

Air Conditioning
Technical Data

ARX-K



TABLE OF CONTENTS

ARX-K

1	Features	2
2	Specifications	3
	Capacity and Power input	3
	Technical Specifications	7
	Electrical Specifications	8
3	Electrical data.....	9
4	Capacity tables	10
	Cooling/Heating Capacity Tables	10
5	Dimensional drawings	13
6	Centre of gravity	14
7	Piping diagrams	15
8	Wiring diagrams	16
	Wiring Diagrams - Single Phase	16
9	Sound data	17
	Sound Pressure Spectrum	17
10	Operation range	19

1 Features

- Energy saving during standby mode: reduces current consumption by about 80% when operating in standby. If no people are detected for more than 20 minutes, the system will automatically switch to the current-saving mode.
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Outdoor units for pair application



Energy saving
during standby
mode

2 Specifications

2-1 Capacity and Power input				ATX20KV/ARX20K	ATX25KV/ARX25K	ATX35KV/ARX35K
Cooling capacity	Min.		kW	1.3		
			Btu/h	4,400		
			kcal/h	1,120		
	Nom.		kW	2.0 (1)	2.5 (1)	3.5 (1)
			Btu/h	6,800	8,500	11,900
			kcal/h	1,720	2,150	3,010
	Max.		kW	2.6	3.0	4.0
			Btu/h	8,900	10,200	13,600
			kcal/h	2,240	2,580	3,440
Heating capacity	Min.		kW	1.3		
			Btu/h	4,400		
			kcal/h	1,120		
	Nom.		kW	2.5 (1)	3.0 (1)	4.0 (1)
			Btu/h	8,500	10,200	13,600
			kcal/h	2,150	2,580	3,440
	Max.		kW	3.5	4.0	4.8
			Btu/h	11,900	13,600	16,400
			kcal/h	3,010	3,440	4,130
Power input	Cooling	Min.	kW	0.310		0.290
		Nom.	kW	0.504	0.661	1.020
		Max.	kW	0.720		1.300
	Heating	Min.	kW	0.250		0.290
		Nom.	kW	0.524 (1)	0.688 (1)	0.995 (1)
		Max.	kW	0.950		1.290
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class		A++		-
		Pdesign	kW	2.00	2.50	-
		SEER		6.62	6.46	-
		Annual energy consumption		kWh	106	185
		A Condition (35°C - 27/19)	Pdc	kW	2.00	2.50
			EERd	3.97	3.78	-
			power input	kW	0.50	0.66
		B Condition (30°C - 27/19)	Pdc	kW	1.47	1.84
			EERd	6.26	5.13	-
			power input	kW	0.23	0.36
		C Condition (25°C - 27/19)	Pdc	kW	1.22	-
			EERd	8.56	8.46	-
			power input	kW	0.14	-
		D Condition (20°C - 27/19)	Pdc	kW	1.32	-
			EERd	9.68	9.57	-
			power input	kW	0.14	-
	Heating (Average climate)	Energy efficiency class		A++		-
		Pdesign	kW	2.20	2.40	-
		SCOP/A		4.64	4.60	-
		SCOPnet/A		4.71	4.67	-
		Pdh Heating capacity at -10°	kW	1.74	1.85	-
		Annual energy consumption		kWh	664	730
		Required back up heating cap at design conditions		kW	0.46	0.55
		TOL	Tol (temperature operating limit)	°C	-15	-
			Pdh (declared heating cap)	kW	1.40	-
			COPd (declared COP)		1.82	-
			Power input	kW	0.77	-

2 Specifications

2-1 Capacity and Power input					ATX20KV/ARX20K		ATX25KV/ARX25K		ATX35KV/ARX35K			
Seasonal efficiency (according to EN14825)	Heating (Average climate)	TBivalent	Tbiv (bivalent temperature)	°C	-7				-			
			Pdh (declared heating cap)	kW	1.95		2.12		-			
			COPd (declared COP)		2.91		2.84		-			
			Power input	kW	0.67		0.75		-			
		A Condition (- 7°C)	Pdh (declared heating cap)	kW	1.95		2.12		-			
			COPd (declared COP)		2.91		2.84		-			
			Power input	kW	0.67		0.75		-			
		B Condition (2°C)	Pdh (declared heating cap)	kW	1.18		1.29		-			
			COPd (declared COP)		4.84		4.74		-			
			Power input	kW	0.24		0.27		-			
		C Condition (7°C)	Pdh (declared heating cap)	kW	0.92				-			
			COPd (declared COP)		6.10		6.13		-			
			Power input	kW	0.15				-			
		D Condition (12°C)	Pdh (declared heating cap)	kW	1.02				-			
			COPd (declared COP)		7.08		7.12		-			
			Power input	kW	0.14				-			
		Heating (Warm climate)	Energy efficiency class			A+++				-		
			Pdesignh		kW	1.18		1.29		-		
			SCOP			5.48		5.59		-		
			SCOPnet			5.78		5.88		-		
			Annual energy consumption		kWh	302		323		-		
			Required back up heating cap at design conditions			kW	0.00				-	
			TOL	Tol (temperature operating limit)	°C	-15				-		
				Pdh (declared heating cap)	kW	1.40				-		
	COPd (declared COP)			1.82				-				
	Power input			kW	0.77				-			
	TBivalent		Tbiv (bivalent temperature)	°C	5		6		-			
			Pdh (declared heating cap)	kW	1.18		1.29		-			
			COPd (declared COP)		4.84		4.74		-			
			Power input	kW	0.24		0.27		-			
	B Condition (2°C)		Pdh (declared heating cap)	kW	1.18		1.29		-			
			COPd (declared COP)		4.84		4.74		-			
			Power input	kW	0.24		0.27		-			
	C Condition (7°C)		Pdh (declared heating cap)	kW	0.92				-			
			COPd (declared COP)		6.10		6.13		-			
			Power input	kW	0.15				-			
	D Condition (12°C)		Pdh (declared heating cap)	kW	1.0				-			
			COPd (declared COP)		7.08		7.12		-			
			Power input	kW	0.14				-			
	Piping connections		Drain	OD		mm	18					
Gas			OD		mm	9.5						
Heat insulation				Both liquid and gas pipes								
Liquid			OD		mm	6.35						
Power supply	Frequency			Hz	50							
	Phase				1~							
	Voltage			V	220-240							

