

MACS® MODULE

MODULE FOR IMMEDIATE D.H.W. PRODUCTION



APPLICATION

MACS® module produces instantly D.H.W. with high flow rate.

HEAT EXCHANGERS, MATERIAL

Copper circuitry, fittings and valves in brass.

316L stainless steel brazed plate heat exchanger with a thermostatic mixer in the Entry heating water from the buffer avoiding the plate exchanger to overheat and reducing risk of calcium deposits. Module's frame in PPE protecting and insulating the heat exchanger and circuits.

TECHNICAL INFORMATION

MACS® module produces instantly D.H.W. with high flow rate and without storage of water.

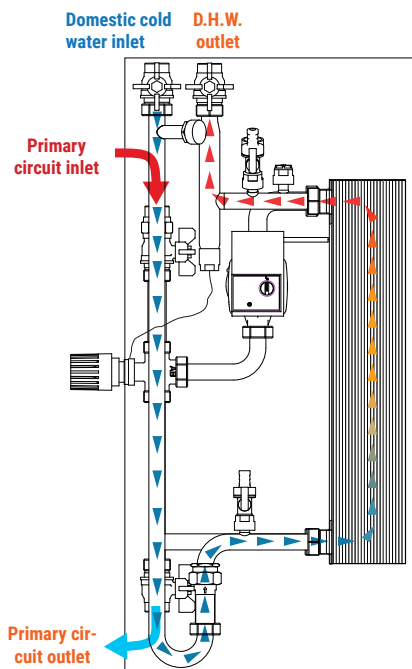
The immediate and fast production of D.H.W. granted by the external plate exchanger system allow the following benefits:

- reduced dimensions for DHW productions
- easy maintenance
- maximum hygiene for anti-legionellosis bacteria's
- to produce more DHW than the quantity obtained by water heater with similar capacity thanks to the heating water stored at an higher temperature than DHW.

WARRANTY

2 years

See general sales conditions and warranty.



MANUAL THERMOSTATIC REGULATION

MACS® is connected to the buffer tank, and its 316L stainless steel heat exchanger produce hot domestic water, using the heat energy stored in the Buffer thanks granting safety and comfort with the possibility to regulate outlet temperature.

MACS® module

Output	Stainless steel Plate Exchanger 316 L
[kW]	Art. Nr.
70	3316006700005
120	3316006700006

MACS® TECHNICAL DATA	70 Kw model	120 Kw model
Primary circuit maximum flow rate (inlet)	1.200 l/h	1620 l/h
D.H.W. maximum flow rate (outlet)	1.800 l/h ΔP 0,5 bar	3.000 l/h ΔP 0,5 bar
DHW station maximum flow rate	30 lt/min	50 lt/min
DHW production (at 10-45°C) with 70°C storage	24 lt/min	41 lt/min
Maximum working temperature	90 °C	90 °C
Maximum working pressure	6 bar	6 bar
Electrical supply	230 V AC, 93 W	230 V AC, 132 W
Minimal D.H.W. request to activate / disactivate MACS® station	1,5 l/m ± 0,5	1,5 l/m ± 0,5
Insulated D.H.W. case dimension (LxHxW)	L 400 x H 700 x P 260 mm	L 500 x H 905 x P 310 mm
Connections	¾" M	1" F / ¾" F
Exchanger model	SLB 20 / 34 plates	SLB 40 / 40 plates

Accessories on request

Recirculation kit

Art. Nr.
5221000000054
Control display + pump (for D.H.W.)



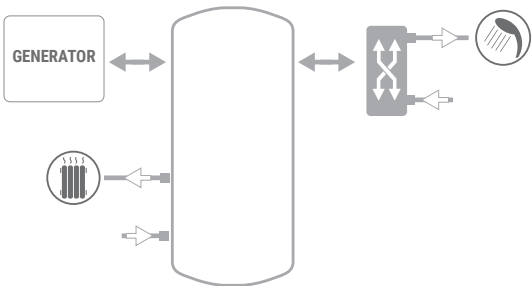
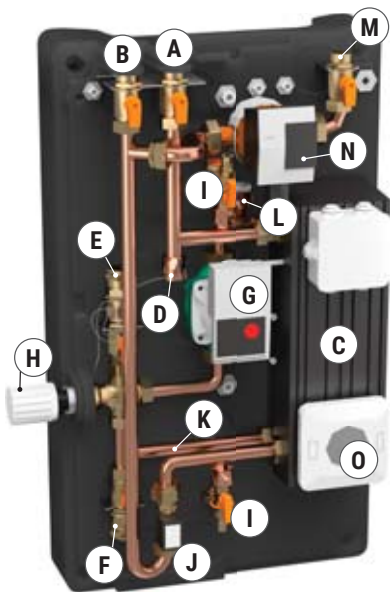
The use of Cordivari's recycling kit allows to manage on the system a link of the DHW recycling.

