

#### 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 painted on the outside. Buffer intented for closed circuit installation, so no anti-corrosion treatment is provided.

#### **HEAT EXCHANGER**

N° 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 heated water up by the lower fixed exchanger. This combination ensures a perfect natural stratification inside the tank with no valve or additional external device.

The lower fixed exchanger can be connected 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. Dismountable hard foam insulation available for 800-1000. Grey PVC external lining.

#### WARRANTY

5 years - See general sales conditions and warranty **ACCESSORIES AND SPARE PARTS** 

See Accessories section for the entire list.





#### **ENERGY** HEAT EXCHANGER **PUFFER 1 CTS® VB HARD FOAM** insulation Model $[m^2]$ Art. Nr 500 3251162313002 1.9 600 3251162313003 2,1 C 800 3251162313014 2,5 В 1000 3251162313015 3,1 C 1500 3251162313006 3,8 C 2000 3251162313007 4,6 В

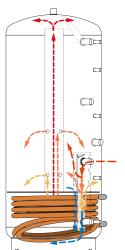


#### **PUFFER 1 CTS® VB**

HEAT EXCHANGER EFFICIENCY

CLASS

Model	DISMOUNTABLE HARD FOAM insulation	[m²]	(ErP
	Art. Nr.		
800	3251162313004	2,5	В
1000	3251162313005	3,1	С



## SUITABLE FOR SOLAR THERMAL SYSTEMS

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

### **ACCESSORIES**

#### **Electric immersion heaters**

		Available kit:				
[Kw]		Tensione [V]				
from <b>1,5</b> to <b>3</b>		220 - MONOPHASE				
from 4 to 9		400 - THREEPHASE				
	See accessories					

### Thermometer

Art. Nr.
5032240000107
5 units box



#### Buffer tanks connecting kit

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



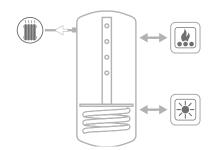


## PUFFER 1 CTS®

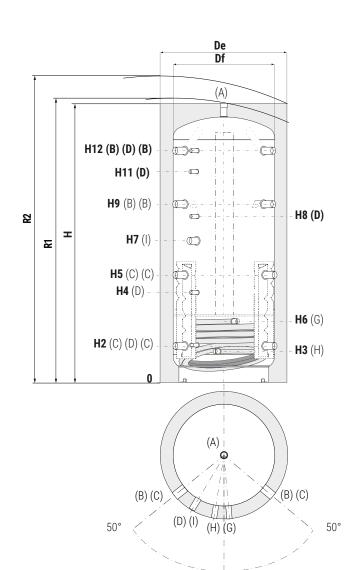
# Storage buffer tanks for heating water with stratification device and 1 fixed heat exchanger

STOF	RAGE	HEAT EXCHANGER					
Pmax	Tmax	Pmax	Tmax				
3 har	99 °C	12 har	110 °C				





See TECHNICAL SUPPORT chapter for example of installation



A	Heating delivery/From generator / vent 1"1/2 G F						
В	Heating delivery/From generator 1"1/2 G F						
C	Heating return/to generator 1"1/2 G F						
D	1/2 "G probe F						
G	Fixed heat exchanger inlet 1" G F						
Н	Fixed heat exchanger outlet 1" G F						
I	Connection for for electric immersion heater 1"1/2 F						

Model	Volume				
	[It]				
500	478				
600	560				
800	805				
1000	946				
1500	1435				
2000	1973				

De	Df	Н	R1	R2	H2	НЗ	H4	H5	H7	Н8	Н9	H11	H12
[mm]													
750	//	1620	//	1790	247	215	533	629	841	930	1011	1231	1343
750	//	1870	//	2020	247	215	582	695	915	1060	1144	1382	1593
950	790	1840	1890	2075	265	233	584	690	823	988	1115	1332	1541
950	790	2130	2175	2340	265	233	656	787	998	1188	1309	1588	1831
1100	//	2250	//	2510	313	281	736	845	1061	1286	1377	1653	1909
1300	//	2320	//	2665	347	315	770	879	1060	1300	1411	1687	1943

