Air Conditioning Technical Data

RXC-E

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RXC-E

1 Features

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› Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
› Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
› Daikin outdoor units are equipped with an anti-corrosion treated heat exchanger (blue fin) which ensures greater resistance to the most severe weather conditions
› Outdoor units for pair application

INVERTER

Inverter

2 Specifications

2 - 1 Specifications

Technical specifications				FTXC20E + RXC20E	FTXC25E + RXC25E	FTXC35E + RXC35E	FTXC50E + RXC50E	FTXC60E + RXC60E	FTXC71E + RXC71E
Indoor unit				FTXC20EV1B	FTXC25EV1B	FTXC35EV1B	FTXC50EV1B	FTXC60EV1B	FTXC71EV1B
Outdoor unit				RXC20EV1B	RXC25EV1B	RXC35EV1B	RXC50EV1B	RXC60EV1B	RXC71EV1B
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		4.0	6.2	7.0	7.3
	Max.		Btu/h	10,200		13,600	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		4.8	6.6	8.0	9.0
	Max.		Btu/h	13,600		16,400	22,500	27,300	30,700
Power input	Cooling	Min.	kW	0.300		0.315	0.295	0.380	0.440
		Nom.	kW	0.595	0.765	1.045	1.550	1.890	2.380
		Max.	kW	1.150		1.740	2.110	2.045	2.540
	Heating	Min.	kW	0.275			0.270	0.325	0.500
		Nom.	kW	0.670	0.750	1.070	1.515	1.680	2.460
		Max.	kW	1.350		1.570	1.850	2.350	2.640
Nominal efficiency	EER			3.36	3.35		3.29	3.30	2.98
	COP			3.73	3.79	3.74	3.71	3.81	3.25
	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			6.9	6.8	6.9	6.5	6.4	5.3
	Annual energy consumption		kWh/a	106	131	175	276	339	460
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	4.5	4.3	4.4	4.2	3.8
	Pdh Heating capacity at -10°		kW	1.4	1.6	1.7	3.0	3.5	5.4
	Annual energy consumption		kWh/a	595	701	733	1,234	1,353	2,332
	Required back up heating cap at design conditions		kW	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	5.4	4.6
	Annual energy consumption		kWh/a	487	494	507	1,173	1,439	1,776
	Required back up heating cap at design conditions		kW	0.0					
Space cooling	A Condition	Pdc	kW	2.08	2.57	3.44	5.08	6.21	6.96
	(35°C - 27/19)	EERd		3.95	3.28	3.26	3.20	3.28	2.69
		Power input	kW	0.526	0.784	1.055	1.588	1.893	2.587
	B Condition	Pdc	kW	1.60	1.80	2.41	3.75	4.73	5.21
	(30°C - 27/19)	EERd		5.77	5.55	5.21	4.81	4.97	4.32
		Power input	kW	0.277	0.324	0.463	0.780	0.952	1.206
	C Condition	Pdc	kW	1.29	1.28	1.57	2.29	3.08	3.46
	(25°C - 27/19)	EERd		9.51	9.25	8.81	7.99	8.04	6.71
		Power input	kW	0.136	0.138	0.178	0.287	0.383	0.516
	D Condition	Pdc	kW	1.35		1.31	1.82	2.30	2.22
	(20°C - 27/19)	EERd		12.48	11.91	12.85	11.75	11.25	7.83
		Power input	kW	0.108	0.113	0.102	0.155	0.204	0.284

2 Specifications

2 - 1 Specifications

Technical specifications					FTXC20E + RXC20E	FTXC25E + RXC25E	FTXC35E + RXC35E	FTXC50E + RXC50E	FTXC60E + RXC60E	FTXC71E + RXC71E
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-14					
	TBivalent	Tbiv (bivalent temperature)		°C	-7					
		Pdh (declared heating cap)		kW	1.65	1.97	1.98	3.45	3.63	5.62
		COPd (declared COP)			2.49	2.93	2.45	2.55	2.71	2.52
		Power input		kW	0.663	0.672	0.808	1.353	1.339	2.230
	A Condition (-7°C)	Pdh (declared heating cap)		kW	1.65	1.97	1.98	3.45	3.63	5.62
		COPd (declared COP)			2.49	2.93	2.45	2.55	2.71	2.52
		Power input		kW	0.663	0.672	0.808	1.353	1.339	2.230
	B Condition (2°C)	Pdh (declared heating cap)		kW	1.05	1.19	1.26	2.01	2.16	3.33
		COPd (declared COP)			4.65	4.43	4.51	4.76	4.42	3.69
		Power input		kW	0.226	0.269	0.279	0.423	0.489	0.902
	C Condition (7°C)	Pdh (declared heating cap)		kW	0.90		0.99	1.58	1.74	2.30
		COPd (declared COP)			6.12	6.08	5.81	5.64	5.41	5.11
		Power input		kW	0.147	0.148	0.170	0.280	0.322	0.450
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.11			1.77	1.78	1.80
		COPd (declared COP)			7.66	7.58	7.15	7.13	6.70	5.95
		Power input		kW	0.145	0.146	0.155	0.248	0.266	0.303
	E condition (-10°C)	Pdh (declared heating cap)		kW	1.03		1.36	2.37	3.30	5.02
		COPd (declared COP)			1.94	1.93		1.90	2.49	2.38
		Power input		kW	0.531	0.536	0.705	1.247	1.325	2.109
Space heating (Warm climate)	TBivalent	Tbiv (bivalent temperature)		°C	2					
		Pdh (declared heating cap)		kW	2.05		2.06	4.46	5.53	5.84
Space heating (Warm climate)	TBivalent	COPd (declared COP)			3.16		3.42	2.68	2.8	2.61
		Power input		kW	0.636	0.649	0.602	1.664	1.979	2.233
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.01	2.05	2.06	4.46	5.53	5.84
		COPd (declared COP)			3.16		3.42	2.68	2.80	2.61
		Power input		kW	0.636	0.649	0.602	1.664	1.975	2.233
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.24	1.26	1.39	2.88	3.65	3.85
		COPd (declared COP)			5.87	5.97	6.00	4.91	5.15	4.61
		Power input		kW	0.211		0.232	0.587	0.709	0.836
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.11			1.77	1.78	1.80
		COPd (declared COP)			7.66	7.58	7.15	7.13	6.80	5.28
		Power input		kW	0.145	0.146	0.155	0.248	0.262	0.341
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	Cdc (Degradation cooling)				0.25					
Heating	Cdh (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.	dBA	58		60	65	66	69
	Sound power level indoor	Cooling	Nom.	dBA	57		58	60	63	
Pto (Thermostat off)				W	25		26	34	66	

Electrical specifications					FTXC20E + RXC20E	FTXC25E + RXC25E	FTXC35E + RXC35E	FTXC50E + RXC50E	FTXC60E + RXC60E	FTXC71E + RXC71E
Current	Nominal running current (RLA)	Cooling		A	3.00	3.04	4.2	6.24	7.22	8.98
	Nominal running current (RLA) - 50Hz	Heating		A	2.73	3.02	4.34	5.97	6.31	9.38
Current - 50Hz	Maximum running current			A	6.91		7.93	10.2	11.5	
	Maximum fuse amps (MFA)			A	16					

Technical Specifications					RXC20E	RXC25E	RXC35E	RXC50E	RXC60E	RXC71E
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					RXC20E	RXC25E	RXC35E	RXC50E	RXC60E	RXC71E
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					
	Weight			kg	2			4		
Heat exchanger	Length			mm	662		627	850		878
	Rows	Quantity			1		2			
	Fin pitch			mm	18					
	Face area			m^2	0.33		0.32	0.5		0.59
	Stages	Quantity			24			28		32
	Tube type				Inner Groove					
	Tube material				Copper					
	Tube diameter			mm	7					
	Fin	Type			Aluminium (Corrugated)					
		Treatment			Hydrophilic					
Fan	Type				Propeller fan					
	Discharge direction				Horizontal					
	Quantity				1					
	Air flow rate	Cooling	High	m^3/min	26.3		23.8	37.1	46.2	54.7
				cfm	930		840	1,310	1,630	1,930
Fan motor	Quantity				1					
	Model				M3SLY10/15F-1			M3SLY20F-1		M3SLY30F-1
	Index of Protection				24			23		
	Insulation grade				Class "E"					
	Poles				8					
	Output			W	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			cm^3	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

2 - 1 Specifications

Electrical Specifications				RXC20E	RXC25E	RXC35E	RXC50E	RXC60E	RXC71E
Power supply	Name			V1					
	Phase			1~					
	Frequency		Hz	50					
	Voltage		V	220-440					
Current	Nominal running current (RLA)	Cooling	A	3.00	3.04	4.20	6.24	7.22	8.98
		Heating	A	2.73	3.02	4.34	5.97	6.31	9.38
	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

FTXC-E / RXC-E

Unit combination restrictions		Power Supply			MCA		MFA		COMP				OFM				IFM			
Indoor unit	Outdoor unit	①	②	③					Cooling		Heating		Cooling		Heating		Cooling		Heating	
					Cooling	Heating	Cooling	Heating	RHz	RLA	RHz	RLA	kW	FLA	kW	FLA	kW	FLA	kW	FLA
FTXC20DV1B FTXC20EV1B	RXC20DV1B RXC20EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	6.16	6.91	16	16	33	3.00	50	2.73	0.026	0.28	0.026	0.28	0.038	0.15	0.038	0.15
FTXC25DV1B FTXC25EV1B	RXC25DV1B RXC25EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	6.16	6.91	16	16	47	3.04	55	3.02	0.026	0.28	0.026	0.28	0.038	0.15	0.038	0.15
FTXC35DV1B FTXC35EV1B	RXC35DV1B RXC35EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	6.68	7.93	16	16	65	4.20	75	4.34	0.026	0.32	0.026	0.32	0.038	0.16	0.038	0.16
FTXC50DV1B FTXC50EV1B	RXC50DV1B RXC50EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	10.20	10.20	16	16	67	6.24	65	5.97	0.061	0.38	0.061	0.49	0.038	0.20	0.038	0.20
FTXC60DV1B FTXC60EV1B	RXC60DV1B RXC60EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	10.50	11.50	16	16	76	7.22	79	6.31	0.061	0.62	0.061	0.62	0.038	0.45	0.038	0.45
FTXC71DV1B FTXC71EV1B	RXC71DV1B RXC71EV1B	50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	11.50	11.50	16	16	92	8.98	92	9.38	0.128	0.97	0.128	0.97	0.038	0.45	0.038	0.45

Power Supply Cable Size (mm^2)	Interconnection Cable Size (mm^2)
1.5	1.5
1.5	1.5
1.5	1.5
2.5	1.5
2.5	1.5
2.5	1.5

