

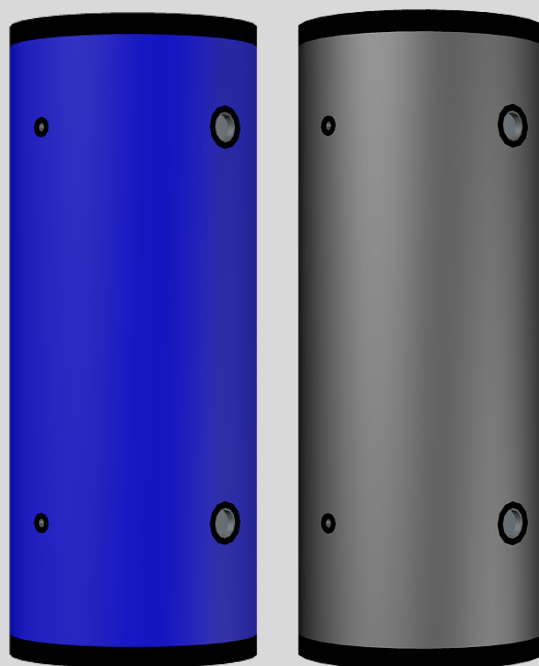
dal 1968



SCAMBIATORI - BOLLITORI - SERBATOI



# VT-X



STAINLESS STEEL 316L CHILLED WATER BUFFER TANK

Chilled water storage tank designed to increase the thermal inertia in air conditioning systems..

The anti-condensation insulation made of closed cell elastomer foam, ensure minimum cold dissipation and allows reduced temperature variations of the stored water. This will result in a reduced number of chiller start-up and consequent saving of operating costs.

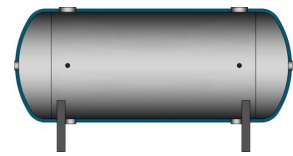
This series are manufactured in Stainless Steel AISI 316L for the most demanding applications.

The outer cladding can be both in PVC for indoor installation or aluminium for indoor & outdoor installation.

## CONSTRUCTION



VT-XE



VT-OX

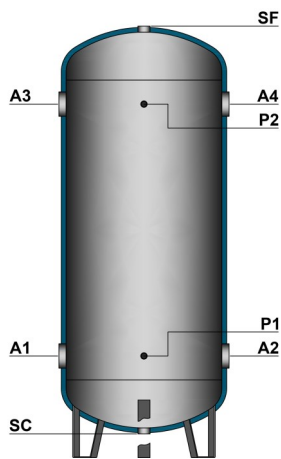
|                            |                                                                                           |                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| TANK MATERIAL              | Stainless Steel AISI 316L                                                                 | Stainless Steel AISI 316L                                                                 |
| INTERNAL SURFACE TREATMENT | —                                                                                         | —                                                                                         |
| EXTERNAL SURFACE TREATMENT | Post-weld pickling                                                                        | Post-weld pickling                                                                        |
| CAPACITY                   | 100 ÷ 5000 L                                                                              | 100 ÷ 5000 L                                                                              |
| VERSION                    | Vertical                                                                                  | Horizontal                                                                                |
| CONNECTIONS TYPE           | Threaded                                                                                  | Threaded                                                                                  |
| INSULATION   100 ÷ 5000 L  | Closed cell <b>elastomer foam</b><br>20 mm                                                | Closed cell <b>elastomer foam</b><br>20 mm                                                |
| CLADDING                   | <ul style="list-style-type: none"> <li>• PVC Blue RAL5015</li> <li>• Aluminium</li> </ul> | <ul style="list-style-type: none"> <li>• PVC Blue RAL5015</li> <li>• Aluminium</li> </ul> |

## WORKING CONDITIONS

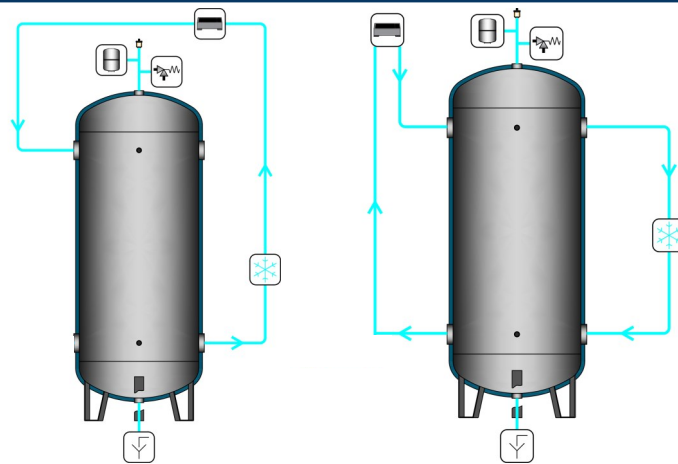
|                          | Capacity - Litre | 100      | 200      | 300      | 500      | 800      | 1000     | 1500     | 2000     | 2500     | 3000     | 4000     | 5000     |
|--------------------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Tank working pressure    | bar              | ATM ÷ 10 | ATM ÷ 10 | ATM ÷ 10 | ATM ÷ 8  | ATM ÷ 8  | ATM ÷ 8  | ATM ÷ 8  | ATM ÷ 8  | ATM ÷ 8  | ATM ÷ 6  | ATM ÷ 6  | ATM ÷ 6  |
| Tank working temperature | °C               | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 | -10 ÷ 65 |

