Air Conditioning Technical Data

ARXC-D

EEDEN22

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ARXC-D

1 Features

1 - 1 ARXC-D

› 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 for pair application
› Daikin outdoor units are equipped with an anti-corrosion treated heat exchanger (blue fin) which ensures greater resistance to the most severe weather conditions
› 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

Inverter

2 Specifications

2 - 1 Specifications

Technical specifications				ATXC20D + ARXC20D	ATXC25D + ARXC25D	ATXC35D + ARXC35D	ATXC50D + ARXC50D	ATXC60D + ARXC60D	ATXC71D + ARXC71D
Indoor unit				ATXC20DV1B	ATXC25DV1B	ATXC35DV1B	ATXC50DV1B	ATXC60DV1B	ATXC71DV1B
Outdoor unit				ARXC20DV1B	ARXC25DV1B	ARXC35DV1B	ARXC50DV1B	ARXC60DV1B	ARXC71DV1B
Cooling capacity	Min.		kW	1.3			1.4	1.8	2.3
	Min.		Btu/h	4,400.0			4,700.0	6,100.0	7,800.0
	Rated		kW	2.00	2.56	3.50	5.10	6.23	7.10
	Rated		Btu/h	6,800.00	8,700.00	11,900.00	17,400.00	21,300.00	24,200.00
	Max.		kW	3.0		4.0	6.2	7.0	7.3
	Max.		Btu/h	10,200.0		13,600.0	21,200.0	23,900.0	24,900.0
Cooling capacity - Low sound mode (Stb. 2020, 189)	Min.		kcal/h	-					
	Max.		kcal/h	-					
Heating capacity	Min.		kW	1.30			1.36	1.48	2.30
	Min.		Btu/h	4,400.0			4,600.0	5,000.0	7,800.0
	Rated		kW	2.50	2.84	4.00	5.62	6.40	8.00
	Rated		Btu/h	8,500.00	9,700.00	13,600.00	19,200.00	21,800.00	27,300.00
	Max.		kW	4.00		4.80	6.60	8.00	9.00
	Max.		Btu/h	13,600.0		16,400.0	22,500.0	27,300.0	30,700.0
Power input	Cooling	Min.	kW	0.30		0.32	0.30	0.38	0.44
		Nom.	kW	0.600	0.775	1.06	1.57	1.92	2.41
		Max.	kW	1.15		1.74	2.11	2.05	2.54
	Heating	Min.	kW	0.28			0.27	0.33	0.50
		Nom.	kW	0.670	0.755	1.08	1.52	1.73	2.49
		Max.	kW	1.35		1.57	1.85	2.35	2.74
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	2.08	2.57	3.44	5.08	6.21	6.96
	SEER			6.81	6.74	6.78	6.40	6.38	5.25
	Annual energy consumption		kWh/a	107	134	177	278	341	464
Space heating (Average climate)	Capacity	Pdesign	kW	1.87	2.23	2.24	3.90	4.10	6.35
	Energy efficiency class			A+					A
	SCOP/A			4.39	4.41	4.26	4.37	4.19	3.81
	Pdh Heating capacity at -10°		kW	1.38	1.57	1.71	2.99	3.49	5.36
	Annual energy consumption		kWh/a	597	708	737	1,249	1,371	2,332
	Required back up heating cap at design conditions		kW	0.480	0.660	0.520	0.910	0.610	0.990
Space heating (Warm climate)	Capacity	Pdesignh	kW	2.01	2.05	2.06	4.46	5.53	5.84
	Energy efficiency class			A+++					A++
	SCOP			5.76	5.78	5.67	5.28	5.22	4.58
	Annual energy consumption		kWh/a	489	497	509	1,183	1,483	1,784
	Required back up heating cap at design conditions		kW	0.00					
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	1.78	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	1.22
	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

2 - 1 Specifications

Technical specifications				ATXC20D + ARXC20D	ATXC25D + ARXC25D	ATXC35D + ARXC35D	ATXC50D + ARXC50D	ATXC60D + ARXC60D	ATXC71D + ARXC71D
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-14					
		Pdh (declared heating cap)	kW	1.03		1.36	2.37	3.30	5.02
		COPd (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
	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)		2.48	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)	Pdh (declared heating cap)	kW	1.65	1.97	1.98	3.45	3.63	5.62
		COPd (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	1.36	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)		4.64	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)	Pdh (declared heating cap)	kW	0.900	0.90	0.99	1.58	1.74	2.30
		COPd (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)	Pdh (declared heating cap)	kW	1.11			1.77	1.78	1.80
		COPd (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
Space heating (Warm climate)	TBivalent	Tbiv (bivalent temperature)	°C	2					
		Pdh (declared heating cap)	kW	2.01	2.05	2.06	4.46	5.53	5.84
		COPd (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)	Pdh (declared heating cap)	kW	2.01	2.05	2.06	4.46	5.53	5.84
		COPd (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)	Pdh (declared heating cap)	kW	1.24	1.26	1.39	2.88	3.65	3.85
		COPd (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)	Pdh (declared heating cap)	kW	1.11			1.77	1.78	1.80
		COPd (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	0.00					
	Off mode	POFF	W	2.00					
	Standby mode	Cooling PSB	W	2.00					
		Heating PSB	W	2.0					
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	

Electrical specifications			ATXC20D + ARXC20D	ATXC25D + ARXC25D	ATXC35D + ARXC35D	ATXC50D + ARXC50D	ATXC60D + ARXC60D	ATXC71D + ARXC71D
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	6.9		7.9	10.2	11.5	
	Maximum fuse amps (MFA)	A	16					

Technical Specifications		ARXC20D	ARXC25D	ARXC35D	ARXC50D	ARXC60D	ARXC71D
Casing	Colour	Ivory white					
	Material	Sheet metal					

2 Specifications

2 - 1 Specifications

Technical Specifications					ARXC20D	ARXC25D	ARXC35D	ARXC50D	ARXC60D	ARXC71D
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	24.0		26.0	39.0		45.0
	Packed unit			kg	26		28	43		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	18.0					
	Face area			m^2	0.330		0.320	0.500		0.590
	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
	Running current	Cooling	Medium	A	0.3			0.4	0.6	1.0
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					
	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			dBA	58		60	65	66	69
Sound pressure level	Cooling	High		dBA	45		46	51	54	
Refrigerant	Type				R-32					
	Charge			kg	0.550		0.750	1.00	1.10	1.15
	Control				EXV					
	GWP				675.0					
Piping connections	Liquid	Type			Flare connection					
		OD		mm	6.35					
	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	8					
	Additional refrigerant charge			kg/m	0,017 (for piping length exceeding 7.5m)					
	Level difference	IU - OU	Max.	m	15.0			20.0		
	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				ARXC20D	ARXC25D	ARXC35D	ARXC50D	ARXC60D	ARXC71D
Power supply	Name			V1					
	Phase			1~					
	Frequency		Hz	50					
	Voltage		V	220-240					
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	6.2		6.7	10.2	10.5	11.5
		Heating	A	6.9		7.9	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)		A	16					

3 Electrical data

3 - 1 Electrical Data

ATXC-D / ARXC-D

Unit combination restrictions		Power supply							Comp				OFM				IFM			
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	ARXC20DV1B	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
ATXC25DV1B	ARXC25DV1B	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
ATXC35DV1B	ARXC35DV1B	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
ATXC50DV1B	ARXC50DV1B	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
ATXC60DV1B	ARXC60DV1B	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
ATXC71DV1B	ARXC71DV1B	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

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.