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

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

3D140573B

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXC20E / RXC20E

AFR	10.8
BF	0.28

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	2.05	1.97	0.46	1.95	1.91	0.50	1.86	1.85	0.54	1.82	1.83	0.56	1.77	1.78	0.59	1.67	1.72	0.63
16	22	2.14	1.94	0.46	2.05	1.88	0.50	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	0.46	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	0.46	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	0.64
22	30	2.42	2.05	0.47	2.33	2.00	0.51	2.23	1.96	0.55	2.19	1.94	0.57	2.14	1.91	0.60	2.05	1.87	0.64
24	32	2.51	2.00	0.47	2.42	1.95	0.51	2.33	1.91	0.56	2.29	1.89	0.58	2.23	1.87	0.60	2.14	1.82	0.65

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	1.19	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
FTXC20BV1B	RXC20BV1B
FTXC20CV1B	RXC20CV1B
FTXC20DV1B	RXC20DV1B
FTXC20EV1B	RXC20EV1B

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. ▭ shows nominal (rated) capacites 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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FTXC25E / RXC25E

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	0.64	2.38	2.25	0.70	2.34	2.22	0.72	2.26	2.17	0.76	2.14	2.10	0.81
16	22	2.74	2.36	0.59	2.62	2.29	0.65	2.50	2.22	0.70	2.46	2.19	0.73	2.38	2.15	0.76	2.26	2.08	0.82
18	25	2.86	2.47	0.59	2.74	2.40	0.65	2.62	2.33	0.71	2.57	2.31	0.73	2.50	2.27	0.77	2.38	2.20	0.82
19	27	2.92	2.59	0.59	2.80	2.53	0.65	2.68	2.47	0.71	2.63	2.44	0.73	2.56	2.40	0.77	2.44	2.34	0.83
22	30	3.09	2.50	0.60	2.98	2.44	0.66	2.86	2.39	0.71	2.81	2.37	0.74	2.74	2.33	0.77	2.62	2.27	0.83
24	32	3.21	2.43	0.61	3.09	2.38	0.66	2.98	2.33	0.72	2.93	2.31	0.74	2.86	2.27	0.77	2.74	2.22	0.83

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	0.53	2.18	0.69	2.94	0.73	3.20	0.76
20	1.27	0.50	1.54	0.52	1.82	0.54	2.09	0.72	2.84	0.75	3.10	0.77
22	1.23	0.50	1.51	0.53	1.78	0.55	2.06	0.72	2.80	0.75	3.06	0.78
24	1.20	0.50	1.48	0.53	1.75	0.56	2.02	0.73	2.76	0.76	3.02	0.79
25	1.18	0.51	1.46	0.53	1.73	0.56	2.01	0.73	2.74	0.77	3.00	0.79
27	1.15	0.51	1.43	0.54	1.70	0.56	1.97	0.73	2.70	0.77	2.96	0.80

Applicable Models	
Indoor	Outdoor
FTXC25BV1B	RXC25BV1B
FTXC25CV1B	RXC25CV1B
FTXC25DV1B	RXC25DV1B
FTXC25AV1G	RXC25AV1G
FTXC25EV1G	RXC25EV1G

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. ▭ shows nominal (rated) capacites 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

3D121056D

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXC35E / RXC35E

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	0.80	3.42	2.67	0.88	3.26	2.59	0.96	3.19	2.56	0.99	3.10	2.51	1.04	2.93	2.43	1.12
16	22	3.75	2.70	0.81	3.58	2.63	0.89	3.42	2.55	0.97	3.36	2.52	1.00	3.26	2.48	1.04	3.10	2.41	1.12
18	25	3.91	2.84	0.81	3.75	2.77	0.90	3.58	2.70	0.97	3.52	2.67	1.00	3.42	2.63	1.05	3.25	2.56	1.13
19	27	3.99	2.99	0.81	3.83	2.93	0.90	3.66	2.86	0.97	3.60	2.83	1.00	3.50	2.79	1.05	3.34	2.73	1.13
22	30	4.23	2.89	0.82	4.07	2.83	0.90	3.90	2.77	0.98	3.84	2.75	1.01	3.74	2.71	1.06	3.58	2.66	1.14
24	32	4.39	2.82	0.83	4.23	2.76	0.91	4.07	2.71	0.99	4.00	2.69	1.02	3.90	2.66	1.06	3.74	2.60	1.14

Heating: 220 - 240V 50Hz

AFR	11.04

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	1.90	0.68	2.29	0.72	2.67	0.76	3.06	0.99	4.14	1.05	4.50	1.08
20	1.79	0.71	2.17	0.74	2.56	0.77	2.95	1.02	4.00	1.07	4.36	1.10
22	1.74	0.72	2.13	0.75	2.51	0.79	2.90	1.02	3.94	1.08	4.31	1.12
24	1.69	0.72	2.08	0.76	2.46	0.79	2.84	1.04	3.89	1.08	4.25	1.13
25	1.67	0.73	2.05	0.76	2.44	0.80	2.83	1.04	3.86	1.09	4.22	1.13
27	1.62	0.73	2.01	0.77	2.39	0.81	2.78	1.05	3.81	1.10	4.17	1.14

Applicable Model	
Indoor	Outdoor
FTXC35DV1B	RXC35DV1B
FTXC35EV1B	RXC35EV1B

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

3D142014A

FTXC50E / RXC50E

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	1.19	4.98	3.59	1.30	4.75	3.47	1.41	4.65	3.42	1.46	4.51	3.35	1.54	4.27	3.22	1.65
16	22	5.47	3.65	1.20	5.22	3.53	1.31	4.98	3.41	1.43	4.89	3.37	1.47	4.75	3.30	1.54	4.51	3.18	1.66
18	25	5.70	3.79	1.20	5.47	3.68	1.32	5.22	3.56	1.43	5.13	3.52	1.48	4.98	3.45	1.55	4.74	3.35	1.66
19	27	5.81	3.95	1.20	5.58	3.85	1.32	5.33	3.74	1.43	5.24	3.70	1.48	5.10	3.64	1.55	4.87	3.54	1.67
22	30	6.16	3.80	1.22	5.93	3.71	1.33	5.69	3.61	1.44	5.60	3.58	1.49	5.45	3.52	1.56	5.22	3.43	1.68
24	32	6.40	3.69	1.23	6.16	3.61	1.34	5.93	3.52	1.46	5.83	3.49	1.50	5.69	3.44	1.57	5.45	3.35	1.69

Heating: 220 - 240V 50Hz

AFR	12.46

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	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
FTXC50DV1B	RXC50DV1B
FTXC50EV1B	RXC50EV1B

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)

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

3D142020A

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

FTXC60E / RXC60E

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	1.45	6.09	4.78	1.59	5.80	4.63	1.72	5.68	4.57	1.78	5.51	4.47	1.87	5.22	4.31	2.01
16	22	6.68	4.86	1.46	6.38	4.70	1.59	6.08	4.56	1.74	5.98	4.51	1.80	5.80	4.41	1.87	5.51	4.28	2.02
18	25	6.96	5.07	1.47	6.68	4.94	1.61	6.38	4.79	1.74	6.27	4.74	1.80	6.08	4.65	1.89	5.79	4.53	2.03
19	27	7.10	5.33	1.47	6.81	5.19	1.61	6.52	5.07	1.74	6.40	5.01	1.80	6.23	4.93	1.89	5.94	4.81	2.04
22	30	7.53	5.13	1.48	7.24	5.01	1.62	6.95	4.90	1.76	6.83	4.86	1.82	6.66	4.78	1.91	6.38	4.67	2.05
24	32	7.82	4.99	1.49	7.53	4.89	1.63	7.24	4.78	1.78	7.12	4.74	1.83	6.95	4.67	1.91	6.66	4.56	2.06

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	1.08	3.66	1.13	4.28	1.19	4.90	1.56	6.62	1.65	7.20	1.70
20	2.87	1.11	3.47	1.16	4.09	1.22	4.71	1.60	6.40	1.68	6.98	1.73
22	2.78	1.13	3.40	1.18	4.02	1.23	4.63	1.61	6.31	1.69	6.89	1.75
24	2.71	1.13	3.33	1.19	3.94	1.25	4.55	1.63	6.22	1.70	6.80	1.77
25	2.67	1.14	3.28	1.19	3.91	1.25	4.53	1.64	6.18	1.71	6.75	1.77
27	2.60	1.15	3.21	1.21	3.82	1.27	4.44	1.65	6.09	1.73	6.67	1.79

Applicable Model	
Indoor	Outdoor
FTXC60BV1B	RXC60BV1B
FTXC60CV1B	RXC60CV1B
FTXC60DV1B	RXC60DV1B
FTXC60EV1B	RXC60EV1B

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. ▭ shows nominal (rated) capacites 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

3D121073C

FTXC71E / RXC71E

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	1.82	6.94	4.89	2.00	6.61	4.73	2.17	6.48	4.67	2.24	6.28	4.57	2.36	5.94	4.41	2.53
16	22	7.61	4.97	1.84	7.27	4.80	2.01	6.93	4.66	2.19	6.81	4.61	2.26	6.61	4.51	2.36	6.28	4.37	2.54
18	25	7.93	5.18	1.85	7.61	5.05	2.03	7.27	4.90	2.20	7.14	4.84	2.27	6.93	4.76	2.38	6.60	4.63	2.55
19	27	8.09	5.45	1.85	7.76	5.31	2.03	7.43	5.18	2.20	7.30	5.12	2.27	7.10	5.04	2.38	6.77	4.92	2.57
22	30	8.58	5.25	1.87	8.26	5.12	2.05	7.92	5.01	2.22	7.79	4.97	2.29	7.59	4.89	2.40	7.27	4.77	2.58
24	32	8.91	5.10	1.88	8.58	5.00	2.05	8.26	4.89	2.24	8.12	4.85	2.31	7.92	4.77	2.41	7.59	4.66	2.59

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	1.57	4.58	1.66	5.35	1.75	6.13	2.28	8.27	2.41	9.00	2.49
20	3.58	1.62	4.34	1.70	5.12	1.78	5.89	2.35	8.00	2.46	8.73	2.54
22	3.48	1.65	4.25	1.73	5.02	1.81	5.79	2.36	7.88	2.47	8.62	2.56
24	3.38	1.65	4.16	1.75	4.92	1.83	5.69	2.38	7.78	2.49	8.51	2.59
25	3.34	1.67	4.10	1.75	4.88	1.83	5.66	2.40	7.73	2.51	8.44	2.60
27	3.25	1.68	4.02	1.78	4.78	1.85	5.55	2.41	7.61	2.54	8.34	2.62

Applicable Models	
Indoor	Outdoor
FTXC71BV1B	RXC71BV1B
FTXC71CV1B	RXC71CV1B
FTXC71DV1B	RXC71DV1B
FTXC71AV1G	RXC71AV1G
FTXC71EV1B	RXC71EV1B

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. ▭ 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

