

PUFFERMAS® 2

HEATING WATER BUFFER TANK WITH 1 FIXED HEAT EXCHANGER AND
MACS® MODULE FOR IMMEDIATE D.H.W. PRODUCTION



APPLICATION

Storage of heating hot water and immediate production of D.H.W. high flow rate.

MATERIAL

Mild steel construction with exterior paint. No anti-corrosion treatment required due to the buffer's closed circuit system.

D.H.W. HEAT EXCHANGER

Plate to plate stainless steel exchanger in external MACS® module for immediate D.H.W. production.

HEATING WATER HEAT EXCHANGER

1 fixed heat exchanger

TECHNICAL DESCRIPTION

The immediate and fast production of D.H.W. granted by the outside system steel plate exchange allow the following benefits:

- to reduce dimensions of the water heater needed
- easy maintenance
- maximum hygiene for anti-legionellosis bacteria's

- to produce more DHW than the quantity obtained by boiler with similar capacity because heating hot water is stored at an higher temperature than DHW

INSULATION

Buffer tank: High thermal insulation with ecological hard polyurethane foam.

MACS® module: insulating PPE cover.

Grey PVC external lining

WARRANTY

5 years (tank)

See general sales conditions and warranty for electrical parts.

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.

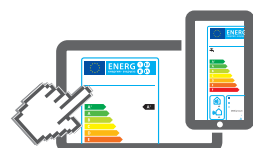


HARD FOAM INSULATION

PATENTED

PUFFERMAS® 2 VB

Model	MACS® module maximum output	HARD FOAM insulation Art. Nr.	SLB heat exchanger model / plates nr.	HEAT EXCHAN- GERS SURFACE [m²]	ENERGY EFFICIENCY CLASS ErP
500	70 kW	3251162314723	SLB20 / 34	1,9	C
600		3251162314724		2,1	C
800		3251162314725		2,5	C
1000		3251162314726		3,1	C
1500		3251162314727		3,8	C
1000	120 kW	3251162314728	SLB40/ 40	3,1	C
1500		3251162314729		3,8	C



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On line ErP label tool

Model	DHW Station max output (*) [kW]	DHW Station max flow rate (*) [l/min]	Max DHW availability (10-45°C) with storage at 70°C [litres]
500	70 kW	30	511
600		30	614
800		30	983
1000		30	1100
1500		30	1680
1000	120 kW	50	1503
1500		50	2254

(*)Data obtained under the following conditions:

- Primary water at 80°C
- DHW production from 10°C to 45°C.

Accessories on request

Thermometer

Art. Nr.
5032240000107
5 units box



Recirculation kit

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



Buffer tanks connecting kit


Art. Nr.	Connection
5006170001001	1" 1/2
Stainless steel extensible connecting kit - (200 ÷ 400 mm)	



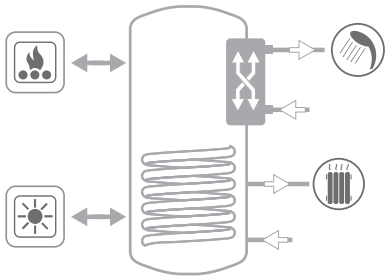
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MACS® MODULE FOR IMMEDIATE D.H.W. PRODUCTION

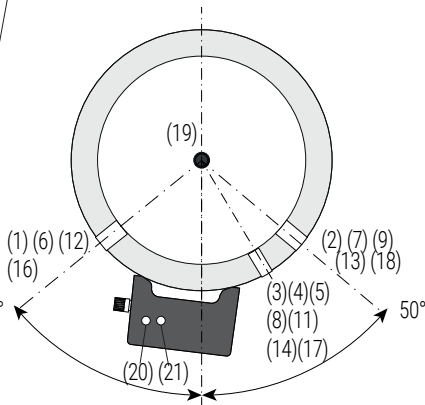
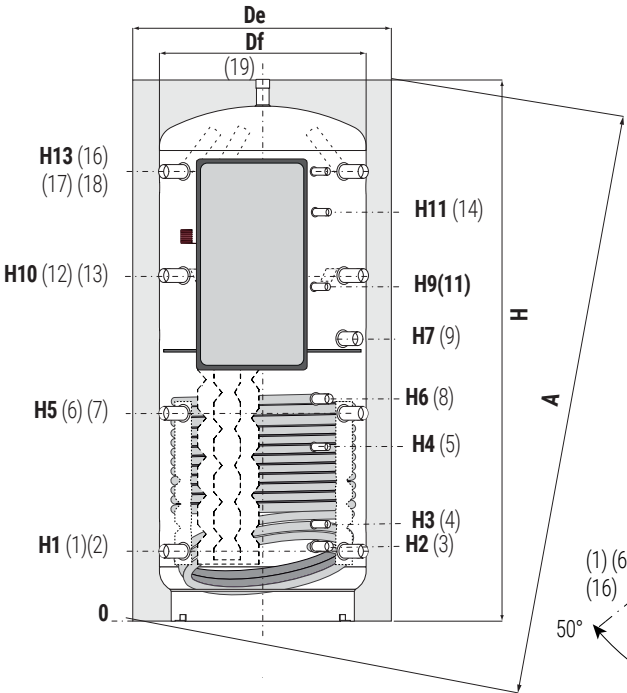
STORAGE		FIXED HEAT EXCHANGER		STAINLESS STEEL PLATE HEAT EXCHANGER (MACS®)		D.H.W. HARDNESS
Pmax	Tmax	Pmax	Tmax	Pmax	Tmax	F max
3 bar	99 °C	12 bar	110 °C	6 bar	99 °C	30 °f