2 Specifications

2-1 Capacity and Power input				ATX20KV/ARX20K	ATX25KV/ARX25K	ATX35KV/ARX35K
Current	Nominal running current (RLA) - 50Hz	Cooling	A	2.47	3.25	5.42
		Heating	A	2.67	3.50	5.03
Pto (Thermostat off)			W	21.0		
Cooling	Psb (Standby mode cooling)		W	1.0		-
	Cdc (Degradation cooling)			0.25		
Heating	Psb (Standby mode heating)		W	1.0		-
	Cdh (Degradation heating)			0.25		
Pck (Crankcase heater mode)			W	0.0		-
Poff (Off mode)			W	1.0		-
Cooling function included				Yes		
Heating function included				Yes		
Average climate included				Yes		
Cold season included				No		
Warm season included				No		
Nominal efficiency	EER			3.97 (2)	3.78 (2)	3.43 (2)
	COP			4.77 (2)	4.36 (2)	4.02 (2)
	Annual energy consumption		kWh	252	331	511
	Energy labeling Directive	Cooling		A		
Heating		A				
Power factor	Nominal	Cooling	%	88.6		81.9
		Heating	%	85.5		86.0

Notes

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

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

2-1 Capacity and Power input				ATX20J3/ARX20K	ATX25J3/ARX25K	ATX35J3/ARX35K
Indoor unit				ATX20J3	ATX25J3	ATX35J3
Outdoor unit				ARX20K	ARX25K	ARX35K
Cooling capacity	Min.		kW	1.3		
			Btu/h	4,400		
			kcal/h	1,120		
	Nom.		kW	2.0 (1)	2.5 (1)	3.3 (1)
			Btu/h	6,800 (1)	8,500 (1)	11,300 (1)
			kcal/h	1,720 (1)	2,150 (1)	2,840 (1)
	Max.		kW	2.6	3.0	3.8
			Btu/h	8,900	10,200	13,000
			kcal/h	2,240	2,580	3,270
Heating capacity	Min.		kW	1.3		
			Btu/h	4,400		
			kcal/h	1,120		
	Nom.		kW	2.5 (1)	2.8 (1)	3.5 (1)
			Btu/h	8,500 (1)	9,600 (1)	11,900 (1)
			kcal/h	2,150 (1)	2,410 (1)	3,010 (1)
	Max.		kW	3.5	4.0	4.8
			Btu/h	11,900	13,600	16,400
			kcal/h	3,010	3,440	4,130
Power input	Cooling	Min.	kW	0.310		0.290
		Nom.	kW	0.490 (1)	0.700 (1)	1.030 (1)
		Max.	kW	0.720	1.050	1.300 (1)
	Heating	Min.	kW	0.250		0.290
		Nom.	kW	0.590 (1)	0.690 (1)	0.930 (1)
		Max.	kW	0.950	1.110	1.290

2 Specifications

2

2-1 Capacity and Power input				ATX20J3/ARX20K		ATX25J3/ARX25K		ATX35J3/ARX35K		
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class			A++				-	
		Pdesign		kW	2.00		2.50		-	
		SEER			6.11		6.15		-	
		Annual energy consumption		kWh	115		142		-	
		A Condition (35°C - 27/19)	Pdc		kW	2.00		2.50		-
			EERd		4.09		3.55		-	
			power input		kW	0.49		0.70		-
		B Condition (30°C - 27/19)	Pdc		kW	1.56		1.84		-
			EERd		5.83		5.27		-	
			power input		kW	0.27		0.35		-
		C Condition (25°C - 27/19)	Pdc		kW	1.22				-
			EERd		7.55		7.80		-	
			power input		kW	0.16				-
		D Condition (20°C - 27/19)	Pdc		kW	1.15				-
			EERd		9.46		9.20		-	
			power input		kW	0.12		0.13		-
		Heating (Average climate)	Energy efficiency class			A+				-
			Pdesign		kW	2.20		2.40		-
	SCOP/A			4.34		4.16		-		
	SCOPnet/A			4.40		4.21		-		
	Annual energy consumption		kWh	711		809		-		
	Required back up heating cap at design conditions		kW	0.39		0.43		-		
	TOL		Tol (temperature operating limit)		°C	-15				-
			Pdh (declared heating cap)		kW	1.59		1.72		-
			COPd (declared COP)			2.46		2.31		-
			Power input		kW	0.65		0.74		-
	TBivalent		Tbiv (bivalent temperature)		°C	-7				-
			Pdh (declared heating cap)		kW	1.95		2.13		-
			COPd (declared COP)			2.76		2.50		-
			Power input		kW	0.71		0.85		-
	A Condition (- 7°C)		Pdh (declared heating cap)		kW	1.95		2.13		-
			COPd (declared COP)			2.76		2.50		-
			Power input		kW	0.71		0.85		-
	B Condition (2°C)		Pdh (declared heating cap)		kW	1.18		1.29		-
			COPd (declared COP)			4.45		4.19		-
			Power input		kW	0.27		0.31		-
	C Condition (7°C)		Pdh (declared heating cap)		kW	0.90		0.89		-
			COPd (declared COP)			5.70		5.61		-
			Power input		kW	0.16				-
	D Condition (12°C)		Pdh (declared heating cap)		kW	1.02				-
			COPd (declared COP)			6.85		6.74		-
			Power input		kW	0.15				-
Piping connections	Drain		OD	mm		18				
	Gas		OD	mm		9.5				
	Heat insulation			Both liquid and gas pipes						
	Liquid		OD	mm		6.35				
Current	Nominal running current (RLA) - 50Hz		Cooling		A	2.4		3.6		5.5
			Heating		A	3.0		3.2		4.7
Pto (Thermostat off)				W		30.0				
Cooling	Psb (Standby mode cooling)			W		1.0		-		
	Cdc (Degradation cooling)					0.25				

2 Specifications

2-1 Capacity and Power input				ATX20J3/ARX20K	ATX25J3/ARX25K	ATX35J3/ARX35K
Heating	Cdh (Degradation heating)			0.25		
Pck (Crankcase heater mode)		W		0.0		-
Poff (Off mode)		W		1.0		-
Cooling function included				Yes		
Heating function included				Yes		
Average climate included				Yes		
Cold season included				No		
Warm season included				No		
Nominal efficiency	EER			4.09 (2)	3.55 (2)	3.21 (2)
	COP			4.24 (2)	4.06 (2)	3.76 (2)
	Annual energy consumption			kWh	244	352
	Energy labeling Directive	Cooling		A		
		Heating		A		

