

PUFFER 1 CTS®

STORAGE BUFFER TANKS FOR HEATING WATER WITH STRATIFICATION DEVICE
AND 1 FIXED HEAT EXCHANGER



APPLICATION

Efficient storage of heating hot water mostly using biomass, heat pumps or solar thermal energy sources.

MATERIAL

Mild steel outside painted. There is no need of any anti-corrosion treatment due to the fact that the buffer is in a closed circuit without any adding air.

HEAT EXCHANGER

1 mild steel fixed heat exchanger with CTS® stratificator system.

TECHNICAL DESCRIPTION

Used to improve flexibility of pellets, stoves and burners. PUFFER 1 CTS® are used in units with a typically discontinuous energy source such as biomass boiler and solar thermal systems.

PUFFER 1 CTS® is characterized by multiple stratification system based on the combination of Cordivari Labyrinth spreader for returning heating water with a new stratification device that conveys

in the upper part of the tank the water heated up by the lower fixed heat exchanger. This combination ensures a perfect natural stratification inside the tank with no valve or additional external device.

The lower fixed exchanger allows the possibility of connecting with a solar system. Positioned at the bottom lower part of the buffer tank and with very small footprint, it increases the volume available for the storage.

INSULATION

High thermal insulation with ecological hard polyurethane foam. Grey PVC external lining

WARRANTY

5 years - See general sales conditions and warranty

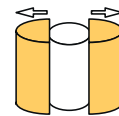
ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



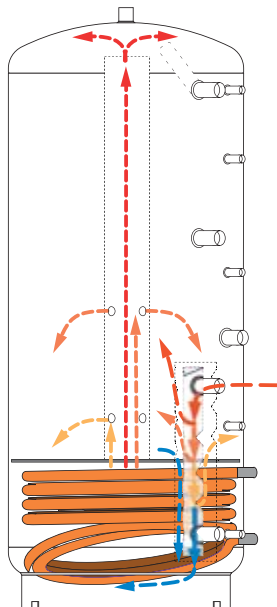
PUFFER 1 CTS® VB

Model	HARD FOAM insulation Art. Nr.	HEAT EXCHANGER SURFACE [m²]	ENERGY EFFICIENCY CLASS ErP
500	3251162313002	1,9	C
600	3251162313003	2,1	C
800	3251162313014	2,5	C
1000	3251162313015	3,1	C
1500	3251162313006	3,8	C
2000	3251162313007	4,6	C



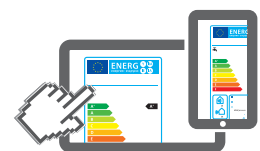
DISMOUNTABLE HARD FOAM

Model	insulation Art. Nr.	[m²]	ENERGY EFFICIENCY CLASS ErP
800	3251162313004	2,5	C
1000	3251162313005	3,1	C



SUITABLE FOR THERMAL SOLAR SYSTEMS

THE ILLUSTRATION UNDERLINES THE STRATIFICATION PROCESS (FROM TOP TO BOTTOM) THAT ALLOWS TO HAVE ALL ENERGY NEEDED RAPIDLY AVAILABLE



www.cordivari.com/erp

On line ErP label tool

Accessories on request

Monophase and threephase electrical immersion

Available kit:	
[Kw]	Tension [V]
da 1,5 a 3	220 - MONOPHASE
da 4 a 9	400 - TRIPHASE
See accessories	

Thermometer

Art. Nr.	
5032240000107	
5 units box	

Buffer tanks connecting kit

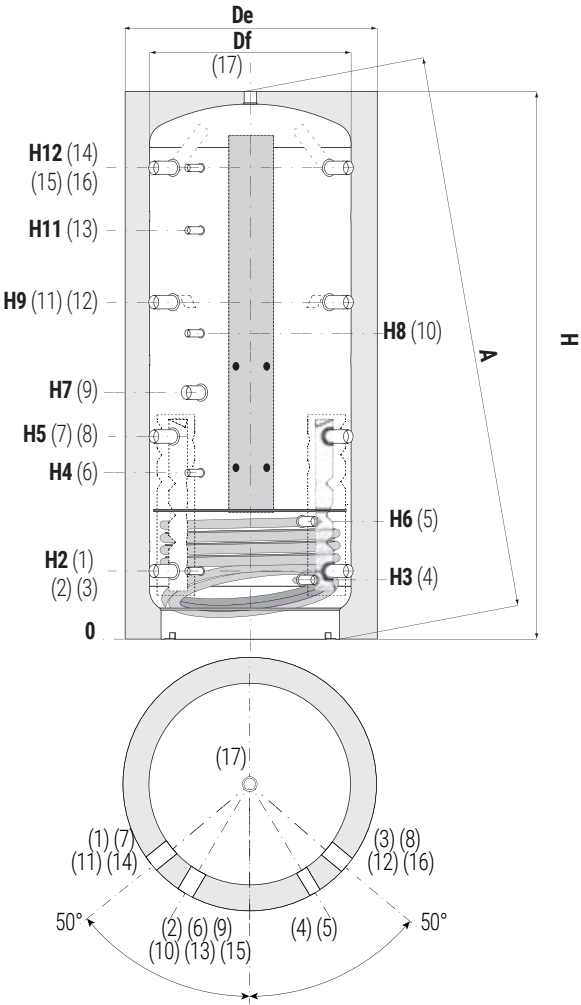
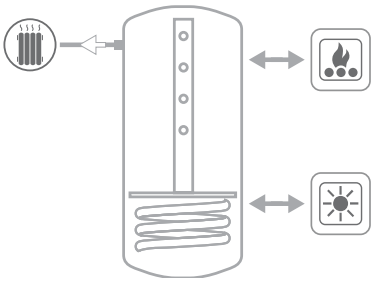
Art. Nr.	Connection	
5006170001001	1" 1/2	
Stainless steel extensible connecting kit - (200 ÷ 400 mm)		

PUFFER 1 CTS®

STORAGE BUFFER TANKS FOR HEATING WATER WITH STRATIFICATION DEVICE
AND 1 FIXED HEAT EXCHANGER

STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
3 bar	99 °C	12 bar	110 °C

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.



1-3-7-8	Heating return/To Generator 1" 1/2 Gas F
2	Connection for instrumentation 1/2" Gas F
4	Fixed heat exchanger outlet 1" Gas F
5	Fixed heat exchanger inlet 1" Gas F
6	Connection for instrumentation 1/2" Gas F
9	Electrical immersion 1" 1/2 Gas F
11-12-14-16	Heating delivery/ Heating return 1" 1/2 Gas F
13	Connection for instrumentation 1/2" Gas F
15	Connection for instrumentation 1/2" Gas F
17	Heating delivery / Air purge 1" 1/2 Gas F

Model	Volume [lt]	De	H	A	H2	H3	H4	H5	H7	H8	H9	H11	H12
500	478	750	1620	1784	247	215	533	629	841	930	1011	1231	1343
600	560	750	1870	2015	247	215	582	695	915	1060	1144	1382	1593
800	805	950	1840	2071	265	233	584	690	823	988	1115	1332	1541
1000	946	950	2130	2332	265	233	656	787	998	1188	1309	1588	1831
1500	1435	1100	2250	2504	313	281	736	845	1061	1286	1377	1653	1909
2000	1973	1300	2320	2659	347	315	770	879	1060	1300	1411	1687	1943

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