

PUFFER

Water storage tanks

The Puffer tanks are inertial tanks for heating installations which store non-domestic hot water. They are used in all devices powered by discontinuous power sources (e.g. solar panels, wood burners, boiler stoves, etc.) or wherever the volume of water stored in the device must be increased (e.g. devices with heat pumps, combined heat and power units, biomass burners, etc.). Several versions are available, to be used with one or more energy sources:

PFA Regular storage tank

PFB Storage tank fitted with smooth tube heat exchanger to add an additional power source (e.g. solar).

PFC Storage tank fitted with two smooth tube heat exchangers to add two additional power sources (e.g. solar and boiler stove).

✓ Materials

All storage tanks are made of carbon steel sheets, externally varnished

✓ Insulation

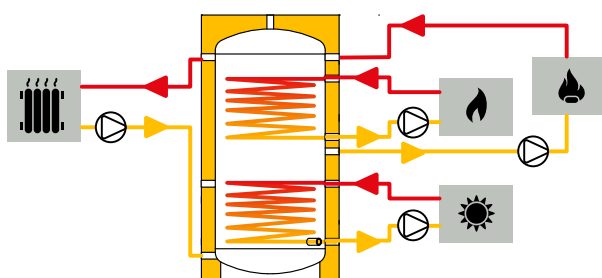
Up to 500l: Rigid foam with a thickness of 50mm (cannot be removed).
Larger tanks: flexible polyurethane with a thickness of 100mm (can be removed). Covered with coloured PVC.

✓ Available accessories

The following accessories can be supplied on demand: thermometer, thermostat, current impressed electronic anode, electrical resistor.

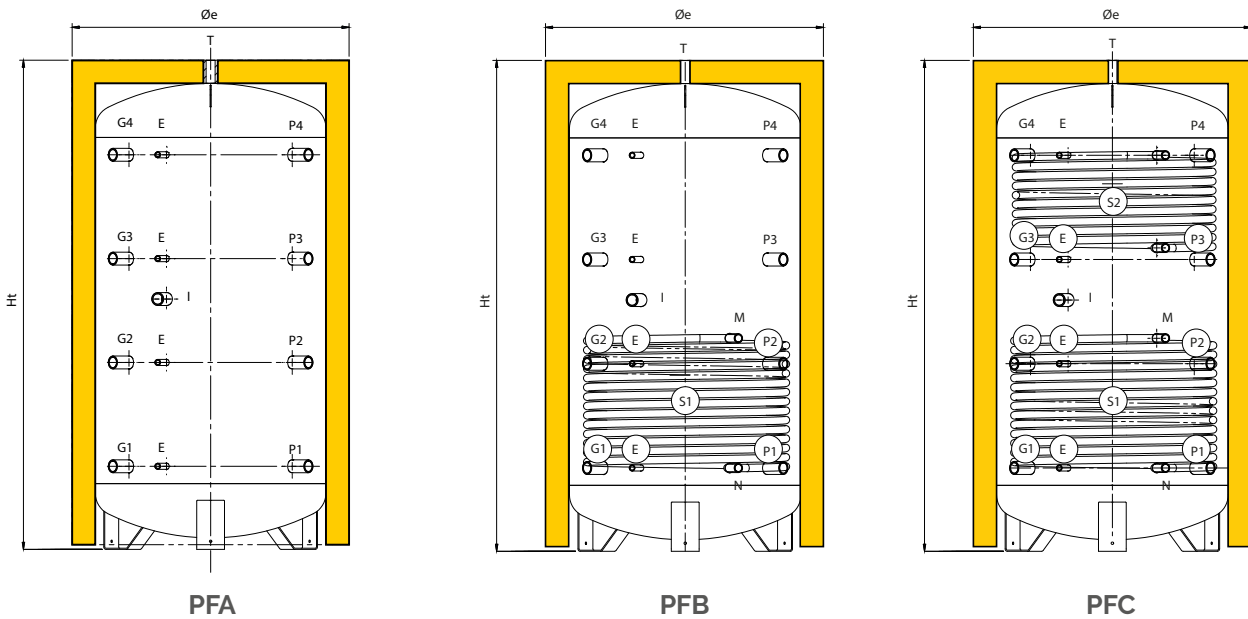
✓ Special versions

The Puffer tanks can be adapted to your requirements with customized dimensions, flanged couplings, customized couplings, thicker insulation, very thick aluminium coating, etc.