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4 Capacity tables

4 - 1 Cooling Capacity Tables

ATXC20D / ARXC20D

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

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

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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ATXC25D / ARXC25D

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

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

3D121075B

4 Capacity tables

4 - 1 Cooling Capacity Tables

ATXC35D / ARXC35D

Cooling: 220 - 240V 50Hz

AFR	11.04
BF	0.13

Indoor air temperature	Indoor air 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 air temperature												
EDB	-15		-10		-5		0		6		10	
°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

SYMBOLS

AFR	: Air flow rate	(m^3/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) capacites and power input.
2. TC, SHC and PI must be calculated by inerpolation 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

3D142027

ATXC50DV1B / ARXC50DV1B

Cooling: 220 - 240V 50Hz

AFR	12.46
BF	0.13

Indoor air temperature	Indoor air 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	2.58	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	5.38	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 air temperature												
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

SYMBOLS

AFR	: Air flow rate	(m^3/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) capacites and power input.
2. TC, SHC and PI must be calculated by inerpolation 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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4 Capacity tables

4 - 1 Cooling Capacity Tables

ATXC60D / ARXC60D

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

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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ATXC71D / ARXC71D

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

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:

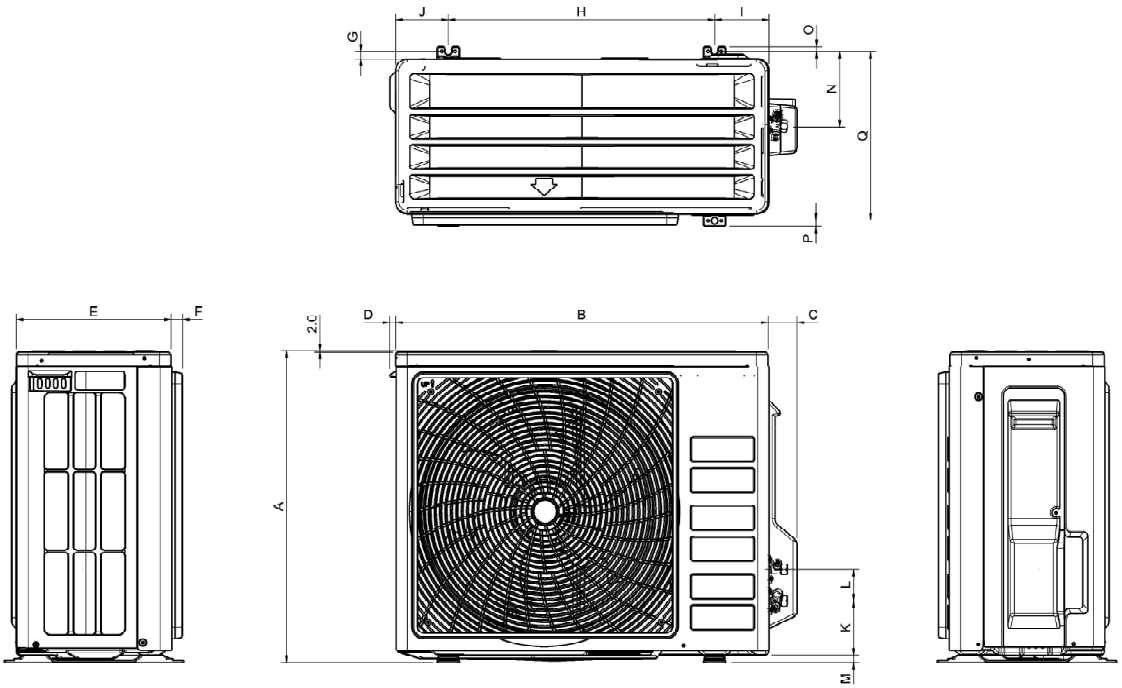
1. shows nominal (rated) capacities and power input.
2. TC, PI and SHC must be calculated by interpolation using the figures in the above tables.
3. Capacities are based on the following conditions.
   Corresponding refrigerant piping length : 7.5m
   Level difference : 0.0m

