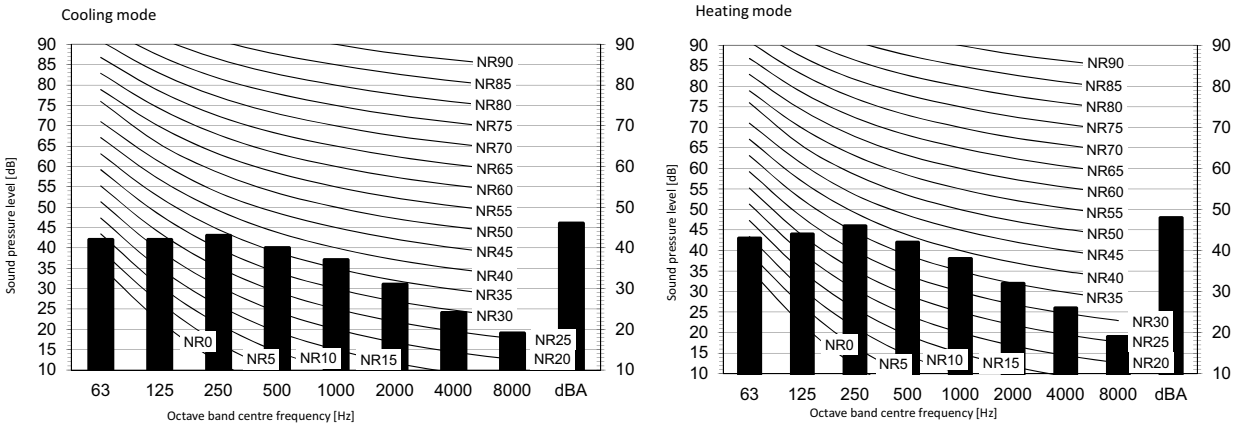
Notes

1. Size: length 80 X width 140.
2. Refer to purchasing specification AS303002, unless otherwise specified.

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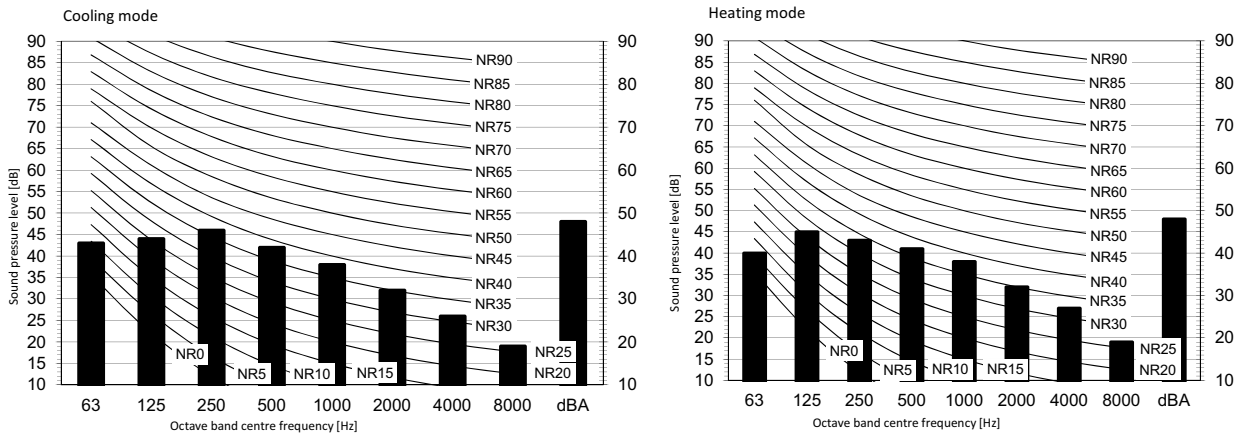
9 Sound data
9 - 1 Sound Pressure Spectrum

ARXS20L3



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ARXS35L3

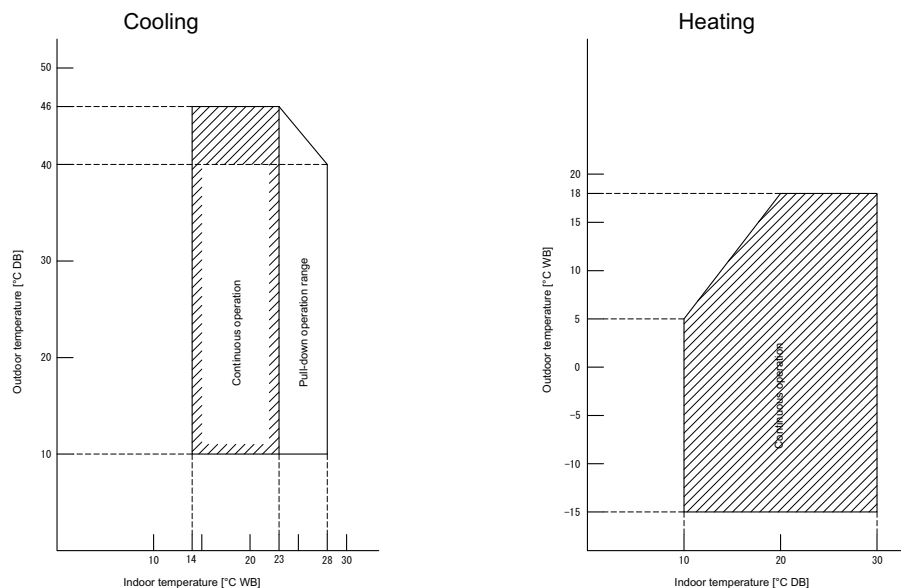


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10 Operation range

10 - 1 Operation Range

ARX25-35L3



Notes

The graphs is based on the following conditions.
 Corresponding refrigerant piping length: 5 m
 Level difference: 0m
 Air flow rate High

3D091961



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