Notes

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

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

2-2 Technical Specifications					ARX20K	ARX25K	ARX35K
Capacity control	Method				Inverter controlled		
Casing	Colour				Ivory white		
Dimensions	Unit	Height		mm	550		
		Width		mm	658		
		Depth		mm	275		
	Packed unit	Height		mm	616		
		Width		mm	790		
		Depth		mm	360		
Weight	Unit			kg	26		28
	Packed unit			kg	29		31
Packing	Weight			kg	3		
Heat exchanger	Length			mm	670		647
	Rows	Quantity			1		2
	Fin pitch			mm	1.4		
	Stages	Quantity			24		
	Tube type				ø7 Hi-XD		
	Fin	Type			Waffle louvered fin		
Compressor	Model				1YC23AUXD		
	Type				Hermetically sealed swing compressor		
	Output			W	750		
Fan	Type				Propeller fan		
	Air flow rate	Cooling	High	m³/min	29.2		27.6
				cfm	1,030		975
		Heating	High	m³/min	26.2		24.5
				cfm	927		865
Fan motor	Model				ZWA138S28A		
	Output			W	26		
	Speed	Cooling	High	rpm	840		
			Low	rpm	720		
		Heating	High	rpm	840		
			Low	rpm	720		
Sound power level	Cooling			dBA	60		62
	Heating			dBA	61		62
Sound pressure level	Cooling	High		dBA	46		48
	Heating	High		dBA	47		48

2 Specifications

2-2 Technical Specifications					ARX20K	ARX25K	ARX35K
Operation range	Cooling	Ambient	Min.	°CDB	-10 (1)		
			Max.	°CDB	46		
	Heating	Ambient	Min.	°CWB	-15		
			Max.	°CWB	18		
Refrigerant	Type				R-410A		
	Charge			kg	0.74		1.0
				TCO ₂ eq	1.5		2.1
	GWP				2,087.5		
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.5		
	Drain	OD		mm	18		
	Piping length	OU - IU	Max.	m	15		
		System	Chargeless	m	10		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	12		
	Heat insulation				Both liquid and gas pipes		
Refrigerant oil	Charged volume			l	0.375		
	Type				FVC50K		

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Drain plug (only heat pump models); Quantity : 1;

Standard Accessories : Refrigerant charge label; Quantity : 1;

Standard Accessories : Multilingual fluorinated greenhouse gases labels; Quantity : 1;

Standard Accessories : LOT10 Energy Label;

2-3 Electrical Specifications					ARX20K	ARX25K	ARX35K
Power supply	Name				V1		
	Phase				1~		
	Frequency			Hz	50		
	Voltage			V	220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	16		
Current	Nominal running current (RLA)	Cooling	A		2.29	3.05	5.22
		Heating	A		2.46	3.28	4.79

Notes

(1) Operation range in combination with ATX-J3: min. 10°CDB ~ max. 46°CDB

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

ARX-K

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	1	2	3	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FTXB25B1V1	RXB25B6V19	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	68	3,00	0,033	0,17	0,016	0,12
FTXB35B1V1	RXB35B6V19	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	71	3,92	0,033	0,17	0,016	0,12
ATXN25NV1B7	ARXN25N6V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	8,44	16	48	3,30	0,041	0,36	0,018	0,19
ATXN35NV1B7	ARXN35N6V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	9,69	16	70	5,20	0,041	0,34	0,018	0,21
ATXN25NV1B9	ARXN25N6V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	8,44	16	48	3,30	0,041	0,36	0,018	0,19
ATXN35NV1B9	ARXN35N6V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	9,69	16	70	5,20	0,041	0,34	0,018	0,21
FTXB20C2V1B	RXB20C5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	36	2,20	0,033	0,17	0,016	0,12
FTXB25C2V1B	RXB25C5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	48	3,20	0,033	0,17	0,016	0,12
FTXB35C2V1B	RXB35C5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	70	4,70	0,033	0,17	0,016	0,12
ATX20J3V1B	ARX20K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	36	2,20	0,033	0,17	0,016	0,12
ATX25J3V1B	ARX25K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	48	3,20	0,033	0,17	0,016	0,12
ATX35J3V1B	ARX35K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	70	4,70	0,033	0,17	0,016	0,12
ATXB25C2V1B	ARXB25C5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	48	3,20	0,033	0,17	0,016	0,12
ATXB35C2V1B	ARXB35C5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	13,71	16	70	4,70	0,033	0,17	0,016	0,12
FTX20K2V1B	RX20K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14,00	16	36	2,20	0,033	0,17	0,022	0,20
FTX25K2V1B	RX25K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14,00	16	48	3,20	0,033	0,17	0,022	0,20
FTX35K2V1B	RX35K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14,00	16	70	4,70	0,033	0,17	0,028	0,23
ATX20K2V1B	ARX20K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14,00	16	36	2,20	0,033	0,17	0,022	0,20
ATX25K2V1B	ARX25K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14,00	16	48	3,20	0,033	0,17	0,022	0,20
ATX35K2V1B	ARX35K5V1B9	50 50 50	220 230 240	MAX. 50Hz 264V MIN. 50Hz 198V	14,00	16	70	4,70	0,033	0,17	0,028	0,23

Symbols
1 Hz
2 Voltage
3 Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

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

Notes
1 The RLA is based on the following conditions.
Indoor temperature -27°C DB / -19°C WB
Outdoor temperature -35°C DB
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.

3D106480A

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATX20J3_ARX20K

Cooling 220-240V 50Hz

AFR	9,1
BF	0,24

①	②	③																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,05	1,71	0,42	1,96	1,67	0,46	1,86	1,62	0,50	1,83	1,61	0,52	1,77	1,58	0,54	1,68	1,54	0,58
22	16	2,14	1,68	0,42	2,05	1,64	0,47	1,95	1,60	0,51	1,92	1,59	0,52	1,86	1,56	0,55	1,77	1,52	0,59
25	18	2,23	1,79	0,43	2,14	1,75	0,47	2,05	1,71	0,51	2,01	1,70	0,52	1,95	1,68	0,55	1,86	1,64	0,59
27	19	2,28	1,91	0,43	2,19	1,88	0,47	2,09	1,84	0,51	2,06	1,83	0,53	2,00	1,80	0,49	1,91	1,77	0,59
30	22	2,42	1,85	0,43	2,32	1,82	0,47	2,23	1,79	0,51	2,19	1,78	0,53	2,14	1,76	0,55	2,05	1,73	0,59
32	24	2,51	1,81	0,43	2,42	1,78	0,47	2,32	1,76	0,52	2,29	1,74	0,53	2,23	1,73	0,56	2,14	1,70	0,60

Symbols

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

- 1 Indoor air temperature [°C DB]
 2 Indoor air temperature [°C WB]
 3 Outdoor air temperature
 [°C DB]
 4 Outdoor air temperature
 [°C WB]

Heating 220-240V 50Hz

AFR	9,4
-----	-----

①	④									
	-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,68	0,50	1,97	0,52	2,25	0,55	2,59	0,58	2,81	0,60
20	1,60	0,51	1,88	0,54	2,16	0,56	2,50	0,59	2,73	0,61
22	1,56	0,52	1,84	0,54	2,13	0,57	2,47	0,60	2,69	0,61
24	1,53	0,52	1,81	0,55	2,09	0,57	2,43	0,60	2,66	0,62
25	1,51	0,53	1,79	0,55	2,07	0,57	2,41	0,60	2,64	0,62
27	1,48	0,53	1,76	0,56	2,04	0,58	2,38	0,61	2,61	0,63

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]
- Editable data for this drawing are available in the GDE (E-BOM) system.