3D121398B

5 Dimensional drawings

5 - 1 Dimensional Drawings

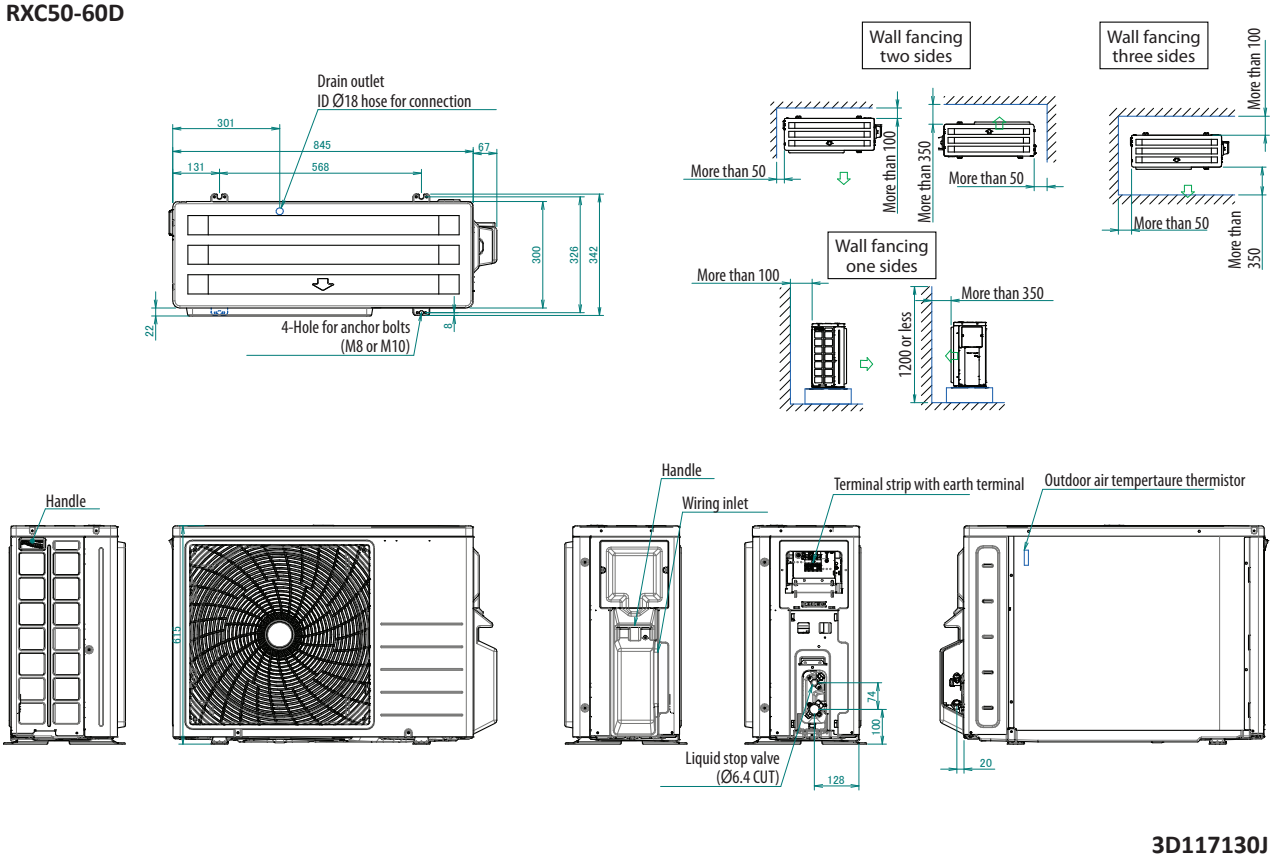
RXC20-35D
ARXC20-35D



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	170	96	93	91	60	14	133	8	10	299

R70014157623

ARXC50-60D
RXC50-60D



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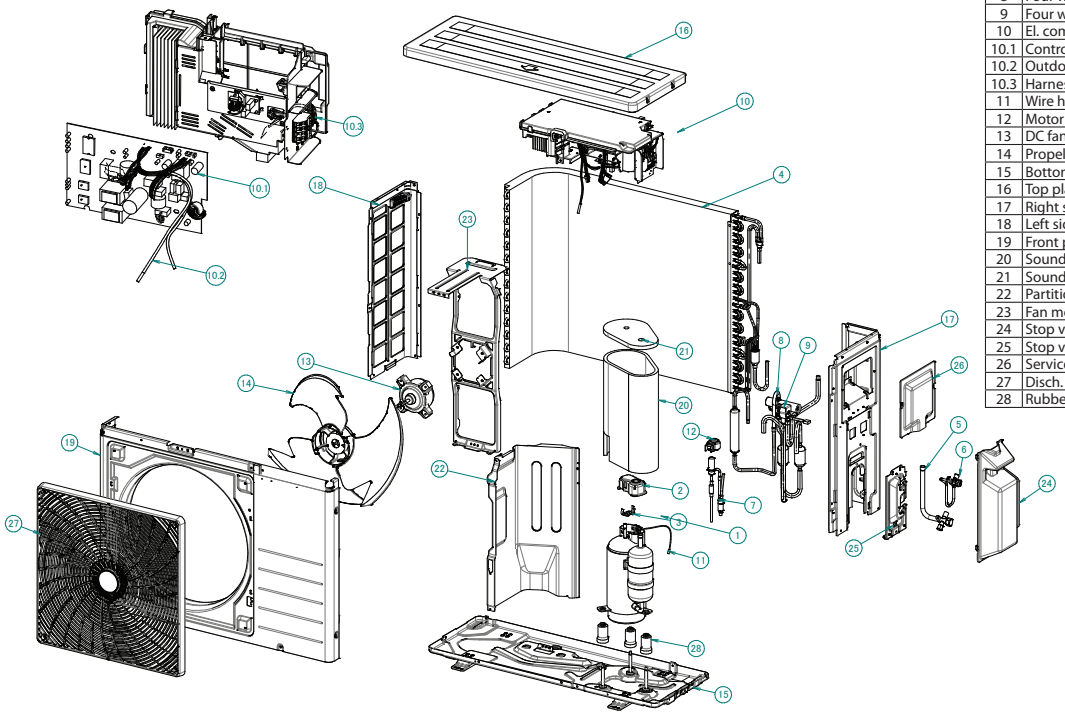
5 Dimensional drawings

5 - 1 Dimensional Drawings

ARXC50-60D
RXC50-60D



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

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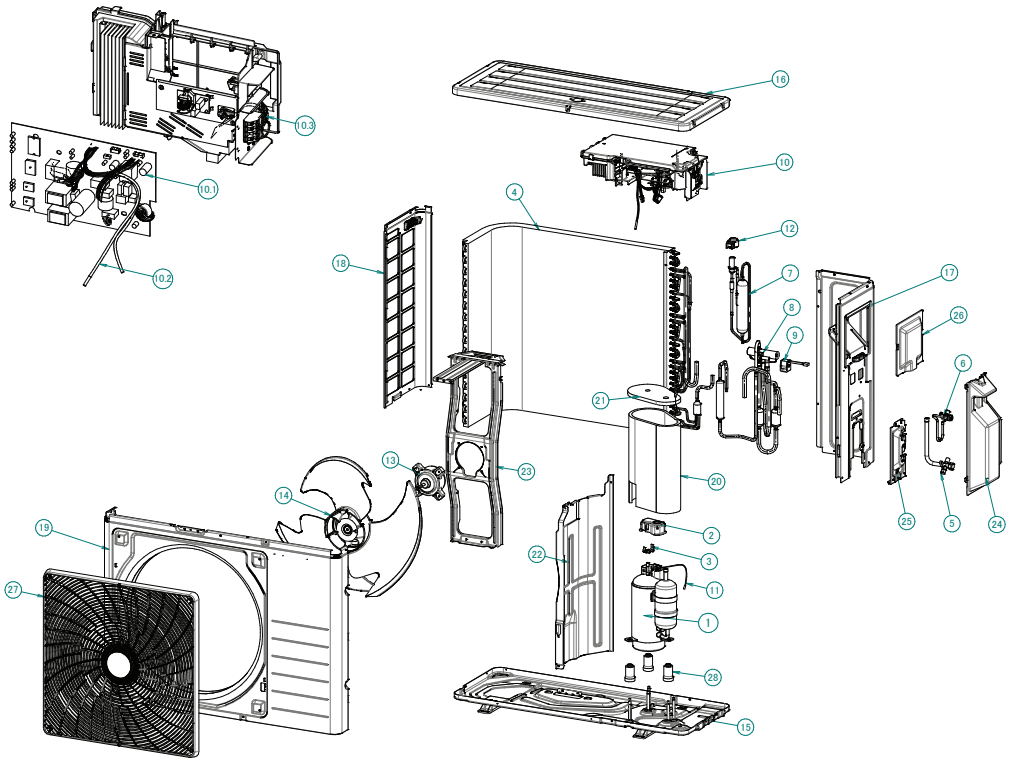
ARXC71D
RXC71D



