

AEI 1G110 BEMX/EMX 3PH DATA SHEET



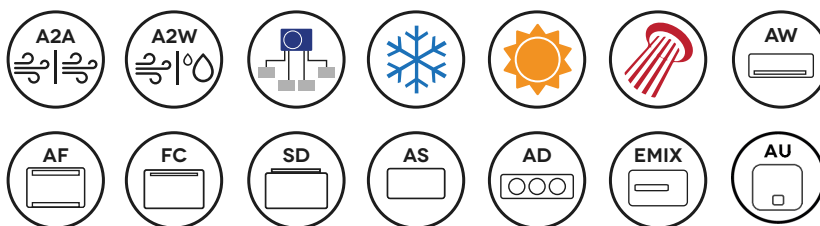
PERFECT FOR VILLAS, OFFICES OR BUSINESSES, WITH CONTINUOUS DHW

With a good heat capacity, this unit is ideal for building hybrid air/air and air/water systems in both medium-sized residential and small commercial buildings.





Featuring a compact, single-valve structure 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 G110 unit is available in both a single-phase and three-phase version.



POSSIBLE COMBINATIONS WITH INDOOR UNITS (SIZES)

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

- 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

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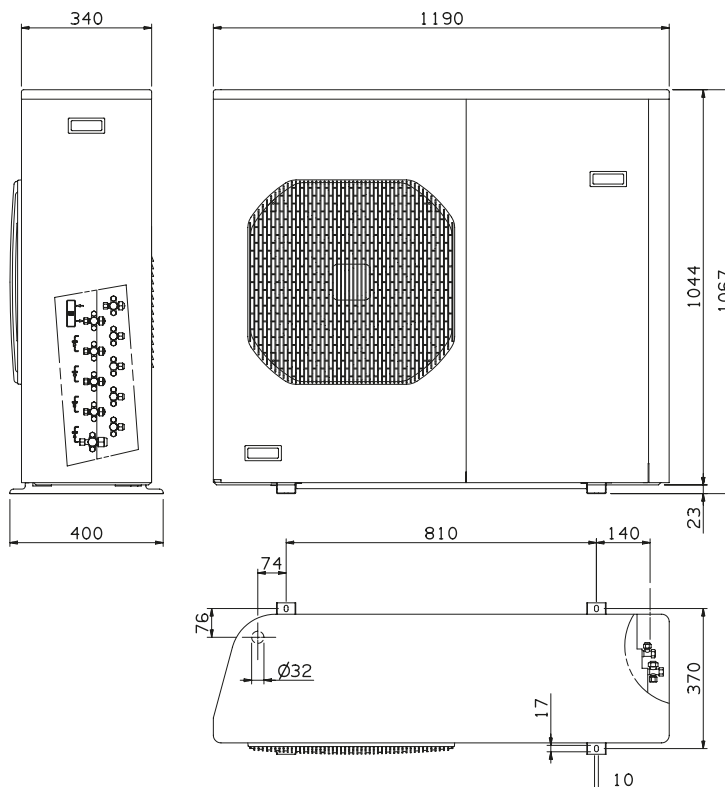
OUTDOOR UNIT			AEI 1G110 BEMX/EMX 3PH		
Matchable units Domestic Hot Water (DHW)			EMIX TANK V2 200-300 liters		
			EMIX V1		
			External DHW tank		
Matchable air/air indoor units			see tables		
Matchable air/water indoor unit			AUCH		
AIR / WATER					
Performances according to EN 14511	Air +35 °C - Water 23/18 °C Air + 7 °C - Water 30/35 °C	Nominal capacity	kW	Cooling 9,10	Heating 10,63
		Power input	kW _{el}	2,51	2,61
		EER/COP		3,62	4,07
	Air +35 °C - Water 12/7 °C Air - 7 °C - Water 30/35 °C	Cooling/Heating capacity	kW	6,50	7,30
		Power input	kW _{el}	3,16	3,29
		EER/COP		2,06	2,22
Performances according to ERP Ecodesign EN 14825	LOW TEMPERATURE AVERAGE climate conditions	Rated heat output	kW	8,00	
		Seasonal energy efficiency η _s	%	150	
		SCOP		3,83	
	MEDIUM TEMPERATURE AVERAGE climate conditions	Energy class		A++	
		Rated heat output	kW	7	
		Seasonal energy efficiency η _s	%	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 8,65 (1,8 / 11,5)	Heating 11,00 (1,9 / 13,5)
		Power input	kW _{el}	2,46	2,59
		EER/COP		3,51	4,24
Performances according to ERP Ecodesign EN 14825	AVERAGE climate conditions	P _{design,c} /P _{design,h}	kW	10,60	9,40
		SEER/SCOP		6,60	4,10
		Energy class		A++	A+
DOMESTIC HOT WATER					
Performances according to ERP Ecodesign EN 14825	Tapping profile			XL	
	ERP class			A	
	COP			2,14	
	Efficiency		%	87	
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	4,4/20 - 5,2/10X3	
	Sound pressure		dB(A)	45	
	Sound power		dB(A)	65	
Components & dimensions	Compressor type			Twin Rotary	
	Fan air flowrate		m ³ /h	3500	
	Weight		kg	90	
	Dimensions HxWxD		mm	1070x1190x400	
Refrigerant connections	Diameter (liquid-gas)		inch	1/4"-3/8"(x3) / + 1/4"-1/2" + 3/8"-3/8"(EMIX)	
	Total tube length (standard charge)		m	multi 40 / single 30	
	Total tube length (additional charge)		m	multi 65 / single 50	
	Tube length (standard charge)		m	30	
	Tube length (additional charge)		m	30	
	Maximum height difference between IU-OU		m	10	
Refrigerant	Type & GWP			R410A / 2088 kg CO ₂ eq.	
	Quantities			3,38 kg / 7,05 Tonn CO ₂ 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.



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	7,50	2,40	8,30	2,36	9,40	2,64	12,50	3,07	13,20	3,45

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)	11,50	3,36

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	7,30	2,22	8,14	2,80	9,14	3,29	10,63	4,07	12,15	4,70
45	7,50	1,97	8,73	2,28	9,95	2,61	10,60	3,02	11,94	3,37
55	5,80	1,49	6,24	1,93	7,03	2,02	7,20	1,17	8,85	2,41

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	6,50	2,06
18	9,10	3,62

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