



Air to Water Heat **Pumps**

J.01

CAIROX tip R-AQUA-CGW-ID

Cairox R-Aqua Air/Water 6 and 10 kW



A2W heat pumps R32 with DHW heater type CAIROX tip R-AQUA-CGW-ID A1

Air/water inverter controlled heat pump with R32 refrigerant. Thanks to the advanced heat pump technology, the energy from the outside air is absorbed and transferred to the water for heating of the home and the domestic hot water. The intelligent control of the compressor and expansion valve ensures a precise and fast control of the water temperature, thus reducing the energy consumption.

Application

- Heating of new or existing houses
- Heating by means of radiators, convectors and floor or wall heating
- Heating of domestic water

Brand

Cairox R-Aqua

Composition

- A+++ at 35°C water temperature
- Communication cable included
- High efficiency plate heat exchanger Wilo circulation pump
- Integrated water heater (185 liters corresponding to 3-4 showers)
- Integrated controller
- Expansion vessel (10 liters) Safety valve (3 bar)
- Electrical backup heater
- Electrical backup heater domestic water
- Outside temperature sensor
- Water pressure sensor

Refrigerant

■ R32



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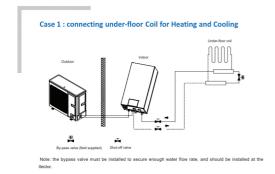
Specifications

- Split system
- 1 appliance for heating and domestic hot water
- Cooling is possible

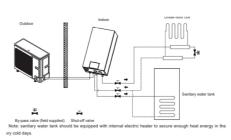
- Standard equipped with WIFI
 Standard equipped with Modbus interface
 Heating assured down to -20°C outside temperature
 Water temperature up to 60°C even at negative outside temperatures thanks to the patented two-stage compressor
- Easy installation
- EUŔOVENT EN 14511 and EN 14825 certification

Applicable outdoor units

Outdoor unit, type R-AQUA-CGW-OU A1

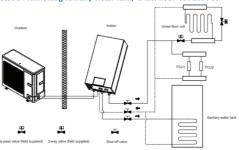


Case 2 : connecting Sanitary Water Tank and under floor coil





Case 3: connecting Sanitary Water Tank, under floor coil and FCU









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Technical data Indoor unit				R-AQUA-CGW-ID 06 A1	R-AQUA-CGW-ID 10 A1
Corresponding outdoor unit				R-AQUA-CGW-OU 06 A1	R-AQUA-CGW-OU 10 A1
Heating capacity A7/W35*			kW	6.0	9.5
COP A7/W35			5.0	4.59	
Heating capacity A7/W45*			kW	5.9	9.5
COP A7/W45			3.91	3.60	
Heating capacity A2/W35*		kW	5.1	8.1	
COP A2/W35			4.26	3.85	
Heating capacity A2/W45*		kW	5.0	8.1	
COP A2/W45			3.44	3.17	
Heating capacity A-7/W35*		kW	4.2	6.7	
COP A-7/W35			3.05	2.81	
Heating capacity A-7/W45*		kW	4.1	6.7	
COP A-7/W45				2.42	2.23
Heating capacity A-10/W35*			kW	3.9	6.2
Heating capacity A-10/W45*			kW	3.8	6.2
	Refrigerant (GWP)		V / Ph / II-	R32 (675)	R32 (675)
Voltage			V / Ph / Hz		/1/50
Seasonal efficiency ηs heat pump (%)		(35°/55°C)	178,7 / 127,4	181/127	
Annual energy consumption heat pump		kWh (35°/55°C)	2729/3169	4038/5091	
Energy class heat pump		(35°/55°C)	A+++/A++	A+++/A++	
Seasonal efficiency ns DHW (%)		(55°C)	101.3	88.9	
		kWh			
Annual energy consumption DHW		(55°C)	1011	1152	
Energy class DHW				A	A
Rated power (indoor unit only)			kW	3.1	6.1
Refrigerant pipes (liquid - gas)			"	1/4 - 1/2	
Hydraulic connections (supply - return)			"	1	
Heating (fan coil)			°C	45	
Outgoing water temperatures Heating (floor) Domestic hot water		°C	35		
		°C	40 ~ 80		
	Pump	Туре	-	water cooling	
		Number of steps	-	variable speed	
		Power (min-max)	W	2-75	
		Flow rate (min)	l/h	720	
		Flow rate (nom)	l/h	1032	1634
		Volume***	L	10	
Components	Expansion vessel	Pressure (max)	Bar	3	
		Pressure (pre)	Bar	1	
	Electrical heating	Туре	-	dry	
		Material	•	stainless steel	
		Control	•	automatic	
		Number of steps	-		2
		Capacity	kW	3	6
		Combination	kW	1,5 + 1,5	3+3
	Heat exchanger	Туре	•	plate heat exchanger	
		Number	-	105	
	Water tank	Volume	L	185	
		Electrical resistance	kW	3	
and musesume @ two	Туре		- dD (A)	XL 29	
ound pressure @ 1m			dB (A)		
wer cable section back-up resistance			mm²	3G 2,5	3G 6
ower cable section indoor unit utomatic fuse (slow)			mm²	3G 2,5	3G 6
tomatic fuse (slow)	11-16	(LydA(yd I)	A	20	32
Dimensions	Unit (LxWxH)		mm	803 x 683 x 2000 210	
Specifications and design can change without notice for further improvements			kg	2	10