

Air Conditioning Technical Data ARXC-E



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ARXC-E

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1 Features

1 - 1 ARXC-E

- › Flat, stylish front panel blends easily within any interior décor and is easier to clean
- › Onecta: control your indoor from any location with an app, via your local network or internet
- › Seasonal efficiency values up to A++ in cooling



Inverter

2 Specifications

2 - 1 Specifications

Technical specifications			ATXC20E + ARXC20E	ATXC25E + ARXC25E	ATXC35E + ARXC35E	ATXC50E + ARXC50E	ATXC60E + ARXC60E	ATXC71E + ARXC71E
Indoor unit			ATXC20EV1B	ATXC25EV1B	ATXC35EV1B	ATXC50EV1B	ATXC60EV1B	ATXC71EV1B
Outdoor unit			ARXC20EV1B	ARXC25EV1B	ARXC35EV1B	ARXC50EV1B	ARXC60EV1B	ARXC71EV1B
Cooling capacity	Min.	kW	1.3			1.37	1.8	2.3
	Min.	Btu/h	4,400			4,700	6,100	7,800
	Rated	kW	2.0	2.56	3.5	5.1	6.23	7.1
	Rated	Btu/h	6,800	8,700	11,900	17,400	21,300	24,200
	Max.	kW	3.0			6.2	7.0	7.3
	Max.	Btu/h	10,200			21,200	23,900	24,200
Heating capacity	Min.	kW	1.3			1.36	1.48	2.3
	Min.	Btu/h	4,400			4,600	5,000	7,800
	Rated	kW	2.5	2.84	4.0	5.62	6.4	8.0
	Rated	Btu/h	8,500	9,700	13,600	19,200	21,800	27,300
	Max.	kW	4.0			6.6	8.0	9.0
	Max.	Btu/h	13,600			22,500	27,300	30,700
Power input	Cooling	Min.	kW		0.315	0.295	0.380	0.440
		Nom.	kW		1.060	1.570	1.915	2.410
		Max.	kW		1.740	2.110	2.045	2.540
	Heating	Min.	kW		0.275	0.270	0.325	0.500
		Nom.	kW		1.075	1.515	1.725	2.490
		Max.	kW		1.570	1.850	2.350	2.640
Nominal efficiency	EER		3.33	3.30		3.25		2.95
	COP		3.73	3.76	3.72	3.71		3.21
	Energy labeling Directive	Cooling	A					C
		Heating	A					C
Space cooling	Energy efficiency class		A++					A
	Capacity	Pdesign kW	2.1	2.6	3.4	5.1	6.2	7.0
	SEER		6.8	6.7	6.8	6.4		5.3
	Annual energy consumption		107	134	177	278	341	464
Space heating (Average climate)	Capacity	Pdesign kW	1.9	2.2		3.9	4.1	6.4
	Energy efficiency class		A+					A
	SCOP/A		4.4		4.3	4.4	4.2	3.8
	Pdh Heating capacity at -10°		1.4	1.6	1.7	3.0	3.5	5.4
	Annual energy consumption		597	708	737	1,249	1,371	2,332
	Required back up heating cap at design conditions		0.5	0.7	0.5	0.9	0.6	1.0
Space heating (Warm climate)	Capacity	Pdesignh kW	2.0	2.1		4.5	5.5	5.8
	Energy efficiency class		A+++					A++
Space heating (Warm climate)	SCOP		5.8		5.7	5.3	5.2	4.6
	Annual energy consumption		489	497	509	1,183	1,483	1,784
	Required back up heating cap at design conditions		0.0					
Space cooling	A Condition (35°C - 27/19)	Pdc kW	2.08	2.57	3.44	5.08	6.21	6.96
		EERd	3.91	3.23	3.22	3.20	3.27	2.66
		Power input kW	0.532	0.796	1.068	1.588	1.899	2.617
	B Condition (30°C - 27/19)	Pdc kW	1.60	1.80	2.41	3.75	4.73	5.21
		EERd	5.70	5.51	5.15	4.80	4.96	4.27
		Power input kW	0.281	0.327	0.468	0.781	0.954	1.220
	C Condition (25°C - 27/19)	Pdc kW	1.29	1.28	1.57	2.29	3.08	3.46
		EERd	9.35	9.00	8.67	7.85	7.99	6.68
		Power input kW	0.138	0.142	0.181	0.292	0.385	0.518
	D Condition (20°C - 27/19)	Pdc kW	1.35		1.31	1.82	2.30	2.22
		EERd	12.34	11.75	12.66	11.65	11.24	7.65
		Power input kW	0.109	0.115	0.103	0.156	0.205	0.290

2 Specifications

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Technical specifications					ATXC20E + ARXC20E		ATXC25E + ARXC25E		ATXC35E + ARXC35E		ATXC50E + ARXC50E		ATXC60E + ARXC60E		ATXC71E + ARXC71E		
Space heating (Average climate)	TOL	Tol (temperature operating limit)			°C	-14											
	TBivalent	Tbiv (bivalent temperature)			°C	-7											
		Pd _h (declared heating cap)			kW	1.65		1.97		1.98		3.45		3.63		5.62	
		COP _d (declared COP)				2.48		2.89		2.44		2.52		2.67		2.52	
		Power input			kW	0.665		0.682		0.811		1.369		1.360		2.230	
	A Condition (-7°C)	Pd _h (declared heating cap)			kW	1.65		1.97		1.98		3.45		3.63		5.62	
		COP _d (declared COP)				2.48		2.89		2.44		2.52		2.67		2.52	
		Power input			kW	0.665		0.682		0.811		1.369		1.360		2.230	
	B Condition (2°C)	Pd _h (declared heating cap)			kW	1.05		1.19		1.26		2.01		2.16		3.33	
		COP _d (declared COP)				4.64		4.40		4.48		4.71		4.36		3.69	
		Power input			kW	0.226		0.270		0.281		0.427		0.495		0.902	
	C Condition (7°C)	Pd _h (declared heating cap)			kW	0.90				0.99		1.58		1.74		2.30	
		COP _d (declared COP)				6.10		6.00		5.78		5.56		5.33		5.11	
		Power input			kW	0.148		0.150		0.171		0.284		0.326		0.450	
	D Condition (12°C)	Pd _h (declared heating cap)			kW			1.11				1.77		1.78		1.80	
		COP _d (declared COP)				7.57		7.42		7.13		7.04		6.67		5.95	
		Power input			kW	0.147		0.150		0.156		0.251		0.267		0.303	
	E condition (-10°C)	Pd _h (declared heating cap)			kW	1.03				1.36		2.37		3.30		5.02	
		COP _d (declared COP)				1.92		1.91		1.92		1.87		2.46		2.38	
		Power input			kW	0.536		0.542		0.708		1.267		1.341		2.109	
Space heating (Warm climate)	TBivalent	Tbiv (bivalent temperature)			°C	2											
		Pd _h (declared heating cap)			kW	2.01		2.05		2.06		4.46		5.53		5.84	
Space heating (Warm climate)	TBivalent	COP _d (declared COP)				3.15				3.41		2.66		2.71		2.60	
		Power input			kW	0.638		0.651		0.604		1.677		2.041		2.246	
	B Condition (2°C)	Pd _h (declared heating cap)			kW	2.01		2.05		2.06		4.46		5.53		5.84	
		COP _d (declared COP)				3.15				3.41		2.66		2.71		2.60	
		Power input			kW	0.638		0.651		0.604		1.677		2.041		2.246	
	C Condition (7°C)	Pd _h (declared heating cap)			kW	1.24		1.26		1.39		2.88		3.65		3.85	
		COP _d (declared COP)				5.87		5.96		5.97		4.89		5.00		4.59	
		Power input			kW	0.211				0.233		0.589		0.730		0.839	
	D Condition (12°C)	Pd _h (declared heating cap)			kW			1.11				1.77		1.78		1.80	
		COP _d (declared COP)				7.59		7.51		7.13		7.04		6.59		5.25	
		Power input			kW	0.146		0.148		0.156		0.251		0.270		0.343	
	Power consumption in other than active mode	Crankcase heater mode	PCK			W	0										
Off mode		POFF			W	2											
Standby mode		Cooling	PSB	W	2												
		Heating	PSB	W	2												
Cooling	C _{dc} (Degradation cooling)				0.25												
Heating	C _{dh} (Degradation heating)				0.25												
Cooling function included					Yes												
Heating function included					Yes												
Average climate included					Yes												
Cold season included					No												
Warm season included					Yes												
Ecolabel logo					No												
Eurovent	Sound power level outdoor	Cooling	Nom.	dB _A	58			60		65		66		69			
	Sound power level indoor	Cooling	Nom.	dB _A	57			58		60		63					
P _{to} (Thermostat off)				W	25			26		34		66					

Electrical specifications				ATXC20E + ARXC20E	ATXC25E + ARXC25E	ATXC35E + ARXC35E	ATXC50E + ARXC50E	ATXC60E + ARXC60E	ATXC71E + ARXC71E
Current	Nominal running current (RLA)	Cooling	A	3.03	3.09	4.27	6.33	7.33	9.18
	Nominal running current (RLA) - 50Hz	Heating	A	2.73	3.04	4.37	5.97	6.51	9.48
Current - 50Hz	Maximum running current		A	6.91		7.93	10.2	11.5	
	Maximum fuse amps (MFA)		A	16					

Technical Specifications					ARXC20E	ARXC25E	ARXC35E	ARXC50E	ARXC60E	ARXC71E
Fan	Running current	Cooling	Standard	A	0.28		0.32	0.38	0.62	0.97
Refrigerant	Charge			tCO2Eq	0.371		0.506	0.675	0.743	0.776
Casing	Colour				Ivory white					
	Material				Sheet metal					

2 Specifications

2 - 1 Specifications

Technical Specifications					ARXC20E	ARXC25E	ARXC35E	ARXC50E	ARXC60E	ARXC71E		
Dimensions	Unit	Height	mm		550			615		695		
		Width	mm		658			845		930		
		Depth	mm		273			300		350		
	Packed unit	Height	mm		610			679		760		
		Width	mm		781			992		1,084		
		Depth	mm		363			414		473		
Weight	Unit	kg		24	26		39		45			
	Packed unit	kg		26	28		42		49			
Packing	Material				EPS-Foam / Corrugated board							
Heat exchanger	Weight				2		4					
	Length				662		627		850		878	
	Rows	Quantity			1		2					
	Fin pitch				18							
	Face area				0.33		0.32		0.5		0.59	
	Stages	Quantity			24		28		32			
	Tube type				Inner Groove							
	Tube material				Copper							
	Tube diameter				7							
	Fin	Type			Aluminium (Corrugated)							
Fan	Treatment				Hydrophilic							
	Type				Propeller fan							
	Discharge direction				Horizontal							
	Quantity				1							
	Air flow rate	Cooling	High	m³/min	26.3	23.8		37.1	46.2	54.7		
Fan motor	cfm				930	840		1,310	1,630	1,930		
	Quantity				1							
	Model				M3SLY10/15F-1			M3SLY20F-1		M3SLY30F-1		
	Index of Protection				24							
	Insulation grade				Class "E"							
	Poles				8							
	Output				26		61		128			
	Drive				Direct drive							
Fan motor	Speed	Cooling	High	rpm	930		900		1,100	800		
Compressor	Quantity				1							
	Model				1GDY25BXD			2YC40GXD				
	Oil Amount				cm³		375		650			
	Type				Hermetic swing							
	Oil Type				FW68DA							
Operation range	Cooling	Ambient	Min.	°CDB	10			-10				
			Max.	°CDB	46							
	Heating	Ambient	Min.	°CWB	-15							
			Max.	°CWB	18							
Sound power level	Cooling	Max	dBA		58	60		65	66	69		
Sound pressure level	Cooling	High	dBA		45	46		51	54			
Refrigerant	Type				R-32							
	Charge				kg	0.55	0.75	1	1.1	1.15		
	Charge				tCO2Eq	0.371	0.506	0.675	0.743	0.776		
	Control				EXV							
	GWP				675							
Piping connections	Liquid	Type			Flare connection							
		OD			mm		6.4					
	Gas	Quantity			1							
		Type			Flare connection							
		OD			mm		9.52	12.7				
	Drain	Quantity			1							
		Type			Drain Joint							
		OD			mm		16					
	Piping length	OU - IU	Min.	m				3				
			Max.	m	20		30					
		System	Chargeless	m	7.5							
	Additional refrigerant charge				kg/m						0,017 (for piping length exceeding 7.5m)	
	Level difference	IU - OU	Max.	m	15			20				
	Heat insulation				Both liquid and gas pipes							
Defrost method				Temperature								
Defrost control				Outdoor heat exchanger and ambient sensor								
Capacity control				Method						Inverter controlled		