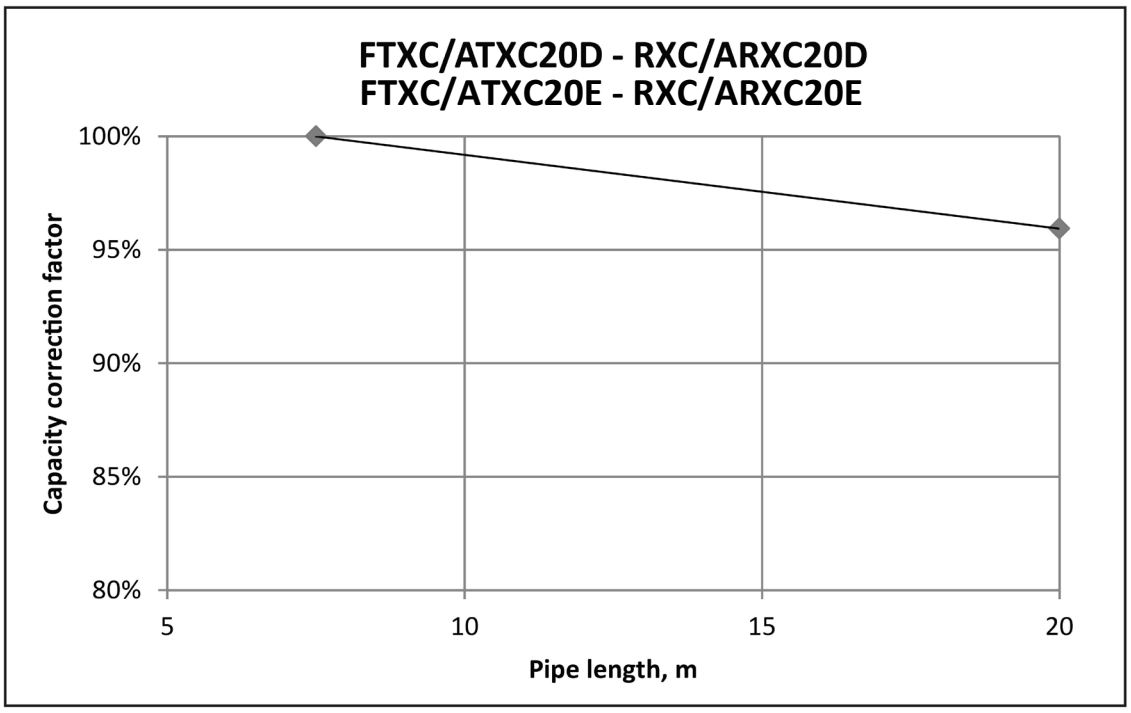
3D121397D

4 Capacity tables

4 - 2 Capacity Correction Factor

ARXC20E
RXC20E

R32 COOLING



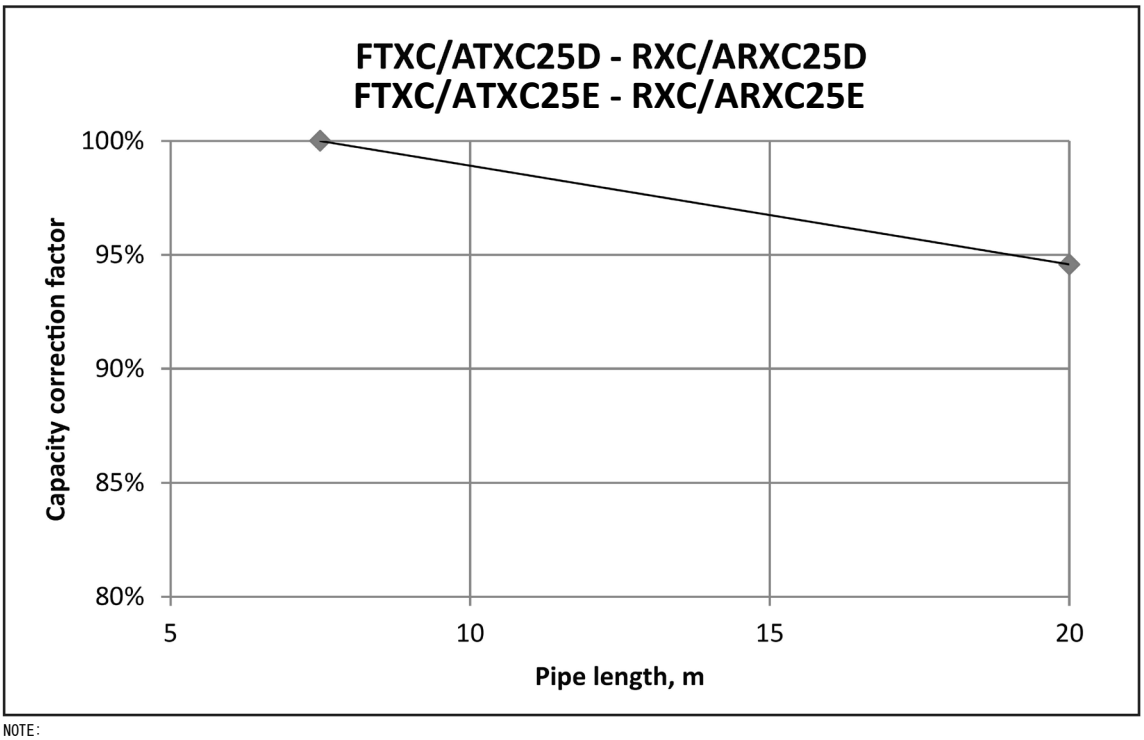
NOTE:

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.

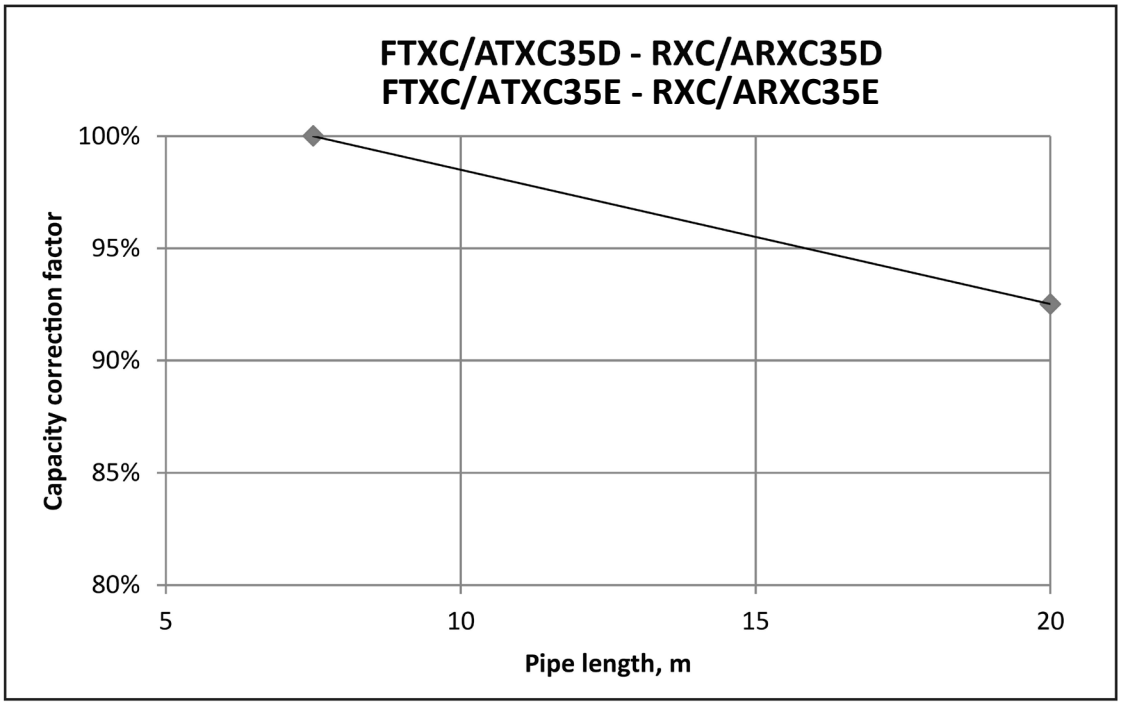
3D140618B

4 Capacity tables

4 - 2 Capacity Correction Factor

ARXC35E
RXC35E

R32 COOLING



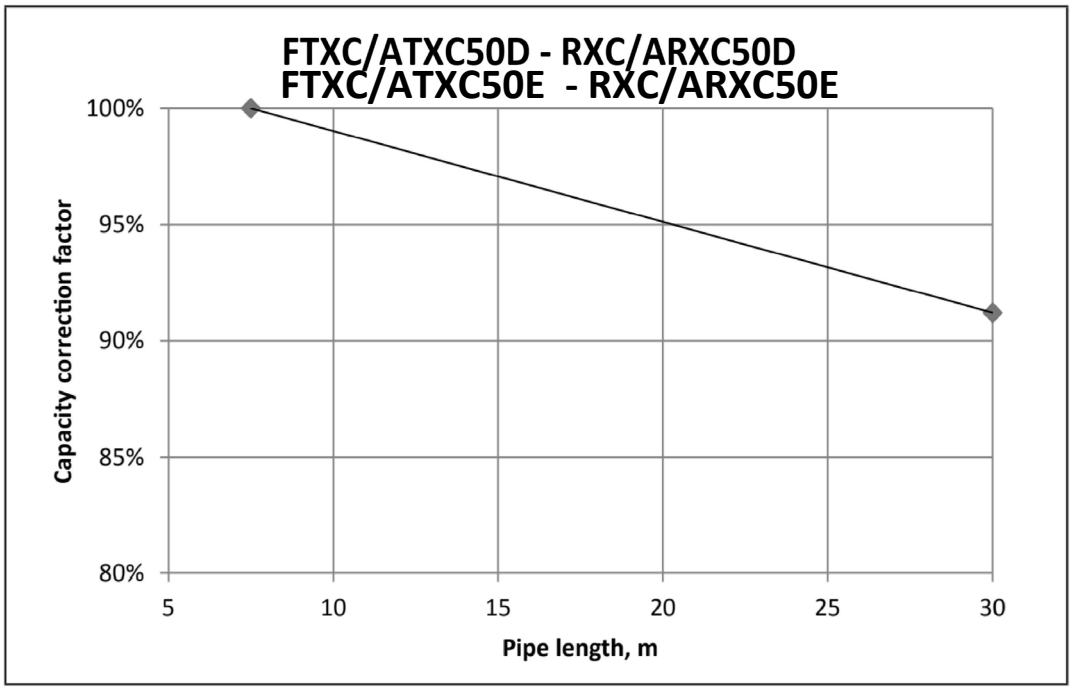
NOTE:

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:

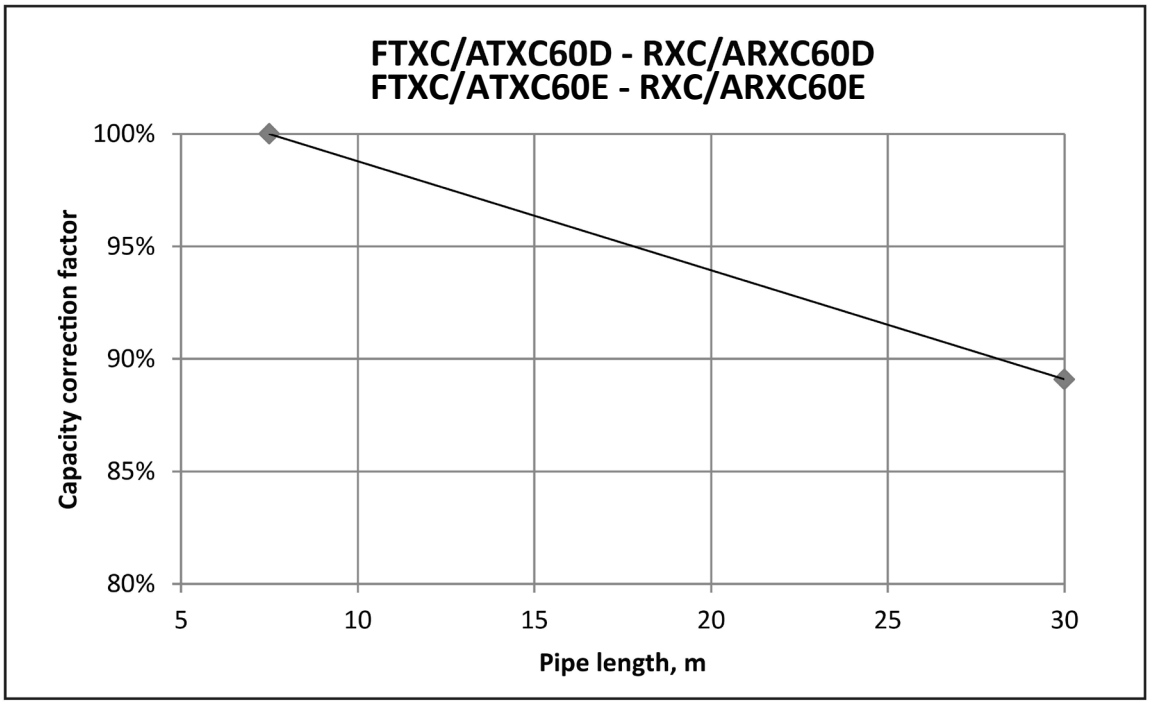
1) ———— LINE:CORRECTION RATIO FOR COOLING CAPACITY.
2) THE CORRECTION RATIO REMAINS THE SAME WHETHER THE OUTDOOR UNIT IS TO BE INSTALLED ABOVE OR BELOW THE INDOOR UNIT.
3) CALCULATION METHOD FOR COOLING CAPACITY.
CAPACITY = COOLING CAPACITY OBTAINED FROM THE CAPACITY TABLE × COOLING CAPACITY CORRECTION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

3D140624C

4 Capacity tables

4 - 2 Capacity Correction Factor

ARXC60E
RXC60E R32 COOLING

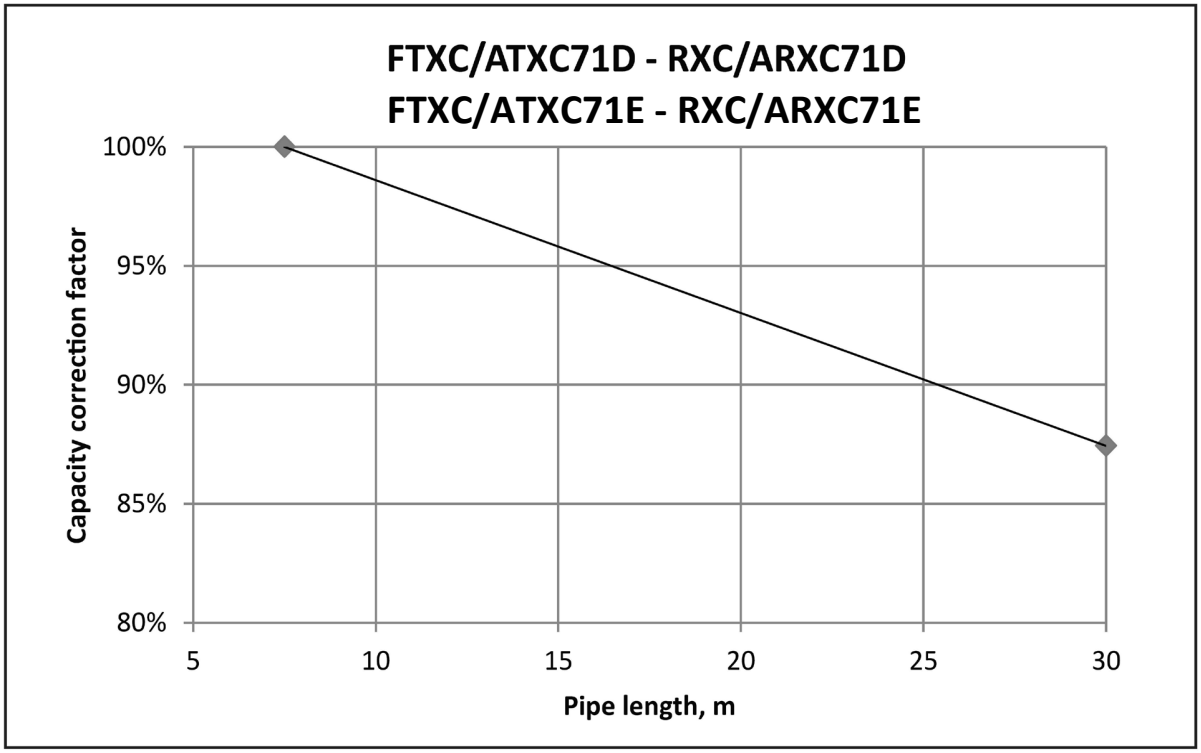


NOTE:

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:

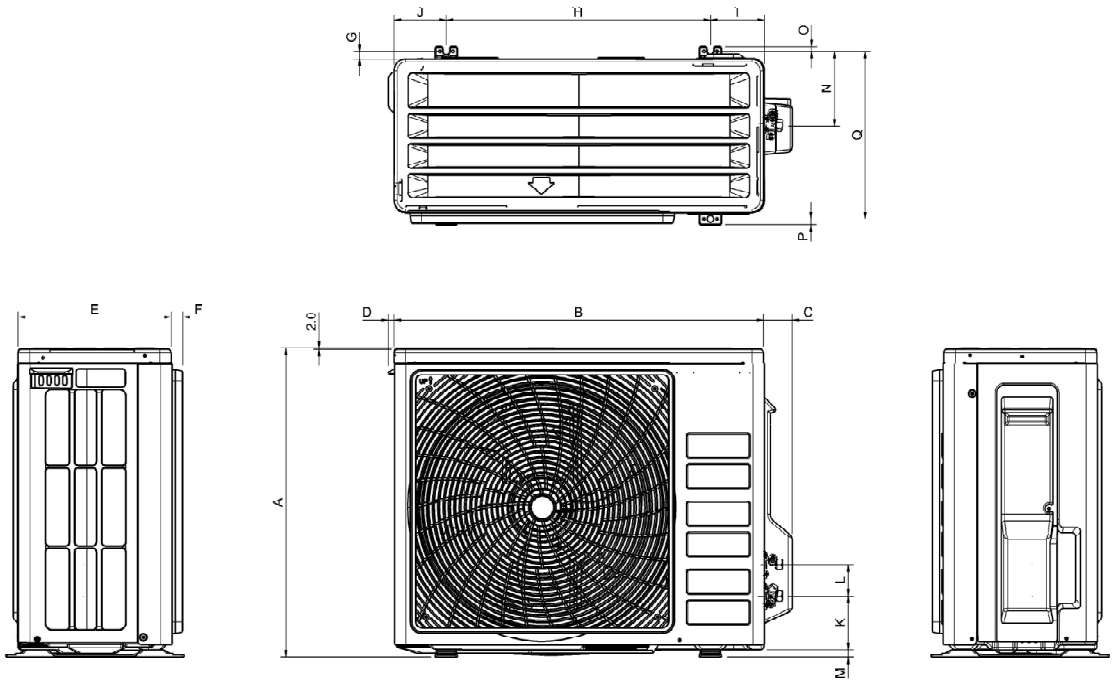
1) LINE:CORRECTION RATIO FOR COOLING CAPACITY.
2) THE CORRECTION RATIO REMAINS THE SAME WHETHER THE OUTDOOR UNIT IS TO BE INSTALLED ABOVE OR BELOW THE INDOOR UNIT.
3) CALCULATION METHOD FOR COOLING CAPACITY.
CAPACITY = COOLING CAPACITY OBTAINED FROM THE CAPACITY TABLE × COOLING CAPACITY CORRECTION RATIO.