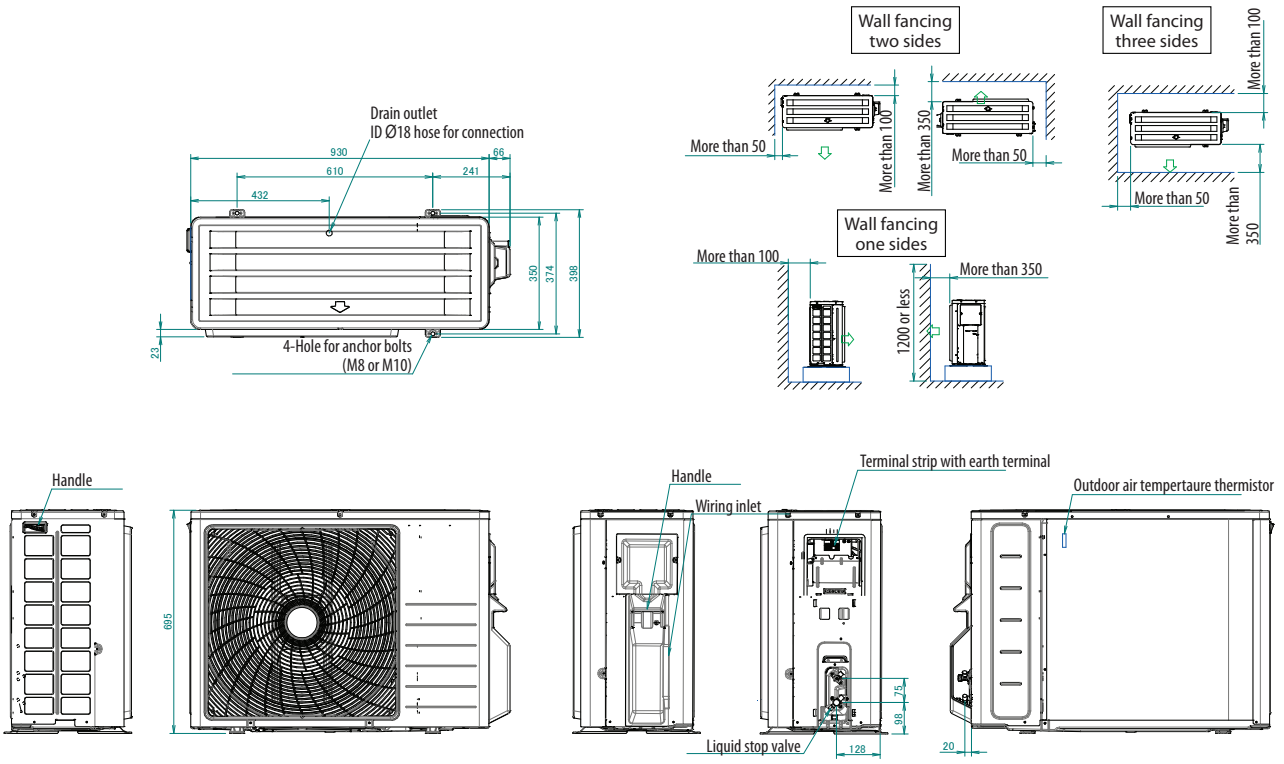
No	Description
1	Compressor
2	Terminal cover
3	Overload relay mounting plate
4	Heat exchanger assy
5	Gas stop valve assy
6	Liquid stop valve assy
7	Motor operated valve assy
8	Four way valve assy
9	Four way valve coil assy
10	El. compo. assy
10.1	Control module
10.2	Outdoor thermistor
10.3	Harness wire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

