

2 Specifications

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Technical specifications				ATXF20E + ARXF20E	ATXF25E + ARXF25E	ATXF35E + ARXF35E	ATXF42E + ARXF42E
Indoor unit				ATXF20E5V1B	ATXF25E5V1B	ATXF35E5V1B	ATXF42E5V1B
Outdoor unit				ARXF20E5V1B	ARXF25E5V1B	ARXF35E5V1B	ARXF42E5V1B
Cooling capacity	Min.	kW			1.3		1.4
	Min.	Btu/h			4,400.0		4,800.0
	Min.	kcal/h			1,118.0		1,204.0
	Nom.	kW		2.00	2.50	3.30	4.20
	Nom.	Btu/h		6,800.0	8,500.0	11,300	14,300
	Nom.	kcal/h		1,720.0	2,150.0	2,838.0	3,611.0
	Max.	kW		2.4	2.8	3.8	4.3
	Max.	Btu/h		8,200.0	9,600.0	12,800.0	14,700.0
	Max.	kcal/h		2,064.0	2,408.0	3,224.0	3,697.0
Cooling capacity - Low sound mode (Stb. 2020, 189)	Min.	kcal/h				-	
	Max.	kcal/h				-	
Heating capacity	Min.	kW			1.30		1.40
	Min.	Btu/h			4,400.0		4,800.0
	Min.	kcal/h			1,118.0		1,204.0
	Nom.	kW		2.40	2.80	3.50	4.60
	Nom.	Btu/h		8,200.0	9,600.0	11,900	15,700
	Nom.	kcal/h		2,064.0	2,408.0	3,010.0	3,955.0
	Max.	kW		3.30	3.70	4.40	5.00
	Max.	Btu/h		11,300.0	12,600.0	15,000.0	17,100.0
	Max.	kcal/h		2,838.0	3,181.0	3,783.0	4,300.0
Power input	Cooling	Min.	kW			0.31	
		Nom.	kW	0.601	0.772	1.01	1.28
		Max.	kW	0.72	1.05	1.40	1.50
	Heating	Min.	kW			0.25	
		Nom.	kW	0.640	0.751	0.940	1.24
		Max.	kW	0.95	1.11	1.50	1.40
Nominal efficiency	EER			2.00	2.50	3.50	4.20
	COP				6.40		6.45
	Annual energy consumption		kWh	109	137	191	228
	Energy labeling	Cooling				A	
		Heating				A	
Space cooling	Energy efficiency class					A++	
	Capacity	Pdesign	kW	2.00	2.50	3.50	4.20
	SEER				6.40		6.45
Space cooling	Annual energy consumption		kWh/a	109	137	191	228
Space heating	Capacity	Pdesign	kW	2.20	2.40	2.60	3.30
(Average climate)	Energy efficiency class					A+	
	SCOP/A			4.16	4.10		4.25
	SCOPnet/A			4.21	4.15	4.14	4.31
	PdH Heating capacity at -10°		kW	1.86	1.97	2.21	2.61
	Annual energy consumption		kWh/a	740	819	889	1,088
	Required back up heating cap at design conditions		kW	0.340	0.430	0.390	0.690
	Capacity	Pdesignh	kW	1.18	1.29	1.40	1.78
Space heating (Warm climate)	Energy efficiency class					A++	A+++
	SCOP			5.19	5.18	5.19	5.20
	SCOPnet			5.49	5.45	5.51	5.55
	Annual energy consumption		kWh/a	319	349	378	479
	Required back up heating cap at design conditions		kW			0.00	
Space cooling	A Condi- tion (35°C - 27/19)	Pdc	kW	2.00	2.50	3.50	4.20
		EERd		3.33	3.24	3.07	3.27
		Power input	kW	0.601	0.772	1.14	1.28
	B Condi- tion (30°C - 27/19)	Pdc	kW	1.47	1.84	2.58	3.09
		EERd		5.35	4.66	4.54	4.63
		Power input	kW	0.275	0.395	0.568	0.667
	C Condi- tion (25°C - 27/19)	Pdc	kW	1.14	1.18	1.66	1.99
		EERd		8.34	8.52	8.42	8.17
		Power input	kW	0.137	0.138	0.197	0.244
	D Condi- tion (20°C - 27/19)	Pdc	kW		1.30	1.32	1.35
		EERd		11.5	11.6	11.7	11.9
		Power input	kW	0.113	0.112	0.113	0.114