## REGULATORY COMPLIANCE

European Pressure Equipment Directive (PED) 2014/68/UE - Art. 4.3 | Sound Engineering Practice - excluded from CE marking

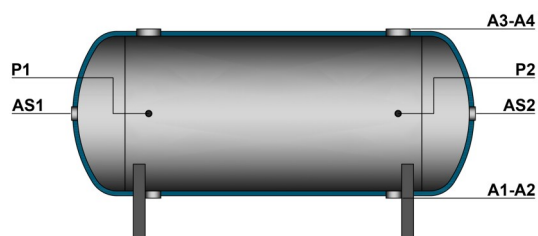


INSTALLATION ASSUMPTION

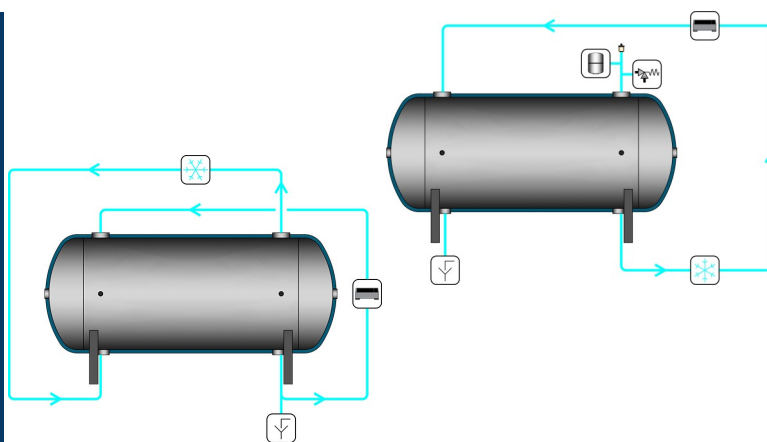


## GENERAL CHARACTERISTICS VT-XE - VERTICAL VERSION

|                      | Capacity | 100      | 200      | 300      | 500      | 800      | 1000     | 1500     | 2000     | 2500     | 3000     | 4000     | 5000     |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>DIMENSIONS</b>    |          |          |          |          |          |          |          |          |          |          |          |          |          |
| Ø w/o insulation     | mm       | 400      | 450      | 550      | 650      | 800      | 800      | 1000     | 1200     | 1200     | 1250     | 1400     | 1600     |
| Ø w/insulation       | mm       | 440      | 490      | 590      | 690      | 840      | 840      | 1040     | 1240     | 1240     | 1290     | 1440     | 1640     |
| Overall height       | mm       | 1057     | 1468     | 1508     | 1799     | 1875     | 2125     | 2169     | 2239     | 2565     | 2750     | 2845     | 2915     |
| Overturning height   | mm       | 1068     | 1477     | 1519     | 1811     | 1893     | 2141     | 2200     | 2289     | 2600     | 2777     | 2893     | 3004     |
| <b>CONNECTIONS</b>   |          |          |          |          |          |          |          |          |          |          |          |          |          |
| A1-A2 Inlet/Outlet   | mm Ø     | 377 1"¼  | 393 2"   | 408 2"½  | 424 3"   | 460 3"   | 460 3"   | 500 3"   | 524 3"   | 550 3"   | 565 4"   | 600 4"   | 660 4"   |
| A3-A4 Inlet/Outlet   | mm Ø     | 802 1"¼  | 1193 2"  | 1208 2"½ | 1474 3"  | 1510 3"  | 1760 3"  | 1800 3"  | 1824 3"  | 2150 3"  | 2325 4"  | 2360 4"  | 2420 4"  |
| P1 Sensor            | mm Ø     | 377 ½"   | 393 ½"   | 408 ½"   | 424 ½"   | 460 ½"   | 460 ½"   | 500 ½"   | 524 ½"   | 550 ½"   | 565 ½"   | 600 ½"   | 660 ½"   |
| P2 Sensor            | mm Ø     | 802 ½"   | 1193 ½"  | 1208 ½"  | 1474 ½"  | 1510 ½"  | 1760 ½"  | 1800 ½"  | 1824 ½"  | 2150 ½"  | 2325 ½"  | 2360 ½"  | 2420 ½"  |
| SF Air vent          | mm Ø     | 1057 1"¼ | 1468 1"¼ | 1508 1"¼ | 1799 1"¼ | 1875 1"¼ | 2125 1"¼ | 2169 1"¼ | 2239 1"¼ | 2565 1"¼ | 2765 1"¼ | 2825 1"¼ | 2935 1"¼ |
| SC Drain             | mm Ø     | 122 1"¼  | 118 1"¼  | 108 1"¼  | 99 1"¼   | 95 1"¼   | 95 1"¼   | 130 1"¼  | 109 1"¼  | 135 1"¼  | 125 2"   | 115 2"   | 145 2"   |
| <b>EMPTY WEIGHTS</b> |          |          |          |          |          |          |          |          |          |          |          |          |          |
| Empty weight         | kg       | 45       | 55       | 60       | 85       | 125      | 135      | 215      | 260      | 285      | 340      | 380      | 535      |



