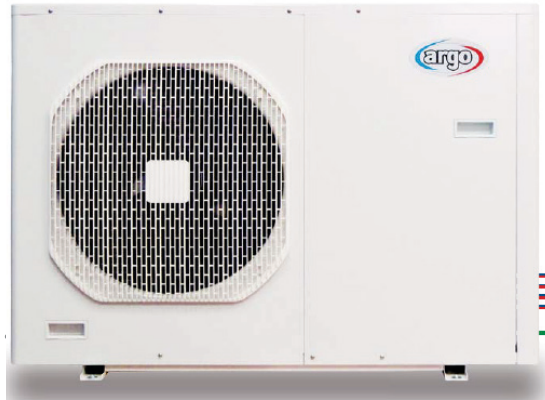


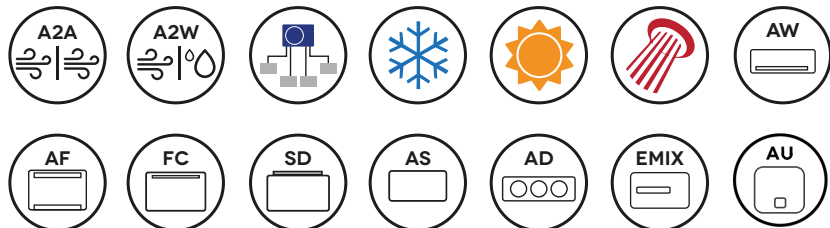
# AEI 1G80 BEMX/EMX 3PH DATA SHEET







## EXTREME FLEXIBILITY, PART WAY BETWEEN RESIDENTIAL AND COMMERCIAL USE

With an unrivalled design for average-sized air/air & air/water hybrid systems, it also allows for the connection of up to 4 indoor units of any type, such as air, water, radiant panels or low-temperature radiators, in a single, dual, triple or quadruple configuration.

By using the EMIX port to connect the unit to an EMIX/EMIX TANK, mixed applications can be created to generate domestic hot water at the same time. The G80 unit is available in both a single-phase and three-phase version.



## POSSIBLE COMBINATIONS WITH INDOOR UNITS (SIZES)

	 / 	
AUCH	AUAH+A+A+A •	C •
AUCH •	AUAH+A+B •	A+B •
	AUBH+A+A+A •	B+B
	AUBH+A+B •	A+A+A •
	AUCH+A+A •	A+A+B •
		A+A+A+A

• The dot next to the combination indicates where EMIX or EMIX TANK are used.

• Mixed: air/water for heating and air/air for cooling, not in operation at the same time

OUTDOOR UNIT				AEI 1G80 BEMX / EMX 3PH			
Matchable units Domestic Hot Water (DHW)				EMIX TANK V2 200-300 liters			
				EMIX V1			
				External DHW tank			
Matchable air/air indoor units				see tables			
Matchable air/water indoor unit				AUCH			
AIR / WATER							
Performances according to EN 14511	Air +35 °C - Water 23/18 °C Air + 7 °C - Water 30/35 °C	Nominal capacity	kW	Cooling	6,90	Heating	8,00
		Power input	kW <sub>el</sub>		1,89		1,90
		EER/COP			3,65		4,20
	Air +35 °C - Water 12/7 °C Air - 7 °C - Water 30/35 °C	Cooling/Heating capacity	kW		4,90		6,30
		Power input	kW <sub>el</sub>		2,30		2,47
		EER/COP			2,13		2,55
Performances according to ERP Ecodesign EN 14825	LOW TEMPERATURE AVERAGE climate conditions	Rated heat output	kW				7,00
		Seasonal energy efficiency η <sub>s</sub>	%				153
		SCOP					3,90
	MEDIUM TEMPERATURE AVERAGE climate conditions	Energy class					A++
		Rated heat output	kW				6
		Seasonal energy efficiency η <sub>s</sub>	%				110
SCOP					2,83		
Energy class						A+	
AIR / AIR							
Performances according to EN 14511	Outdoor air +35 °C - Indoor air 27 °C Outdoor air +7 °C - Indoor air 20 °C	Nominal capacity (min/max)	kW	Cooling	6,87 (1,60 / 9,62)	Heating	8,00 (1,7 / 11,2)
		Power input	kW <sub>el</sub>		1,86		2,60
		EER/COP			3,70		4,22
Performances according to ERP Ecodesign EN 14825	AVERAGE climate conditions	P <sub>design,c</sub> /P <sub>design,h</sub>	kW		9,00		7,70
		SEER/SCOP			6,70		4,10
		Energy class			A++		A+
DOMESTIC HOT WATER							
Performances according to ERP Ecodesign EN 14825	Tapping profile					XL	
	ERP class					A	
	COP					2,23	
	Efficiency		%			A	
Functional data	Outdoor temperature range		°C		-15 / +43	-15 / +24	
	Indoor temperature range		°C		+10 / +47	+5 / +27	
	Power supply		V/Ph/Hz		230/50-60/1+T - 400/50/3+N+T		
	Maximum electric input		kW/A		3,3/15 - 5,2/10x3		
	Sound pressure		dB(A)		45		
	Sound power		dB(A)		64		
Components & dimensions	Compressor type					Twin Rotary	
	Fan air flowrate		m <sup>3</sup> /h			3000	
	Weight		kg			87	
	Dimensions HxWxD		mm			835x1190x400	
Refrigerant connections	Diameter (liquid-gas)		inch			1/4"-3/8"(x3) + 1/4"-1/2" + 3/8"-3/8"(EMIX)	
	Total tube lenght (standard charge)		m			multi 40 / mono 30	
	Total tube lenght (additional charge)		m			multi 65 / mono 50	
	Tube lenght (standard charge)		m			30	
	Tube lenght (additional charge)		m			30	
	Maximum height difference between IU-OU		m			10	
Refrigerant	Type & GWP					R410A / 2088 kg CO <sub>2</sub> eq.	
	Quantities					2,9 kg / 6,05 CO <sub>2</sub> eq.	