2 Specifications

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Electrical Specifications				ARXC20E	ARXC25E	ARXC35E	ARXC50E	ARXC60E	ARXC71E
Power supply	Name			V1					
	Phase			1~					
	Frequency			50					
	Voltage			220-440					
Current	Nominal running current (RLA)	Cooling	A	3.03	3.09	4.27	6.33	7.33	9.18
		Heating	A	2.73	3.04	4.37	5.97	6.51	9.48
	Maximum running current	Cooling	A	6.16		6.68	10.2	10.5	11.5
		Heating	A	6.91		7.93	10.2	11.5	
Wiring connections	For power supply	Quantity			3				
		Remark			3 for power supply, 4 for interunit wiring (including earth wiring)				
	For connection with indoor	Quantity			4				
		Remark			Earth wire included				
Current - 50Hz	Maximum fuse amps (MFA)	Maximum fuse amps (MFA)	A	16					

3 Electrical data

3 - 1 Electrical Data

ATXC-E / ARXC-E

SIESTA

Unit combination restrictions		Power Supply								COMP				OFM				IFM				Power Supply Cable Size (mm ²)	Interconnection Cable Size (mm ²)
Indoor unit	Outdoor unit	①	②	③	MCA		MFA		Cooling		Heating		Cooling		Heating		Cooling		Heating				
					Cooling	Heating	Cooling	Heating	RHz	RLA	RHz	RLA	kW	FLA	kW	FLA	kW	FLA	kW	FLA			
ATXC20DV1B ATXC20EV1B	ARXC20DV1B ARXC20EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	6.16	6.91	16	16	33	3.03	50	2.73	0.026	0.28	0.026	0.28	0.038	0.15	0.038	0.15	1.5	1.5	
ATXC25DV1B ATXC25EV1B	ARXC25DV1B ARXC25EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	6.16	6.91	16	16	47	3.09	55	3.04	0.026	0.28	0.026	0.28	0.038	0.15	0.038	0.15	1.5	1.5	
ATXC35DV1B ATXC35EV1B	ARXC35DV1B ARXC35EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	6.68	7.93	16	16	65	4.27	75	4.37	0.026	0.32	0.026	0.32	0.038	0.16	0.038	0.16	1.5	1.5	
ATXC50DV1B ATXC50EV1B	ARXC50DV1B ARXC50EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	10.20	10.20	16	16	67	6.33	65	5.97	0.061	0.38	0.061	0.49	0.038	0.20	0.038	0.20	2.5	1.5	
ATXC60DV1B ATXC60EV1B	ARXC60DV1B ARXC60EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	10.50	11.50	16	16	76	7.33	79	6.51	0.061	0.62	0.061	0.62	0.038	0.45	0.038	0.45	2.5	1.5	
ATXC71DV1B ATXC71EV1B	ARXC71DV1B ARXC71EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	11.50	11.50	16	16	92	9.18	92	9.48	0.128	0.97	0.128	0.97	0.038	0.45	0.038	0.45	2.5	1.5	

3D140573B

SYMBOLS

①	Hz	
②	Voltage	
③	Voltage range	
MCA	: Minimum circuit ampere	(A)
MFA	: Maximum fuse ampere	(A)
RLA	: Rated load amps	(A)
COMP	: Compressor	
OFM	: Outdoor fan motor	
IFM	: Indoor fan motor	
FLA	: Full load ampere	(A)
kW	: Fan motor rated output	(kW)
RHz	: Rated operating frequency	(Hz)

NOTES

- The RLA is based on the following conditions.
 - Indoor temperatures 27°CDB / 19°CWB
 - Outdoor temperature 35°C DBB
- 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.

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATXC20E / ARXC20E

Cooling: 220 - 240V 50Hz

AFR	10.8
BF	0.28

Indoor Temperature		Outdoor Temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.05	1.97	0.46	1.95	1.91	0.50	1.86	1.85	0.55	1.82	1.83	0.57	1.77	1.78	0.59	1.67	1.72	0.64
16	22	2.14	1.94	0.46	2.05	1.88	0.51	1.95	1.82	0.55	1.92	1.80	0.57	1.86	1.76	0.59	1.77	1.71	0.64
18	25	2.24	2.03	0.47	2.14	1.97	0.51	2.05	1.92	0.55	2.01	1.89	0.57	1.95	1.86	0.60	1.86	1.81	0.64
19	27	2.28	2.13	0.47	2.19	2.07	0.51	2.09	2.02	0.55	2.06	2.00	0.57	2.00	1.97	0.60	1.91	1.92	0.65
22	30	2.42	2.05	0.47	2.33	2.00	0.52	2.23	1.96	0.56	2.19	1.94	0.58	2.14	1.91	0.61	2.05	1.87	0.65
24	32	2.51	2.00	0.47	2.42	1.95	0.52	2.33	1.91	0.56	2.29	1.89	0.58	2.23	1.87	0.61	2.14	1.82	0.65

Heating: 220 - 240V 50Hz

AFR	10.8
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Indoor Temperature		Outdoor Temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		1.19	0.43	1.43	0.45	1.67	0.48	1.91	0.62	2.59	0.66	2.81	0.68
20		1.12	0.44	1.36	0.46	1.60	0.48	1.84	0.64	2.50	0.67	2.73	0.69
22		1.09	0.45	1.33	0.47	1.57	0.49	1.81	0.64	2.46	0.67	2.69	0.70
24		1.06	0.45	1.30	0.48	1.54	0.50	1.78	0.65	2.43	0.68	2.66	0.70
25		1.04	0.45	1.28	0.48	1.53	0.50	1.77	0.65	2.41	0.68	2.64	0.71
27		1.01	0.46	1.26	0.48	1.49	0.50	1.74	0.66	2.38	0.69	2.61	0.71

Applicable Model	
Indoor	Outdoor
ATXC20BV1B	ARXC20BV1B
ATXC20CV1B	ARXC20CV1B
ATXC20DV1B	ARXC20DV1B
ATXC20EV1B	ARXC20EV1B

Symbols

AFR : Air flow rate (m³/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. shows nominal (rated) capacities and power input.
2. TC, PI and SHC must be calculated by interpolation using the figures in the above tables.
3. Capacities are based on the following conditions.
Corresponding refrigerant piping length : 7.5m
Level difference : 0.0m

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ATXC25E / ARXC25E

Cooling: 220 - 240V 50Hz

AFR	10.8
BF	0.17

Indoor Temperature		Outdoor Temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	2.62	2.40	0.59	2.50	2.33	0.65	2.38	2.25	0.71	2.34	2.22	0.73	2.26	2.17	0.77	2.14	2.10	0.82
16	22	2.74	2.36	0.60	2.62	2.29	0.65	2.50	2.22	0.71	2.46	2.19	0.74	2.38	2.15	0.77	2.26	2.08	0.83
18	25	2.86	2.47	0.60	2.74	2.40	0.66	2.62	2.33	0.72	2.57	2.31	0.74	2.50	2.27	0.78	2.38	2.20	0.83
19	27	2.92	2.59	0.60	2.80	2.53	0.66	2.68	2.47	0.72	2.63	2.44	0.74	2.56	2.40	0.78	2.44	2.34	0.84
22	30	3.09	2.50	0.61	2.98	2.44	0.67	2.86	2.39	0.72	2.81	2.37	0.75	2.74	2.33	0.78	2.62	2.27	0.84
24	32	3.21	2.43	0.61	3.09	2.38	0.67	2.98	2.33	0.73	2.93	2.31	0.75	2.86	2.27	0.78	2.74	2.22	0.84

Heating: 220 - 240V 50Hz

AFR	10.8
-----	------

Indoor Temperature		Outdoor Temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		1.35	0.48	1.63	0.51	1.90	0.54	2.18	0.70	2.94	0.74	3.20	0.76
20		1.27	0.50	1.54	0.52	1.82	0.55	2.09	0.72	2.84	0.76	3.10	0.78
22		1.23	0.51	1.51	0.53	1.78	0.55	2.06	0.72	2.80	0.76	3.06	0.79
24		1.20	0.51	1.48	0.54	1.75	0.56	2.02	0.73	2.76	0.76	3.02	0.79
25		1.18	0.51	1.46	0.54	1.73	0.56	2.01	0.74	2.74	0.77	3.00	0.80
27		1.15	0.52	1.43	0.54	1.70	0.57	1.97	0.74	2.70	0.78	2.96	0.80

Applicable Model	
Indoor	Outdoor
ATXC25BV1B	ARXC25BV1B
ATXC25CV1B	ARXC25CV1B
ATXC25DV1B	ARXC25DV1B
ATXC25EV1B	ARXC25EV1B

Symbols

AFR : Air flow rate (m³/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. shows nominal (rated) capacities and power input.
2. TC, PI and SHC must be calculated by interpolation using the figures in the above tables.
3. Capacities are based on the following conditions.
Corresponding refrigerant piping length : 7.5m
Level difference : 0.0m

3D121075C

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATXC35E / ARXC35E

AFR	11.04
BPF	0.13

Cooling: 220 - 240V 50Hz

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3.59	2.75	0.81	3.42	2.67	0.89	3.26	2.59	0.97	3.19	2.56	1.00	3.10	2.51	1.05	2.93	2.43	1.13
16	22	3.75	2.70	0.82	3.58	2.63	0.89	3.42	2.55	0.98	3.36	2.52	1.01	3.26	2.48	1.05	3.10	2.41	1.13
18	25	3.91	2.84	0.82	3.75	2.77	0.90	3.58	2.70	0.98	3.52	2.67	1.01	3.42	2.63	1.06	3.25	2.56	1.14
19	27	3.99	2.99	0.82	3.83	2.93	0.90	3.66	2.86	0.98	3.60	2.83	1.01	3.50	2.79	1.06	3.34	2.73	1.14
22	30	4.23	2.89	0.83	4.07	2.83	0.91	3.90	2.77	0.99	3.84	2.75	1.02	3.74	2.71	1.07	3.58	2.66	1.15
24	32	4.39	2.82	0.84	4.23	2.76	0.91	4.07	2.71	1.00	4.00	2.69	1.03	3.90	2.66	1.07	3.74	2.60	1.15

Heating: 220 - 240V 50Hz

AFR	11.04
-----	-------

Indoor Temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		1.90	0.69	2.29	0.73	2.67	0.77	3.06	1.00	4.14	1.06	4.50	1.09
20		1.79	0.71	2.17	0.75	2.56	0.78	2.95	1.03	4.00	1.08	4.36	1.11
22		1.74	0.72	2.13	0.76	2.51	0.79	2.90	1.03	3.94	1.09	4.31	1.13
24		1.69	0.73	2.08	0.77	2.46	0.80	2.84	1.05	3.89	1.09	4.25	1.14
25		1.67	0.73	2.05	0.77	2.44	0.81	2.83	1.05	3.86	1.10	4.22	1.14
27		1.62	0.74	2.01	0.78	2.39	0.81	2.78	1.06	3.81	1.11	4.17	1.15

Applicable Model	
Indoor	Outdoor
ATXC35DV1B	ARXC35DV1B
ATXC35EV1B	ARXC35EV1B

Symbols

AFR Air Flow rate (m3/min)

BPF Bypass factor

EWB Entering Wet Bulb (°C)

EDB Entering Dry Bulb (°C)

TC Total Capacity (kW)

SHC Sensible Heat Capacity (kW)

PI Power Input (kW)

NOTES:

1) Shows nominal(rated) capacities and power input

2) TC, SHC and PI must be calculated by interpolation using the figures in the above table

3) Capacities are based on the following condition

Corresponding refrigerant piping length :7.5m

Level difference :0.0m

3D142027A

ATXC50E / ARXC50E

AFR	12.46
BPF	0.13

Cooling: 220 - 240V 50Hz

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.23	3.72	1.20	4.98	3.59	1.32	4.75	3.47	1.43	4.65	3.42	1.48	4.51	3.35	1.56	4.27	3.22	1.67
16	22	5.47	3.65	1.21	5.22	3.53	1.32	4.98	3.41	1.45	4.89	3.37	1.49	4.75	3.30	1.56	4.51	3.18	1.68
18	25	5.70	3.78	1.22	5.47	3.67	1.34	5.22	3.56	1.45	5.13	3.52	1.50	4.98	3.45	1.57	4.74	3.35	1.68
19	27	5.81	3.95	1.22	5.58	3.85	1.34	5.33	3.74	1.45	5.24	3.70	1.50	5.10	3.64	1.57	4.87	3.54	1.69
22	30	6.16	3.80	1.23	5.93	3.71	1.35	5.69	3.61	1.46	5.60	3.58	1.51	5.45	3.52	1.58	5.22	3.43	1.70
24	32	6.40	3.69	1.24	6.16	3.61	1.36	5.93	3.52	1.48	5.83	3.49	1.52	5.69	3.44	1.59	5.45	3.35	1.71