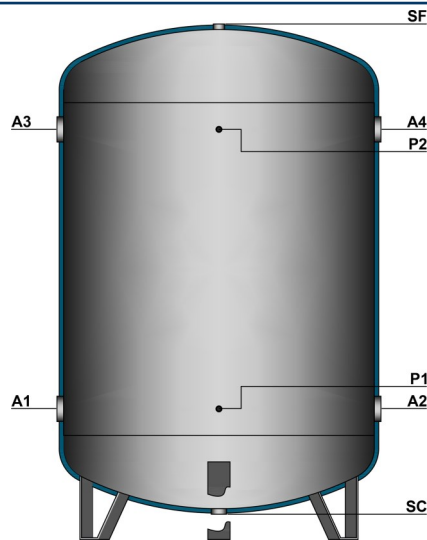
INSTALLATION ASSUMPTION



## GENERAL CHARACTERISTICS VT-OX - HORIZONTAL VERSION

|                      | Capacity | 100     | 200     | 300     | 500     | 800     | 1000    | 1500    | 2000    | 2500    | 3000    | 4000    | 5000     |
|----------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| <b>DIMENSIONS</b>    |          |         |         |         |         |         |         |         |         |         |         |         |          |
| Ø w/o insulation     | mm       | 400     | 450     | 550     | 650     | 800     | 800     | 1000    | 1200    | 1200    | 1250    | 1400    | 1600     |
| Ø w/insulation       | mm       | 440     | 490     | 590     | 690     | 840     | 840     | 1040    | 1240    | 1240    | 1290    | 1440    | 1640     |
| Overall height       | mm       | 576     | 624     | 781     | 880     | 1021    | 1021    | 1231    | 1419    | 1419    | 1521    | 1661    | 1852     |
| Overturning height   | mm       | 935     | 1350    | 1400    | 1700    | 1780    | 2030    | 2040    | 2128    | 2431    | 2621    | 2710    | 2770     |
| <b>CONNECTIONS</b>   |          |         |         |         |         |         |         |         |         |         |         |         |          |
| A1-A2 Inlet/Outlet   | mm Ø     | 126 1"¼ | 124 2"  | 181 2"½ | 170 3"  | 161 3"  | 161 3"  | 171 3"  | 159 3"  | 159 3"  | 211 4"  | 201 4"  | 192 4"   |
| A3-A4 Inlet/Outlet   | mm Ø     | 576 1"¼ | 624 2"  | 781 2"½ | 880 3"  | 1021 3" | 1021 3" | 1231 3" | 1419 3" | 1419 3" | 1521 4" | 1661 4" | 1852 4"  |
| P1-P2 Sensor         | mm Ø     | 351 ½"  | 374 ½"  | 481 ½"  | 525 ½"  | 591 ½"  | 591 ½"  | 701 ½"  | 789 ½"  | 789 ½"  | 866 ½"  | 931 ½"  | 1022 ½"  |
| AS1-AS2 Spare        | mm Ø     | 351 1"¼ | 374 1"¼ | 481 1"¼ | 525 1"¼ | 591 1"¼ | 591 1"¼ | 701 1"¼ | 789 1"¼ | 789 1"¼ | 866 1"¼ | 931 1"¼ | 1022 1"¼ |
| <b>EMPTY WEIGHTS</b> |          |         |         |         |         |         |         |         |         |         |         |         |          |
| Empty weight         | kg       | 45      | 55      | 60      | 85      | 125     | 135     | 215     | 260     | 285     | 340     | 380     | 535      |

