AIM14 EMX/3PH data sheet





Ideal for commercial buildings or spacious individual households

With a 14-kW heating and cooling capacity, this is the ideal unit to build heating and cooling hydronic systems for use in large individual households and office buildings. Available in the three-phase and single-phase version, this unit can be connected to the EMIX or 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	-7 (-8)		-2 (-3)		2 (1)		7 (6)		12 (11)	
[°C]	Qh	СОР	Qh	COP	Qh [kW]	COP	Qh [kW]	COP	Qh	COP
	[kW]	COF	[kW]	COI	[kW]	COI	[kW]	COI	[kW]	COI
35	9.10	2.50	9.35	2.60	9.74	3.10	13.50	4.05	14.53	4.50
45	8.55	2.31	9.06	2.28	9.54	2.61	12.80	3.25	13.64	3.37
55	8.30	1.75	8.54	1.93	8.68	2.02	10.80	2.34	11.59	2.41

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

Application data

Water inlet/outlet temperature difference = 5 °C, 8 °C for LWT = 55 °C

Cooling

	Inlet outdoor air temperature - °C					
LWT	35					
[°C]	Qc [kW]	EER				
7	8.30	2.26				
18	10.00	3.50				

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

Application data

ater inlet/outlet temperature difference = 5 °C

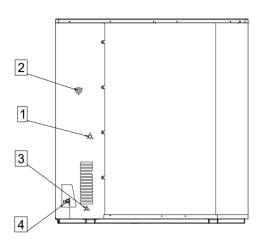
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OUTDOOR UN	AIM 1 4EMX AIM 1 4EMX3PH					
Matchable units for	EMIX TANK V2 (200-300 liters) EMIX V1 + External Tank External Tank + 3-way valve					
				Cooling	Heating	
		Nominal-max. Cooling/Heating capacity	kW	10.00-11.90	13.60-15.50	
	Air +35°C - Water 23/18°C	Nominal electric power input	kWel	2.91	3.33	
Performance	Air + 7°C - Water 30/35°C	Nominal EER/COP	- Ci	3.44	4.06	
ccording to EN 4511	Air +35°C - Water 12/7°C	Nominal-max. Cooling/Heating capacity	kW	8.30-9.60	8.70	
4311	Air +35°C - Water 12//°C Air - 7°C - Water 30/35 °C	Nominal electric power input	kW _{el}	3.56	3.50	
	Air - 7 C - Wdier 30/33 C	Nominal EER/COP		2.32	2.49	
		Nominal Heating capacity	kW	13.00		
	LOW TEMPERATURE	Seasonal energy efficiency ηs	%	154 3.93		
erformance	AVERAGE season	SCOP				
ccording to ERP		Energy efficiency class		A++		
codesign		Nominal Heating capacity	kW	11.00		
N 14825	MEDIUM TEMPERATURE	Seasonal energy efficiency ηs	%	112		
	AVERAGE season	SCOP		2.87 A+		
		Energy efficiency class				
		Load profile		XL A		
	With 300L tank and diverting	Energy efficiency class				
	valve	DHW COP		2.12		
HW Performance	valve	ERP efficiency	%	85		
ccording to		Heating-up time from 10°C to 47°C	h:m	2:40		
N 16147		Load profile		XL		
10142		Energy efficiency class		A		
	With Emix Tank 300 V2	DHW COP		2.51 105 2:24		
		ERP efficiency	%			
		Heating-up time from 10°C to 48°C	h:m			
		Maximum outlet water temperature	°C	Up to 58		
		Outdoor temperature range (heating)	°C	-20 / +35		
		Outdoor temperature range (cooling)	°C	+10 /	′ +47	
		Nominal water flow rate	m³/h	at 35 °C	2.31	
				at 45 °C	2.18	
Init operation date	a			at 55 °C	1.16	
		Minimum efficient water volume of the system	I	80		
		Power supply (Voltage/Phases/Frequency)	V/Ph/Hz	220/240-50/1+T (1ph) - 400/3+N+T/50		
		Maximum electric consumption	kW/A	5.2/23.8 (1ph) - 5.2/10.0 (3ph)		
		Fuse	1	10 A		
		Sound pressure	dB(A)	49		
		Expansion vessel	I	6		
		Maximum pump pressure	m _{H2O}	7.5 (see H/Q diagrams)		
	····	Water connections	inch (")	1"		
Components and dimensions		Safety valve Weight	bar	3		
		Dimensions H/W/D	kg	160 1335/1270/450		
		Compressor type	mm	1335/12/0/450 Twin Rotary		
		Diameters (gas/liquid)	inch (")		2"	
		Maximum length				
Refrigerant pipes t	o EMIX/EMIX TANK	Minimum length	m m	10		
		Max height difference IU-OU	m m	1		
		max height difference 10-00	m		•	
		Type and GWP		D41UV / 200	8 kg CO ₂ eq.	

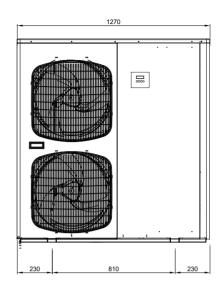
^{*}Single-phase version available within this year

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The equipment described in this catalogue contains HFC-410A-type fluorinated greenhouse gases. These products must be fitted by qualified staff pursuant to European regulations 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 heaters, temperature control and solar devices and packages of combination heater, temperature control and solar devices, packages of combination heater, temperature control and solar devices, and with COMMISSION 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.











- 1. 1" M water inlet
 2. 1" M water outlet
 3. 1/2" M refilling/draining water circuit
 4. Inlet/outlet of refrigerant pipes for EMIX

Characteristic curve of the pump and load losses in the unit