Heating: 220 - 240V 50Hz

AFR	12.46
-----	-------

Indoor Temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		2.67	0.97	3.22	1.02	3.76	1.08	4.30	1.41	5.81	1.49	6.32	1.54
20		2.52	1.00	3.05	1.05	3.59	1.10	4.14	1.45	5.62	1.52	6.13	1.57
22		2.44	1.02	2.99	1.07	3.53	1.12	4.07	1.46	5.54	1.53	6.05	1.58
24		2.38	1.02	2.92	1.08	3.46	1.13	4.00	1.47	5.46	1.54	5.97	1.60
25		2.34	1.03	2.88	1.08	3.43	1.13	3.98	1.48	5.43	1.55	5.93	1.60
27		2.28	1.04	2.82	1.10	3.36	1.14	3.90	1.49	5.35	1.57	5.86	1.62

Applicable Model	
Indoor	Outdoor
ATXC50DV1B	ARXC50DV1B
ATXC50EV1B	ARXC50EV1B

Symbols

AFR Air Flow rate (m3/min)

BPF Bypass factor

EWB Entering Wet Bulb (°C)

EDB Entering Dry Bulb (°C)

TC Total Capacity (kW)

SHC Sensible Heat Capacity (kW)

PI Power Input (kW)

NOTES:

1) Shows nominal(rated) capacities and power input

2) TC, SHC and PI must be calculated by interpolation using the figures in the above table

3) Capacities are based on the following condition

Corresponding refrigerant piping length :7.5m

Level difference :0.0m

3D142028A

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATXC60E / ARXC60E

Cooling: 220 - 240V 50Hz

AFR	20.4
BF	0.13

Indoor Temperature		Outdoor Temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	6.38	4.94	1.46	6.09	4.78	1.61	5.80	4.63	1.75	5.68	4.57	1.80	5.51	4.47	1.90	5.22	4.31	2.04
16	22	6.68	4.86	1.48	6.38	4.70	1.62	6.08	4.56	1.76	5.98	4.51	1.82	5.80	4.41	1.90	5.51	4.28	2.05
18	25	6.96	5.07	1.48	6.68	4.94	1.63	6.38	4.79	1.77	6.27	4.74	1.82	6.08	4.65	1.92	5.79	4.53	2.05
19	27	7.10	5.33	1.48	6.81	5.19	1.63	6.52	5.07	1.77	6.40	5.01	1.82	6.23	4.93	1.92	5.94	4.81	2.07
22	30	7.53	5.13	1.50	7.24	5.01	1.65	6.95	4.90	1.78	6.83	4.86	1.84	6.66	4.78	1.93	6.38	4.67	2.07
24	32	7.82	4.99	1.51	7.53	4.89	1.65	7.24	4.78	1.80	7.12	4.74	1.86	6.95	4.67	1.94	6.66	4.56	2.08

Heating: 220 - 240V 50Hz

AFR	20.4
-----	------

Indoor Temperature		Outdoor Temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		3.04	1.10	3.66	1.16	4.28	1.23	4.90	1.60	6.62	1.69	7.20	1.74
20		2.87	1.14	3.47	1.19	4.09	1.25	4.71	1.64	6.40	1.73	6.98	1.78
22		2.78	1.16	3.40	1.21	4.02	1.27	4.63	1.65	6.31	1.74	6.89	1.80
24		2.71	1.16	3.33	1.23	3.94	1.28	4.55	1.67	6.22	1.75	6.80	1.81
25		2.67	1.17	3.28	1.23	3.91	1.29	4.53	1.68	6.18	1.76	6.75	1.82
27		2.60	1.18	3.21	1.24	3.82	1.30	4.44	1.69	6.09	1.78	6.67	1.83

Applicable Model	
Indoor	Outdoor
ATXC60BV1B	ARXC60BV1B
ATXC60CV1B	ARXC60CV1B
ATXC60DV1B	ARXC60DV1B
ATXC60EV1B	ARXC60EV1B

Symbols

AFR : Air flow rate (m³/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. shows nominal (rated) capacities and power input.
2. TC, PI and SHC must be calculated by interpolation using the figures in the above tables.
3. Capacities are based on the following conditions.
Corresponding refrigerant piping length : 7.5m
Level difference : 0.0m

3D121080C

ATXC71E / ARXC71E

Cooling: 220 - 240V 50Hz

AFR	20.4
BF	0.13

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	7.28	5.05	1.84	6.94	4.89	2.02	6.61	4.73	2.20	6.48	4.67	2.27	6.28	4.57	2.39	5.94	4.41	2.56
16	22	7.61	4.97	1.86	7.27	4.80	2.03	6.93	4.66	2.22	6.81	4.61	2.29	6.61	4.51	2.39	6.28	4.37	2.57
18	25	7.93	5.18	1.87	7.61	5.05	2.05	7.27	4.90	2.22	7.14	4.84	2.30	6.93	4.76	2.41	6.60	4.63	2.58
19	27	8.09	5.45	1.87	7.76	5.31	2.05	7.43	5.18	2.22	7.30	5.12	2.30	7.10	5.04	2.41	6.77	4.92	2.60
22	30	8.58	5.25	1.89	8.26	5.12	2.07	7.92	5.01	2.25	7.79	4.97	2.32	7.59	4.89	2.43	7.27	4.77	2.61
24	32	8.91	5.10	1.91	8.58	5.00	2.08	8.26	4.89	2.27	8.12	4.85	2.34	7.92	4.77	2.44	7.59	4.66	2.62

Heating: 220 - 240V 50Hz

AFR	20.4
-----	------

Indoor Temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15		3.80	1.59	4.58	1.68	5.35	1.77	6.13	2.31	8.27	2.44	9.00	2.52
20		3.58	1.64	4.34	1.72	5.12	1.80	5.89	2.37	8.00	2.49	8.73	2.57
22		3.48	1.67	4.25	1.75	5.02	1.83	5.79	2.38	7.88	2.50	8.62	2.60
24		3.38	1.67	4.16	1.77	4.92	1.85	5.69	2.41	7.78	2.52	8.51	2.62
25		3.34	1.69	4.10	1.77	4.88	1.86	5.66	2.43	7.73	2.54	8.44	2.63
27		3.25	1.70	4.02	1.80	4.78	1.88	5.55	2.44	7.61	2.57	8.34	2.65

Applicable Model	
Indoor	Outdoor
ATXC71BV1B	ARXC71BV1B
ATXC71CV1B	ARXC71CV1B
ATXC71DV1B	ARXC71DV1B
ATXC71EV1B	ARXC71EV1B

Symbols

AFR : Air flow rate (m³/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. shows nominal (rated) capacities and power input.
2. TC, PI and SHC must be calculated by interpolation using the figures in the above tables.
3. Capacities are based on the following conditions.
Corresponding refrigerant piping length : 7.5m
Level difference : 0.0m

3D121398C

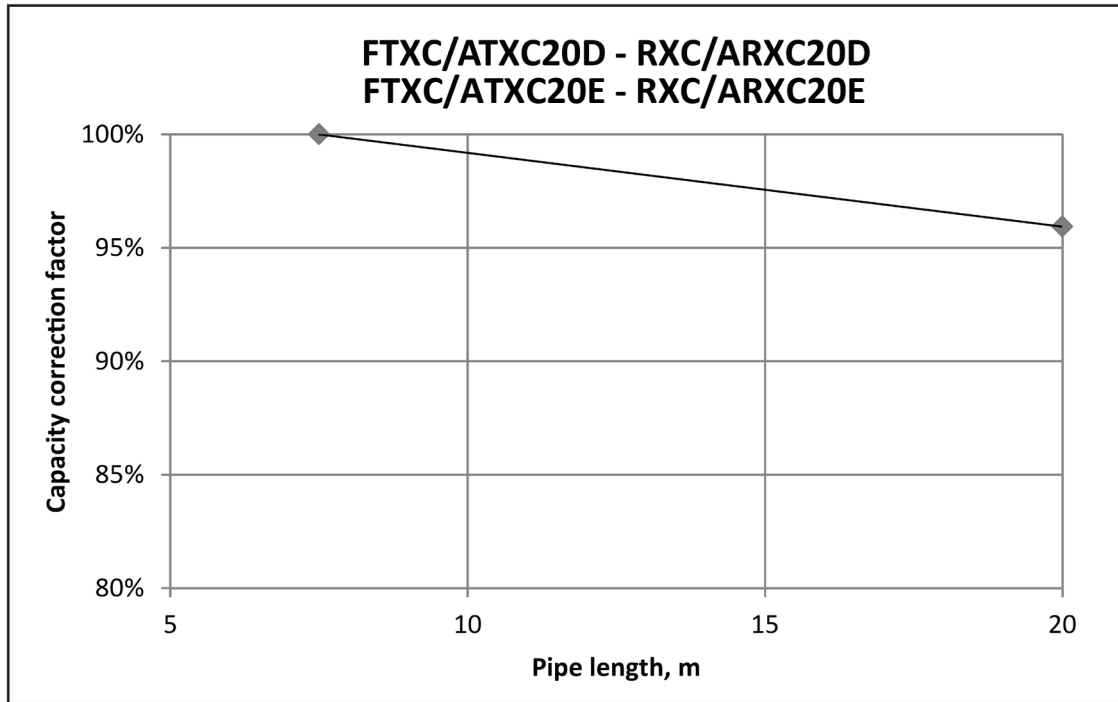
4 Capacity tables

4 - 2 Capacity Correction Factor

ARXC20E

RXC20E

R32 COOLING



NOTE:

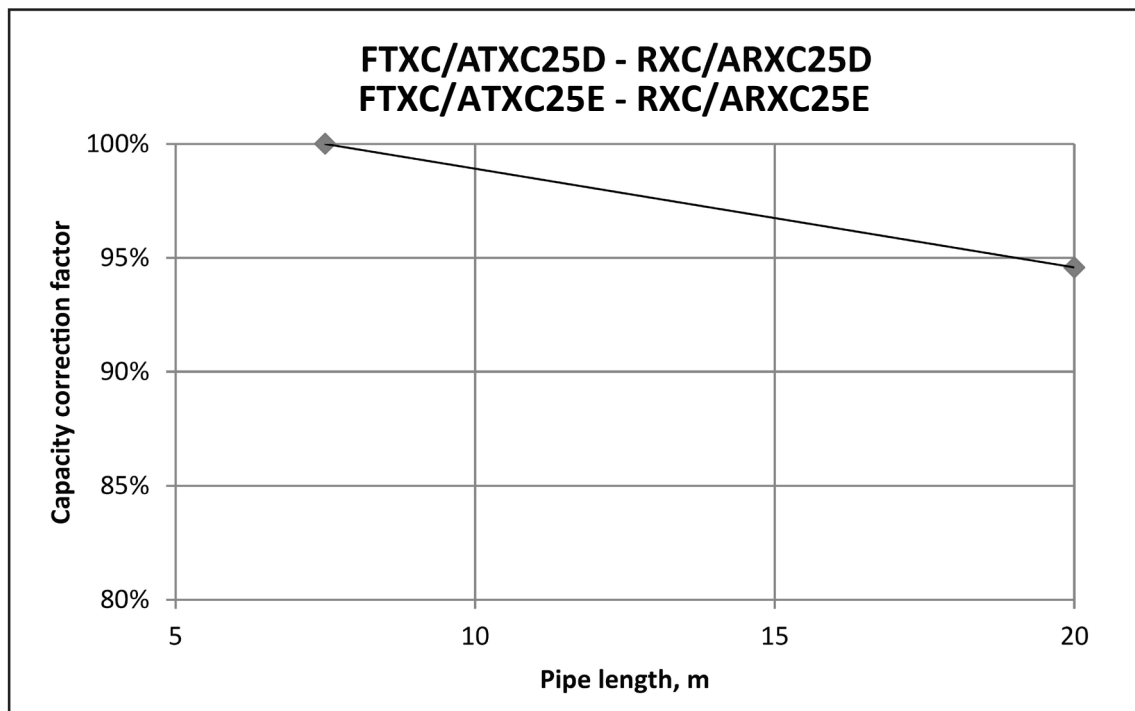
- 1) LINE: CORRECTION RATIO FOR COOLING CAPACITY.
- 2) THE CORRECTION RATIO REMAINS THE SAME WHETHER THE OUTDOOR UNIT IS TO BE INSTALLED ABOVE OR BELOW THE INDOOR UNIT.
- 3) CALCULATION METHOD FOR COOLING CAPACITY:
CAPACITY = COOLING CAPACITY OBTAINED FROM THE CAPACITY TABLE × COOLING CAPACITY CORRECTION RATIO.

