

Air Cooled Heat Pump

EuroAqua 45-125 Air H

 46.8-121.9 kW

 Air cooled

 Scroll

 50-120 kW

 Plate

 410A

Technical feature

- 7 sizes
- Cooling capacity from 46 to 12 kW
- Heating capacity from 50 to 120 kW
- Refrigerant R410A
- EER up to 3
- ESSEER up to 4
- COP up to 3.12
- SCOP up to 3,31

Main functions

- Available with one cooling circuit
- Tandem scroll for refrigerant circuit
- Extended operating limits
- Heat Pump operating function
- Leaving hot water up to 55°C

Available versions

- Low sound level standard
- High temperature operation up to 50°C
- Return or leaving water temperature control
- With or without Hydraulic kit

Product Advantages

- Operating heating mode up to -15°C
- Tandem scroll compressors per circuit for a highest efficiency at partial load
- High ESEER
- ILTC II Controller that allows to reduce the use of an external water tank 3,5 l/kW
- Low footprint
- Easy maintenance
- Low water pressure drop
- Set point compensation as (standard)
- Night mode (extra low sound level) std

Operating limit (to be confirmed following selection software issue)

Cooling mode	
Leaving water temperature (without glycol)	5/18°C
Leaving water temperature (with glycol max 40%)	2/18°C
External Max air temperature	50°C
External Min air temperature	-10°C
Heating mode	
Leaving water temperature max	55°C
External Max air temperature	+20°C
External Min air temperature	-15°C



- ON-OFF Remote
- Remote heat cool mode
- Water flow switch factory mounted (standard)
- Water filter (standard) (not mounted)
- Phase monitor (standard)
- Few options, maximum features as (standard)

Main accessories and options

- HP/BP Manometers
- Kit interface modbus
- Low temperature kit (-15°C)
- Compressor softstarter
- Power supply without neutral
- Aluminium fins with epoxy coating
- Condenser coil guards
- Complete Hydraulic kit 1 pump medium pressure
- Rubber antivibration pad
- Water level pressure switch
- Water tank 300lt
- Complete Hydraulic kit 2 pumps medium pressure
- High pressure Fan

Technical feature

EuroAqua 45-125 Air H		45	55	65	75	90	105	125
Cooling Capacity	kW	46,8	53,3	65,8	71,6	91,4	106,0	122
Power input	kW	16,89	19,66	22,1	23,8	34,36	38,0	46,4
Total EER 100%**		2,77	2,71	2,97	3	2,66	2,79	2,63
ESEER**		3,87	3,89	4	3,97	3,82	3,85	3,83
Heating Capacity	kW	50	58,4	69,6	75,9	88	101,0	119
Power input	kW	17,85	20,42	22,7	24,3	33,72	38,4	45,4
SCOP		2,99	3,07	3,30	3,23	3,24	3,26	3,31
SCOP Energy Efficiency Class		A	A	A+	A+	A+	A+	A+
Power supply		400V/3~+N/50HZ						
Start up type		Direct	Direct	Direct	Direct	Direct	Direct	Direct
Nominal current	A	30	35	42	47	62	69	84
Maximum operating current	A	41	45	59,5	64,5	79,5	87,5	103,5
Inrush current	A	134	141	205,5	206,5	266,5	313,5	351,5
Refrigerant								
Type		R410A						
Number of refrigerant circuit		1	1	1	1	1	1	1
Compressors								
Qty		2	2	2	2	2	2	2
Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
N° capacity steps	%	0/45/ 55/100	0/40/ 60/100	0/40/ 60/100	0/45/ 55/100	0/45/ 55/100	0/40/ 60/100	0/33/ 67/100
Crankcase heater	W	2'90	2'90	2'90	2'90	90/120	90/140	90/140
Evaporator								
Qty		1	1	1	1	1	1	1
Type		Plates	Plates	Plates	Plates	Plates	Plates	Plates
Water flow rate	m³/h	8	9,1	11,3	12,3	15,7	18,2	20,9
Water pressure drop	kPa	27	35	28	33	26	34	45
Water volume	l	4,1	4,1	6,1	6,1	10,8	10,8	10,8
Antifreeze heater	W	30	30	2'30	2'30	2,30	2'30	2'30
Coil								
Qty		1	1	2	2	2	2	2
Total coil face area per coil	m²	4,2	4,2	5,55	5,55	6,4	6,4	6,4
Fan motors								
Qty		1	1	2	2	2	2	2
Air flow	m³/h	23.500	23.500	30.000	30.000	42.000	42.000	42.000
Power input (unitary)	W	1.800	1.800	800	800	1.800	1.800	1.800
Pumps								
Qty		Option 1 or 2 Pumps						
Power input	kW	Option 1 or 2 Pumps						
Available static pressure	Kpa	Option 1 or 2 Pumps						
Hydraulic Connection								
Type		Male GAS Threaded						
Inlet Diameter	inch	2"	2"	2"	2"	2"1/2	2"1/2	2"1/2
Outlet diameter	inch	2"	2"	2"	2"	2"1/2	2"1/2	2"1/2
Dimensions								
Length	mm	2.180	2.180	2.180	2.180	2.180	2.180	2.180
Width	mm	1.160	1.160	1.160	1.160	1.160	1.160	1.160
Height	mm	1.986	1.986	1.986	1.986	2.286	2.286	2.286
Weight								
Operating	kg	510	510	580	580	890	1.000	1.020
Acoustical data								
Sound power level*	dB(A)	79	79	79	79	82	82	82

* Following Eurovent standard.

** Following Eurovent 14511.