3D140661B

5 Dimensional drawings

5 - 1 Dimensional Drawings

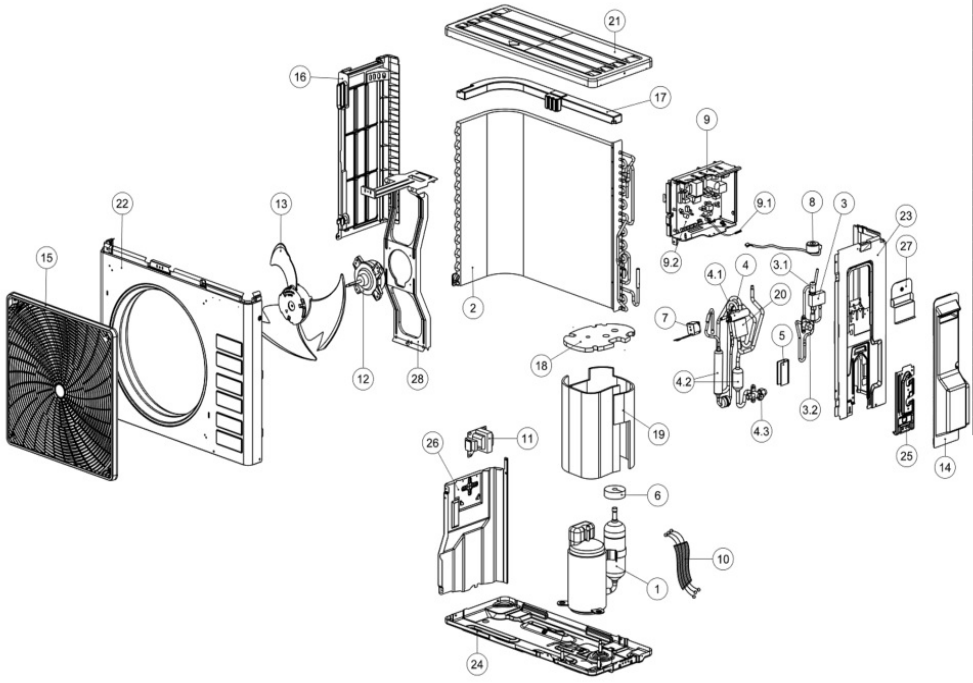
RXC20-35E
ARXC20-35E



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



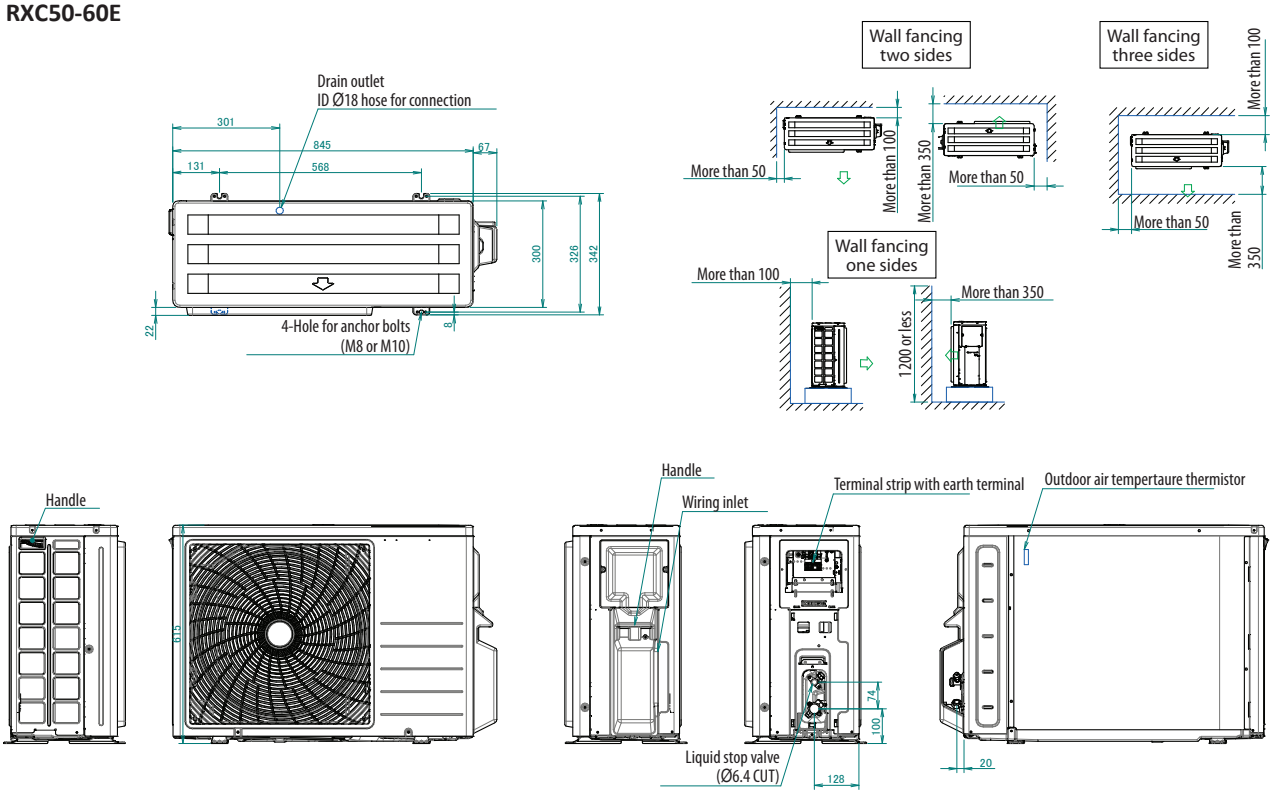
No	Description
1	Compressor
2	Terminal cover
3	Overload relay mounting plate
4	Heat exchanger assy
5	Gas stop valve assy
6	Liquid stop valve assy
7	Motor operated valve assy
8	Four way valve assy
9	Four way valve coil assy
10	El. compo. assy
10.1	Control module
10.2	Outdoor thermistor
10.3	Harness wire
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