3D140616A

ARXC25E

RXC25E

R32 COOLING



NOTE:

- 1) LINE: CORRECTION RATIO FOR COOLING CAPACITY.
- 2) THE CORRECTION RATIO REMAINS THE SAME WHETHER THE OUTDOOR UNIT IS TO BE INSTALLED ABOVE OR BELOW THE INDOOR UNIT.
- 3) CALCULATION METHOD FOR COOLING CAPACITY:
CAPACITY = COOLING CAPACITY OBTAINED FROM THE CAPACITY TABLE × COOLING CAPACITY CORRECTION RATIO.

3D140618B

4 Capacity tables

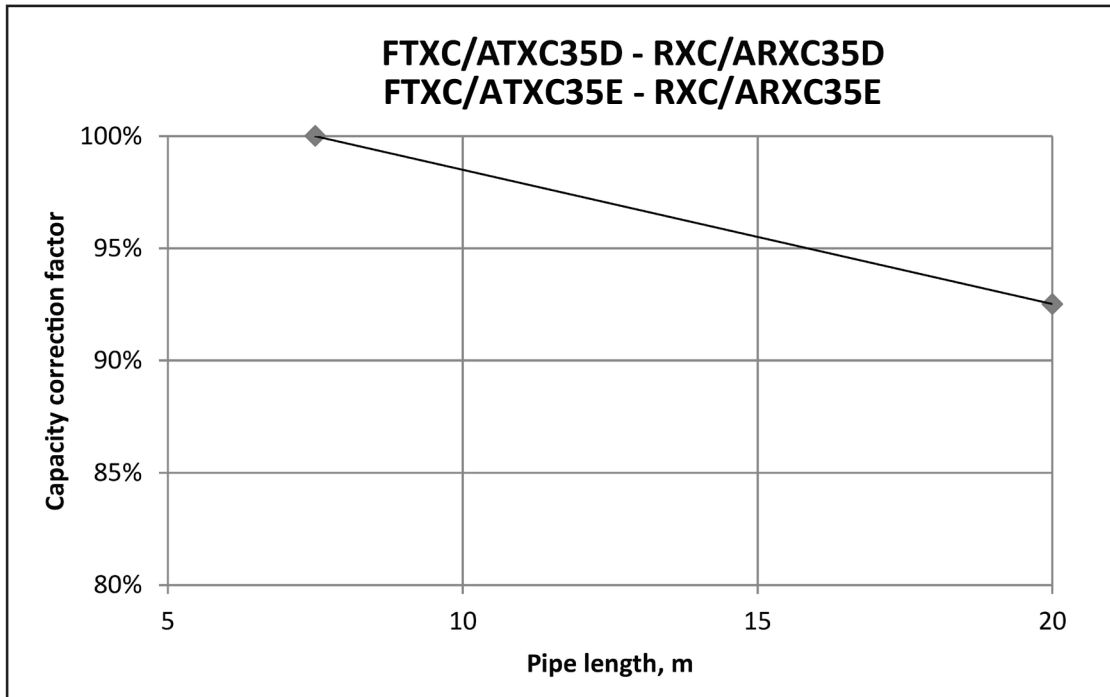
4 - 2 Capacity Correction Factor

4

ARXC35E

RXC35E

R32 COOLING



NOTE:

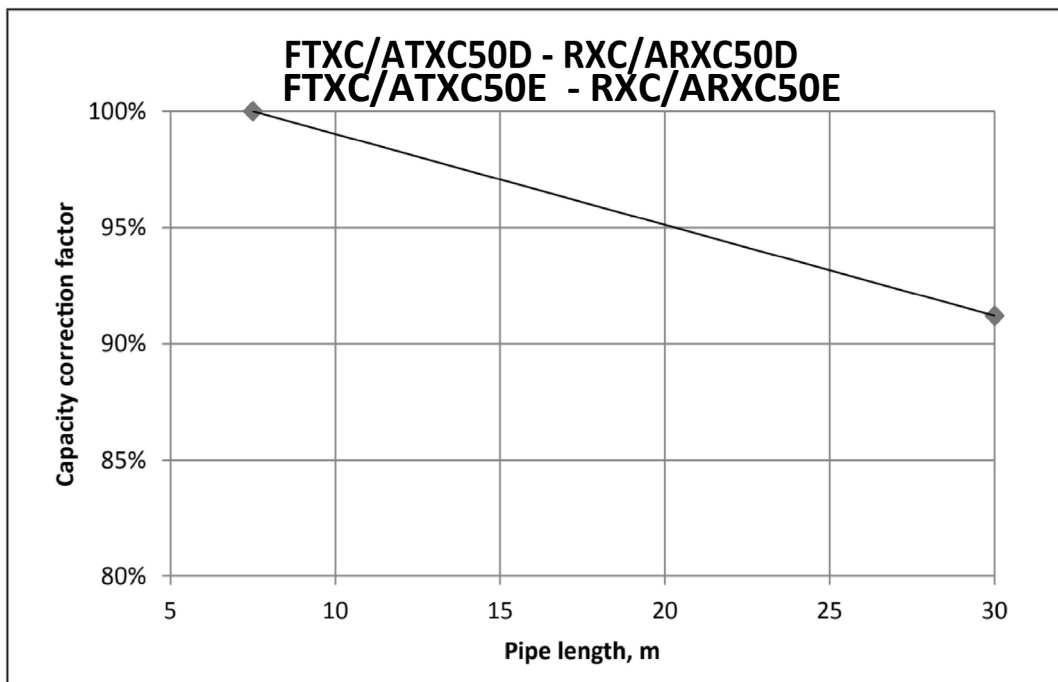
- 1) LINE: CORRECTION RATIO FOR COOLING CAPACITY.
- 2) THE CORRECTION RATIO REMAINS THE SAME WHETHER THE OUTDOOR UNIT IS TO BE INSTALLED ABOVE OR BELOW THE INDOOR UNIT.
- 3) CALCULATION METHOD FOR COOLING CAPACITY.
CAPACITY = COOLING CAPACITY OBTAINED FROM THE CAPACITY TABLE × COOLING CAPACITY CORRECTION RATIO.

3D140617B

ARXC50E

RXC50E

R32 COOLING



NOTE:

- 1) LINE: CORRECTION RATIO FOR COOLING CAPACITY.
- 2) THE CORRECTION RATIO REMAINS THE SAME WHETHER THE OUTDOOR UNIT IS TO BE INSTALLED ABOVE OR BELOW THE INDOOR UNIT.
- 3) CALCULATION METHOD FOR COOLING CAPACITY.
CAPACITY = COOLING CAPACITY OBTAINED FROM THE CAPACITY TABLE × COOLING CAPACITY CORRECTION RATIO.

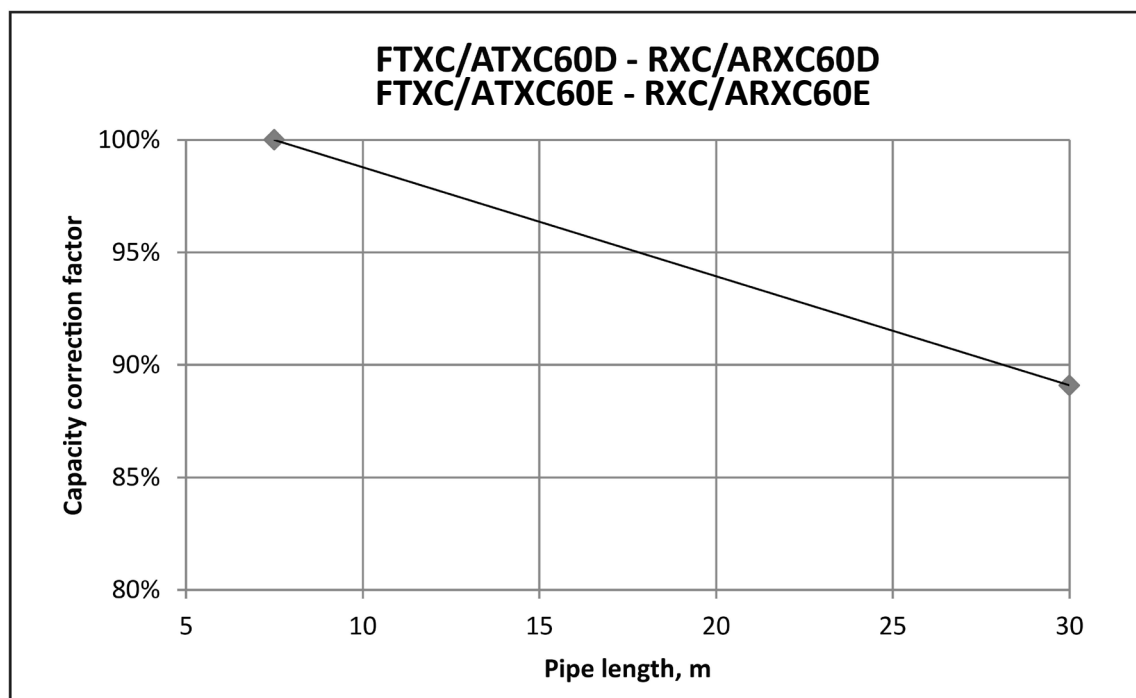
3D140624C

4 Capacity tables

4 - 2 Capacity Correction Factor

ARXC60E

RXC60E R32 COOLING



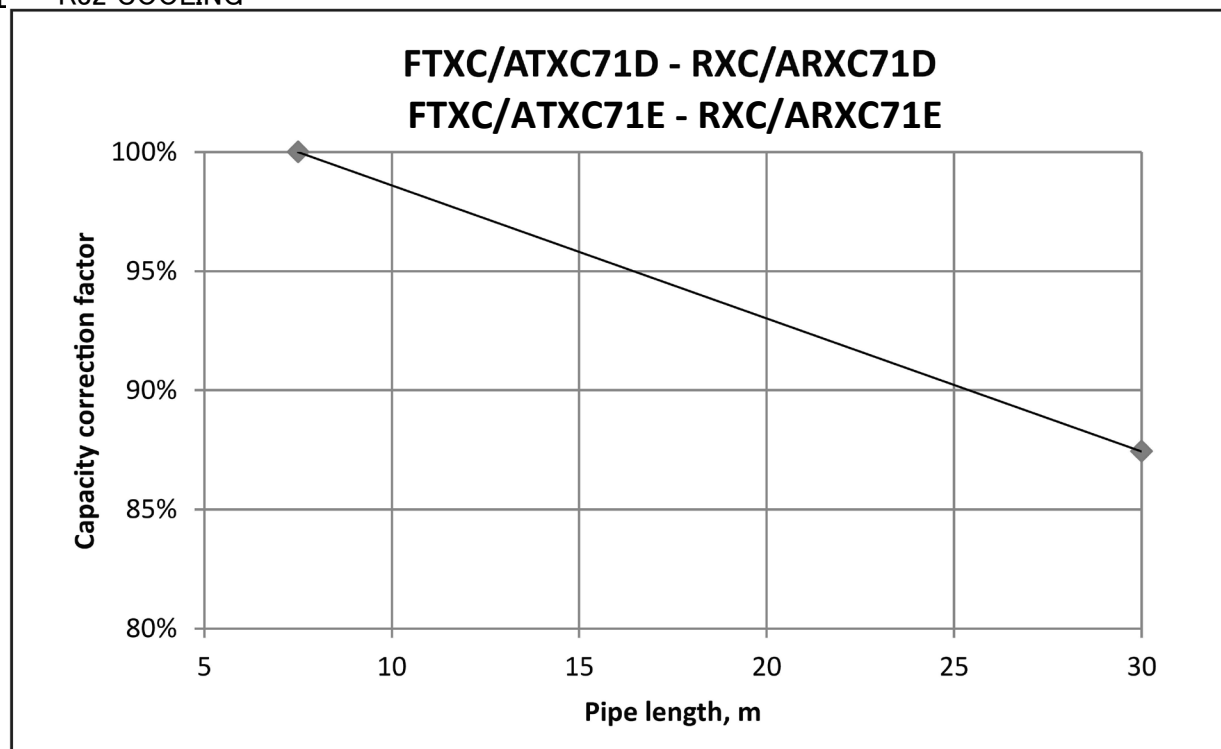
NOTE:

- 1) LINE: CORRECTION RATIO FOR COOLING CAPACITY.
- 2) THE CORRECTION RATIO REMAINS THE SAME WHETHER THE OUTDOOR UNIT IS TO BE INSTALLED ABOVE OR BELOW THE INDOOR UNIT.
- 3) CALCULATION METHOD FOR COOLING CAPACITY.
CAPACITY = COOLING CAPACITY OBTAINED FROM THE CAPACITY TABLE × COOLING CAPACITY CORRECTION RATIO.