3D120856A

5 Dimensional drawings

5 - 1 Dimensional Drawings

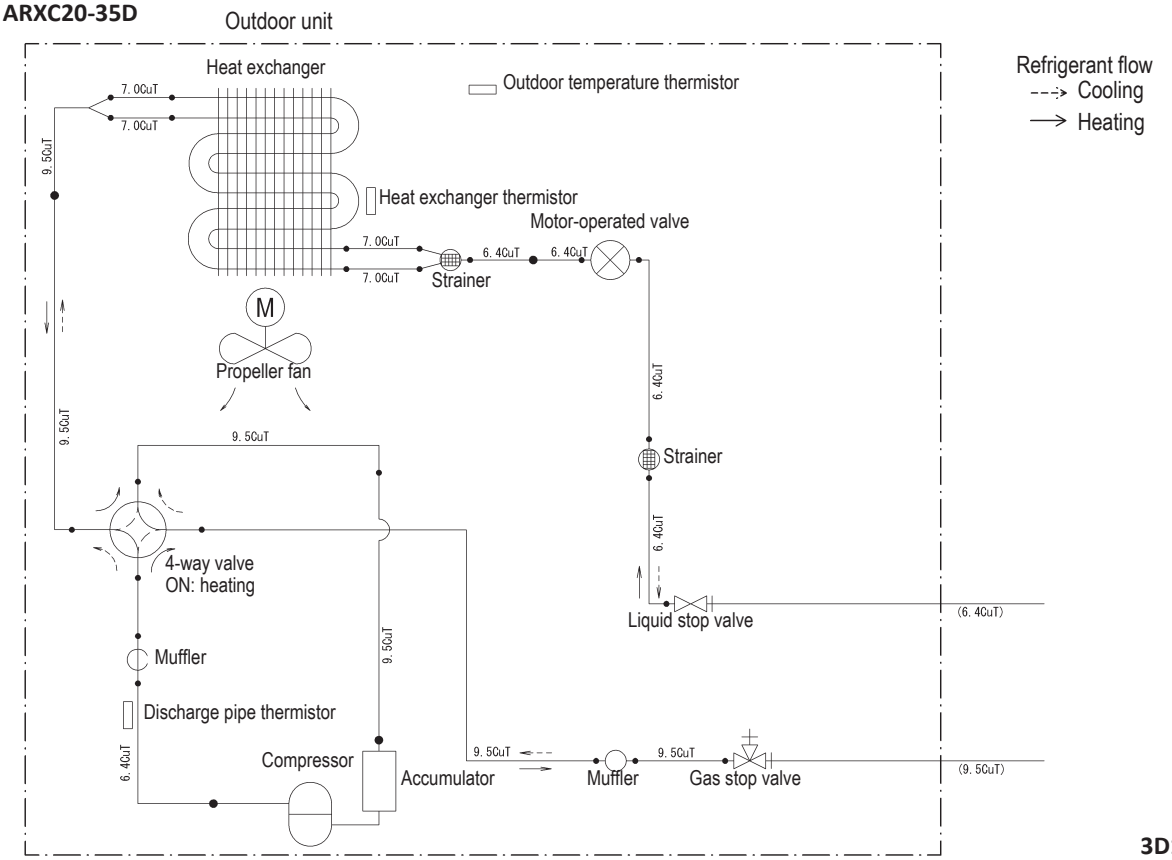
ARXC71D
RXC71D



6 Piping diagrams

6 - 1 Piping Diagrams

RXC20-35D
ARXC20-35D



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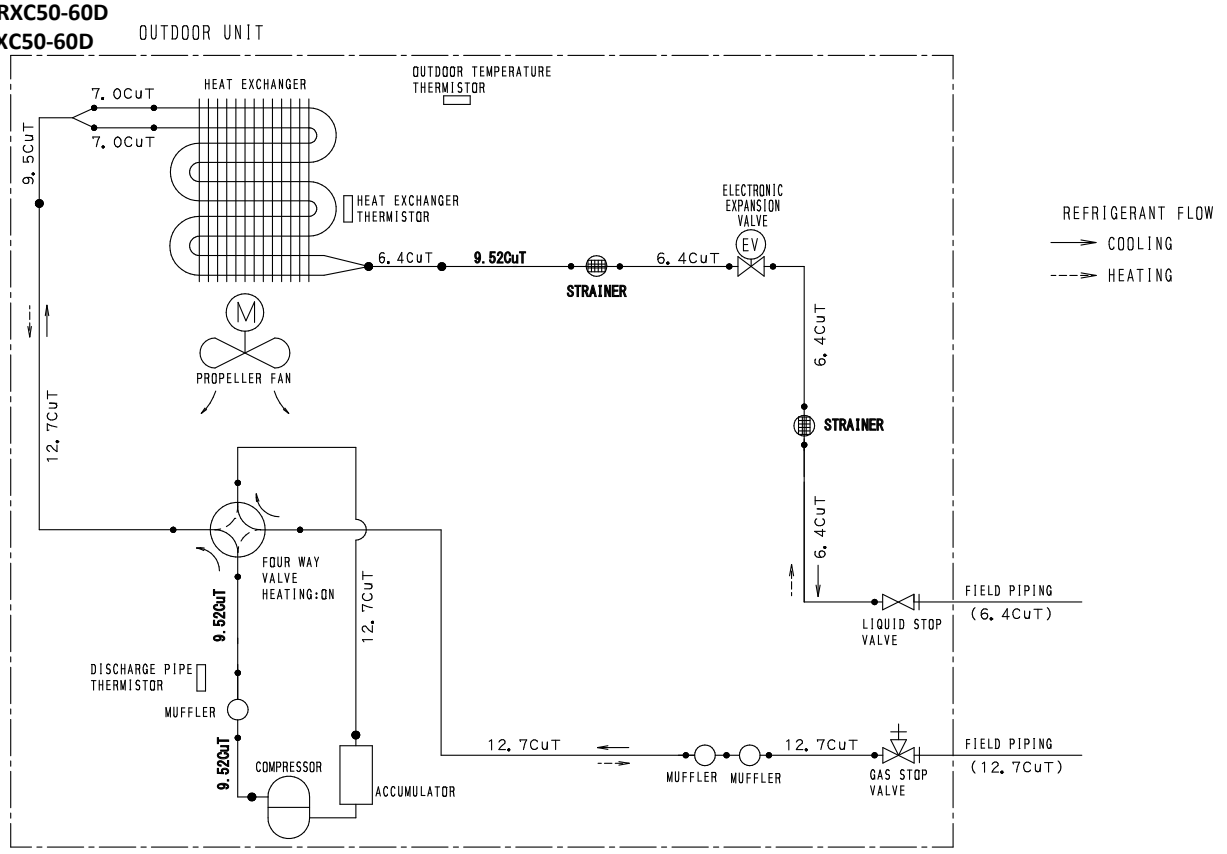
ARXC50-60D
RXC50-60D



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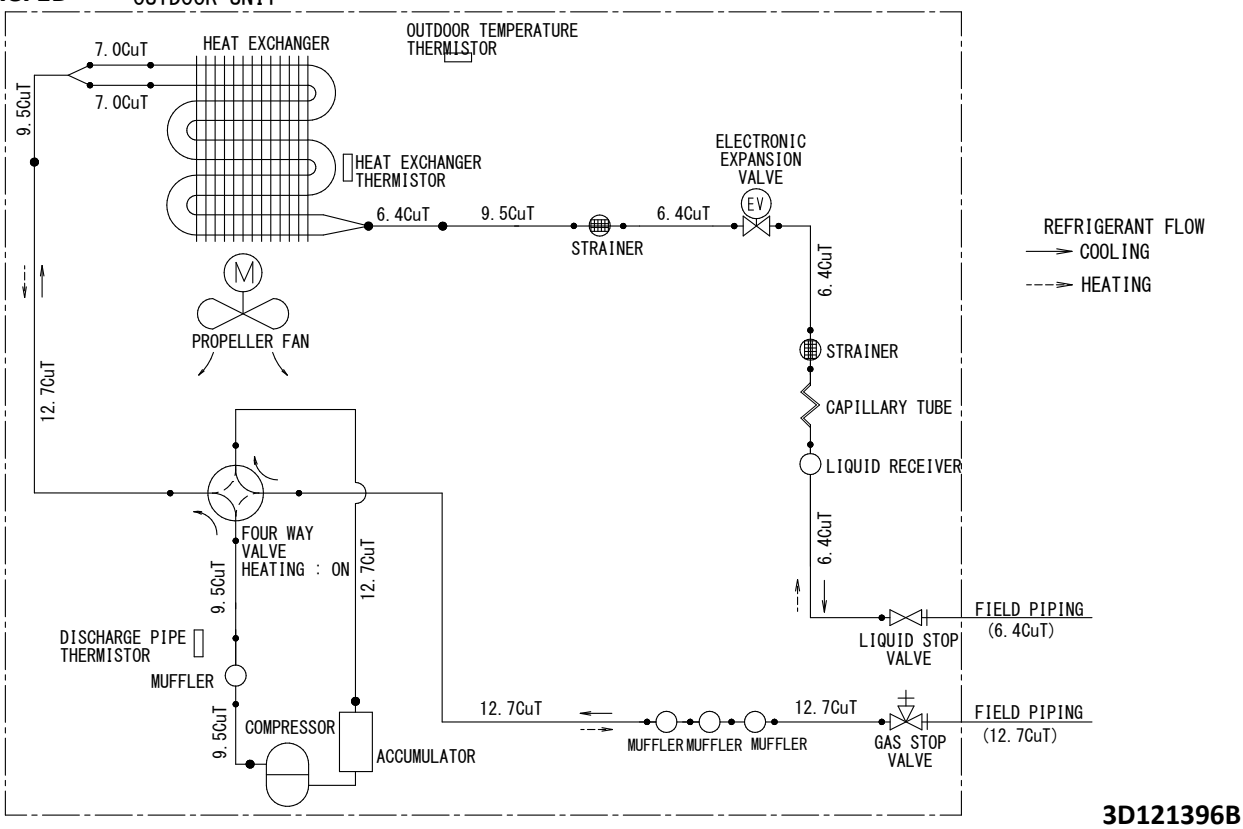
6 Piping diagrams