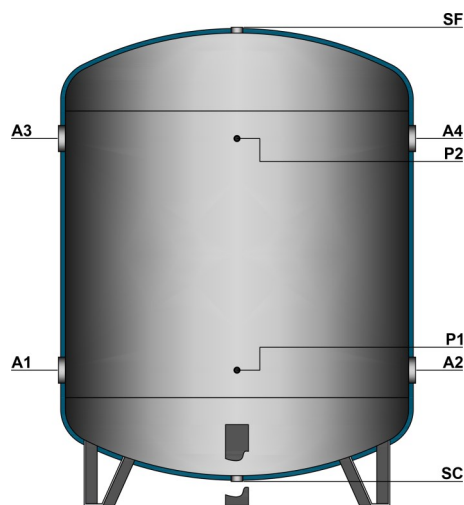
Note: All the measurements of the connections are considered "from the ground" - The threads are female GAS type (unless otherwise specified).  
The products higher than 2200mm will be packaged horizontally. In this case, should the cladding be Aluminium type, it will come disassembled to avoid transportation damages.  
The proposed diagrams are for illustration purposes only.

**GENERAL CHARACTERISTICS VT-XR - VERTICAL-LOW VERSION**

|                             | Capacity | 1500       | 2000       | 2500       | 3000       | 4000       | 5000       |
|-----------------------------|----------|------------|------------|------------|------------|------------|------------|
| <b>DIMENSIONS</b>           |          |            |            |            |            |            |            |
| Diameter without insulation | mm       | 1100       | 1250       | 1400       | 1400       | 1600       | 1800       |
| Diameter with insulation    | mm       | 1140       | 1290       | 1440       | 1440       | 1640       | 1840       |
| Overall height              | mm       | 1920       | 1977       | 2074       | 2324       | 2415       | 2457       |
| Overturning height          | mm       | 1973       | 2051       | 2176       | 2399       | 2527       | 2607       |
| <b>CONNECTIONS</b>          |          |            |            |            |            |            |            |
| A1-A2 Inlet/Outlet          | mm   Ø   | 495   3"   | 512   3"   | 569   3"   | 589   4"   | 650   4"   | 661   4"   |
| A3-A4 Inlet/Outlet          | mm   Ø   | 1545   3"  | 1562   3"  | 1619   3"  | 1849   4"  | 1910   4"  | 1921   4"  |
| P1 Sensor                   | mm   Ø   | 495   ½"   | 512   ½"   | 569   ½"   | 589   ½"   | 650   ½"   | 661   ½"   |
| P2 Sensor                   | mm   Ø   | 1545   ½"  | 1562   ½"  | 1619   ½"  | 1849   ½"  | 1910   ½"  | 1921   ½"  |
| SF Air vent                 | mm   Ø   | 1920   1"¼ | 1977   1"¼ | 2074   1"¼ | 2324   1"¼ | 2415   1"¼ | 2457   1"¼ |
| SC Drain                    | mm   Ø   | 123   1"¼  | 102   1"¼  | 114   1"¼  | 114   2"   | 145   2"   | 125   2"   |

**EMPTY WEIGHTS**

|              |    |     |     |     |     |     |     |
|--------------|----|-----|-----|-----|-----|-----|-----|
| Empty weight | kg | 215 | 250 | 365 | 405 | 475 | 635 |
|--------------|----|-----|-----|-----|-----|-----|-----|

**GENERAL CHARACTERISTICS VT-XX - VERTICAL EXTRA-LOW VERSION**

|                             | Capacity | 3000       | 4000       | 5000       |
|-----------------------------|----------|------------|------------|------------|
| <b>DIMENSIONS</b>           |          |            |            |            |
| Diameter without insulation | mm       | 1500       | 1700       | 2000       |
| Diameter with insulation    | mm       | 1540       | 1740       | 2040       |
| Overall height              | mm       | 2085       | 2175       | 2047       |
| Overturning height          | mm       | 2210       | 2338       | 2332       |
| <b>CONNECTIONS</b>          |          |            |            |            |
| A1-A2 Inlet/Outlet          | mm   Ø   | 590   4"   | 650   4"   | 696   4"   |
| A3-A4 Inlet/Outlet          | mm   Ø   | 1600   4"  | 1666   4"  | 1456   4"  |
| P1 Sensor                   | mm   Ø   | 590   ½"   | 650   ½"   | 696   ½"   |
| P2 Sensor                   | mm   Ø   | 1600   ½"  | 1666   ½"  | 1456   ½"  |
| SF Air vent                 | mm   Ø   | 2085   1"¼ | 2175   1"¼ | 2047   1"¼ |
| SC Drain                    | mm   Ø   | 105   2"   | 135   2"   | 105   2"   |