3D140660A

ARXC71E

RXC71E R32 COOLING



NOTE:

- 1) LINE: CORRECTION RATIO FOR COOLING CAPACITY.
- 2) THE CORRECTION RATIO REMAINS THE SAME WHETHER THE OUTDOOR UNIT IS TO BE INSTALLED ABOVE OR BELOW THE INDOOR UNIT.
- 3) CALCULATION METHOD FOR COOLING CAPACITY.
CAPACITY = COOLING CAPACITY OBTAINED FROM THE CAPACITY TABLE × COOLING CAPACITY CORRECTION RATIO.

3D140661B

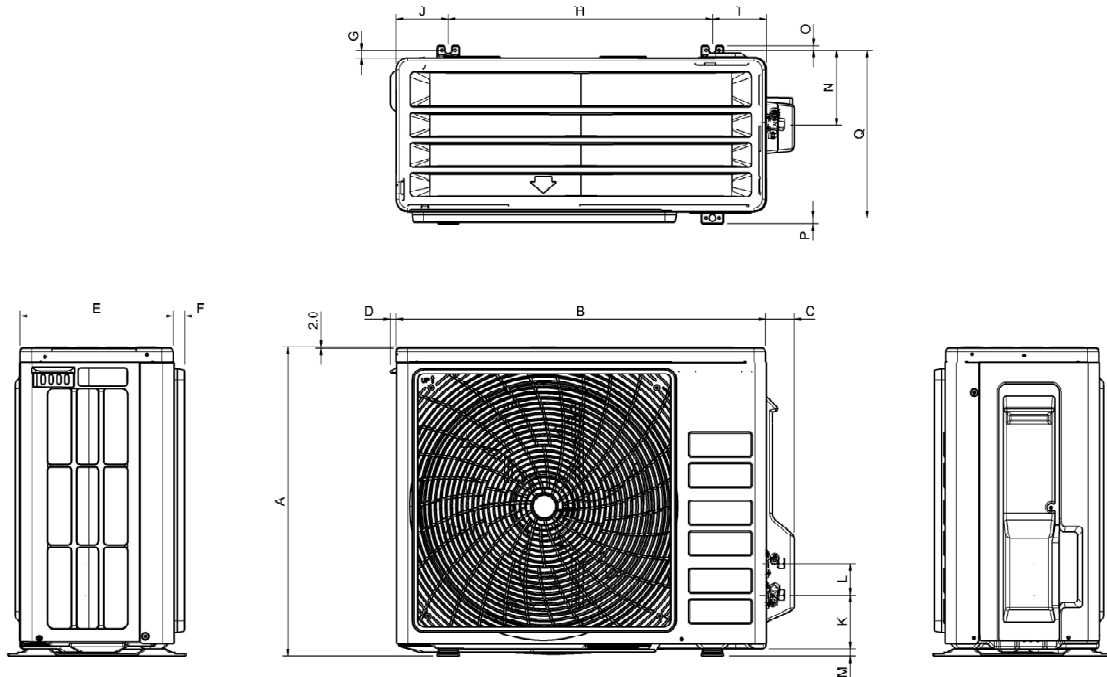
5 Dimensional drawings

5 - 1 Dimensional Drawings

RXC20-35E

ARXC20-35E

5

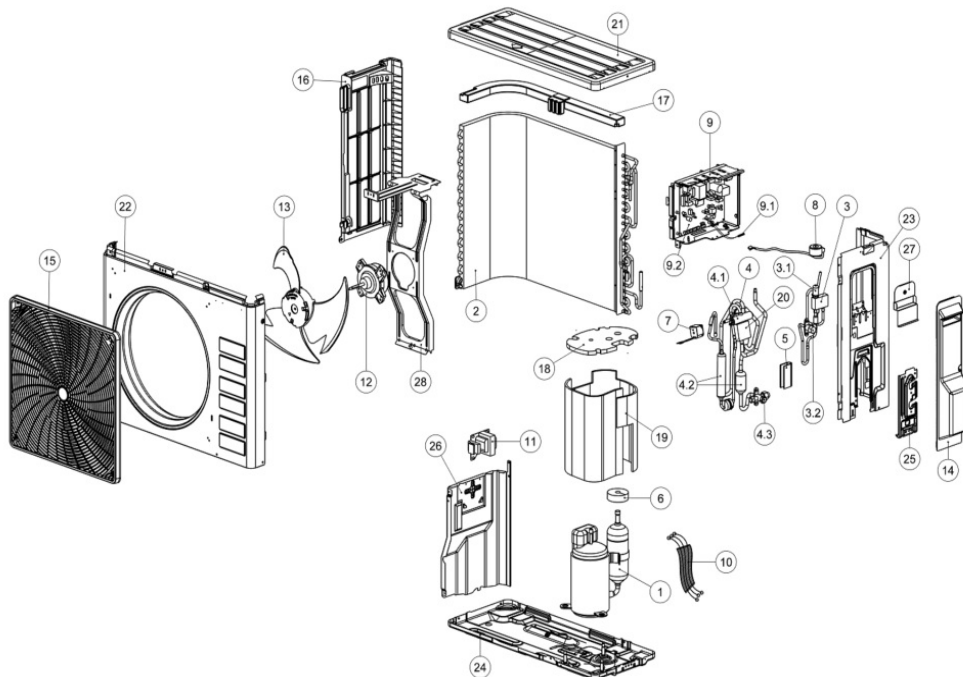


MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
3SLY 10/15 FR	550	658	51	11	273	20	14	470	96	93	94	60	14	133	8	10	299

R70014157623

ARXC20-35E

RXC20-35E



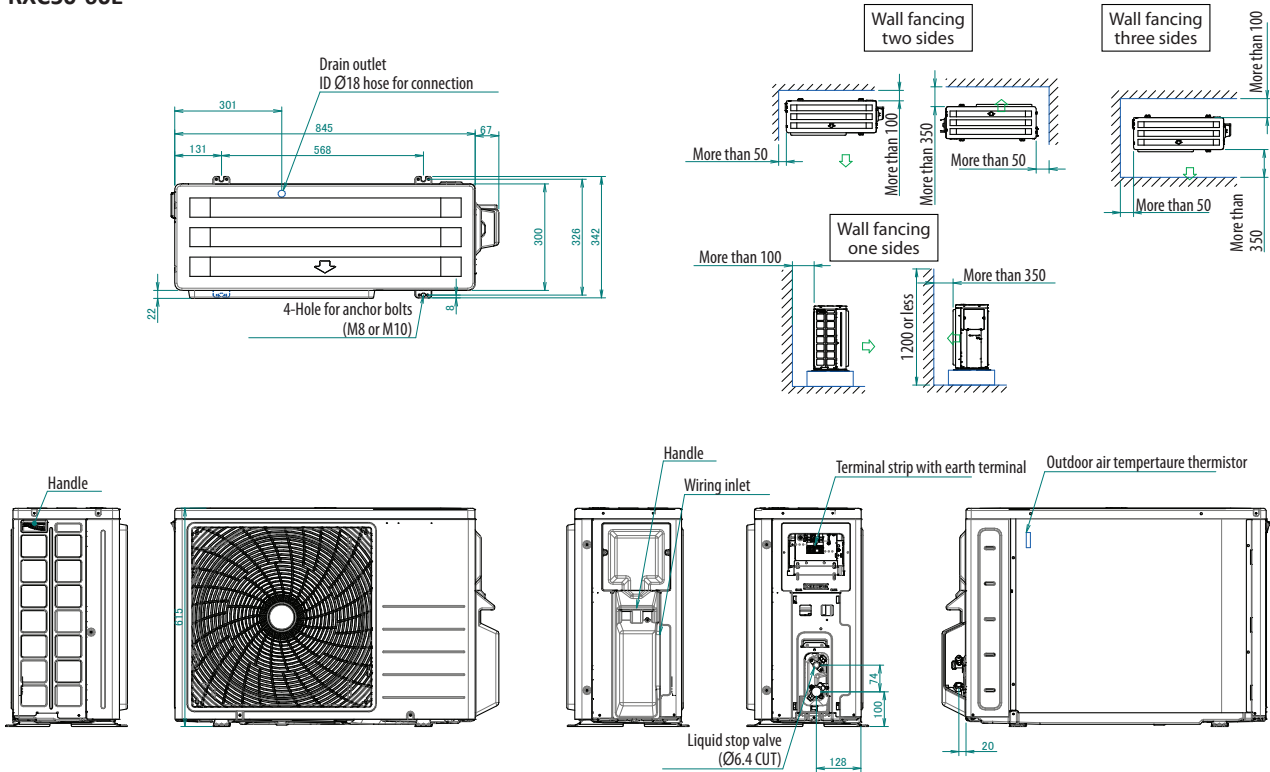
No	Description
1	Compressor
2	Terminal cover
3	Overload relay mounting plate
4	Heat exchanger assy
5	Gas stop valve assy
6	Liquid stop valve assy
7	Motor operated valve assy
8	Four way valve assy
9	Four way valve coil assy
10	El. compo. assy
10.1	Control module
10.2	Outdoor thermistor
10.3	Harness wire
11	Wire harness (compressor)
12	Motor operated valve coil
13	DC fan motor
14	Propeller fan assy
15	Bottom frame assy
16	Top plate assy
17	Right side plate
18	Left side plate
19	Front plate assy
20	Sound insulation (sleeve)
21	Sound insulation (top)
22	Partition plate
23	Fan motor stand assy
24	Stop valve cover
25	Stop valve mounting plate
26	Service cover assy
27	Disch. grille
28	Rubber grommet