6 - 1 Piping Diagrams

ARXC71D
RXC71D

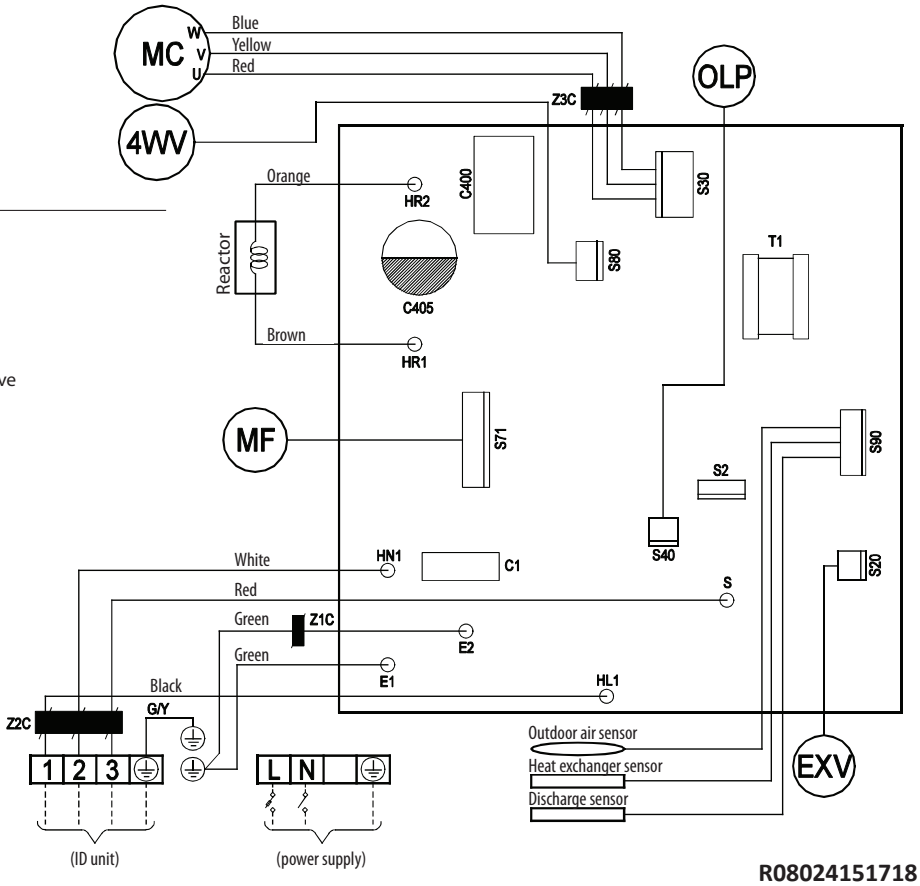


7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

7

ARXC20-35D
RXC20-35D

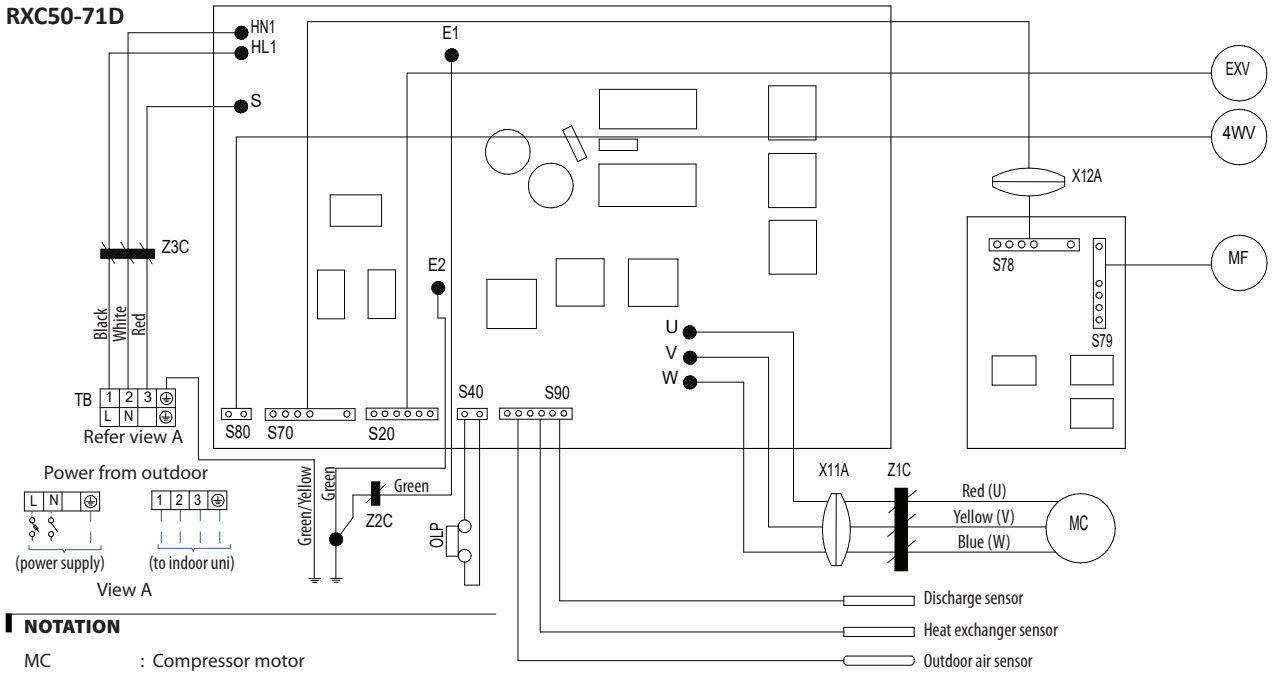


NOTATION

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

ARXC50-71D
RXC50-71D



NOTATION

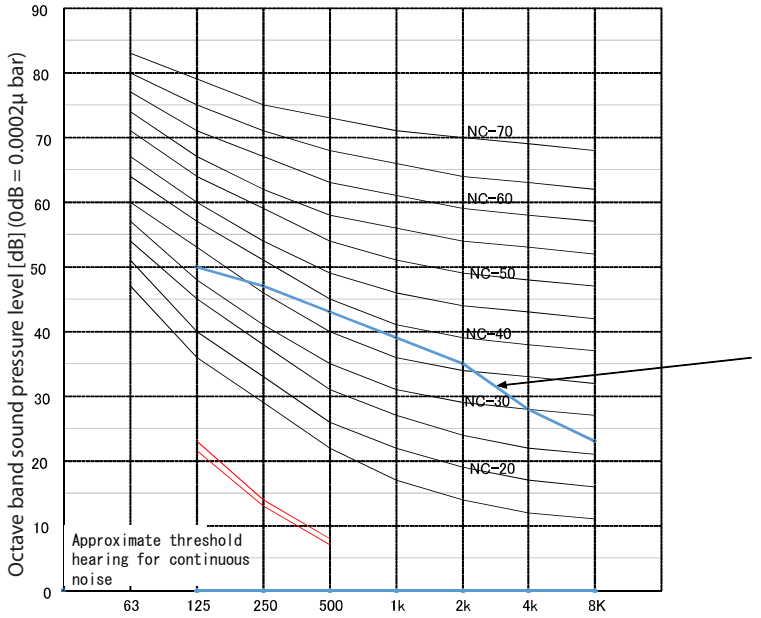
MC	:	Compressor motor
MF	:	Fan motor
OLP	:	Overload protector
TB	:	Terminal block
EXV	:	Electronic expansion valve coil
X11A, X12A	:	Connector
Z1C, Z2C, Z3C	:	Ferrite core
4WV	:	Four way valve
_ _ _ _	:	Field supply wiring