3D091956C

ATX20K_ARX20K

Cooling 220-240V 50Hz

AFR	9,9
BF	0,22

1	2	3																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,05	1,80	0,39	1,96	1,76	0,42	1,86	1,72	0,46	1,83	1,70	0,48	1,77	1,67	0,50	1,68	1,63	0,53
22	16	2,14	1,77	0,39	2,05	1,73	0,43	1,95	1,69	0,46	1,92	1,68	0,48	1,86	1,65	0,50	1,77	1,61	0,54
25	18	2,23	1,89	0,39	2,14	1,86	0,43	2,05	1,82	0,46	2,01	1,81	0,48	1,95	1,78	0,50	1,86	1,75	0,54
27	19	2,28	2,03	0,39	2,19	2,00	0,43	2,09	1,96	0,47	2,06	1,95	0,48	2,00	1,93	0,50	1,91	1,89	0,54
30	22	2,42	1,97	0,39	2,32	1,94	0,43	2,23	1,91	0,47	2,19	1,90	0,48	2,14	1,88	0,51	2,05	1,85	0,54
32	24	2,51	1,93	0,40	2,42	1,91	0,43	2,32	1,88	0,47	2,29	1,87	0,49	2,23	1,85	0,51	2,14	1,82	0,55

Symbols

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

- 1 Indoor air temperature [°C DB]
 2 Indoor air temperature [°C WB]
 3 Outdoor air temperature
 [°C DB]
 4 Outdoor air temperature
 [°C WB]

Heating 220-240V 50Hz

AFR	10,9
-----	------

1	4									
	-15		-10		-5		0		6	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,19	0,34	1,43	0,35	1,67	0,37	2,25	0,49	2,59	0,51
20	1,12	0,35	1,36	0,36	1,60	0,38	2,16	0,50	2,50	0,52
22	1,09	0,35	1,33	0,37	1,57	0,38	2,13	0,50	2,47	0,53
24	1,06	0,35	1,30	0,37	1,54	0,39	2,09	0,51	2,43	0,53
25	1,04	0,36	1,28	0,37	1,52	0,39	2,07	0,51	2,41	0,54
27	1,01	0,36	1,25	0,38	1,49	0,39	2,04	0,51	2,38	0,54

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
- The bold cells indicate the standard conditions.
Rated operating frequency [Hz]
- Editable data for this drawing are available in the GDE (E-BO M) system.

3D095239C

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

4

ATX25J3_ARX25K

AFR	9,2
BF	0,29

Cooling 220-240V 50Hz

1	2	3																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,15	1,72	0,52	2,15	1,72	0,58	2,15	1,72	0,65	2,15	1,72	0,68	2,15	1,72	0,72	2,10	1,69	0,78
22	16	2,68	1,89	0,56	2,56	1,83	0,62	2,44	1,78	0,67	2,40	1,76	0,69	2,33	1,72	0,73	2,21	1,67	0,78
25	18	2,79	1,98	0,57	2,68	1,93	0,62	2,56	1,88	0,67	2,51	1,86	0,70	2,44	1,83	0,73	2,33	1,78	0,78
27	19	2,85	2,09	0,57	2,73	2,04	0,62	2,62	1,99	0,68	2,57	1,97	0,70	2,50	1,94	0,70	2,38	1,90	0,78
30	22	3,02	2,02	0,57	2,91	1,97	0,63	2,79	1,93	0,68	2,74	1,91	0,70	2,67	1,89	0,73	2,56	1,85	0,79
32	24	3,14	1,96	0,58	3,02	1,92	0,63	2,90	1,89	0,68	2,86	1,87	0,71	2,79	1,85	0,74	2,67	1,81	0,79

AFR	9,7
-----	-----

Heating 220-240V 50Hz

1	4									
	-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,88	0,58	2,20	0,61	2,52	0,64	2,90	0,67	3,15	0,70
20	1,79	0,60	2,10	0,63	2,42	0,66	2,80	0,69	3,05	0,71
22	1,75	0,61	2,07	0,63	2,38	0,66	2,76	0,70	3,01	0,72
24	1,71	0,61	2,03	0,64	2,34	0,67	2,72	0,70	2,98	0,73
25	1,69	0,61	2,01	0,64	2,32	0,67	2,70	0,71	2,96	0,73
27	1,65	0,62	1,97	0,65	2,29	0,68	2,66	0,71	2,92	0,73

Symbols

- TC: Total capacity [kW]
 PI: Power input [kW]
 SHC: Sensible heat capacity [kW]
 AFR: Air flow rate [m³/min]
 BF: Bypass factor
- Indoor air temperature [°C DB]
 - Indoor air temperature [°C WB]
 - Outdoor air temperature [°C DB]
 - Outdoor air temperature [°C WB]

Notes

- The capacities are based on the following conditions:
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
- The bold cells indicate the standard conditions.
 Rated operating frequency [Hz]
- Editable data for this drawing are available in the GDE (E-BOM) system.