R70024164105

5 Dimensional drawings

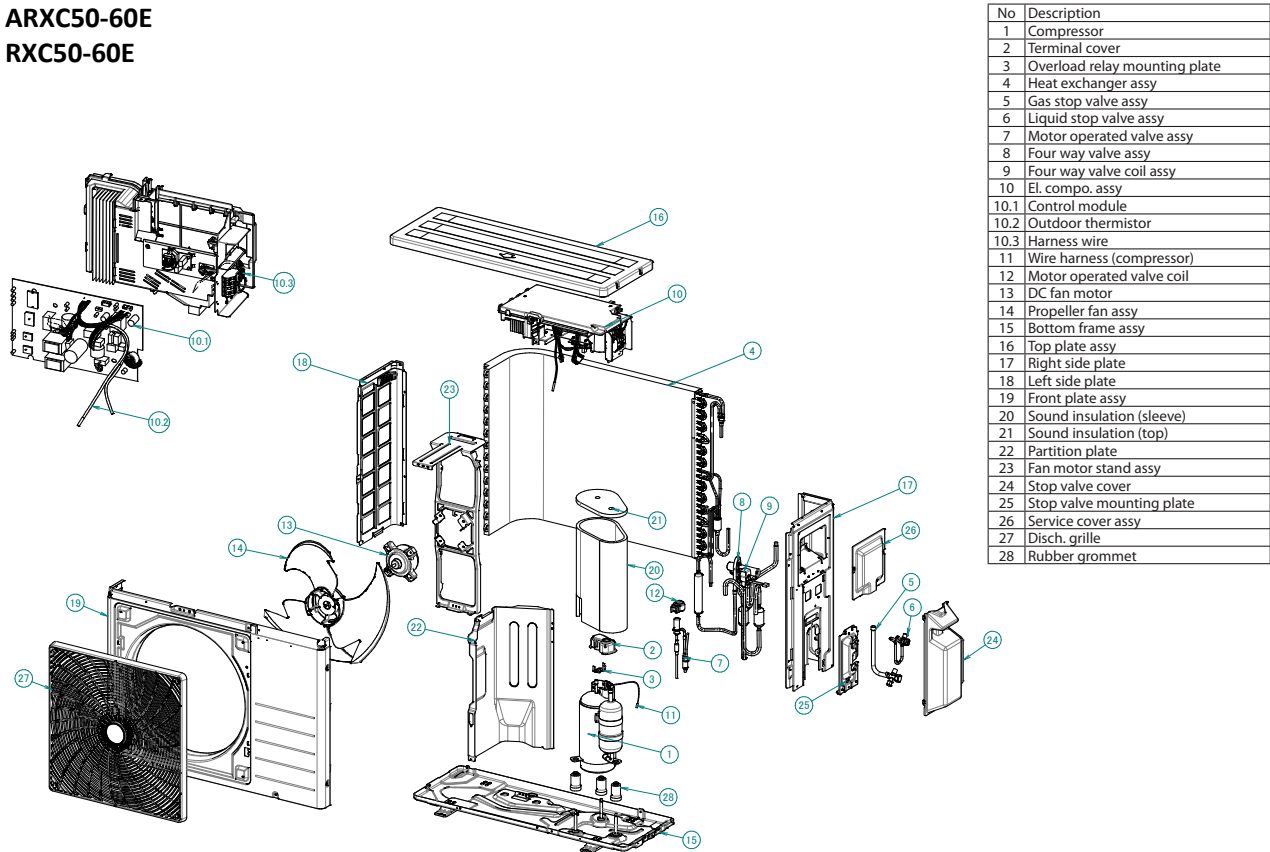
5 - 1 Dimensional Drawings

ARXC50-60E
RXC50-60E



3D117130N

ARXC50-60E
RXC50-60E



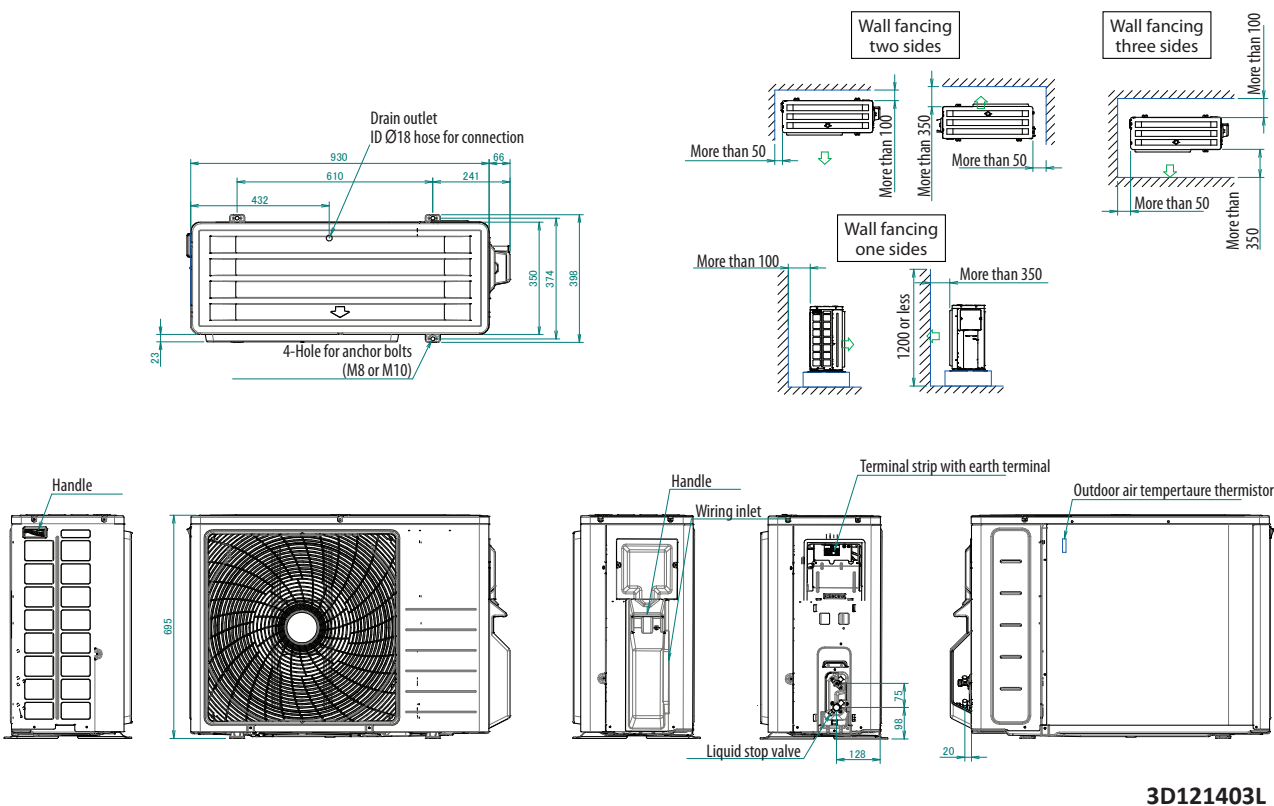
3D120767C

5 Dimensional drawings

5 - 1 Dimensional Drawings

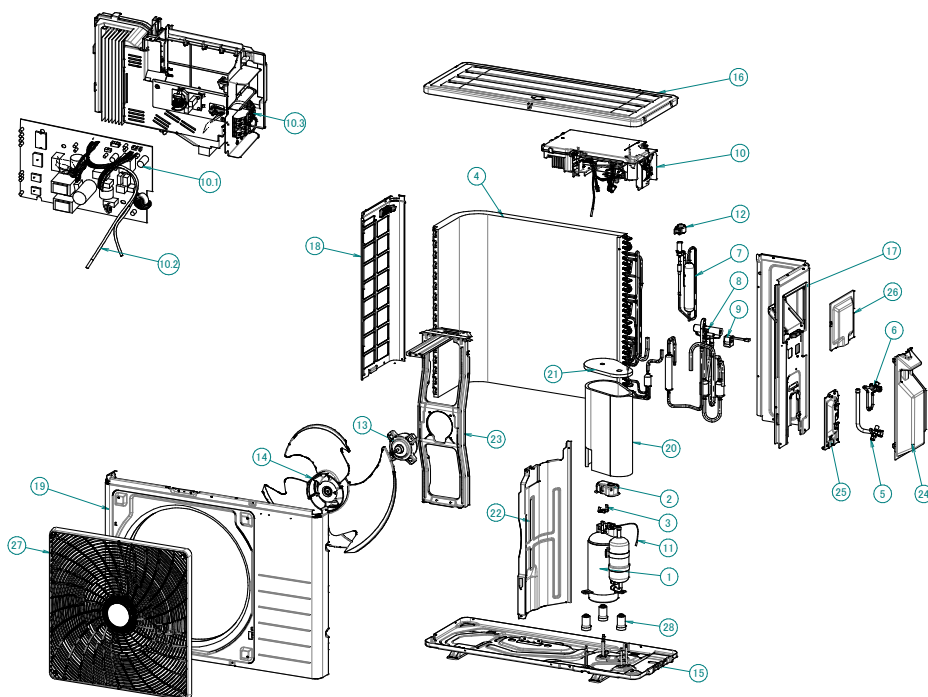
ARXC71E
RXC71E

5



3D121403L

ARXC71E
RXC71E



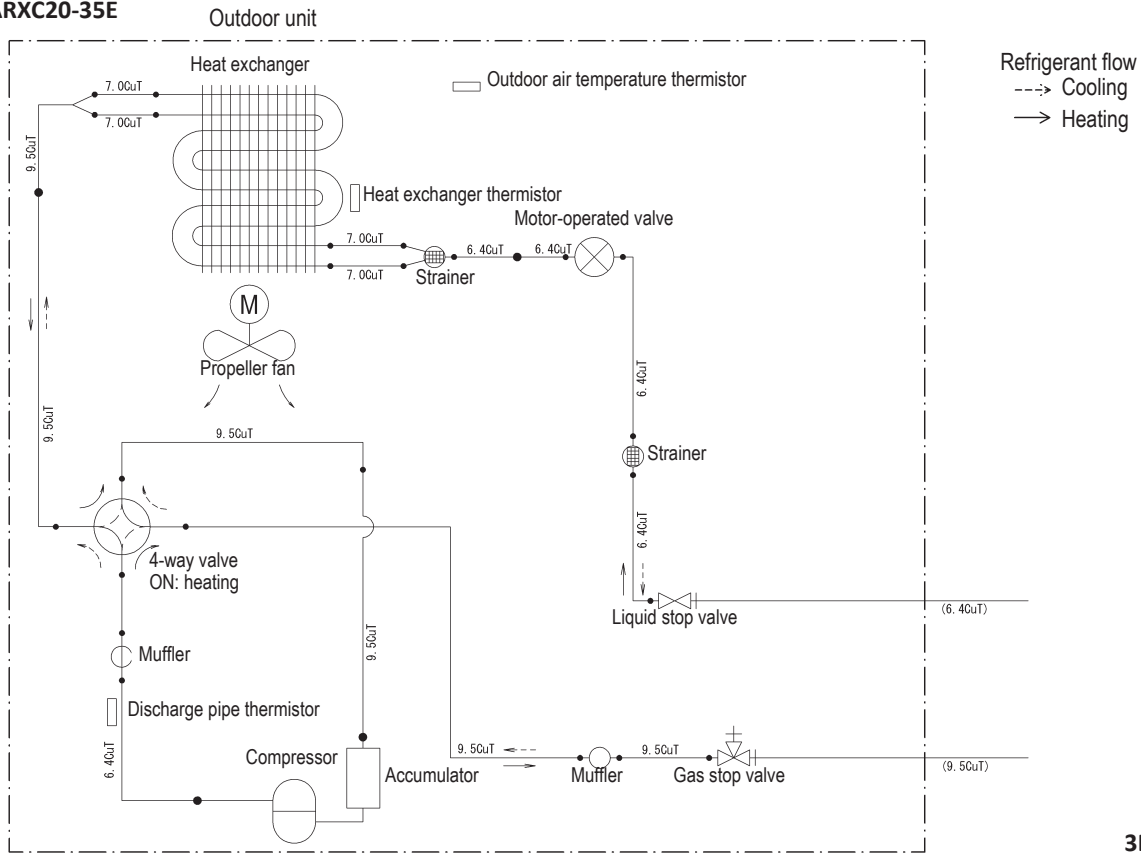
No	Description
1	Compressor
2	Terminal cover
3	Overload relay mounting plate
4	Heat exchanger assy
5	Gas stop valve assy
6	Liquid stop valve assy
7	Motor operated valve assy
8	Four way valve assy
9	Four way valve coil assy
10	EI compo. assy
10.1	Control module
10.2	Outdoor thermistor
10.3	Harness wire
11	Wire harness (compressor)
12	Motor operated valve coil
13	DC fan motor
14	Propeller fan assy
15	Bottom frame assy
16	Top plate assy
17	Right side plate
18	Left side plate
19	Front plate assy
20	Sound insulation (sleeve)
21	Sound insulation (top)
22	Partition plate
23	Fan motor stand assy
24	Stop valve cover
25	Stop valve mounting plate
26	Service cover assy
27	Disch. grille
28	Rubber grommet