 **CORDIVARI Lab**
TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by Ecodesign ErP Directive.


ASK ALWAYS FOR CERTIFIED LABORATORIES DATA RESULTS

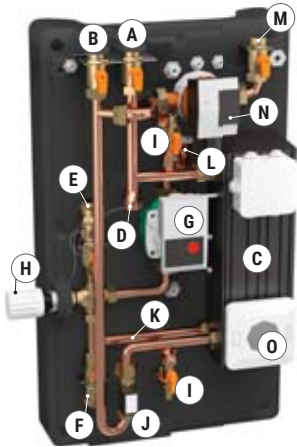


1-2-6-7	Heating return/To Generator 1 1/2" Gas F
3	Lower heat exchanger outlet 1" Gas F
4-5	Connection for instrumentation 1/2" Gas F
8	Lower heat exchanger inlet 1" Gas F
9	Electrical immersion 1 1/2" Gas F
11	Connection for instrumentation 1/2" Gas F
12-13-16-18	Heating delivery/ Heating return 1 1/2" Gas F
14-17	Connection for instrumentation 1/2" Gas F
19	Heating delivery 1 1/2" Gas F
20	Domestic cold water circuit inlet 3/4" Gas M (1" Gas M for models 120kW)
21	Domestic hot water circuit outlet 3/4" Gas M (1" Gas M for models 120kW)



Model	Volume [lt]	De	H	A	H1	H2	H3	H4	H5	H6	H7	H9	H10	H11	H13
		[mm]													
500	478	750	1619	1784	247	260	360	533	629	744	870	1025	1011	1130	1343
600	560	750	1870	2015	247	260	360	582	695	855	970	1200	1144	1485	1593
800	805	950	1840	2066	265	278	378	584	690	762	918	1115	1115	1442	1541
1000	946	950	2130	2328	265	284	384	656	787	953	1145	1388	1309	1588	1831
1500	1454	1100	2250	2504	313	336	432	736	845	1006	1236	1396	1377	1783	1909

MACS® MODULE FOR IMMEDIATE D.H.W. PRODUCTION



A	Domestic Hot Water exit
B	Domestic Water entry
C	Stainless Steel Plate Exchanger
D	Control for thermostatic head
E	Heating water inlet from the buffer
F	Heating water back to the buffer
G	"Energy Saving" Circulation Pump
H	Thermostatic Valve
I	Valves In/Out for DHW
J	Flow switch for DHW
K	Return to primary circuit
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® module is an external unit that immediately produces hot domestic water, using the heat energy stored in the Buffer thanks to the stainless steel plate exchanger, granting safety and comfort with the possibility to regulate outlet temperature.

MACS® module is equipped with a thermostatic mixer in the heating water inlet (primary) from the buffer avoiding the plate exchanger to overheat reducing risk of formation of calcium deposit.



P.E.D. product designed and produced in conformity to the article 4.3 of directive 2014/68/UE - ErP Ecodesign directive 2009/125/CE

EXTRA-BOLLY® CALORIFIERS

BOLLYTERM® CALORIFIERS

STAINLESS STEEL CALORIFIERS

CALORIFIERS FOR HEAT PUMP

MULTIFUEL ENERGY CYLINDERS - PUFFER

HYDRONIC

INERTIAL TANKS

WATER PRESSURE TANKS

COMPRESSED AIR RECEIVERS

ACCESSORIES AND SPARE PARTS

TECHNICAL SUPPORT