

# PUFFER 2 CTS®

STORAGE BUFFER TANKS FOR HEATING WATER WITH STRATIFICATION DEVICE  
AND 2 FIXED HEAT EXCHANGERS



## 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

2 mild steel fixed heat exchangers with CTS® stratificator system.

## TECHNICAL DESCRIPTION

Used to improve flexibility of pellets, stoves and burners. PUFFER 2 CTS® are used in units with a typically discontinuous energy source such as biomass boiler and solar thermal systems.

The PUFFER 2 CTS® is characterized by multiple stratification system based on the combination of Cordivari Labyrinth spreader for returning heating water with a brand new stratification device that convey 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

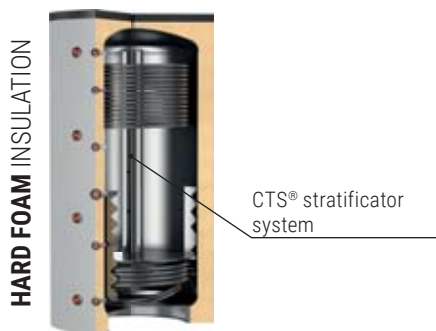
High thermal insulation with ecological hard polyurethane foam. Grey PVC external lining

## WARRANTY

5 years - See general sales conditions and warranty

## ACCESSORIES AND SPARE PARTS


See Accessories section for the entire list.

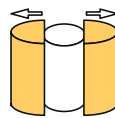


## PUFFER 2 CTS® VB


HEAT EXCHANGER SURFACE

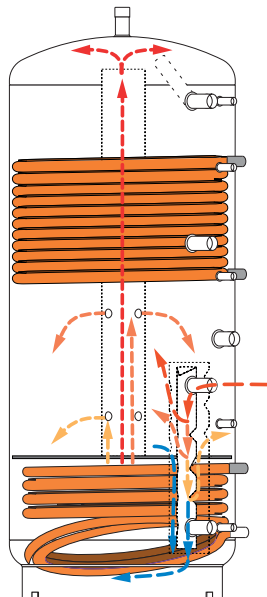
ENERGY  
EFFICIENCY  
CLASS

| Model       | HARD FOAM<br>insulation | Upper | Lower |  |
|-------------|-------------------------|-------|-------|-------------------------------------------------------------------------------------|
|             | Art. Nr.                | [m²]  |       |                                                                                     |
| <b>500</b>  | 3251162313702           | 1,3   | 1,9   | <b>C</b>                                                                            |
| <b>600</b>  | 3251162313703           | 1,3   | 2,1   | <b>C</b>                                                                            |
| <b>800</b>  | 3251162313714           | 1,8   | 2,5   | <b>C</b>                                                                            |
| <b>1000</b> | 3251162313715           | 2,5   | 3,1   | <b>C</b>                                                                            |
| <b>1500</b> | 3251162313706           | 2,8   | 3,8   | <b>C</b>                                                                            |
| <b>2000</b> | 3251162313707           | 2,8   | 4,6   | <b>C</b>                                                                            |



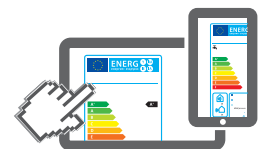
## DISMOUNTABLE HARD FOAM

| Model       | insulation    | Upper | Lower |  |
|-------------|---------------|-------|-------|---------------------------------------------------------------------------------------|
|             | Art. Nr.      | [m²]  |       |                                                                                       |
| <b>800</b>  | 3251162313704 | 1,8   | 2,5   | <b>C</b>                                                                              |
| <b>1000</b> | 3251162313705 | 2,5   | 3,1   | <b>C</b>                                                                              |



## 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](http://www.cordivari.com/erp)

On line ErP label tool

## Accessories on request

### Monophase and threephase electrical immersion

|                          |                 |
|--------------------------|-----------------|
|                          |                 |
| Available kit:           |                 |
| [Kw]                     | Tension [V]     |
| da <b>1,5</b> a <b>3</b> | 220 - MONOPHASE |
| da <b>4</b> a <b>9</b>   | 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) |            |