3D120856C

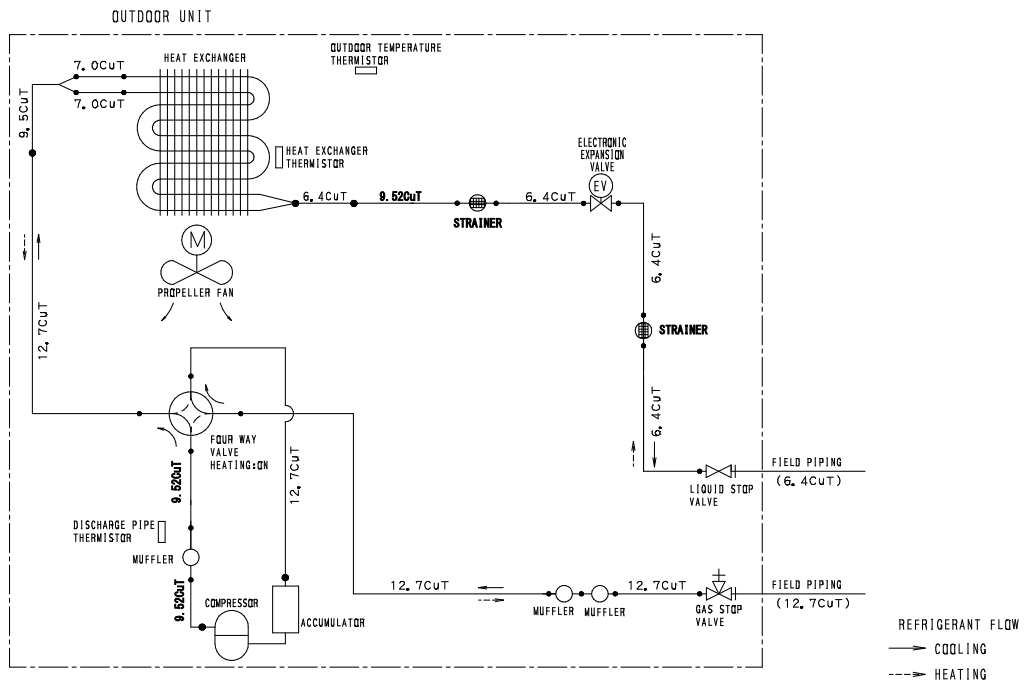
6 Piping diagrams

6 - 1 Piping Diagrams

RXC20-35E
ARXC20-35E

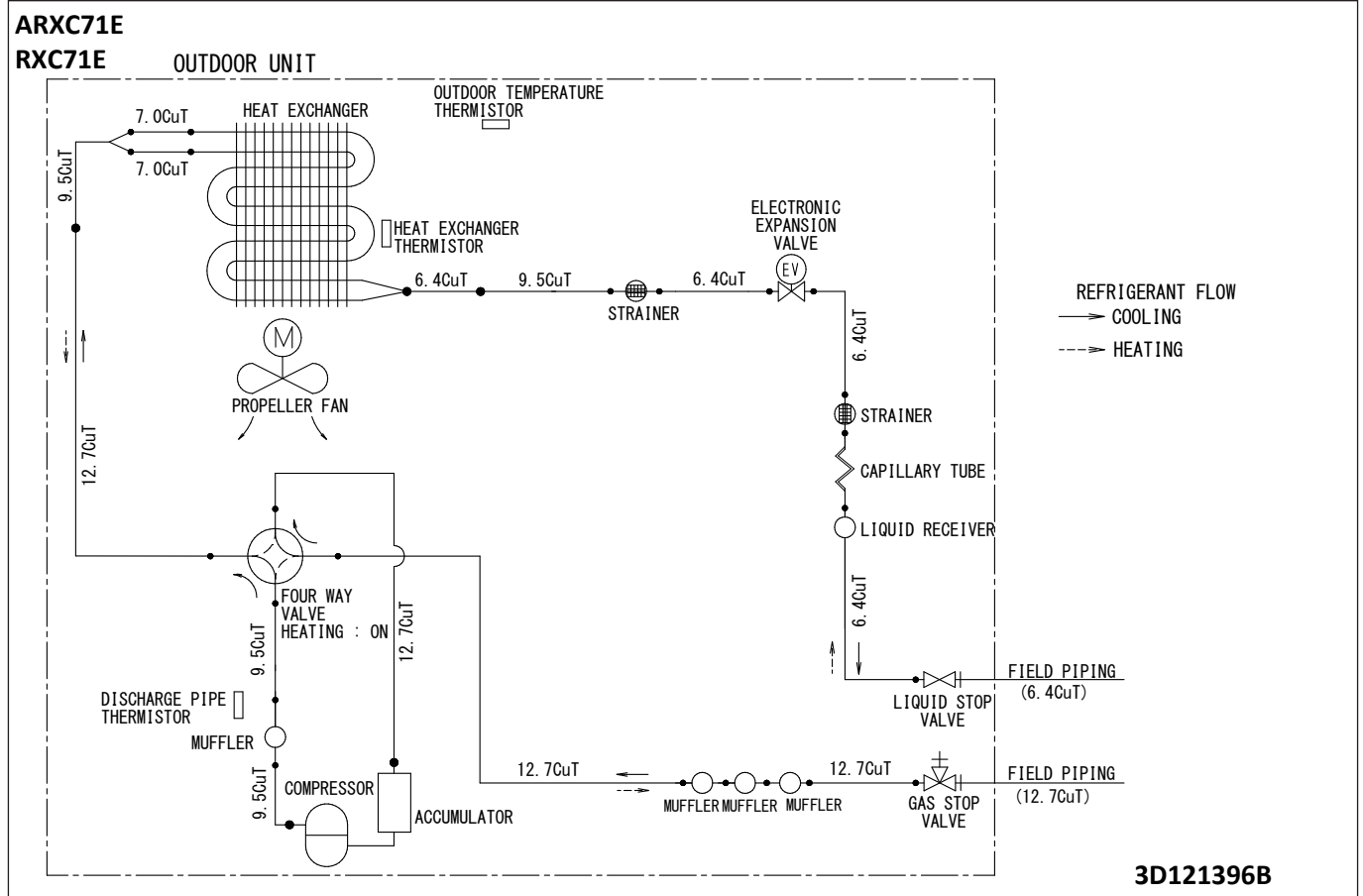


ARXC50-60E
RXC50-60E



6 Piping diagrams

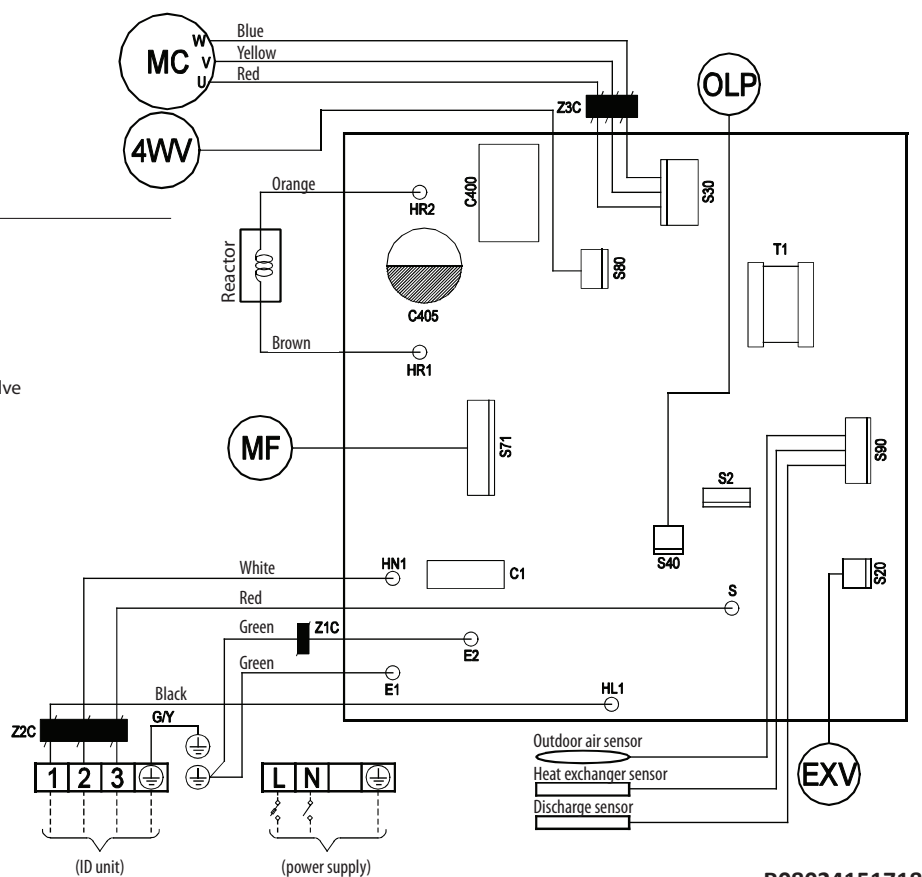
6 - 1 Piping Diagrams



7 Wiring diagrams

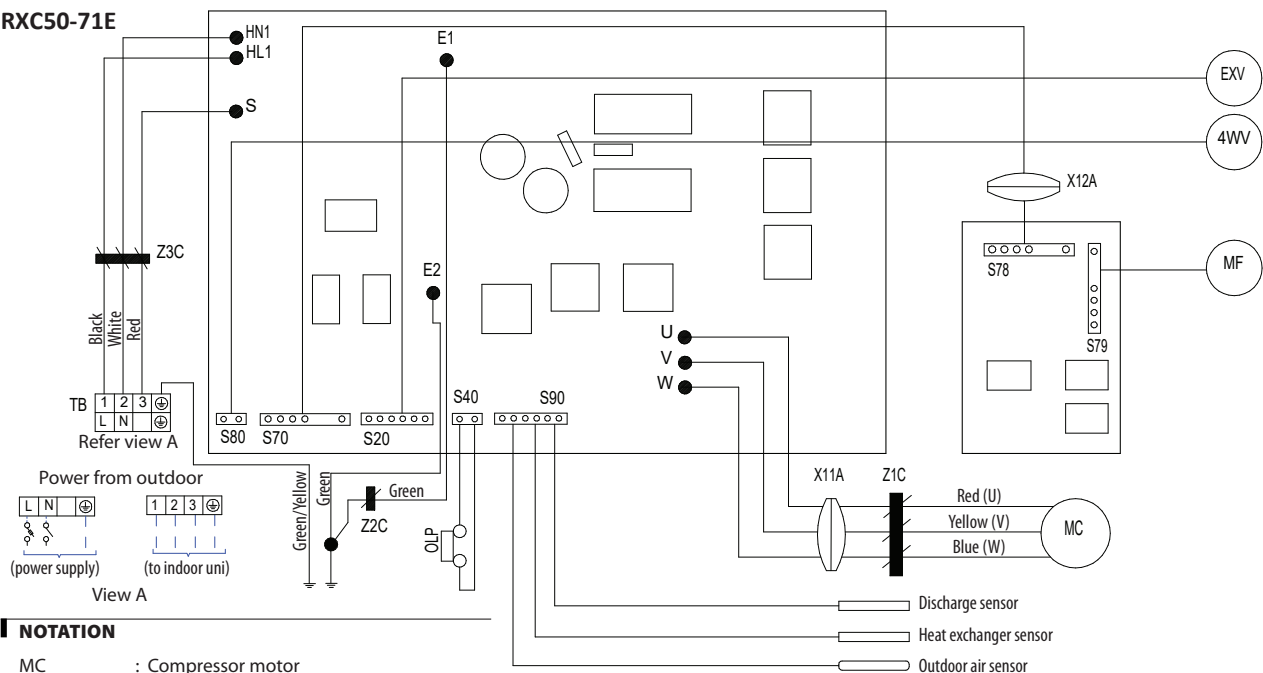
7 - 1 Wiring Diagrams - Three Phase

ARXC20-35E
RXC20-35E



R08024151718

ARXC50-71E
RXC50-71E



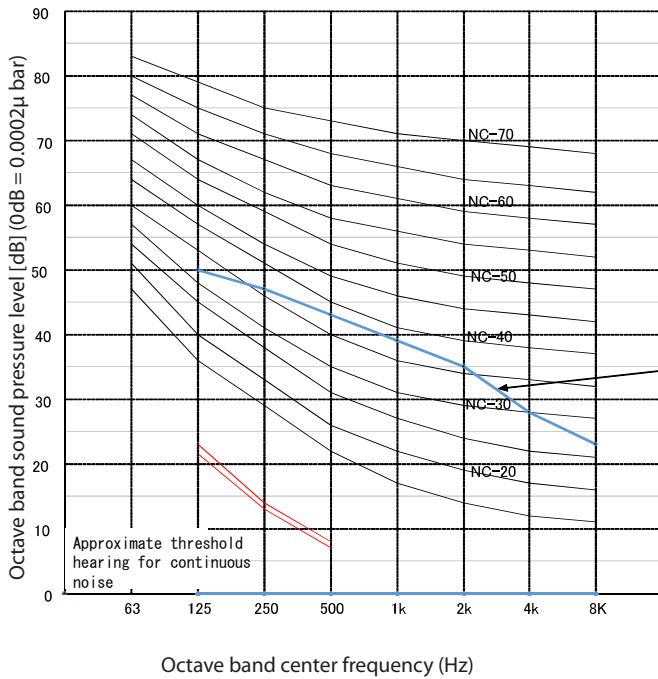
3P552447B

8 Sound data

8 - 1 Sound Pressure Spectrum

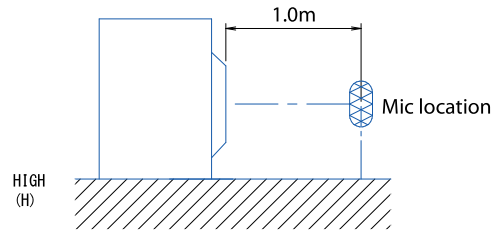
8

ARXC20-25E RXC20-25E



NOTES

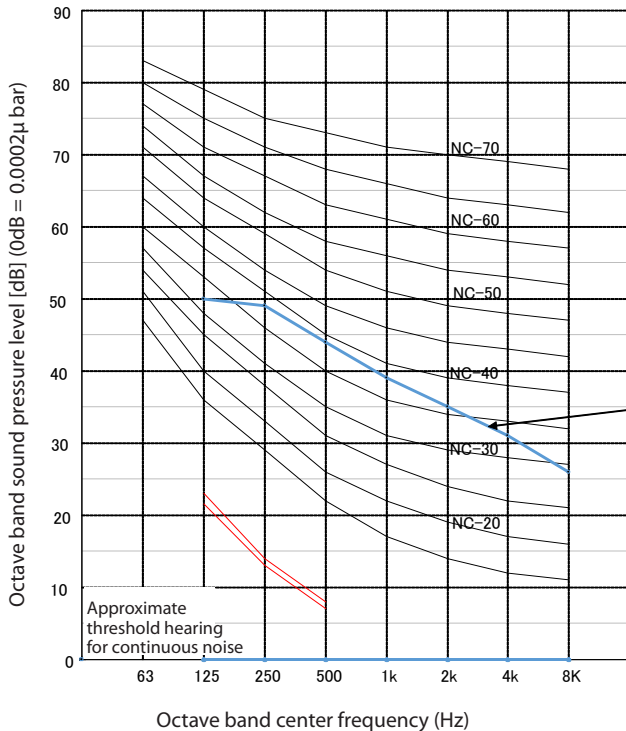
1. Measuring place
Anechoic chamber
Operation noise differs with operation and ambient conditions.
2. Operating conditions
Power source: 220-240V 50Hz
3. Location of microphone.



Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	50	47	43	39	35	28	23	45	38

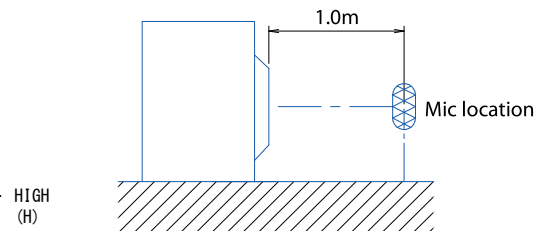
3D141724

ARXC35E RXC35E



NOTES

1. Measuring place
Anechoic chamber
Operation noise differs with operation and ambient conditions.
2. Operating conditions
Power source: 220-240V 50Hz
3. Location of microphone.



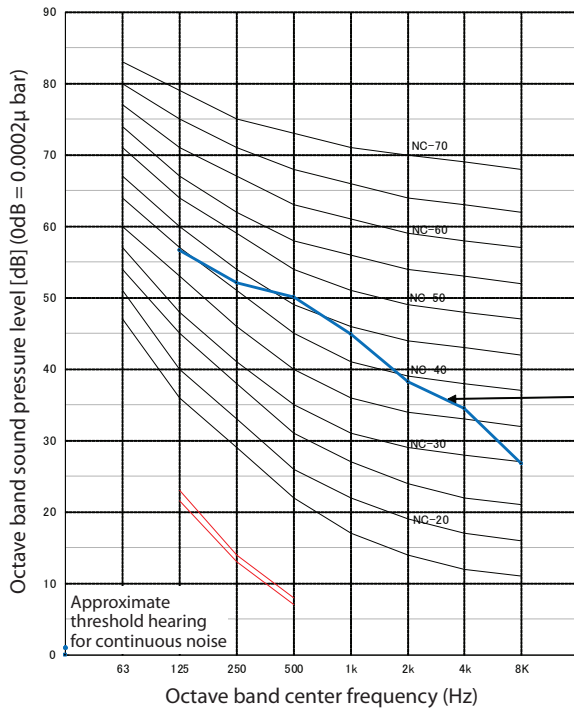
Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	50	49	44	39	35	31	26	46	39

3D141726

8 Sound data

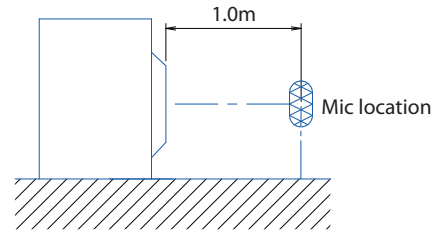
8 - 1 Sound Pressure Spectrum

ARXC50E RXC50E



NOTES

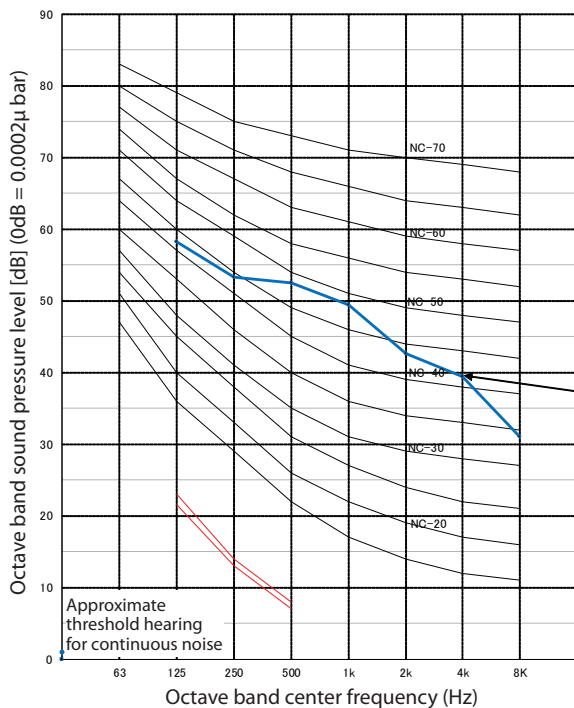
1. Measuring place
Anechoic chamber
Operation noise differs with operation and ambient conditions.
2. Operating conditions
Power source: 220-240V 50Hz
3. Location of microphone.



Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	57	52	50	45	38	34	27	51	46

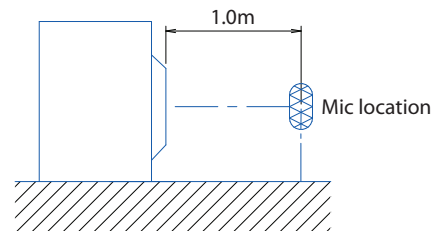
3D118144C

ARXC60E RXC60E



NOTES

1. Measuring place
Anechoic chamber
Operation noise differs with operation and ambient conditions.
2. Operating conditions
Power source: 220-240V 50Hz
3. Location of microphone.



Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	58	53	52	49	43	39	31	54	49

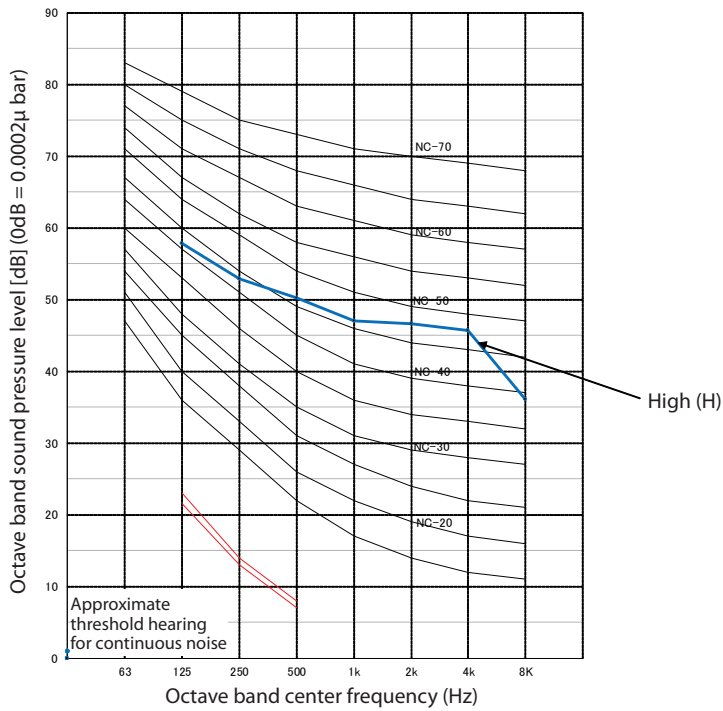
3D121139B

8 Sound data

8 - 1 Sound Pressure Spectrum

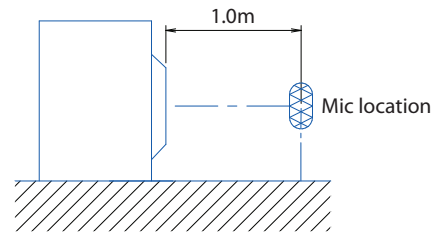
8

ARXC71E
RXC71E



NOTES

1. Measuring place
Anechoic chamber
Operation noise differs with operation and ambient conditions.
2. Operating conditions
Power source: 220-240V 50Hz
3. Location of microphone.



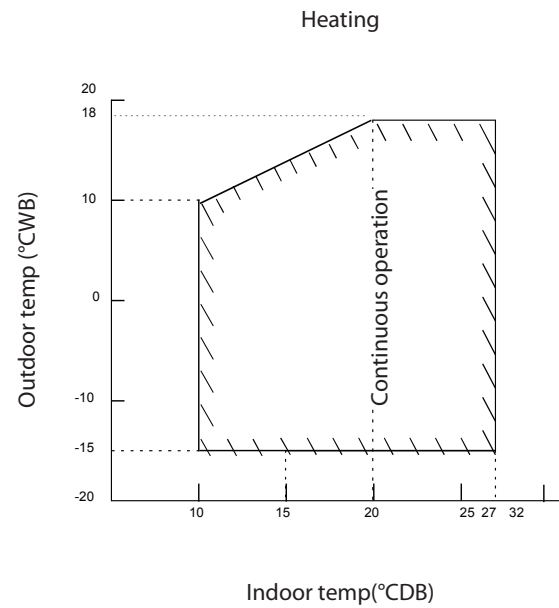
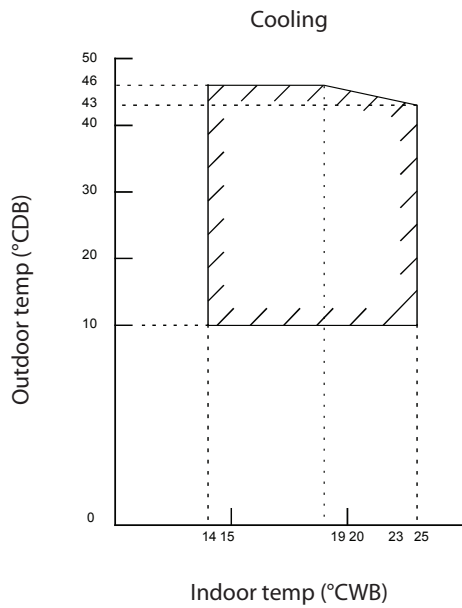
Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	58	53	50	47	47	46	36	54	48

3D121445B

9 Operation range

9 - 1 Operation Range

RXC20-35D
ARXC20-35D

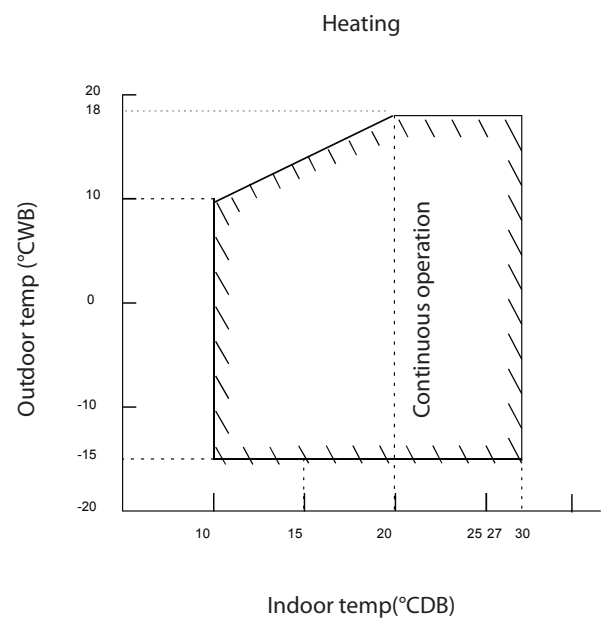
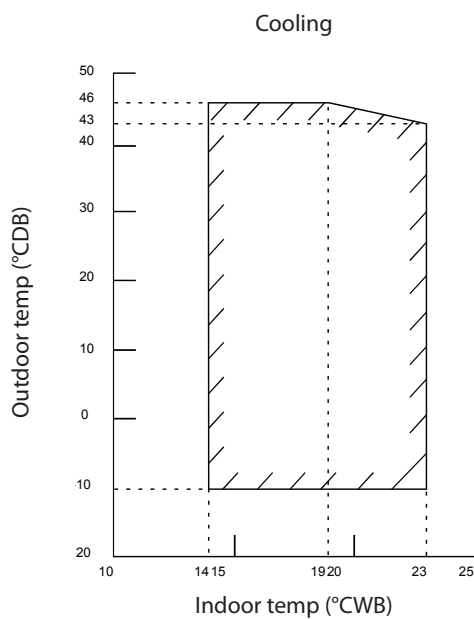


DB: Dry bulb

WB: Wet bulb

3P621327-2E / 3P622386-2E

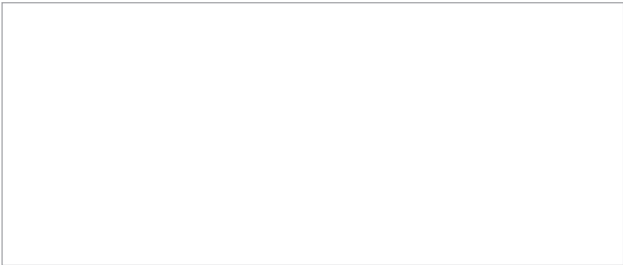
RXC50-71D
ARXC50-71D



DB: Dry bulb

WB: Wet bulb

3P621327-2E / 3P622386-2E



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03/2025



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