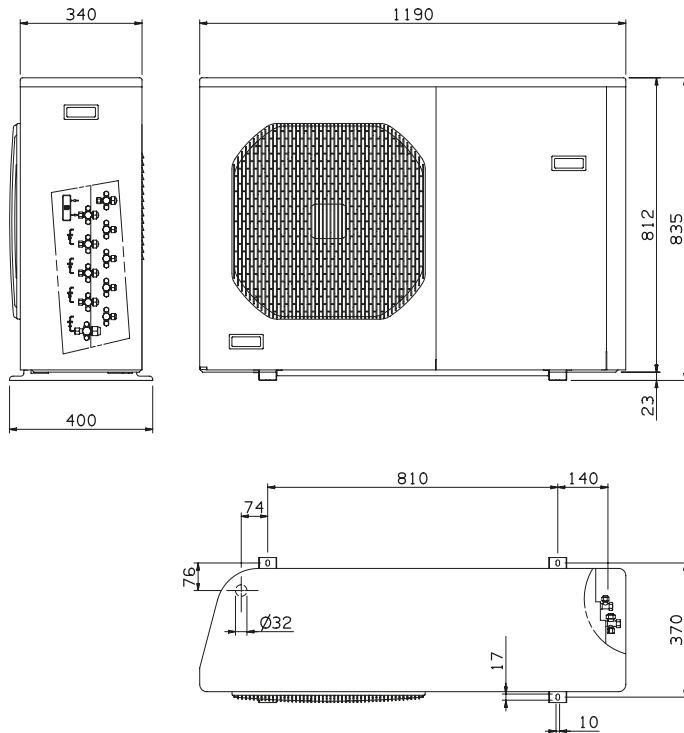
#### Notes

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.

# AEI 1G80 BEMX/EMX 3PH DATA SHEET



## DATA BASED ON THE UNI/TS 11300-4:2016 STANDARD

### HEATING

LAT [°C]	Outdoor air temperature D.B. (H.B.) °C									
	-10 (-11)		-7 (-8)		2 (1)		7 (6)		12 (11)	
	Qh [kW]	COP	Qh [kW]	COP	Qh [kW]	COP	Qh [kW]	COP	Qh [kW]	COP
20	6,50	2,36	6,80	2,45	6,10	2,36	11,20	3,27	11,60	3,55

LAT: Living air temperature  
Qh: Heat capacity  
COP: Coefficient of performance

### COOLING

LAT [°C]	Inlet outdoor air temperature °C	
	35	
	Qc [kW]	EER
27 (19)	9,60	3,74

LAT: Living air temperature  
Qc: Cooling capacity  
EER: Energy efficiency ratio

## DATA BASED ON THE EN 14511-3:2013 STANDARD

### HEATING

LWT [°C]	Outdoor air temperature D.B. (H.B.) °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	6,30	2,55	7,09	2,89	8,04	3,34	8,00	4,20	11,46	4,62
45	5,70	2,03	6,38	2,48	7,20	2,79	8,00	3,12	10,02	3,64
55	4,90	1,60	4,99	1,99	5,49	2,10	6,10	2,32	7,78	2,71

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

**Application data**  
The difference in temperature of the water entering/leaving the condenser: 5K, 8K for LWT = 55°C  
Condenser fluid: water

### COOLING

LWT [°C]	Inlet outdoor air temperature °C	
	35	
	Qc [kW]	EER
7	4,90	2,13
18	6,90	3,65

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

**Application data**  
The difference in temperature of the water entering/leaving the condenser: 5K  
Condenser fluid: water