| Model | Storage tank | | S1 Coil Circuit | | S2 Coil Circuit | |
|-------|------------------|---------------|------------------|---------------|------------------|---------------|
| | max. temperature | max. pressure | max. temperature | max. pressure | max. temperature | max. pressure |
| PFA | 95°C | 5 bar | - | - | - | - |
| PFB | 95°C | 5 bar | 99°C | 9 bar | - | - |
| PFC | 95°C | 5 bar | 99°C | 9 bar | 99°C | 9 bar |

PUFFER Dimensions



Coupling chart

| capacity l | G inch | P inch | E inch | I inch | T mm | M-N inch | O-P inch |
|---------------|-----------|-----------|-----------|-----------|---------|-------------|-------------|
| 300 | 1 1/4 | 1 1/4 | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 500 | 1 1/4 | 1 1/4 | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 800 | 1 1/2 | 1 1/2 | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 1000 | 1 1/2 | 1 1/2 | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 1500 | 1 1/2 | 1 1/2 | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 2000 | 1 1/2 | 1 1/2 | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 2500 | 2" | 2" | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 3000 | 2" | 2" | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 4000 | 2" | 2" | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 5000 | 2" | 2" | 1/2" | 1 1/2 | 1" | 1" | 1" |
| 6000 | 3" | 3" | 1/2" | 1 1/2 | 2" | - | - |
| 8000 | 3" | 3" | 1/2" | 1 1/2 | 2" | - | - |
| 10000 | 3" | 3" | 1/2" | 1 1/2 | 2" | - | - |

Legend couplings

| | |
|-----------|---------------------------------|
| G1 | heating return |
| G2 | auxiliary - free |
| G3 | low temperature heating supply |
| G4 | high temperature heating supply |
| M | inlet inferior fixed exchanger |
| N | outlet inferior fixed exchanger |
| O | inlet superior fixed exchanger |
| P | outlet superior fixed exchanger |
| P1 | auxiliary - free |
| P2 | return energy source |
| P3 | auxiliary - free |
| P4 | supply energy source |
| E | temperature probe |
| I | electric resistor |

Height chart

| capacity l | Øe mm | Ht mm | R' mm | G1-P1 mm | G2-P2 mm | G3-P3 mm | G4-P4 mm | I mm | M mm | N mm | O mm | P mm | Exchanger surface area | |
|---------------|----------|----------|----------|-------------|-------------|-------------|-------------|---------|---------|---------|---------|---------|---------------------------|----------|
| | | | | | | | | | | | | | S1 m² | S2 m² |
| 300 | 610 | 1680 | 1788 | 325 | 695 | 1065 | 1435 | 880 | 695 | 325 | 1435 | 1075 | 1 | 1 |
| 500 | 710 | 1715 | 1857 | 345 | 715 | 1085 | 1455 | 975 | 715 | 345 | 1455 | 1135 | 1,9 | 1,2 |
| 800 | 990 | 1740 | 2002 | 290 | 660 | 1030 | 1400 | 845 | 770 | 290 | 1400 | 1130 | 2,5 | 1,5 |
| 1000 | 990 | 2100 | 2322 | 290 | 780 | 1270 | 1760 | 1020 | 890 | 290 | 1760 | 1280 | 3,1 | 2,5 |
| 1500 | 1200 | 2120 | 2437 | 360 | 810 | 1260 | 1710 | 1085 | 920 | 360 | 1710 | 1310 | 3,8 | 2,8 |
| 2000 | 1300 | 2450 | 2774 | 390 | 930 | 1470 | 2010 | 1200 | 990 | 390 | 2010 | 1650 | 4,6 | 2,8 |
| 2500 | 1450 | 2220 | 2652 | 425 | 865 | 1305 | 1745 | 1145 | 985 | 425 | 1745 | 1305 | 5 | 4 |
| 3000 | 1450 | 2720 | 3083 | 435 | 1035 | 1635 | 2235 | 1435 | 1115 | 435 | 2235 | 1755 | 6 | 4,2 |
| 4000 | 1600 | 2810 | 3234 | 480 | 1080 | 1680 | 2280 | 1430 | 1160 | 480 | 2280 | 1800 | 7 | 5 |
| 5000 | 1800 | 2870 | 3388 | 510 | 1110 | 1710 | 2310 | 1510 | 1190 | 510 | 2310 | 1910 | 8 | 5 |
| 6000 | 2000 | 2790 | 3433 | 635 | 1155 | 1675 | 2195 | 1415 | - | - | - | - | - | - |
| 8000 | 2000 | 3490 | 4023 | 625 | 1385 | 2145 | 2905 | 1615 | - | - | - | - | - | - |
| 10000 | 2000 | 4240 | 4689 | 625 | 1635 | 2645 | 3655 | 2365 | - | - | - | - | - | - |

