

Inverter Air Cooled Heat Pump

Mini EuroAqua DCI 5-16

NEW
Q1 2016



5-14.5kW



Air cooled



Scroll



410A



5.5-16 kW



Plate



Inverter

Technical feature

- 6 sizes
- Cooling capacity from 5,0 to 14,5 kW
- Heating capacity from 5,5 to 16,0 kW
- Operating Range:
from -5 to 46 °C cooling and from -15 to 27 °C heating
- DC Inverter technology: Compressor and outdoor fan motor
- One refrigerant circuit with DC compressor
- **Blue fin coil**
- LWT up to +55 °C in heating mode, outdoor temperature down to -15 °C.
- Bi-flow electronic expansion valve as standard
- **Stainless steel plate** heat exchanger with antifreeze protection
- Centrifugal pump as standard
- Operating low water content in the plant

Accessories and options

- Automatic circuit breaker (standard)
- Coil grilles (standard)
- Fan speed control (standard)
- Remote on/off
- Sequence phases control (standard)
- Softstart (standard)
- Water differential pressure switch (standard from 10 to 16)
- Water flow switch (standard from 5 to 7)



Operating limit (to be confirmed following selection software issue)

Cooling mode

Mini EuroAqua DCI		5-16	
		Min	Max
Leaving water temperature*	°C	4	20
Air temperature	°C	-5	46

Heating mode

Mini EuroAqua DCI		5-16	
		Min	Max
Leaving water temperature*	°C	30	55
Air temperature	°C	-15	27

Technical feature

Mini EuroAqua DCI		5	7	10	12	14	16
Cooling Capacity ⁴	kW	5.0	7.0	10.0	11.2	12.5	14.5
Power input ⁴	kW	1.55	2.25	2.95	3.38	3.9	4.53
EER ⁴		3.23	3.11	3.39	3.31	3.2	3.2
Energy Efficiency Class		A	A	A	A	A	A
Cooling Capacity ²	kW	6.57	7.88	10.9	14.5	15.17	16.70
Power input ²	kW	1.27	1.84	2.95	2.8	3.13	3.73
EER ²		5.16	4.28	4.39	5.17	4.84	4.48
Heating Capacity ³	kW	5.5	8.0	11.0	12.3	13.8	16.0
Power input ³	kW	1.7	2.5	3.14	3.72	4.25	4.85
COP ³		3.24	3.2	3.50	3.31	3.25	3.3
Energy Efficiency Class		A	A	A	A	A	A
Heating Capacity ¹	kW	6.32	8.29	10.96	13.75	15.30	16.97
Power input ¹	kW	1.52	2.13	2.51	2.85	3.15	3.86
Part load steps	%	Stepless					
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
Startup type		Soft-start (inverter)					
Refrigerant							
Type		HFC 410A					
Number of refrigerant circuits		1					
Compressor							
Number / Type		1 / Rotary					
Evaporator							
Qty		1					
Type		Plate exchanger					
Water flow rate	l/h	860	1200	1720	1920	2150	2490
Pressure drop	kPa	15	15	18	18	18	19
Fan							
Qty		1	1	1	2	2	2
Air flow	m ³ /h	5.100	5.100	7.000	7.000	7.000	7.000
Power input	W	170	170	100	100	100	100
Pump							
Qty		1	1	1	1	1	1
Power input (H/M/L)	W	93/67/46	93/67/46	210/175/120	210/175/120	210/175/120	210/175/120
Available static pressure	m	5.5	5.5	8	8	8	8
Water Connections							
Inlet/Outlet Diameter	inch	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4
Weight							
Shipping	kg	91	91	121	121	122	122
Operating	kg	81	81	110	110	111	111
Dimensions							
Length	mm	990	990	970	970	970	970
Width	mm	354	354	400	400	400	400
Height	mm	966	966	1327	1327	1327	1327
Acoustical data							
Sound pressure level ⁵	dB(A)	58	58	59	59	60	60

¹ Data refers to chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.

² Data refers to chilled water inlet/outlet temperature: 23/18°C, outdoor ambient temperature 35°C DB.

³ Data refers to warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.

⁴ Data refers to warm water inlet/outlet temperature: 30/35°C, outdoor ambient temperature 7°C DB/6°C WB.

⁵ Sound pressure levels is tested 1m away in front of the unit in a semi-anechoic room (sound pressure).