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Space heating (Average climate)	TOL	Tol (temperature operating limit) °C			-15								
		Pdh (declared heating cap) kW			1.71		2.05		2.10				
		COPd (declared COP)			2.55		2.00		2.06				
		Power input kW			0.671		1.03		1.02				
	TBivalent	Tbiv (bivalent temperature) °C			-7.0								
		Pdh (declared heating cap) kW			1.95		2.12		2.30		2.92		
		COPd (declared COP)			2.65		2.57		2.53		2.65		
		Power input kW			0.736		0.825		0.909		1.10		
	A Condition (-7°C)	Pdh (declared heating cap) kW			1.95		2.12		2.30		2.92		
		COPd (declared COP)			2.65		2.57		2.53		2.65		
Space heating (Average climate)	B Condition (2°C)	Pdh (declared heating cap) kW			1.18		1.29		1.40		1.78		
		COPd (declared COP)			4.16		4.08		4.06		4.37		
		Power input kW			0.284		0.316		0.345		0.407		
	C Condition (7°C)	Pdh (declared heating cap) kW			0.920				0.930		1.14		
		COPd (declared COP)			5.63		5.56		5.55		5.33		
		Power input kW			0.163		0.165		0.168		0.214		
	D Condition (12°C)	Pdh (declared heating cap) kW			1.06				1.10				
		COPd (declared COP)			6.98		6.80				6.85		
		Power input kW			0.152		0.156		0.161		0.162		
	Space heating (Warm climate)	TOL	Tol (temperature operating limit) °C			-15							
			Pdh (declared heating cap) kW			1.71		2.05		2.10			
			COPd (declared COP)			2.55		2.00		2.06			
			Power input kW			0.671		1.03		1.02			
TBivalent		Tbiv (bivalent temperature) °C			2				-				
		Pdh (declared heating cap) kW			1.18		1.29		1.40		1.78		
		COPd (declared COP)			4.16		4.08		4.06		4.37		
		Power input kW			0.284		0.316		0.345		0.407		
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		COPd (declared COP)			6.98		6.80				6.85		
		Power input kW			0.152		0.156		0.162		0.161		
Power consumption in other than active mode	Crank-case heater mode	PCK W			0.00								
		Off mode POFF W			1.00								
	Standby mode	Cooling	PSB	W	1.00								
		Heating	PSB	W	1.0								
	Thermostat-off mode	PTO	Cooling	W	24				29		40		
			Heating	W	23				29		40		
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	60				61				
		Heating	Nom.	dBA	53		54		59				
	Piping length	Cooling	Measuring condition	m	5.0								

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for high efficiency series, Eurovent certified |

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series |

See separate drawing for electrical data

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Technical Specifications					ARXF20E	ARXF25E	ARXF35E	ARXF42E	
Casing	Colour				Ivory white				
Dimensions	Unit	Height	mm		556				
		Width	mm		740				
		Depth	mm		343				
	Packed unit	Height	mm		630				
		Width	mm		790				
		Depth	mm		400				
Weight	Unit	kg		24.0			28.0		
	Packed unit	kg		26			30		
Packing	Weight		kg		2				
Heat exchanger	Length		mm		670			647	
	Rows	Quantity		1			2		
	Fin pitch		mm		1.40				
	Stages		Quantity		24				
	Tube type				ø7 Hi-XD				
	Tube material				Copper				
	Fin	Type		Waffle Hydrophilic Blue					
	Fan	Type				Propeller			
		Air flow rate	Cooling	High	m³/min	27.6	29.0		28.5
cfm					975	1,024		1,006	
Heating			High	m³/min	27.1	28.0		27.5	
				cfm	957	990		971	
Fan motor	Model				DFC03Z1VA				
	Insulation grade				Class "E"				
	Output		W		28				
	Speed	Cooling	High	rpm	760	820			
			Low	rpm	640				
		Heating	High	rpm	790	820			
			Low	rpm	550				
Compressor	Model				1Y078BKAX1P#D			1Y091BKCX1P#G	
	Oil Amount		cm³		400			375	
	Type				Hermetically sealed swing compressor				
	Output		W		700.0			870.0	
Operation range	Oil Type				FW68DA				
	Cooling	Ambient	Min.	°CDB	-10				
			Max.	°CDB	48				
Operation range	Heating	Ambient	Min.	°CWB	-15				
				°CDB	-15				
			Max.	°CWB	18				
				°CDB	24				
Sound power level	Heating	Nom.	dBA		60.0	62.0			
Sound pressure level	Cooling	High	dBA		46.0	48.0			
	Heating	High	dBA		47.0	48.0			
Refrigerant	Type				R-32				
	Charge	kg		0.420		0.550	0.750		
	Control			Expansion valve					
Piping connections	GWP				675.0				
	Liquid	OD	mm		6				
	Gas	OD	mm		9.50				
	Drain	OD	mm		18				
	Piping length	OU - IU	Max.	m	20				
	Additional refrigerant charge		kg/m		0.02 (for piping length exceeding 10m)				
	Level dif-ference	IU - OU	Max.	m	12.0				
Capacity control	Method				Variable (inverter)				

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Drain plug;Quantity: 1;

Standard accessories: Refrigerant charge label;Quantity: 1;

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

Standard accessories: General safety precautions;Quantity: 1;

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See separate drawing for electrical data

Electrical Specifications			ARXF20E	ARXF25E	ARXF35E	ARXF42E
Power supply	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-240			
Wiring connections	For power supply	Quantity	3			
		Remark	Earth wire included			
	For connection with indoor	Quantity	4			
		Remark	Earth wire included			

Contains fluorinated greenhouse gases |
See separate drawing for operation range |
See separate drawing for electrical data