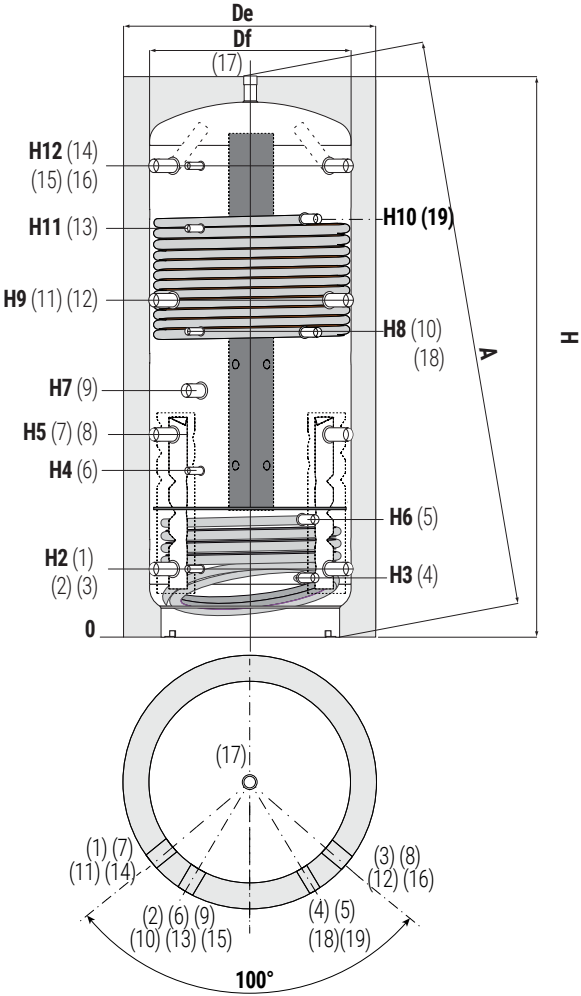
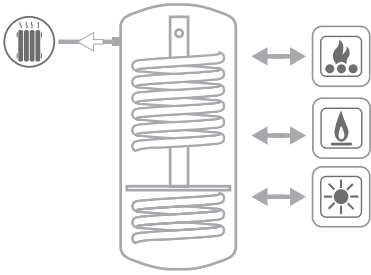


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STORAGE BUFFER TANKS FOR HEATING WATER WITH STRATIFICATION DEVICE  
AND 2 FIXED HEAT EXCHANGERS

| 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.



|                    |                                              |
|--------------------|----------------------------------------------|
| <b>1-3-7-8</b>     | Heating return/To Generator1"1/2 Gas F       |
| <b>2</b>           | Connection for instrumentation 1/2" Gas F    |
| <b>4</b>           | Fixed heat exchanger outlet 1" Gas F         |
| <b>5</b>           | Fixed heat exchanger inlet 1" Gas F          |
| <b>6</b>           | Connection for instrumentation 1/2" Gas F    |
| <b>9</b>           | Electrical immersion 1"1/2 Gas F             |
| <b>10</b>          | Connection for instrumentation 1/2" Gas F    |
| <b>11-12-14-16</b> | Heating delivery/ Heating return 1"1/2 Gas F |
| <b>13</b>          | Connection for instrumentation 1/2" Gas F    |
| <b>15</b>          | Connection for instrumentation 1/2" Gas F    |
| <b>17</b>          | Heating delivery / Air purge 1" 1/2 Gas F    |
| <b>18</b>          | Upper fixed heat exchanger outlet 1" Gas F   |
| <b>19</b>          | Upper fixed heat exchanger inlet 1" Gas F    |

| Model       | Volume | De   | H    | A    | H2  | H3  | H4  | H5  | H7   | H8   | H9   | H10  | H11  | H12  |
|-------------|--------|------|------|------|-----|-----|-----|-----|------|------|------|------|------|------|
|             | [lt]   |      |      |      |     |     |     |     |      |      |      |      |      |      |
| <b>500</b>  | 478    | 750  | 1620 | 1784 | 247 | 215 | 533 | 629 | 841  | 930  | 1011 | 1231 | 1231 | 1343 |
| <b>600</b>  | 560    | 750  | 1870 | 2015 | 247 | 215 | 582 | 695 | 915  | 1060 | 1144 | 1361 | 1382 | 1593 |
| <b>800</b>  | 805    | 950  | 1840 | 2071 | 265 | 233 | 584 | 690 | 823  | 988  | 1115 | 1332 | 1332 | 1541 |
| <b>1000</b> | 946    | 950  | 2130 | 2332 | 265 | 233 | 656 | 787 | 998  | 1188 | 1309 | 1661 | 1588 | 1831 |
| <b>1500</b> | 1435   | 1100 | 2250 | 2504 | 313 | 281 | 736 | 845 | 1061 | 1286 | 1377 | 1673 | 1653 | 1909 |
| <b>2000</b> | 1973   | 1300 | 2320 | 2659 | 347 | 315 | 770 | 879 | 1060 | 1300 | 1411 | 1687 | 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