3P552447B

8 Sound data

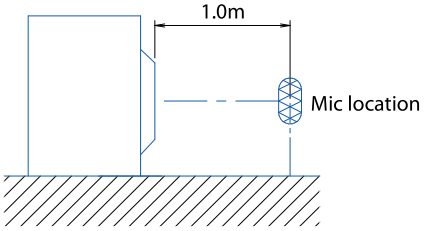
8 - 1 Sound Pressure Spectrum

ARXC20-25D
RXC20-25D



NOTES

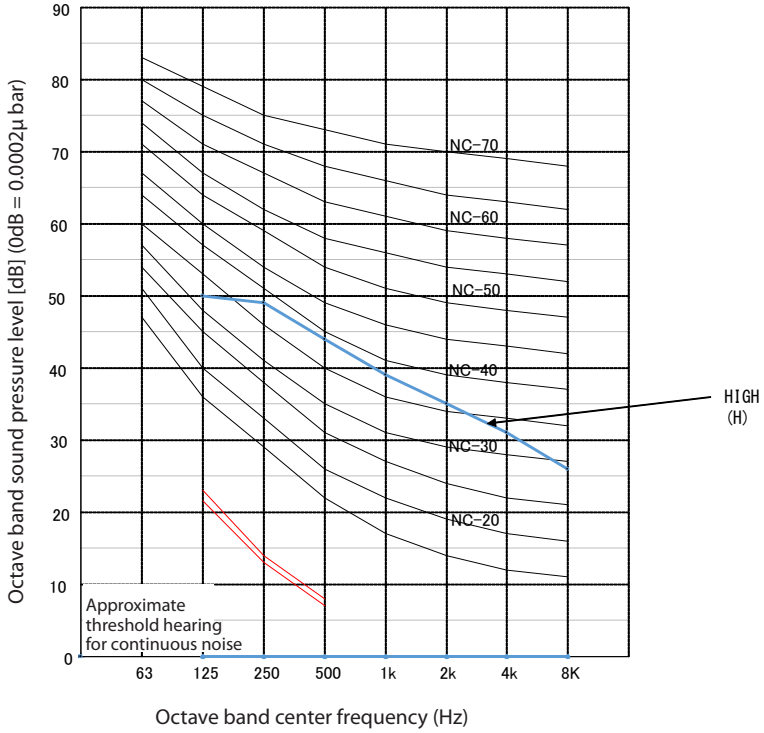
1. Measuring place
   Anechoic chamber
   Operation noise differs with operation and ambient conditions.
2. Operating conditions
   Power source: 220-240V 50Hz
3. Location of microphone.



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

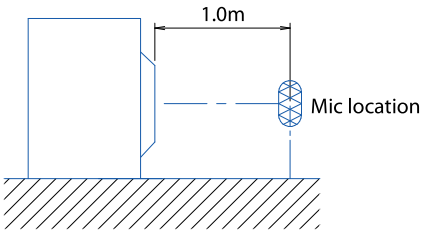
3D141724

ARXC35D
RXC35D



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.



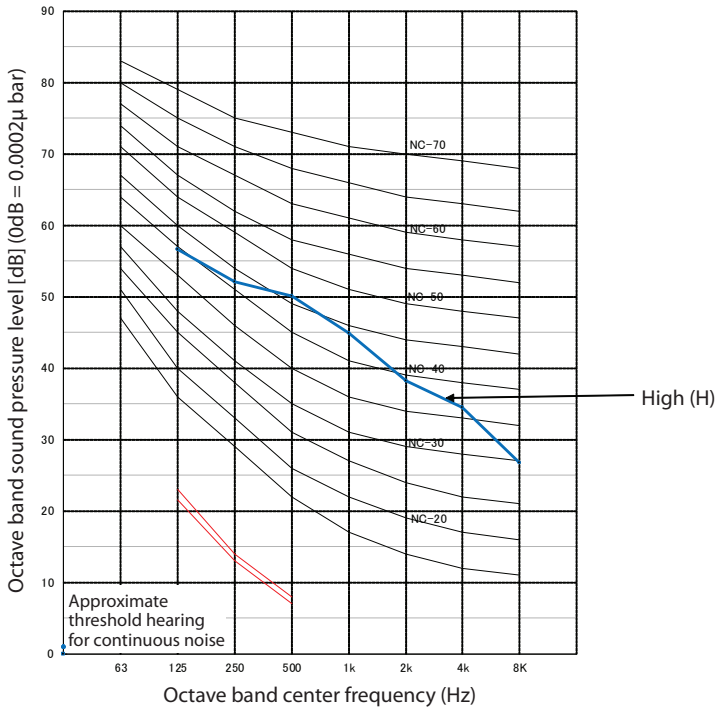
Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	50	49	44	39	35	31	26	46	39

3D141726

8 Sound data

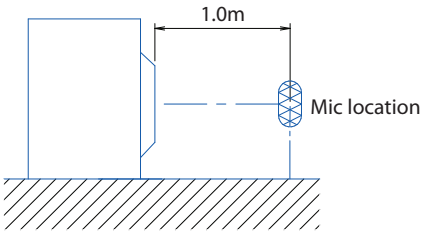
8 - 1 Sound Pressure Spectrum

ARXC50D
RXC50D



NOTES

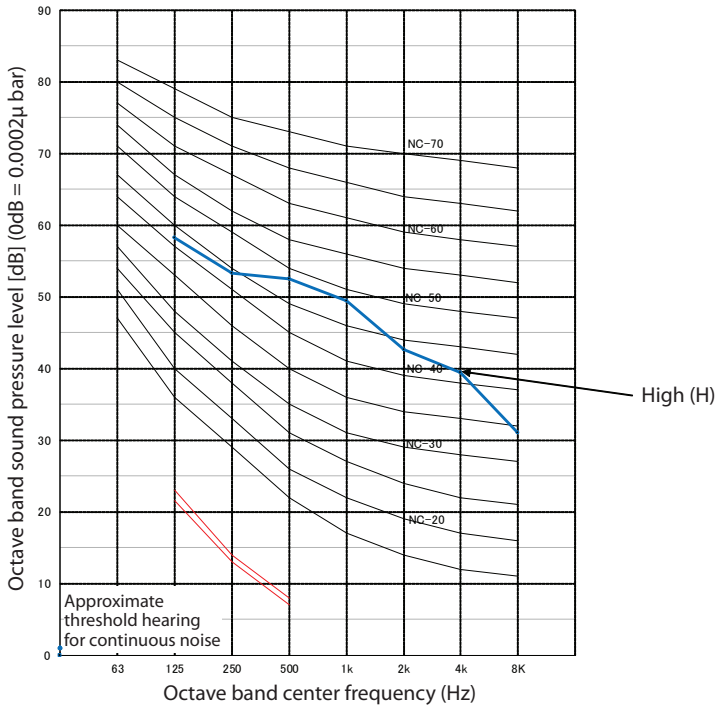
1. Measuring place
   Anechoic chamber
   Operation noise differs with operation and ambient conditions.
2. Operating conditions
   Power source: 220-240V 50Hz
3. Location of microphone.