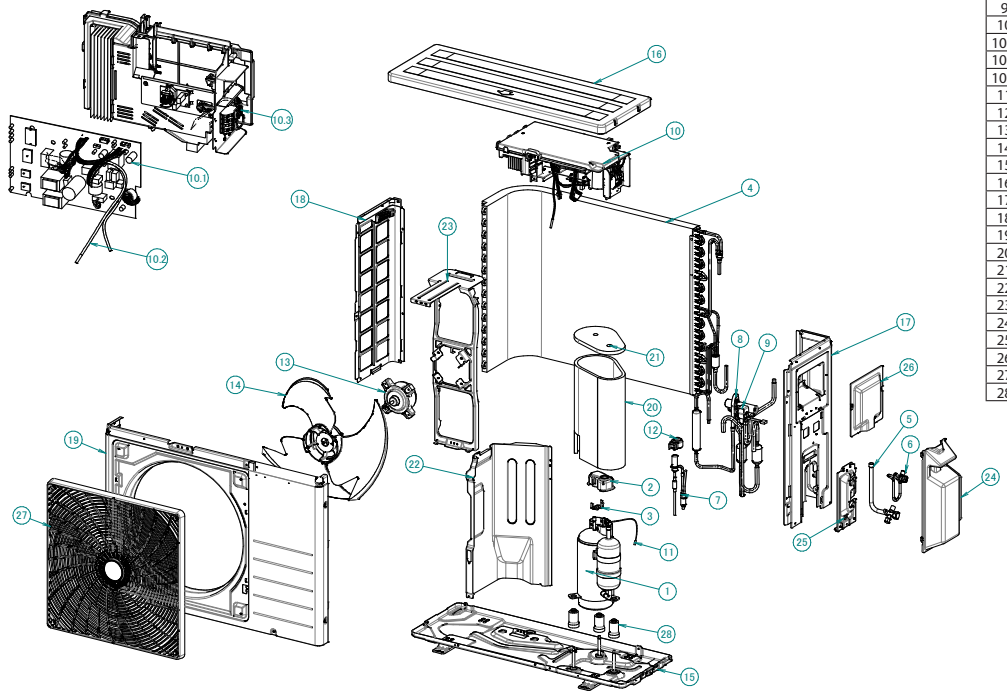
5 - 1 Dimensional Drawings

ARXC50-60E
RXC50-60E



3D117130N

ARXC50-60E
RXC50-60E



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

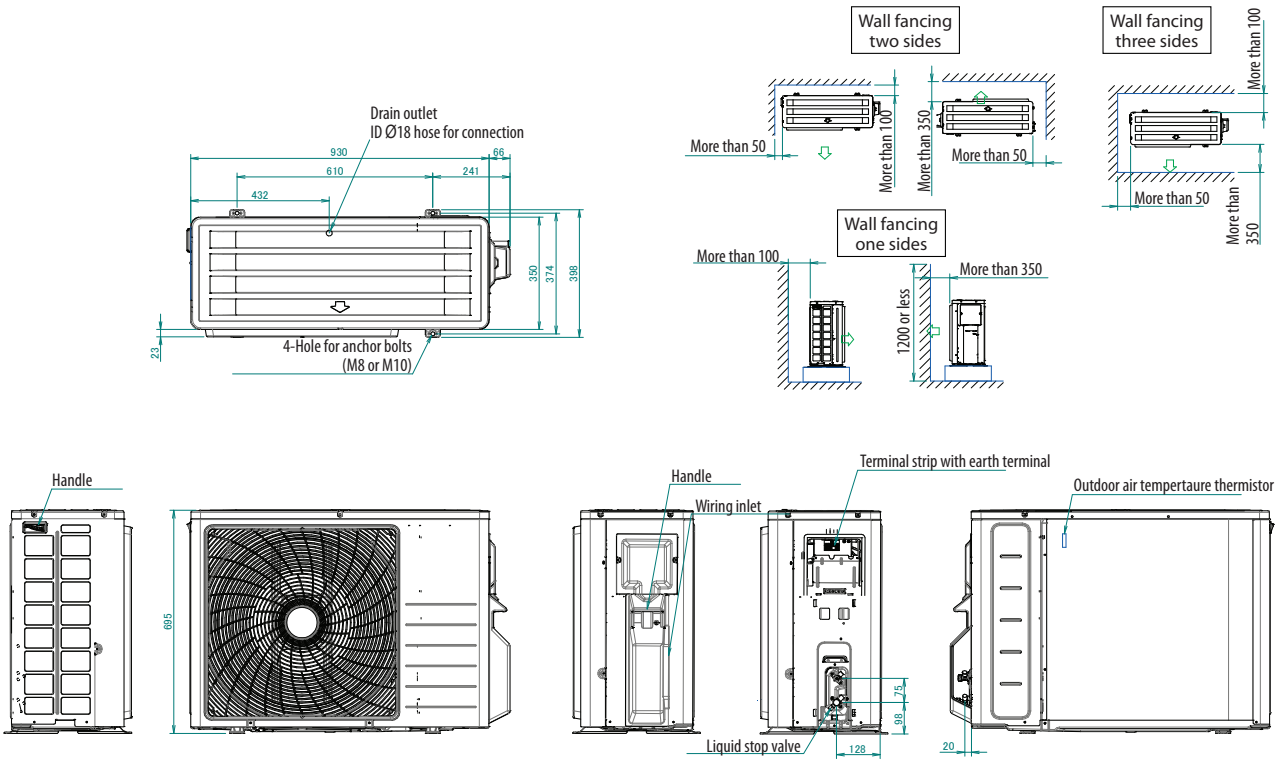
3D120767C

5 Dimensional drawings

5 - 1 Dimensional Drawings

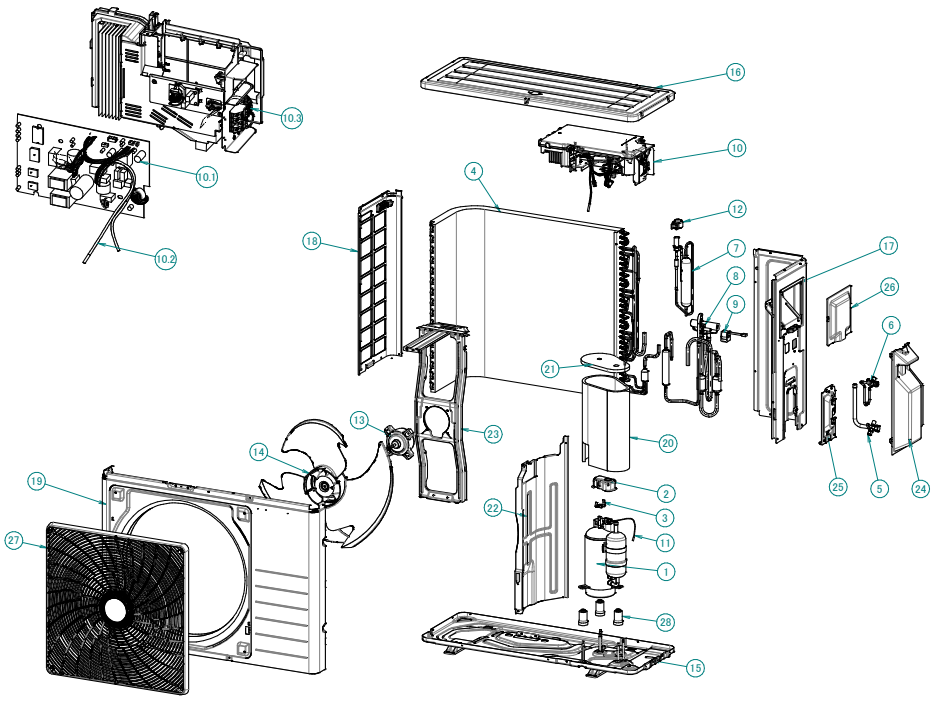
5

ARXC71E
RXC71E



3D121403L

ARXC71E
RXC71E



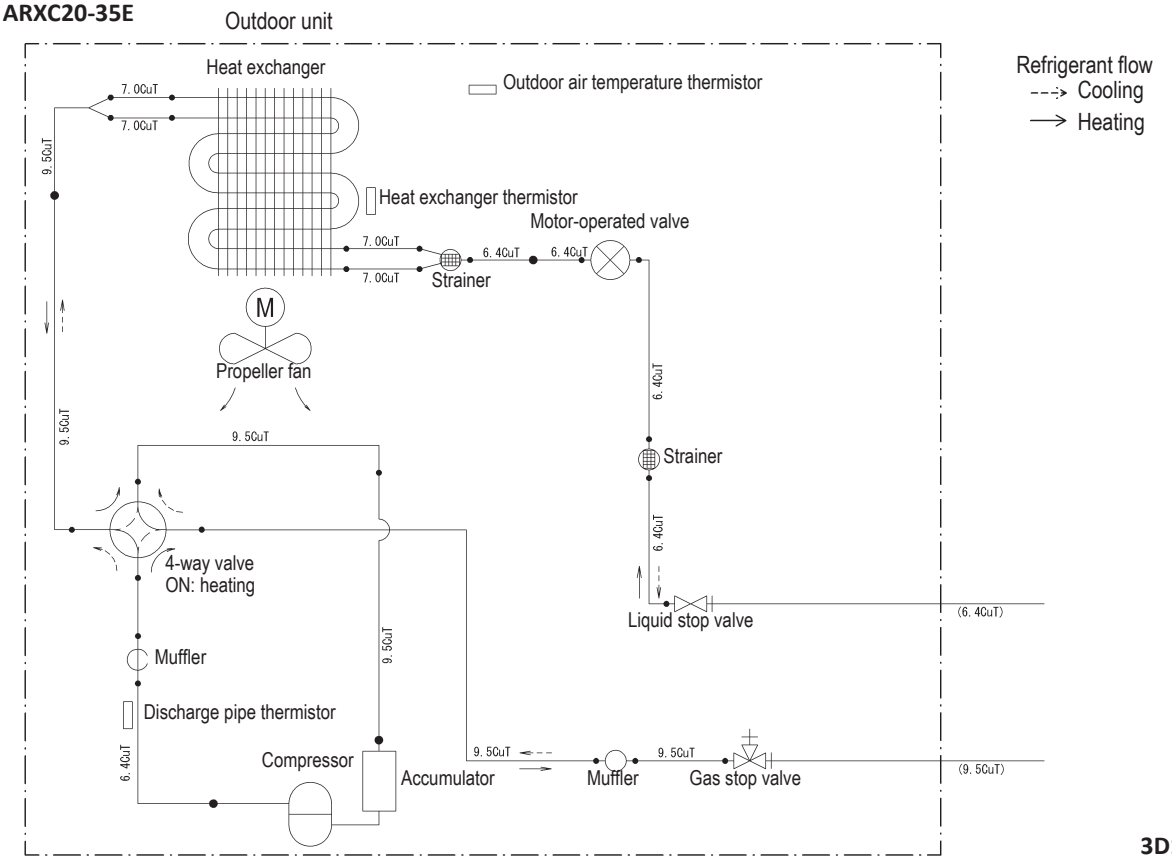
No	Description
1	Compressor
2	Terminal cover
3	Overload relay mounting plate
4	Heat exchanger assy
5	Gas stop valve assy
6	Liquid stop valve assy
7	Motor operated valve assy
8	Four way valve assy
9	Four way valve coil assy
10	El. compo. assy
10.1	Control module
10.2	Outdoor thermistor
10.3	Harness wire
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