R': reversal quota

PUFFER

Product code

PFA series

| capacity l | code | price | energy label | packed | |
|---------------|------------|-------|-----------------|------------------|--------------|
| | | | | dimensions cm | weight kg |
| 300 | 817010119X | | D | 64x64x180 | 55 |
| 500 | 817010120X | | D | 74x74x183,5 | 77 |
| 800 | 817010046 | | | 102x102x186 | 109 |
| 1000 | 817010002 | | | 102x102x222 | 125 |
| 1500 | 817010003 | | | 123x123x224 | 194 |
| 2000 | 817010004 | | | 132x132x257 | 263 |
| 2500 | 817010101X | | | 147x147x234 | 296 |
| 3000 | 817010102X | | | 147x147x284 | 346 |
| 4000 | 817010103X | | | 163x163x293 | 492 |
| 5000 | 817010104X | | | 183x183x299 | 582 |
| 6000 | 817010129X | | | 282x203x217,5 | 684 |
| 8000 | 817010130X | | | 352x203x217,5 | 823 |
| 10000 | 817010131X | | | 427x203x217,5 | 973 |

PFB series

| capacity l | code | price | energy label | packed | |
|---------------|------------|-------|-----------------|------------------|--------------|
| | | | | dimensions cm | weight kg |
| 300 | 819010129X | | D | 64x64x180 | 65 |
| 500 | 819010130X | | D | 74x74x183,5 | 98 |
| 800 | 819010053 | | | 102x102x186 | 137 |
| 1000 | 819010003 | | | 102x102x222 | 153 |
| 1500 | 819010004 | | | 123x123x224 | 237 |
| 2000 | 819010005 | | | 132x132x257 | 315 |
| 2500 | 819010135X | | | 147x147x234 | 352 |
| 3000 | 819010136X | | | 147x147x284 | 413 |
| 4000 | 819010137X | | | 163x163x293 | 571 |
| 5000 | 819010138X | | | 183x183x299 | 672 |