3D091957C

ATX25K_ARX25K

AFR	10,4
BF	0,22

Cooling 220-240V 50Hz

1	2	3																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,56	2,08	0,51	2,44	2,03	0,56	2,33	1,97	0,60	2,28	1,95	0,62	2,21	1,92	0,65	2,10	1,86	0,70
22	16	2,68	2,05	0,51	2,56	1,99	0,56	2,44	1,94	0,61	2,40	1,92	0,63	2,33	1,89	0,66	2,21	1,84	0,71
25	18	2,79	2,17	0,51	2,68	2,12	0,56	2,56	2,07	0,61	2,51	2,06	0,63	2,44	2,03	0,66	2,33	1,98	0,71
27	19	2,85	2,31	0,51	2,73	2,27	0,56	2,62	2,22	0,61	2,57	2,20	0,63	2,50	2,18	0,66	2,38	2,13	0,71
30	22	3,02	2,24	0,52	2,91	2,20	0,57	2,79	2,16	0,62	2,74	2,14	0,64	2,67	2,12	0,67	2,56	2,08	0,71
32	24	3,14	2,19	0,52	3,02	2,15	0,57	2,90	2,12	0,62	2,86	2,10	0,64	2,79	2,08	0,67	2,67	2,04	0,72

AFR	11,1
-----	------

Heating 220-240V 50Hz

1	4									
	-15		-10		-5		0		6	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,43	0,44	1,72	0,47	2,00	0,49	2,70	0,64	3,10	0,67
20	1,34	0,46	1,63	0,48	1,92	0,50	2,59	0,65	3,00	0,69
22	1,31	0,46	1,59	0,48	1,88	0,51	2,55	0,66	2,96	0,69
24	1,27	0,47	1,56	0,49	1,85	0,51	2,51	0,67	2,92	0,70
25	1,25	0,47	1,54	0,49	1,83	0,51	2,49	0,67	2,90	0,70
27	1,22	0,47	1,51	0,50	1,79	0,52	2,45	0,68	2,86	0,71

Symbols

- TC: Total capacity [kW]
 PI: Power input [kW]
 SHC: Sensible heat capacity [kW]
 AFR: Air flow rate [m³/min]
 BF: Bypass factor
- Indoor air temperature [°C DB]
 - Indoor air temperature [°C WB]
 - Outdoor air temperature [°C DB]
 - Outdoor air temperature [°C WB]

Notes

- The capacities are based on the following conditions:
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
- The bold cells indicate the standard conditions.
 Rated operating frequency [Hz]
- Editable data for this drawing are available in the GDE (E-BOM) system.

3D095240C

4 Capacity tables

4 - 1 Cooling/Heating Capacity Tables

ATX35J3_ARX35K

Cooling 220-240V 50Hz

AFR	9,3
BF	0,25

1	2	3																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	2,30	1,83	0,72	2,30	1,83	0,82	2,30	1,83	0,90	2,30	1,83	0,93	2,30	1,83	0,97	2,30	1,83	1,04
22	16	3,07	2,11	0,75	3,07	2,11	0,83	3,07	2,11	0,90	3,07	2,11	0,93	3,07	2,11	0,97	2,92	2,04	1,05
25	18	3,68	2,43	0,76	3,53	2,36	0,83	3,38	2,29	0,91	3,32	2,26	0,93	3,22	2,22	0,98	3,07	2,15	1,05
27	19	3,76	2,54	0,76	3,61	2,48	0,84	3,45	2,41	0,91	3,39	2,38	0,94	3,30	2,34	1,03	3,15	2,27	1,05
30	22	3,99	2,45	0,77	3,84	2,39	0,84	3,68	2,32	0,91	3,62	2,30	0,94	3,53	2,27	0,99	3,37	2,21	1,06
32	24	4,14	2,38	0,77	3,99	2,32	0,85	3,83	2,26	0,92	3,77	2,24	0,95	3,68	2,21	0,99	3,53	2,16	1,06

Symbols

TC: Total capacity [kW]

PI: Power input [kW]

SHC: Sensible heat capacity [kW]

AFR: Air flow rate [m³/min]

BF: Bypass factor

- Indoor air temperature [°C DB]
- Indoor air temperature [°C WB]
- Outdoor air temperature [°C DB]
- Outdoor air temperature [°C WB]

Heating 220-240V 50Hz

AFR	10,1
-----	------

1	4									
	-10		-5		0		6		10	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	2,36	0,79	2,75	0,82	3,15	0,86	3,62	0,91	3,94	0,94
20	2,24	0,81	2,63	0,85	3,03	0,88	3,50	0,93	3,82	0,96
22	2,19	0,82	2,58	0,85	2,98	0,89	3,45	0,94	3,77	0,97
24	2,14	0,82	2,53	0,86	2,93	0,90	3,40	0,95	3,72	0,98
25	2,11	0,83	2,51	0,87	2,90	0,90	3,38	0,95	3,70	0,98
27	2,07	0,84	2,46	0,88	2,86	0,91	3,33	0,96	3,65	0,99

Notes

- The capacities are based on the following conditions:
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
 - The bold cells indicate the standard conditions.
 - Rated operating frequency [Hz]
- Editable data for this drawing are available in the GDE (E-BOM) system.

3D091958C

ATX35K / ARX35K

ATX35KV / ARX35K

AFR	11,8
BF	0,23

Cooling 220-240V 50Hz

1	2	3																	
		20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	14	3,59	2,69	0,78	3,42	2,61	0,86	3,26	2,53	0,93	3,19	2,50	0,96	3,10	2,45	1,01	2,93	2,37	1,08
22	16	3,75	2,65	0,79	3,58	2,57	0,86	3,42	2,49	0,94	3,36	2,47	0,97	3,26	2,42	1,01	3,10	2,35	1,09
25	18	3,91	2,78	0,79	3,75	2,71	0,87	3,58	2,64	0,94	3,52	2,61	0,97	3,42	2,57	1,02	3,26	2,50	1,09
27	19	3,99	2,93	0,79	3,83	2,86	0,87	3,66	2,80	0,94	3,60	2,77	0,97	3,50	2,73	1,02	3,34	2,67	1,10
30	22	4,23	2,83	0,80	4,07	2,77	0,88	3,90	2,71	0,95	3,84	2,69	0,98	3,74	2,65	1,03	3,58	2,59	1,10
32	24	4,39	2,76	0,81	4,23	2,70	0,88	4,07	2,65	0,96	4,00	2,63	0,99	3,90	2,59	1,03	3,74	2,54	1,11

AFR	12,8
-----	------

Heating 220-240V 50Hz

1	4									
	-15		-10		-5		0		6	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	1,90	0,64	2,29	0,67	2,67	0,71	3,07	0,92	4,14	0,97
20	1,79	0,66	2,17	0,69	2,56	0,72	2,95	0,95	4,00	1,00
22	1,74	0,67	2,12	0,70	2,51	0,73	2,90	0,95	3,94	1,00
24	1,69	0,67	2,08	0,71	2,46	0,74	2,85	0,96	3,89	1,01
25	1,67	0,68	2,05	0,71	2,44	0,74	2,83	0,97	3,86	1,02
27	1,62	0,68	2,01	0,72	2,39	0,75	2,78	0,98	3,81	1,03

Notes

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

Symbols

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

- Indoor air temperature [°C DB]
- Indoor air temperature [°C WB]
- Outdoor air temperature [°C DB]
- Outdoor air temperature [°C WB]

3D095241D

5

5 - 1 Dimensional Drawings

Drain outlet
Connection hose (inside diameter: 15.9mm)

341
299
370
470
95
4 holes for anchor bolts (M8 or M10)

Brand name label
Nameplate
Manufacturer label
Outdoor air temperature thermistor
Product liability label

8
275
45
Handle

12
150
50

removing the stop valve cover.

