AIM11 EMX/3PH data sheet



Powerful, for large residential or commercial spaces

The 11-kW monobloc unit from the iM range is able to heat and cool extensive residential and commercial spaces. The unit is available in the single-phase and three-phase versions. It can be connected to the EMIX or to EMIX TANK to produce domestic hot water directly from the thermodynamic source, using heat recovery during air-conditioning mode in the summer.



Data based on the EN 14511-3:2013 standard

Heating

	Outdoor air temperature - Dry Bulb (Wet Bulb) - °C									
LWT [°C]	-7 (-8)		-2 (-3)		2 (1)		7 (6)		12 (11)	
	Qh [kW]	COP	Qh [kW]	COP	Qh [kW]	COP	Qh [kW]	COP	Qh [kW]	COP
35	7.40	2.62	7.39	2.89	8.04	3.34	10.40	4.09	11.46	4.62
45	6.90	2.33	7.30	2.48	7.70	2.79	9.80	3.28	10.80	3.06
55	6.20	1.67	6.64	1.89	6.75	2.10	8.30	2.36	9.53	2.61

LWT: Leaving water temperature Qh: Heat capacity COP: Coefficient of performance

Application data Water inlet/outlet temperature difference = 5 °C, 8 °C for LVVT = 55 °C

Cooling

	Inlet outdoor air temperature - °C					
LWT	35					
[°C]	Qc [kW]	EER				
7	6.30	2.29				
18	7.70	3.53				

LWT: Leaving water temperature Qc: Cooling capacity EER: Energy efficiency ratio

Application data

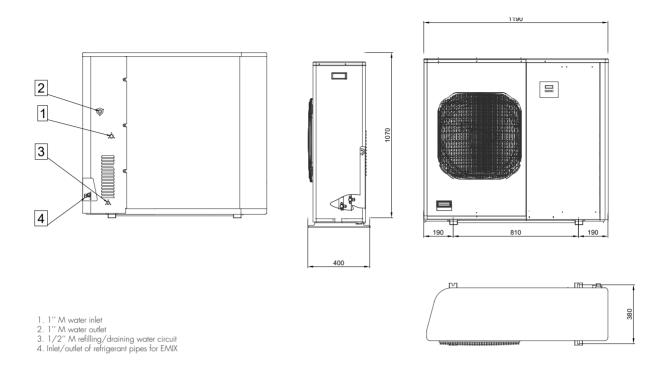
Water inlet/outlet temperature difference = 5 °C



OUTDOOR UN	AIM 1 1 EMX AIM 1 1 EMX 3PH EMIX TANK V2 (200-300 liters) EMIX V1 + External Tank External Tank + 3-way valve				
Matchable units for					
				Cooling	Heating
		Nominal-max. Cooling/Heating capacity	kW	7.70-9.00	10.40-12.50
	Air +35°C - Water 23/18°C	Nominal electric power input	kWel	2.18	2.54
Performance	Air + 7°C - Water 30/35°C	Nominal EER/COP	Cr	3.53	4.00
ccording to EN	AL 0500 NV - 10/700	Nominal-max. Cooling/Heating capacity	kW	6.30-7.20	7.70
4511	Air +35°C - Water 12/7°C	Nominal electric power input	kWel	2.65	2.18
	Air - 7°C - Water 30/35 °C	Nominal EER/COP		2.38	3.53
		Nominal Heating capacity	kW	10	.00
	LOW TEMPERATURE	Seasonal energy efficiency ηs	%	156	
erformance	AVERAGE season	SCOP		3.97	
ccording to ERP		Energy efficiency class		A++	
codesign		Nominal Heating capacity	kW	8.	00
N 14825	MEDIUM TEMPERATURE	Seasonal energy efficiency ηs	%	1	13
	AVERAGE season	SCOP		2.9	
		Energy efficiency class		A+	
		Load profile		×	(L
		Energy efficiency class			4
	With 300L tank and diverting valve	DHW COP		2.14	
		ERP efficiency	%	89	
HW Performance		Heating-up time from 10°C to 47°C	h:m	2:40	
ccording to		Load profile		XL	
N 16147		Energy efficiency class		A	
	With Emix Tank 300 V2	DHW COP		2.55	
		ERP efficiency	%	106	
		Heating-up time from 10°C to 48°C	h:m	2:25	
	1	Maximum outlet water temperature	°C	Up to 58	
		Outdoor temperature range (heating)	°C	-20 / +35	
Unit operation data		Outdoor temperature range (cooling)	°C	+10 / +47	
		Nominal water flow rate	m³/h	at 35 °C 1.78	
				at 45 °C	1.68
				at 55 °C	0.89
ini operation auto	-	Minimum efficient water volume of the system	I	80	
		Power supply (Voltage/Phases/Frequency)	V/Ph/Hz	230/1+T /50-60 - 400/3+N	
		Maximum electric consumption	kW/A	4.2/19.1 (1ph) - 4.2/8.0	
		Fuse		25 A (1ph) / 30 A (3ph)	
		Sound pressure	dB(A)		16
	Expansion vessel				4
		Maximum pump pressure	m _{H2O}	7.5 (see H/Q diagrams	
Components and dimensions		Water connections	inch (")	1"	
		Safety valve	bar	3	
		Weight	kg	90	
		Dimensions H/W/D	mm	1070/1190/400	
		Compressor type			Rotary
		Diameters (gas/liquid)	inch (")		/8"
		Maximum length	m		0
Refrigerant pipes to eMIX/eMIX TANK		Minimum length	m		5
		Max height difference IU-OU	m		0
		Type and GWP			38 kg CO ₂ eq.
Refrigerant		Standard charge		2.50 kg / 5.2	• ·

The equipment described in this catalogue contains HFC-410A-type fluorinated greenhouse gases. The installation of these products must be carried out by qualified operators in accordance with the European standards 303/2008 and 517/2014. PRELIMINARY data declared in accordance with REGULATION (EU) No 811/2013 of 18 February 2013 with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar devices, packages of combination heater, temperature control and solar devices, and with COWMISSION REGULATION (EU) No 813/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters. Argoclima reserves the right to amend the data presented in this catalogue at any time and without notice.

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Characteristic curve of the pump and load losses in the unit