3D120856C

6 Piping diagrams

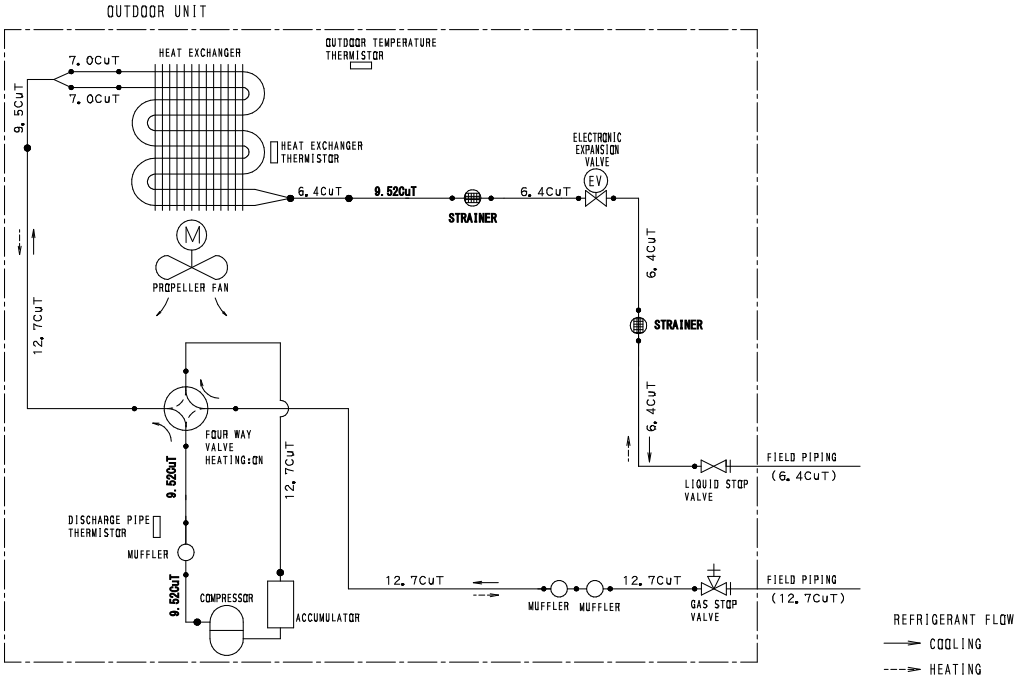
6 - 1 Piping Diagrams

RXC20-35E
ARXC20-35E



3D120828D

ARXC50-60E
RXC50-60E

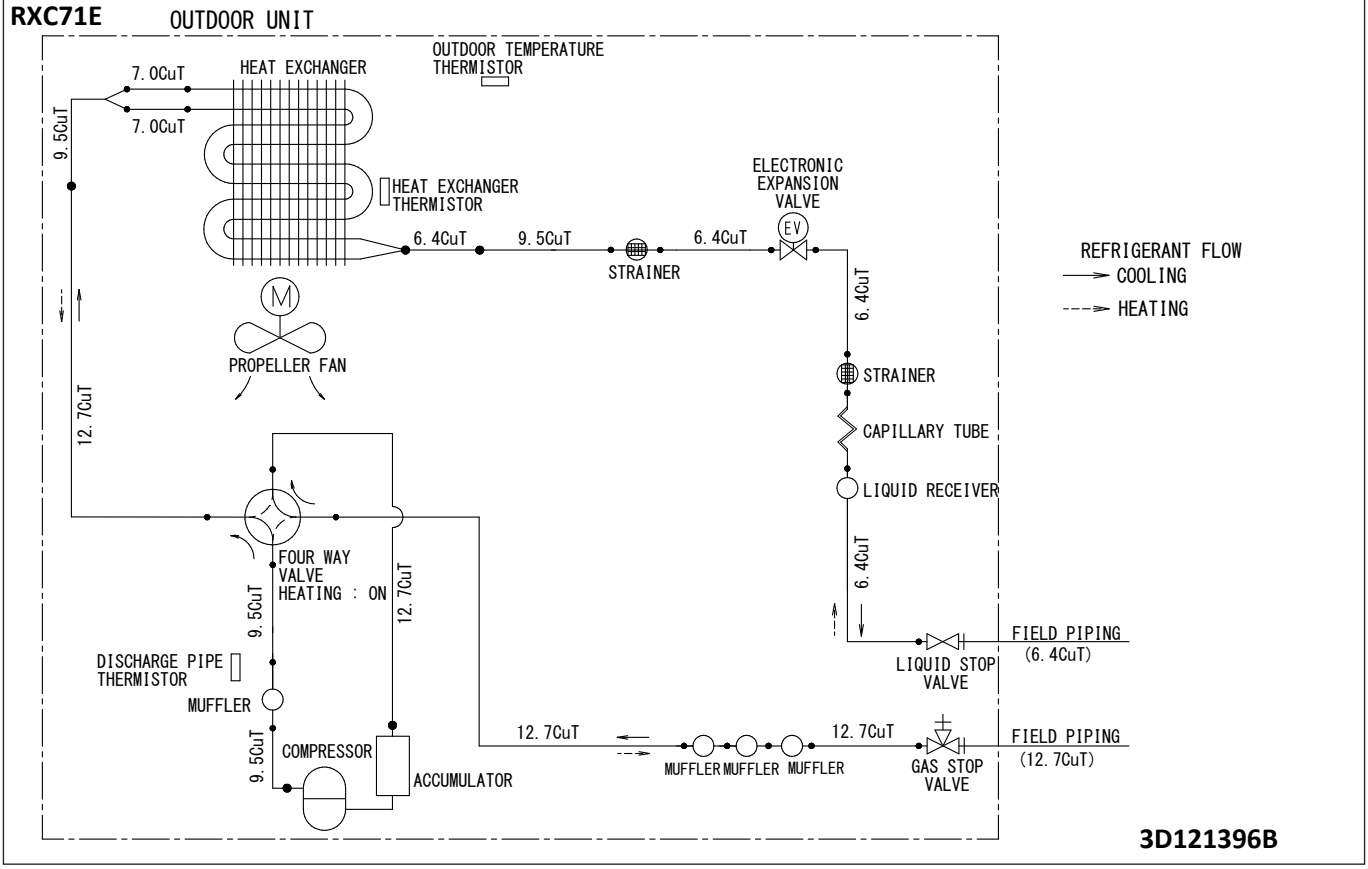


3D120827D

6 Piping diagrams

6 - 1 Piping Diagrams

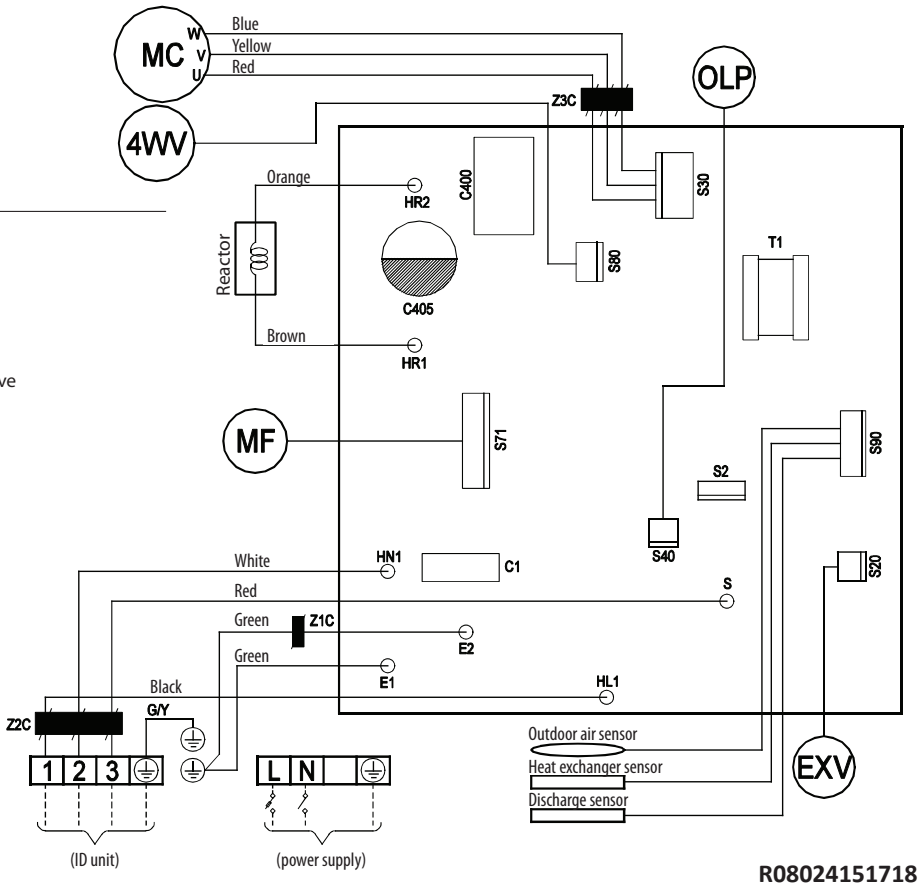
ARXC71E
RXC71E



7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

ARXC20-35E
RXC20-35E

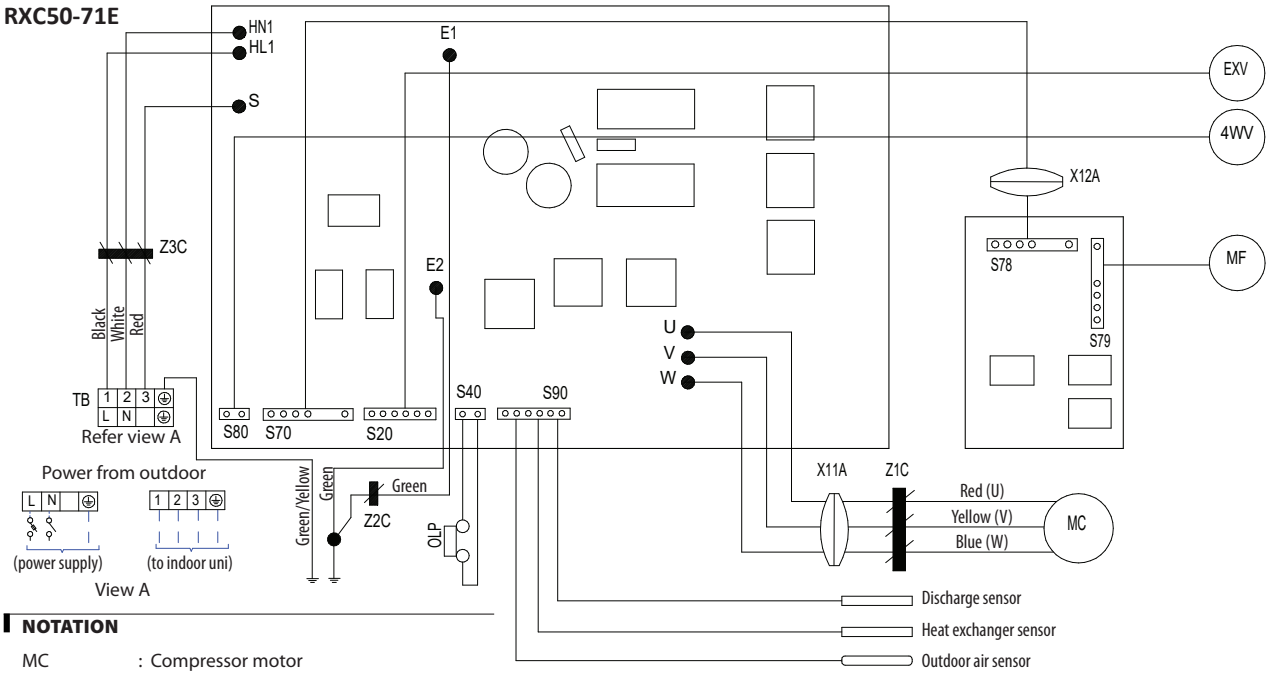


NOTATION

MF	:	Fan motor
MC	:	Compressor motor
OLP	:	Overload protector
Z1C, Z2C, Z3C	:	Ferrite core
ID	:	Indoor
EXV	:	Electronic expansion valve
4WV	:	Four way valve
_ _ _ _	:	Field supply wiring

R08024151718

ARXC50-71E
RXC50-71E



NOTATION

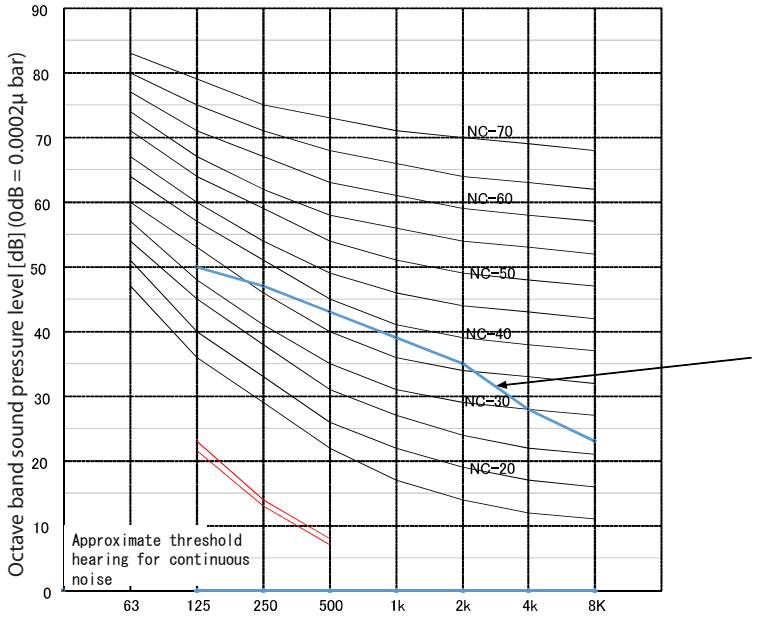
MC	:	Compressor motor
MF	:	Fan motor
OLP	:	Overload protector
TB	:	Terminal block
EXV	:	Electronic expansion valve coil
X11A, X12A	:	Connector
Z1C, Z2C, Z3C	:	Ferrite core
4WV	:	Four way valve
_ _ _ _	:	Field supply wiring

3P552447B

8 Sound data

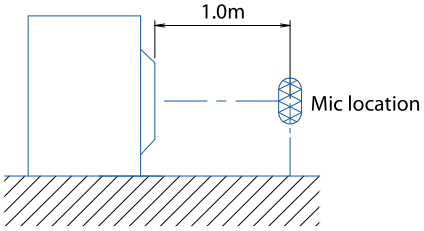
8 - 1 Sound Pressure Spectrum

ARXC20-25E
RXC20-25E



NOTES

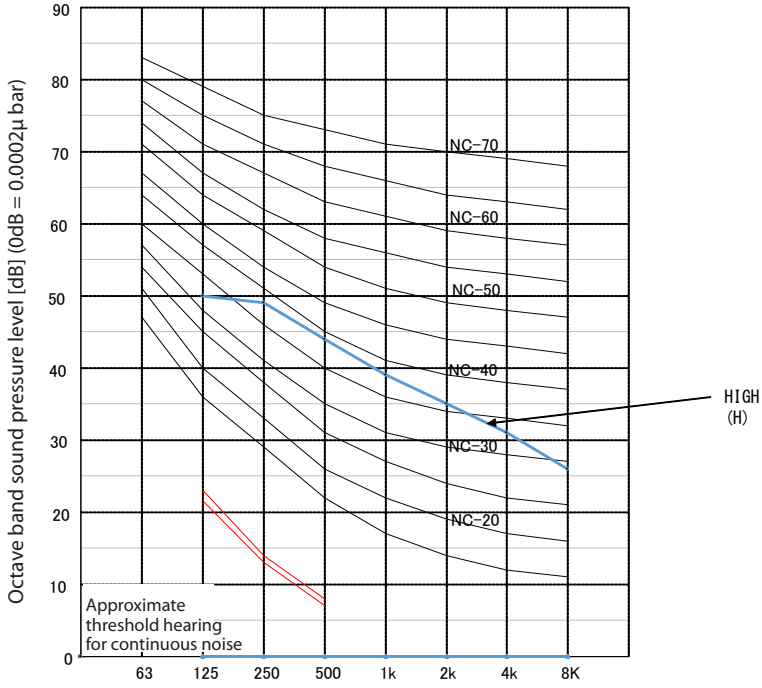
1. Measuring place
   Anechoic chamber
   Operation noise differs with operation and ambient conditions.
2. Operating conditions
   Power source: 220-240V 50Hz
3. Location of microphone.