Wiring intake
Caution label
Liquid stop valve
(φ 6.40uT)
Gas stop valve
(φ 9.50uT)
Service port

155
108
165

Minimum space for air passage
Wall height on air outlet side < 1200 mm

100
50
50
100
50
100
50
100

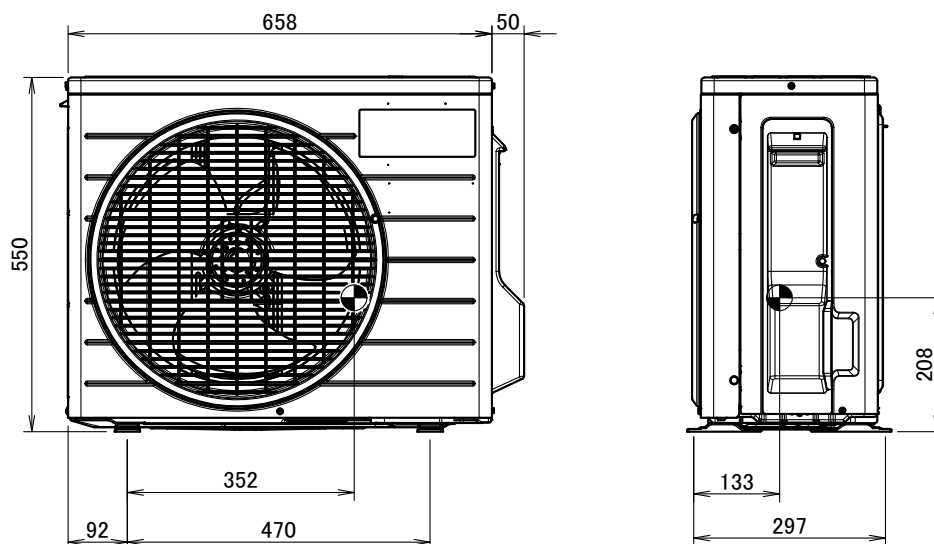
2D113526

6 Centre of gravity

6 - 1 Centre of Gravity

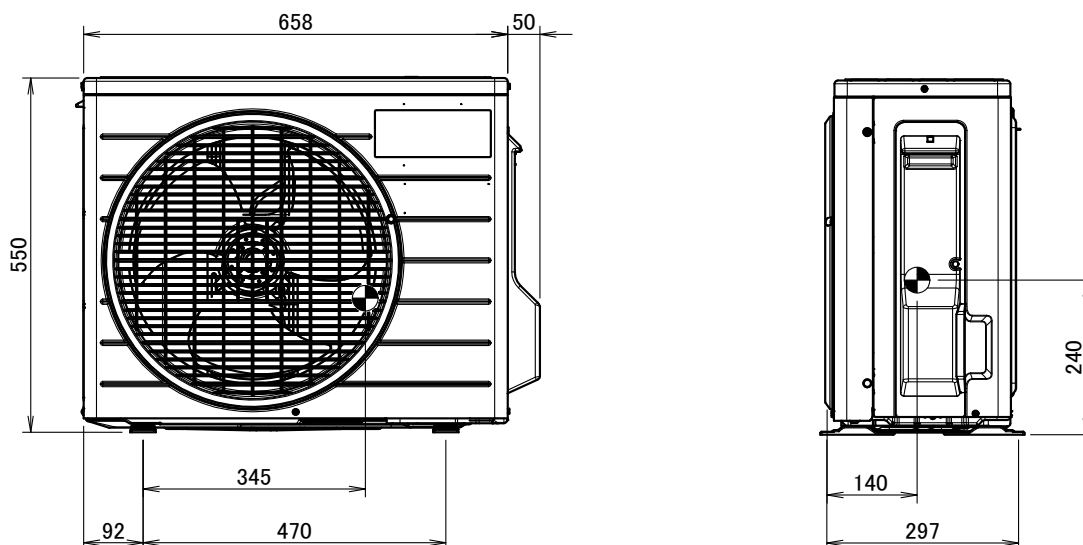
6

ARX20-25K



4D092001D

ARX35K

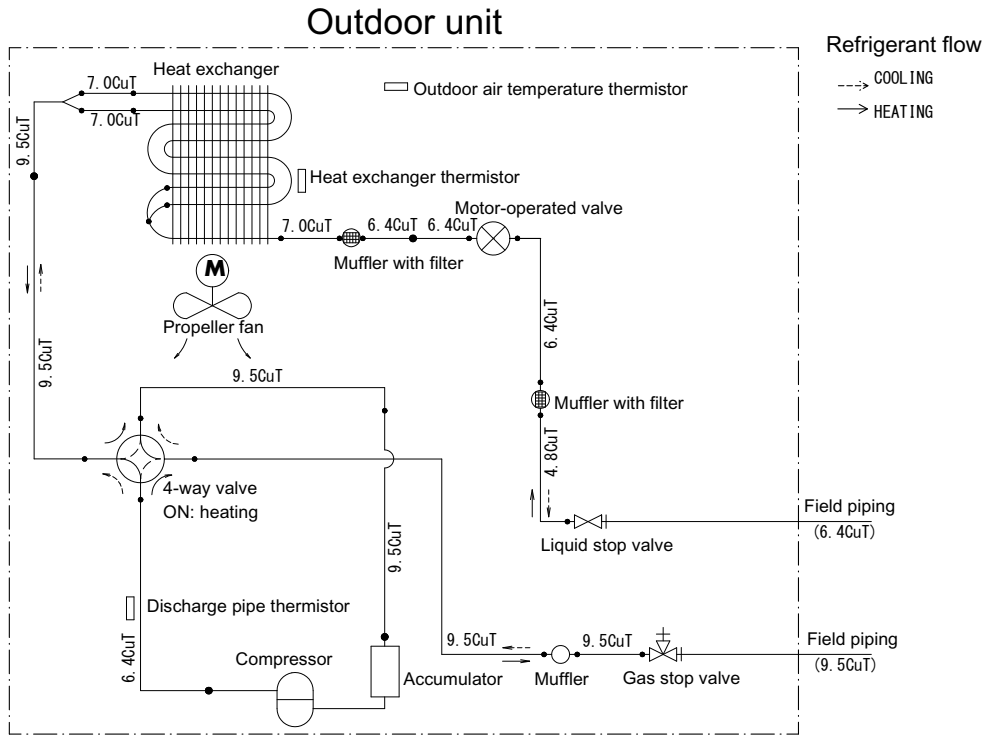


4D092003D

