

# AIM06 EMX data sheet



The compact unit for small-sized homes

The smallest monobloc unit from the iM range can be used as part of the heating and cooling systems fitted to small-sized homes thanks to its ultra-compact design. 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

LWT [°C]	Outdoor air temperature - Dry Bulb (Wet Bulb) - °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
<b>35</b>	<b>4.20</b>	<b>2.47</b>	<b>4.29</b>	<b>2.74</b>	<b>4.55</b>	<b>3.14</b>	<b>5.80</b>	<b>4.11</b>	<b>6.72</b>	<b>4.66</b>
<b>45</b>	<b>3.90</b>	<b>2.01</b>	<b>4.34</b>	<b>1.99</b>	<b>4.62</b>	<b>2.27</b>	<b>4.50</b>	<b>2.65</b>	<b>6.44</b>	<b>3.06</b>
<b>55</b>	<b>3.10</b>	<b>1.70</b>	<b>3.25</b>	<b>1.84</b>	<b>3.21</b>	<b>1.96</b>	<b>4.00</b>	<b>2.04</b>	<b>5.50</b>	<b>2.58</b>

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

LWT [°C]	Inlet outdoor air temperature - °C	
	35	
	Qc [kW]	EER
<b>7</b>	<b>3.40</b>	<b>2.27</b>
<b>18</b>	<b>4.80</b>	<b>3.30</b>

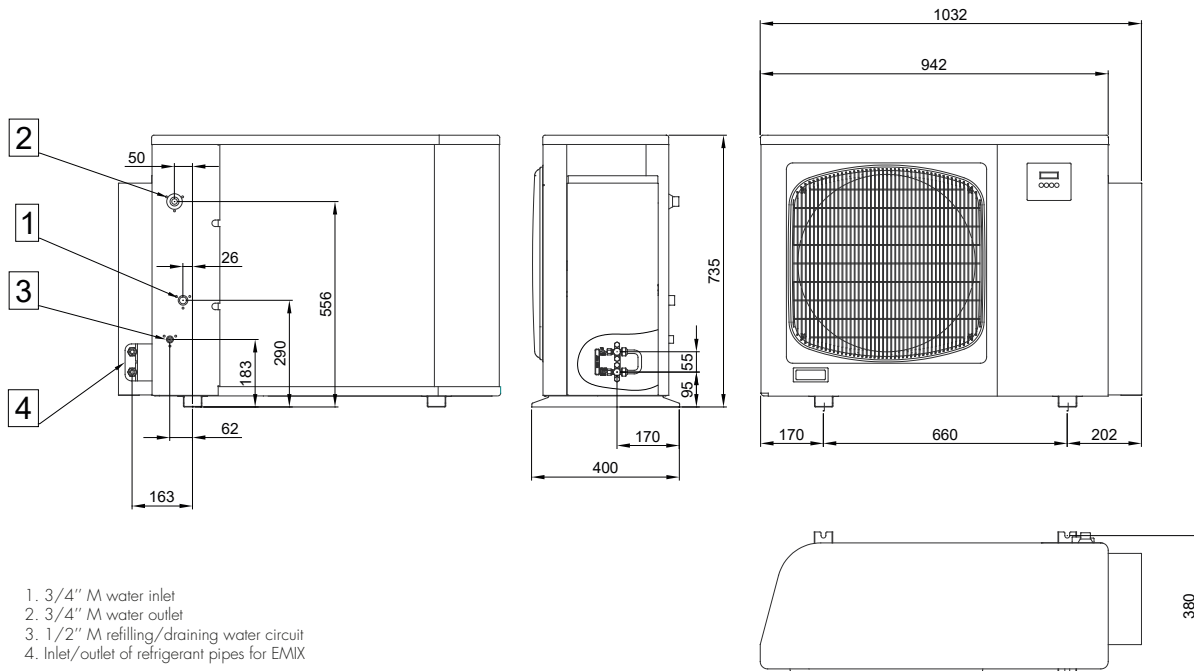
LWT: Leaving water temperature  
Qc: Cooling capacity  
EER: Energy efficiency ratio

Application data  
Water inlet/outlet temperature difference = 5 °C

OUTDOOR UNIT				AIM06EMX	
<b>Matchable units for Domestic Hot Water (DWH) production</b>				EMIX TANK V2 (200-300 liters)	
				EMIX V1 + External Tank	
				External Tank + 3-way valve	
<b>Performance according to EN 14511</b>	Air +35°C - Water 23/18°C Air + 7°C - Water 30/35°C	Nominal-max. Cooling/Heating capacity	kW	Cooling 4.80 - 5.80	Heating 5.80 - 6.60
		Nominal electric power input	kW <sub>el</sub>	1.41	1.41
		Nominal EER/COP		3.41	4.12
	Air +35°C - Water 12/7°C Air - 7°C - Water 30/35 °C	Nominal-max. Cooling/Heating capacity	kW	3.40-3.80	4.20
		Nominal electric power input	kW <sub>el</sub>	1.50	1.70
		Nominal EER/COP		2.27	2.47
<b>Performance according to ERP Ecodesign EN 14825</b>	LOW TEMPERATURE AVERAGE season	Nominal Heating capacity	kW	5.00	
		Seasonal energy efficiency η <sub>s</sub>	%	153	
		SCOP		3.90	
	MEDIUM TEMPERATURE AVERAGE season	Energy efficiency class		A++	
		Nominal heating capacity	kW	4.00	
		Seasonal energy efficiency η <sub>s</sub>	%	111	
<b>DHW Performance according to EN 16147</b>	With 300L tank and diverting valve	SCOP		2.85	
		Energy efficiency class		A+	
		Load profile		XL	
		Energy efficiency class		A	
	With Emix Tank 200 V2	DHW COP		2.18	
		ERP efficiency	%	91	
Heating-up time from 10°C to 47°C		h:m	4:04		
Load profile			L		
<b>Unit operation data</b>	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	m <sup>3</sup> /h	at 35 °C	1.00	
			at 45 °C	0.76	
			at 55 °C	0.45	
Minimum efficient water volume of the system	l	40			
Power supply (Voltage/Phases/Frequency)	V/Ph/Hz	230/1+T/50			
Maximum electric consumption	kW/A	2.80/12.70			
Fuse		16 A			
Sound pressure	dB(A)	40			
<b>Components and dimensions</b>	Expansion vessel	l	2		
	Maximum pump pressure	m <sub>H2O</sub>	6 (see H/Q diagrams)		
	Water connections	inch (")	3/4"		
	Safety valve	bar	3		
	Weight	kg	64		
	Dimensions H/W/D	mm	735/1030/400		
<b>Refrigerant pipes to eMIX/eMIX TANK</b>	Compressor type		Twin Rotary		
	Diameters (gas/liquid)	inch (")	3/8"		
	Maximum length	m	10		
	Minimum length	m	5		
<b>Refrigerant</b>	Max height difference IU-OU	m	10		
	Type and GWP		R410A / 2088 kg CO <sub>2</sub> eq.		
	Standard charge		1.30 kg / 2.71 Tons CO <sub>2</sub> eq.		

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 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 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.

# AIM06 EMX data sheet



## Characteristic curve of the pump and load losses in the unit