PFC series

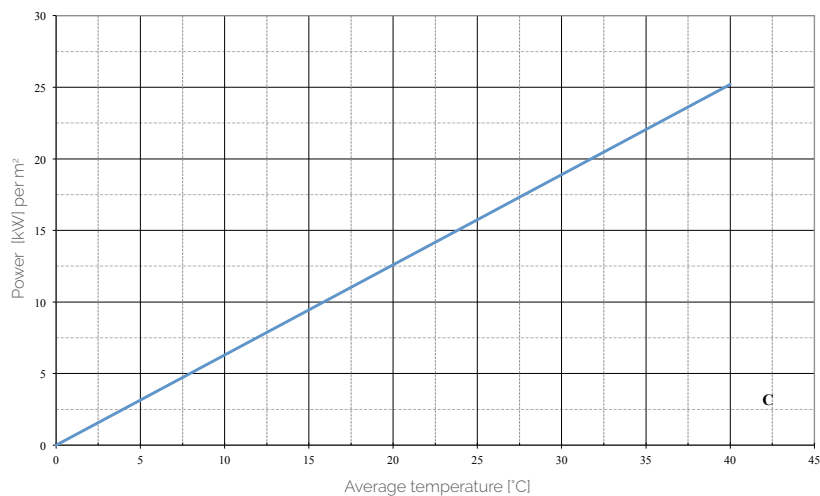
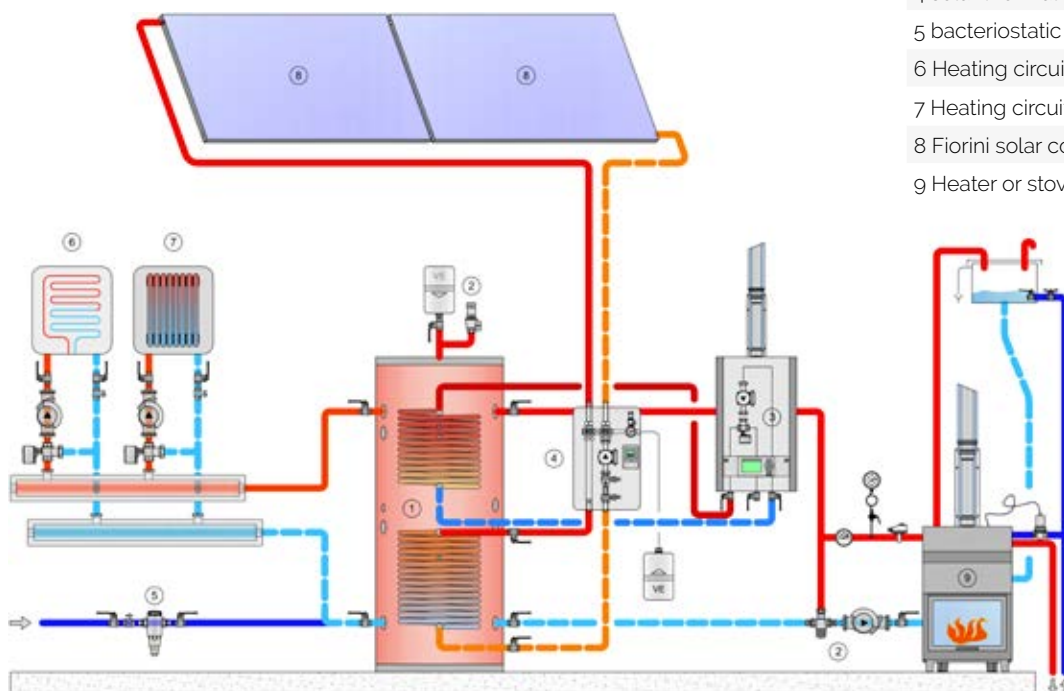
| capacity l | code | price | energy label | packed | |
|---------------|------------|-------|-----------------|------------------|--------------|
| | | | | dimensions cm | weight kg |
| 300 | 819010149X | | D | 64x64x180 | 77 |
| 500 | 819010150X | | D | 74x74x183,5 | 111 |
| 800 | 819010056 | | | 102x102x186 | 154 |
| 1000 | 819010006 | | | 102x102x222 | 181 |
| 1500 | 819010007 | | | 123x123x224 | 268 |
| 2000 | 819010008 | | | 132x132x257 | 346 |
| 2500 | 819010155X | | | 147x147x234 | 383 |
| 3000 | 819010156X | | | 147x147x284 | 460 |
| 4000 | 819010157X | | | 163x163x293 | 628 |
| 5000 | 819010158X | | | 183x183x299 | 730 |

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Installation chart

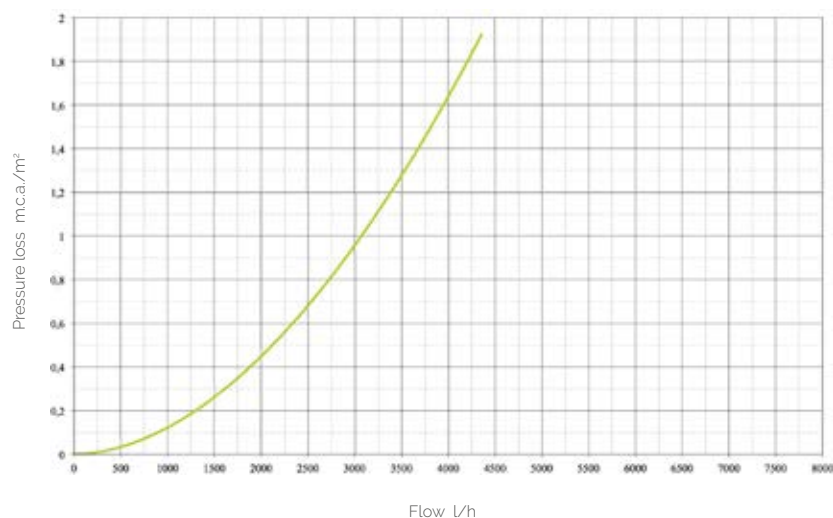
List of components

- 1 PFC Fiorini Puffer
- 2 Safety unit
- 3 Heating by alternative source
- 4 solar thermal return unit
- 5 bacteriostatic cold water filter
- 6 Heating circuit 1
- 7 Heating circuit 2
- 8 Fiorini solar collectors
- 9 Heater or stove with open vessel



Fixed coil power

The chart indicates the maximum instantaneous DHW production (10-45°C) through the stainless steel coil in function of the storage temperature in the tank



Pressure loss in the fixed coil

The pressure loss indicated in the chart refers to a surface area of 1 m² of the coil. Multiply this value with the exchange surface in order to come to the total pressure loss.