7 Piping diagrams

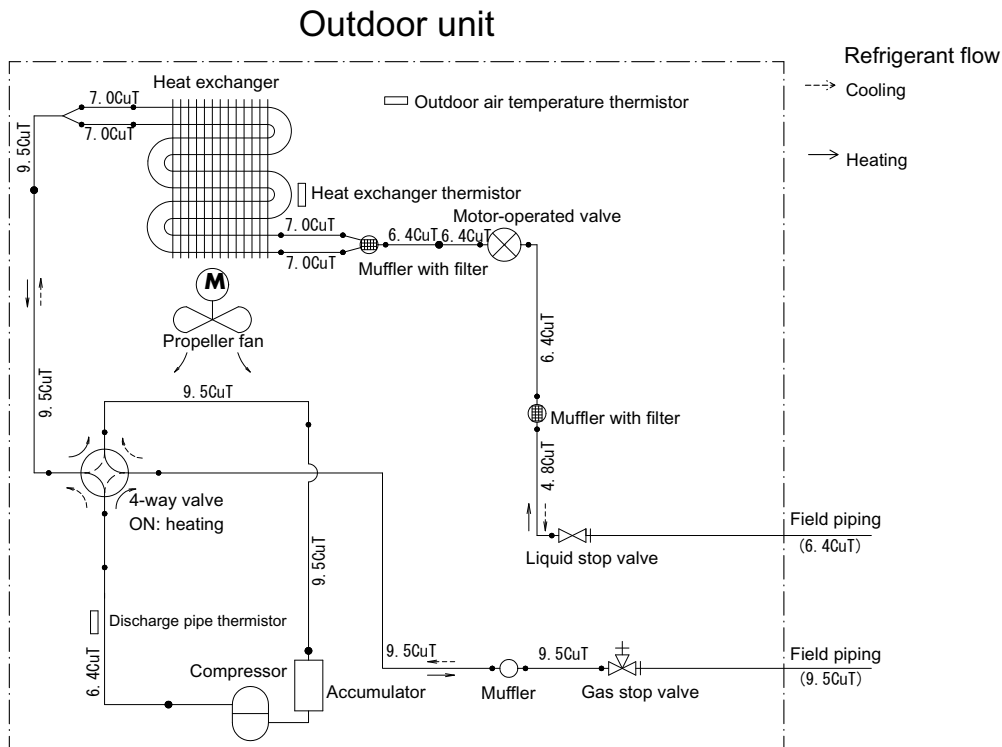
7 - 1 Piping Diagrams

ARX20-25K



3D090673E

ARX35K

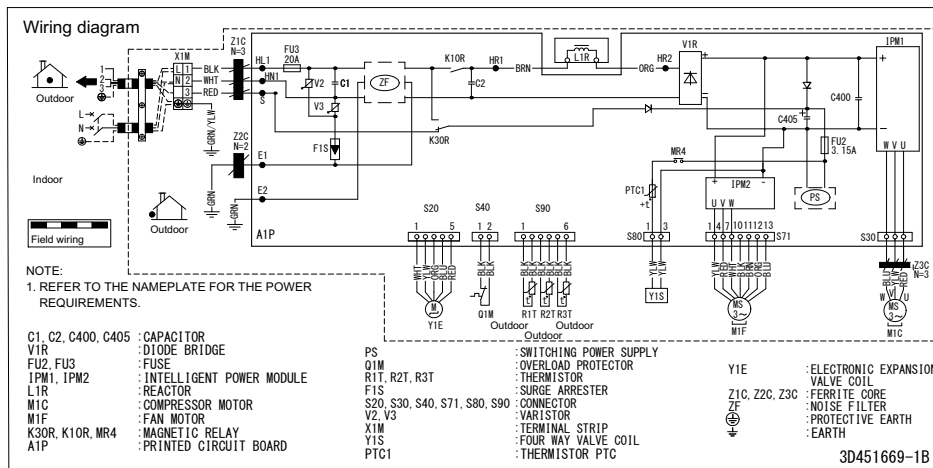


3D090674E

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

ARX-K



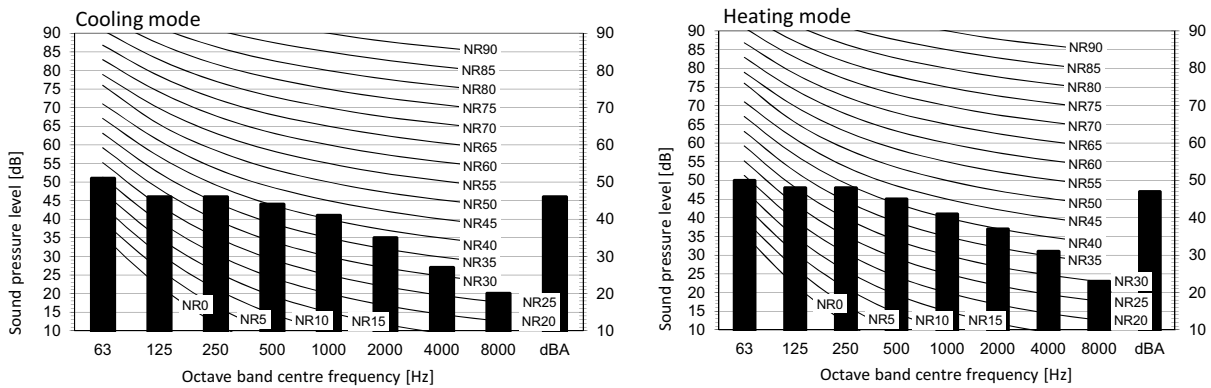
NOTES:

1. SIZE : LENGHT 105 × WIDTH 165.
2. REFER TO PURCHASING SPECIFICATION AS303002, UNLESS OTHERWISE SPECIFIED.
3. THIS DRAWING WAS DRAWN ON CAD SYSTEM.