The benefit consists of improving the comfort for the user by reducing the waste of domestic water and producing DHW immediately at the right temperature.

In particular, the Cordivari electronic recycling kit allows to:

- Maximize the energy saving by setting the program of recycling temperature based on personal habits.
- Daily and weekly scheduling to manage until 8 time slots for each days of the week
- Constantly monitoring the working and the efficiency of the recycle tanks to the self-diagnostics of the system
- Work also without the temperature's probe, through programmable temporary actions.

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A	Domestic Hot Water exit	G	"Energy Saving" Circulation Pump
B	Domestic Water entry	H	Thermostatic Valve
C	Stainless Steel Plate Exchanger	I	Valves In/Out for DHW
D	Control for thermostatic head	J	Flow switch for DHW
E	Heating water inlet from the buffer	K	Return to primary circuit
F	Heating water back to the buffer	L	Purge valve

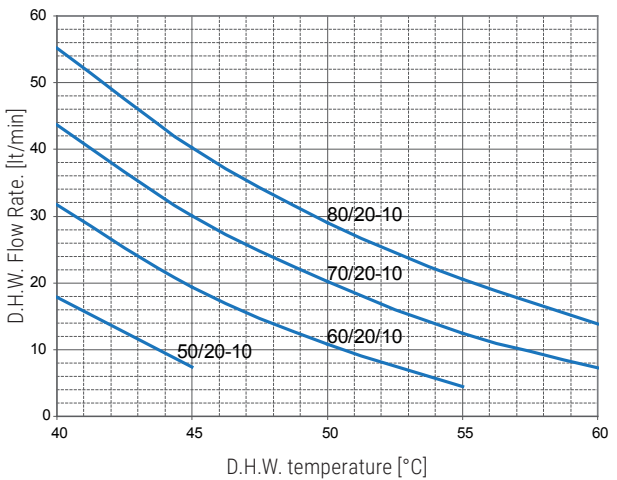
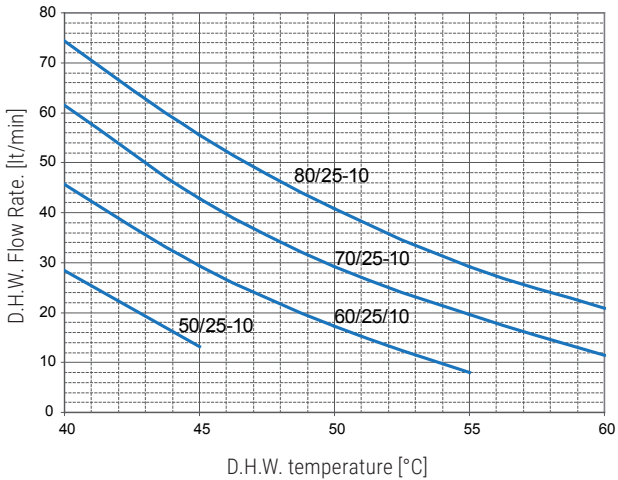
D.H.W. recirculation kit (optional)	
M	Connection for D.H.W. recirculation (optional)
N	Recirculation pump (optional)
O	D.H.W. recirculation control display (optional)

MACS[®] TECHNICAL DATA CHART

The curves in below charts are useful to calculate the flow rate of DHW product by a MACS[®] module unit depending on the DHW desired temperature (value reported on the horizontal axis)

The various curves are determined according to 3 parameters: the temperature of the storage tank; the temperature of the heating water flow returning to the storage tank and the inlet temperature of the DHW water.

120 Kw



70 Kw