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



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   Anechoic chamber
   Operation noise differs with operation and ambient conditions.
2. Operating conditions
   Power source: 220-240V 50Hz
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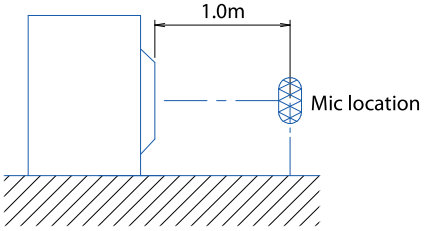


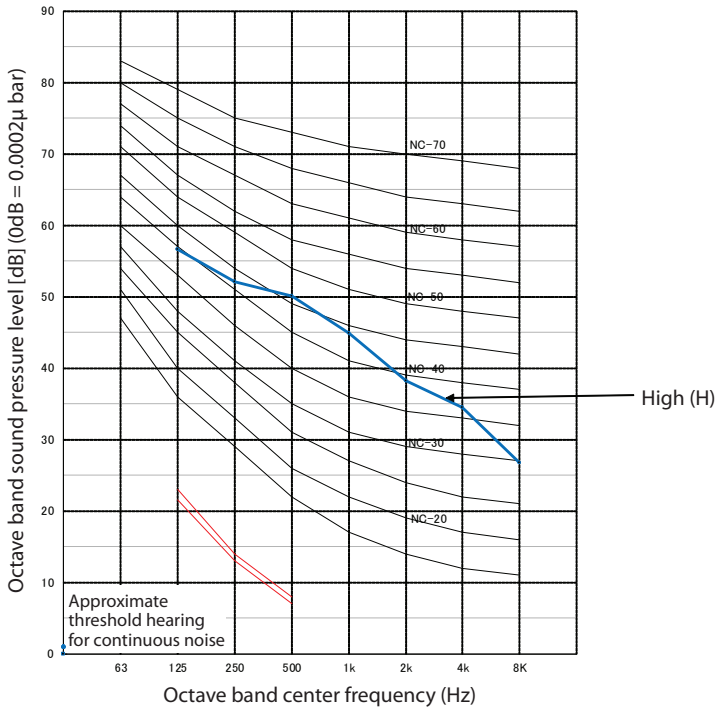
Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	50	49	44	39	35	31	26	46	39

3D141726

8 Sound data

8 - 1 Sound Pressure Spectrum

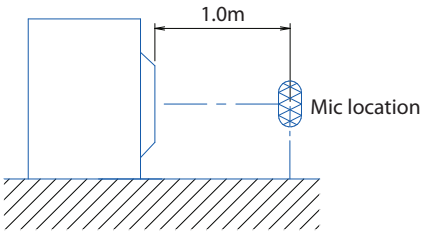
ARXC50E
RXC50E



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

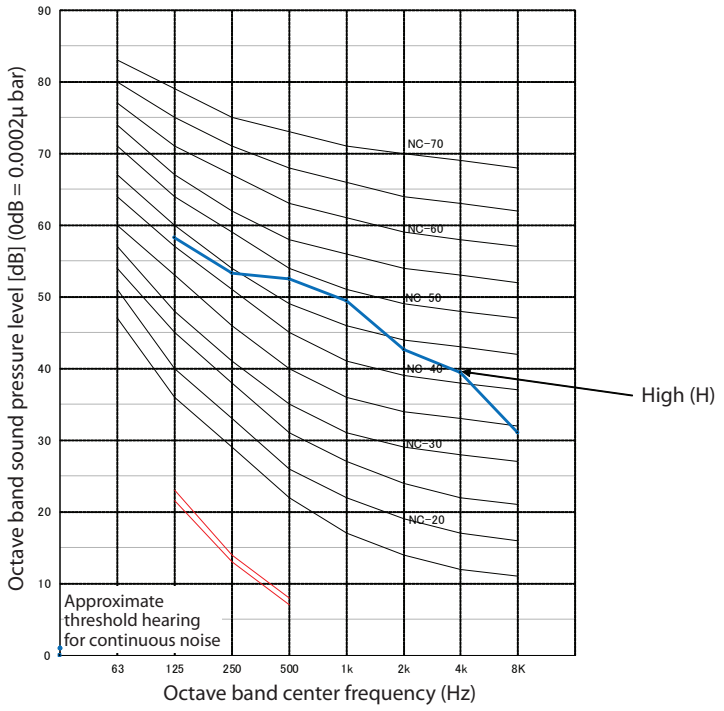
NOTES

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.



3D118144C

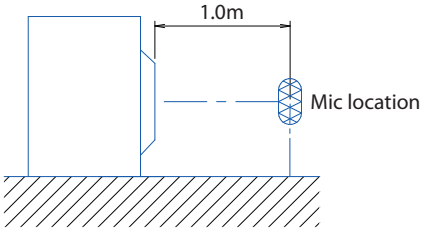
ARXC60E
RXC60E



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

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.

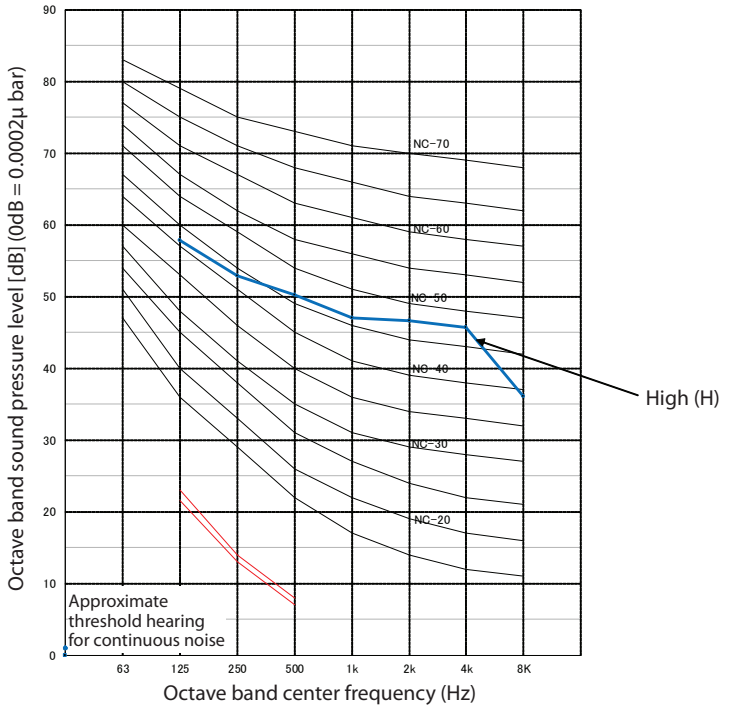


3D121139B

8 Sound data

8 - 1 Sound Pressure Spectrum

ARXC71E
RXC71E



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   Anechoic chamber
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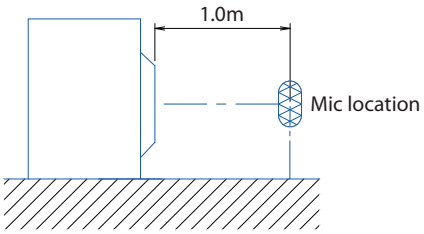


Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	58	53	50	47	47	46	36	54	48

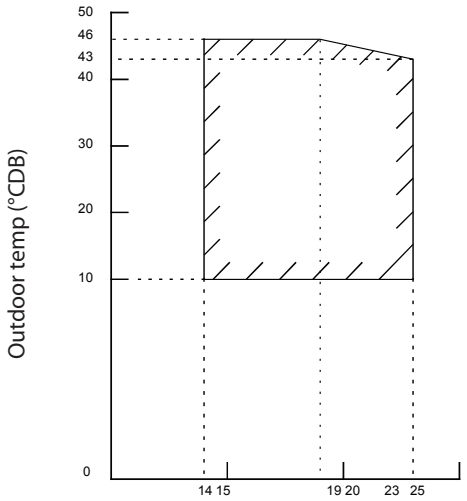
3D121445B

9 Operation range

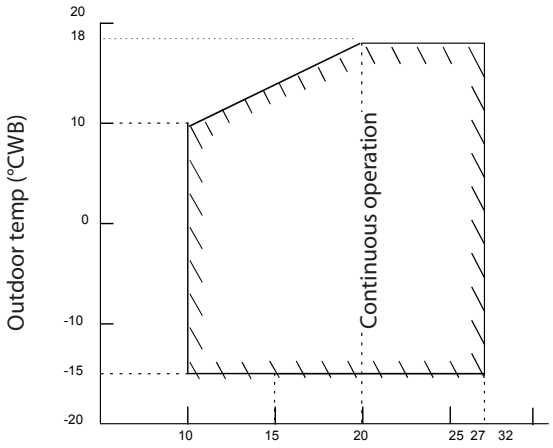
9 - 1 Operation Range

RXC20-35D
ARXC20-35D

Cooling



Heating

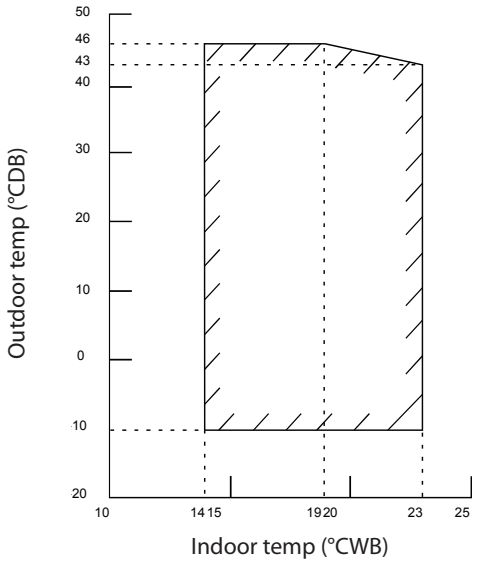


DB: Dry bulb WB: Wet bulb

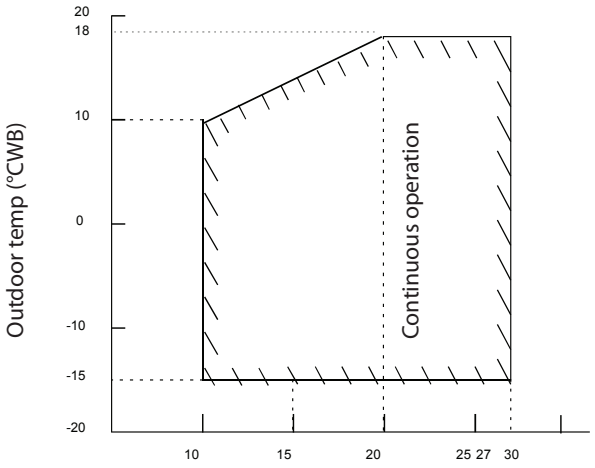
3P621327-2E / 3P622386-2E

RXC50-71D
ARXC50-71D

Cooling



Heating



DB: Dry bulb WB: Wet bulb

3P621327-2E / 3P622386-2E

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