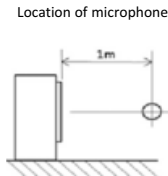
3D451669B

9 Sound data
9 - 1 Sound Pressure Spectrum

ARX20K



Legend
dBA = A-weighted sound pressure level (A scale according to IEC).
A Scale
B High Fan speed



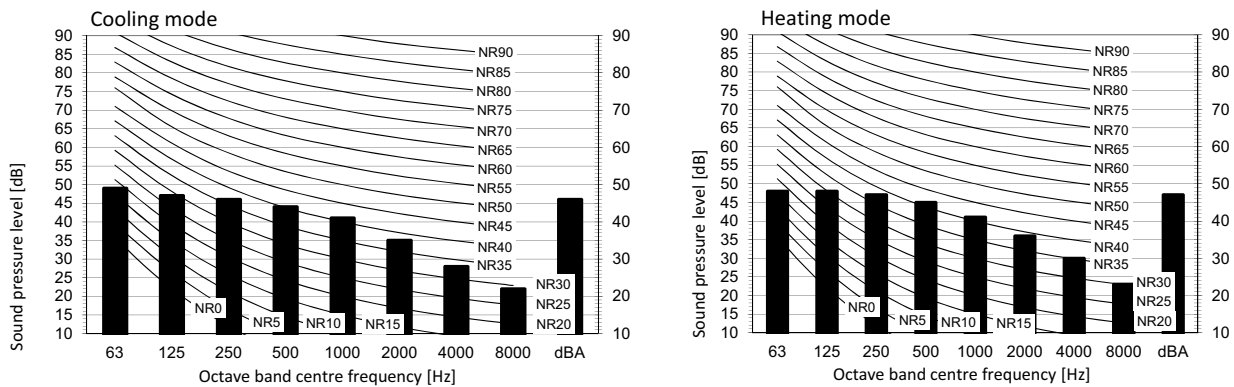
Cooling		Total dB
A	B	
dBA		46

Heating		Total dBA
A	B	
dBA		47

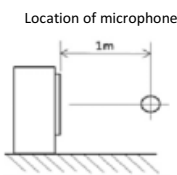
- Notes
- 1 . Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - 2 . Background noise already taken into account.
 - 3 . Operating noise varies depending on operation and ambient conditions.
 - 4 . The operation noise measuring method is in accordance with JISC9612.
 - 5 . Measuring location: anechoic chamber

3D092072D

ARX25K



Legend
dBA = A-weighted sound pressure level (A scale according to IEC).
A Scale
B High Fan speed



Cooling		Total dBA
A	B	
dBA		46

Heating		Total dBA
A	B	
dBA		47

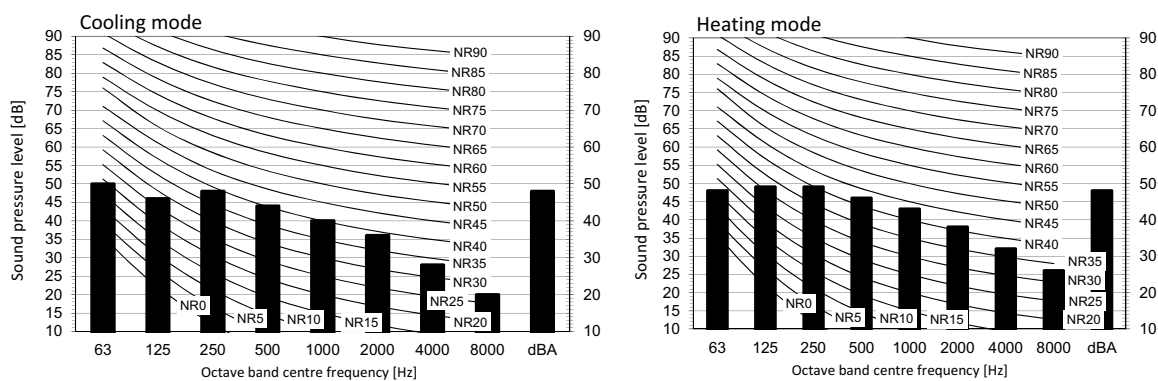
- Notes
- 1 . Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - 2 . Background noise already taken into account.
 - 3 . Operating noise varies depending on operation and ambient conditions.
 - 4 . The operation noise measuring method is in accordance with JISC9612.
 - 5 . Measuring location: anechoic chamber

3D092073D

9 Sound data

9 - 1 Sound Pressure Spectrum

ARX35K



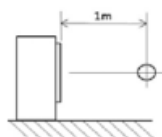
Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B High Fan speed

Location of microphone



Cooling Total dB

A	B
dBA	48

Heating Total dB

A	B
dBA	49

Notes

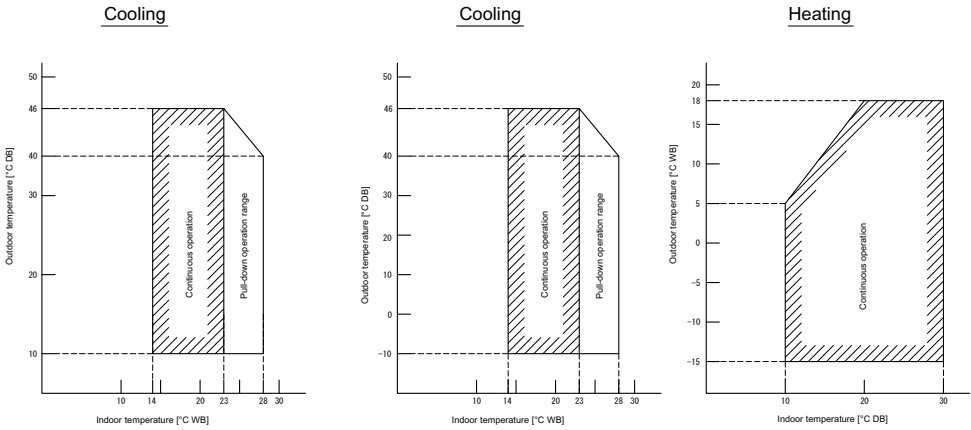
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

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10 Operation range

10 - 1 Operation Range

ARX-K

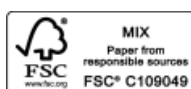
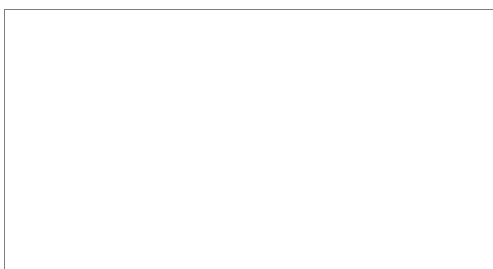


The values above are for connecting with the following indoor unit types: The values above are for connecting with the following indoor unit types:

- Notes
1. The graphs is based on the following conditions.
Corresponding refrigerant piping length: 5 m
Level difference: 0m
Air flow rate High
 2. Editable data for this drawing are available in the GDE (E-BOM) system.

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EEEN18

05/18



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