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

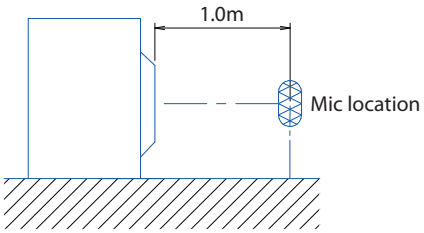
3D118144C

ARXC60D
RXC60D



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.



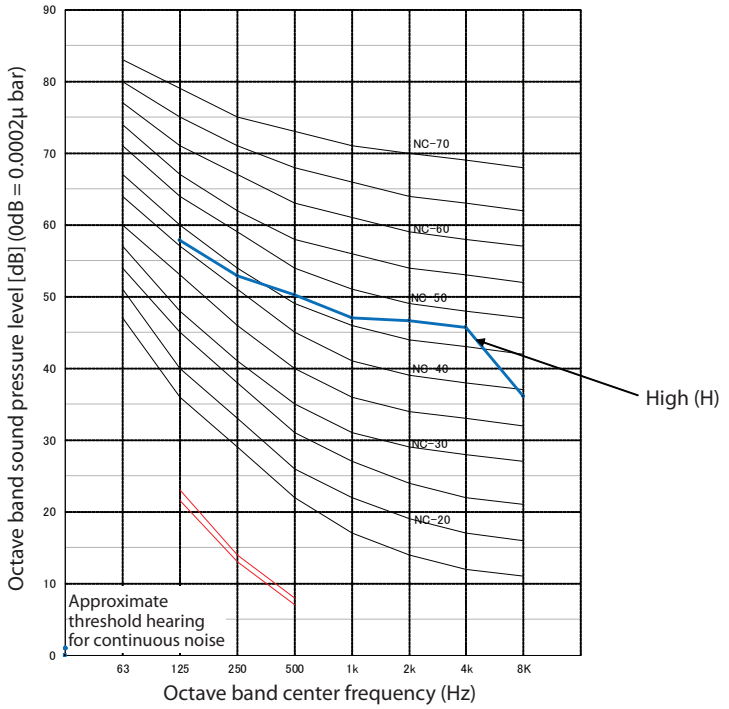
Testing Data Input								Overall (dBA)	Noise criteria
Fan speed	125	250	500	1k	2k	4k	8k		
H	58	53	52	49	43	39	31	54	49

3D121139B

8 Sound data

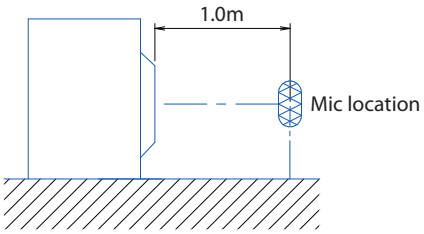
8 - 1 Sound Pressure Spectrum

ARXC71D
RXC71D



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

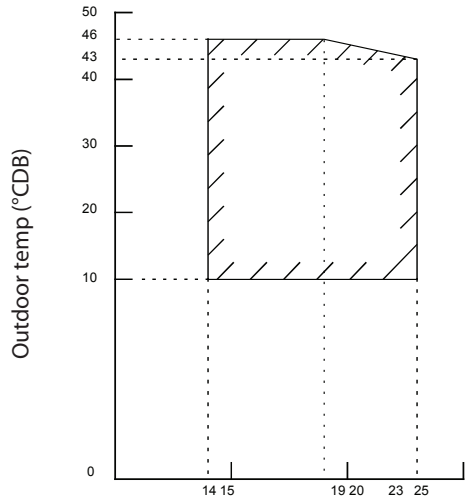
3D121445B

9 Operation range

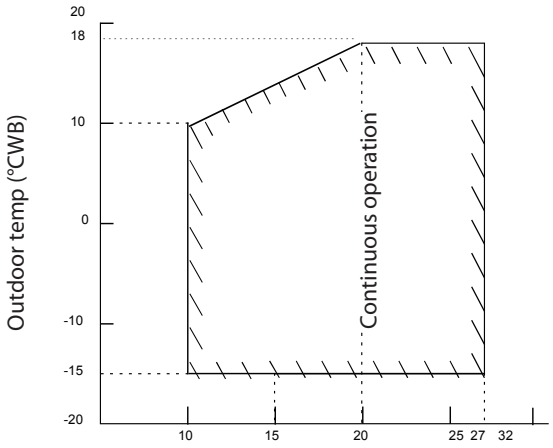
9 - 1 Operation Range

RXC20-35D
ARXC20-35D

Cooling



Heating

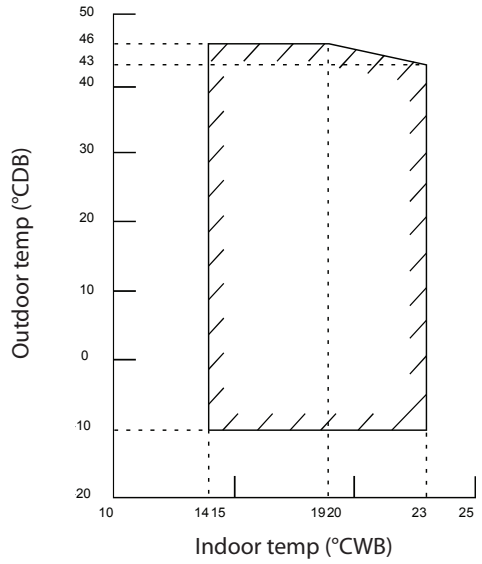


DB: Dry bulb WB: Wet bulb

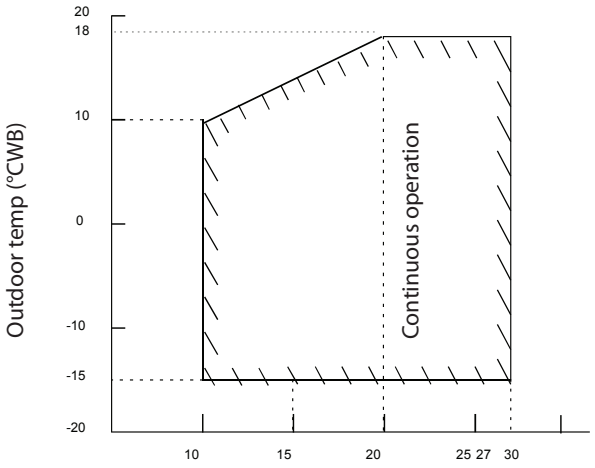
3P621327-2E / 3P622386-2E

RXC50-71D
ARXC50-71D

Cooling



Heating



DB: Dry bulb WB: Wet bulb

3P621327-2E / 3P622386-2E

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