



Air to Water Heat **Pumps**

J.01

CAIROX tip R-AQUA-CGW-IU

Cairox R-Aqua Air/Water 16kW



A2W heat pumps R32 hydromodule 3Ph. type CAIROX tip R-AQUA-CGW-IU M1

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 and cooling 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 exchangerWilo circulation pump
- Wired controller
- Expansion vessel (10 liters)
- Safety valve (3 bar)
- Electrical backup heater
- Outside temperature sensor
- Water pressure sensor

Refrigerant

■ R32

Specifications

- Split system
- 1 appliance for heating and domestic hot water
- Cooling is possible
- Standard equipped with WIFI
- Standard equipped with Modbus interface



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- Power supply: 400V/3PH+N
- 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

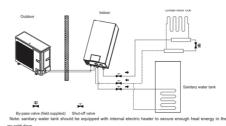
Outdoor unit, Type R-AQUA-CGW-OU M1

Applicable boiler

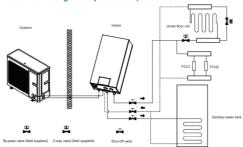
- Hot water heater 300 liters, type R-AQUA-CGDHW 300 B A1
 Hot water heater 300 liters, type R-AQUA SANI 300
 Hot water heater 500 liters, type R-AQUA SANI 500







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











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Meaning capacity A77/M35			Technical data		
Heating capacity A77W35*	Indoor unit				R-AQUA-CGW-IU 16 M1
Maring paperty AT/W45* KW 16.13					
Heating capacity A77W45* SW 16.13					
Mathing apartity A2/WS 13.16					
Heating capacity A2/W35* A01				kW	
COP AZ/W3S WW					
Heating capacity A2/W45* KW				kW	
Heating capacity A-7/N35* KW 10.84					
Heating capacity A-7/W35* KW 10.84				kW	
10					
Heating capacity A-7/W45* KW 10.84				kW	
COP A-7/WIS					
Heating capacity A-10/W35* kW 10.07 Heating capacity A-10/W45* kW 10.07 Refrigerant (GWP) R32 (675) Voltage V / Ph / Hz 400/3/50 Seasonal efficiency ny heat pump (%) (35*/55*C) 175/130 Annual consumption heat pump (85*/55*C) (35*/55*C) Annual consumption heat pump (85*/55*C) (35*/55*C) Energy class 35*/55*C A+++/A++ Rated power (indoor unit only) kW 6.1 Refrigerant pipes (liquid-gas) " 1/4 - 5/8 Hydraulic connections (supply - return) " 1 Outgoing water temperatures Heating (floor) "C 45 Outgoing water temperatures Heating (floor) "C 45 Flow rate (min) 1/4 720 Flow rate (min) 1/h 720 Flow rate (min) 1/h 1634 Fressure (pre) Bar 1 Type - dry Gapacity kW 6 Combination kW 3+3 Heat exchanger Type - plate heat exchange Number of steps - Combination kW 3+3 Heat exchanger Type - Flow rate (min) 1/h 3+3 Heat exchanger Type - Flow rate (min) 1/h 3+3 Heat exchanger Type - Flow rate (min) 1/h 3+3 Heat exchanger Type - Flow rate (min) 1/h 3+3 Heat exchanger Type - Flow rate (min) 1/h 3+3 Heat exchanger Type - Flow rate (min) 1/h 3+3 F				kW	
Heating capacity A-10/Wd5* R23 (675) Refrigerant (GWP) R23 (675) Voltage V / Ph / Hz 400/8/50 Seasonal efficiency µs heat pump (%) (35*/55*C) 175/132 Annual consumption heat pump RWh R24 (77958 Annual consumption heat pump RWh R24 (77958 Energy class 35*/55*C A+++/A++ Rated power (Indoor unit only) KW 6.1 Refrigerant pipes (Ilquid - gas) - 1 14-5/8 Heating (floor) C 45 Outgoing water temperatures Heating (flan coil) C 45 Outgoing water temperatures Heating (floor) C 35 Domestic hot water C 40 - 80 Flow rate (min) V/h 720 Flow rate (min) V/h 720					
Refrigerant (GWP)					
V / Ph / Hz	Heating capacity A-10/W45*			kW	
V / Ph / Hz 400/3/50		Refrigerant (GWP)			R32 (675)
Annual consumption heat pump				V / Ph / Hz	400/3/50
Section Sect				(35°/55°C)	175/132
Sty/P5*C A+++/A++				kWh	
Rated power (indoor unit only)				(250/5505)	6027/7958
Refrigerant pipes (liquid - gas)		Programme all and			A /A
Number of steps Persure (pre) Persure (p					
Hydraulic connections (supply - return)				kW	
Heating (fan coil)					
Dutgoing water temperatures		Hydraulic connections (supply - re			
Domestic hot water °C 40 - 80					
Pump	Outgoing w	ater temperatures			
Pump					
Pump Power (min-max) W 3-87					
Flow rate (min) J/h 720					
Flow rate (nom)		Pump			
Expansion vessel Pressure (max) Bar 3					
Expansion vessel Pressure (max) Bar 3	Components –				
Pressure (pre) Bar		Expansion vessel			
Type				Bar	3
Electrical heating				Bar	
Electrical heating Control - automatic		Electrical heating			
Electrical heating				-	
Number of steps				-	
Combination KW 3+3 Heat exchanger Type - plate heat exchanger					
Heat exchanger Type - plate heat exchanger Number - 1 essure @ 1m dB (A) 29 ble section indoor unit mm² 5G 2,5 ic fuse (slow) A 20 Dimensions Unit (LXWXH) mm 460 x 320 x 86 Weight kg 62					
Number - 1			Combination	kW	3+3
Number - 1		Hoat eychanger	Туре	-	plate heat exchanger
Sele section indoor unit		Heat exchanger			
English			dB (A)	29	
trus (slow) A 20 20 20 20 20 20 20 20 20 20 20 20 20	cable section indoor unit			mm²	5G 2,5
Weight kg 62					
Weight kg 62				mm	460 x 320 x 860
	Dimensions				
ions and design can change without notice for further improvements	ions and design can cha				

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