**EMPTY WEIGHTS**

|              |    |     |     |     |
|--------------|----|-----|-----|-----|
| Empty weight | kg | 400 | 540 | 630 |
|--------------|----|-----|-----|-----|

Note: All the measurements of the connections are considered "from the ground" - The threads are female GAS type (unless otherwise specified)  
 The products higher than 2200mm will be packaged horizontally. In this case, should the cladding be Aluminium type, it will come disassembled to avoid transportation damages.

# STAINLESS STEEL 316L CHILLED WATER STORAGE TANK

## HOW TO ORDER

V → Vertical  
O → Horizontal  
R → Vertical-LOW  
X → Vertical EXTRA-LOW

6 → 6 bar  
8 → 8 bar  
0 → 10 bar

VT - V 8 X E B / 0200

A → Aluminium cladding  
B → PVC cladding

Capacity - L

## ACCESSORIES & SPARE PARTS

### ITEM

### PART NO.

PROBE SOCKET Ø½" | L=50 mm | Ø<sub>int</sub> 10 mm

POZZETTO \_S

PROBE SOCKET Ø½" | L=150 mm | Ø<sub>int</sub> 10 mm

POZZETTO \_L



SHORT PROBE SOCKET



LONG PROBE SOCKET

## ANTI-CORROSION PROTECTION STEEL TREATMENT

### PROTECTIVE TREATMENTS FOR STAINLESS STEEL BUFFER TANKS

#### Post-weld chemical gel pickling

During welding, high temperatures disrupt the passive chromium oxide layer of stainless steel, leaving it vulnerable to rust and corrosion.

Pickling acts to remove weld scale, heat tint and the chromium-depleted layer. By dissolving this top layer of metal with strong acids, it restores the material's corrosion resistance and original aesthetic finish.

Pickling is made with gel stick on all weld seams by means of chemical gel or pickling paste.

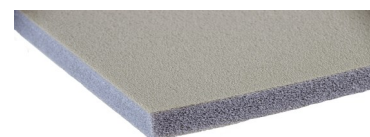
## INSULATIONS

| Insulating material        | Removable | Thickness | Density  | Thermal conductivity coefficient at 45°C | Operating temperature | Fire reaction class Euroclass EN13501-1 |
|----------------------------|-----------|-----------|----------|------------------------------------------|-----------------------|-----------------------------------------|
| Closed cell elastomer foam | X         | 20 mm     | 30 kg/m³ | λ = 0,032 W/mK                           | -10°C / +90°C         | C-s3, d0                                |

#### Closed cell elastomer foam

Insulation with high anti-condensation properties made of closed cell elastomer, CFC-free, asbestos free, odourless.

It is resistant to the diffusion of water vapour, chemical agents, mould, parasites, ozone, adverse weather conditions and UV rays.



## CLADDINGS

### PVC

External cladding made of coloured PVC with hinge closing, suitable for installations in locations protected against adverse weather conditions. The standard colours of each product are indicated in their construction characteristics, but different colours can be requested for each model as shown in the following table.

### ITEM

### PART NO.

PVC CLADDING YERLOW RAL1023

COVER-RAL1023

PVC CLADDING OREANGE RAL2004

COVER-RAL2004

PVC CLADDING RED RAL3000

COVER-RAL3000

PVC CLADDING BLUE RAL5015

COVER-RAL5015

PVC CLADDING WHITE RAL9016

COVER-RAL9016

PVC CLADDING LIGHT GREY RAL7035

COVER-RAL7035

PVC CLADDING DARK GREY RAL7024

COVER-RAL7024

PVC CLADDING BLACK RAL9004

COVER-RAL9004



### ALUMINIUM

External cladding made of embossed aluminium sheeting suitable also for outdoor installations. The insulations made with this type of cladding consist of panels joined together by means of rivets and extruded aluminium slats with an exclusive design, specifically designed to facilitate assembly even directly at the installation site.

The coverings and flange covers made of same material securely anchored to the insulation guarantee the same levels of quality in terms of duration and outside appearance and do not risk being damaged by the wind and adverse weather conditions.



[www.pacetti.it](http://www.pacetti.it)



MADE IN ITALY

**PACETTI S.r.l.**

Via G. Marconi, 240/242  
44122 - Ferrara - ITALY  
Tel. +39 0532 774066  
Fax +39 0532 773835  
[info@pacetti.it](mailto:info@pacetti.it)