

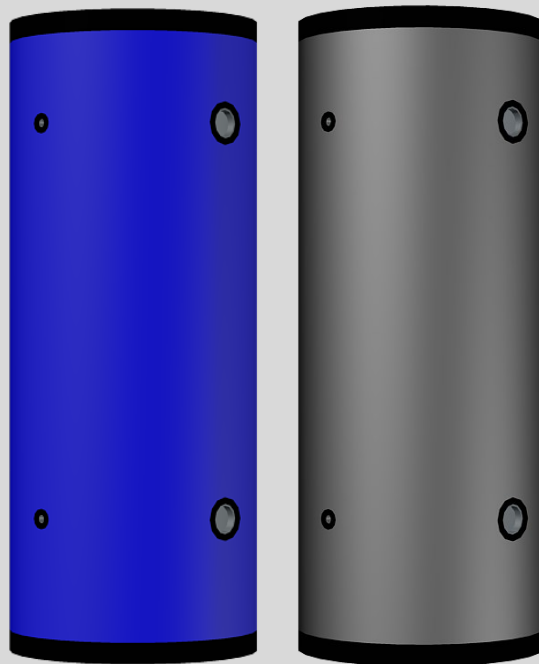
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SCAMBIATORI - BOLLITORI - SERBATOI



VTS - VTP



CHILLED WATER STORAGE TANK MADE OF CARBON STEEL
WITH BAFFLE PLATES

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

VTS is provided with a central perforated baffle plate designed to make the water flow homogeneous, thus achieving maximum thermal stability in single or double ring systems.

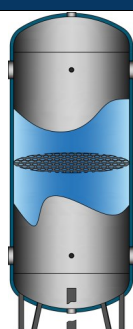
VTP is provided with 3 baffle plates placed and designed to optimise the water flow distribution, thus avoiding the formation of preferential flows and achieving constant temperature inside the tank. Mostly recommended in double ring systems.

The anti-condensation insulation made of hard foam polyurethane injected 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.

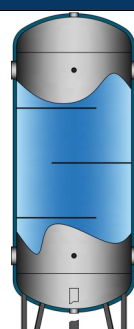
Available in raw carbon steel or galvanized steel for greater protection against corrosion.

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

CONSTRUCTION



VTS



VTP

TANK MATERIAL	Carbon steel	Carbon steel
INTERNAL SURFACE TREATMENT	—	—
EXTERNAL SURFACE TREATMENT	Anti-rust primer	Anti-rust primer
BAFFLE PLATE TYPE	Central perforated plate	Nos. 3 diffuser baffle plates
CAPACITY	300 ÷ 5000 L	300 ÷ 5000 L
VERSION	Vertical	Vertical
CONNECTIONS TYPE	Threaded	Threaded
INSULATION	Closed cell Elastomer foam 20 mm	Closed cell Elastomer foam 20 mm
CLADDING	<ul style="list-style-type: none"> • PVC Blue RAL5015 • Aluminium 	<ul style="list-style-type: none"> • PVC Blue RAL5015 • Aluminium

WORKING CONDITIONS

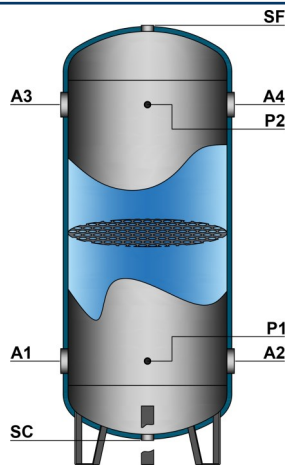
	Capacity	300	500	800	1000	1500	2000	2500	3000	4000	5000
Tank working pressure	bar	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6
Tank working temperature	°C	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65	-10 ÷ 65

REGULATORY COMPLIANCE

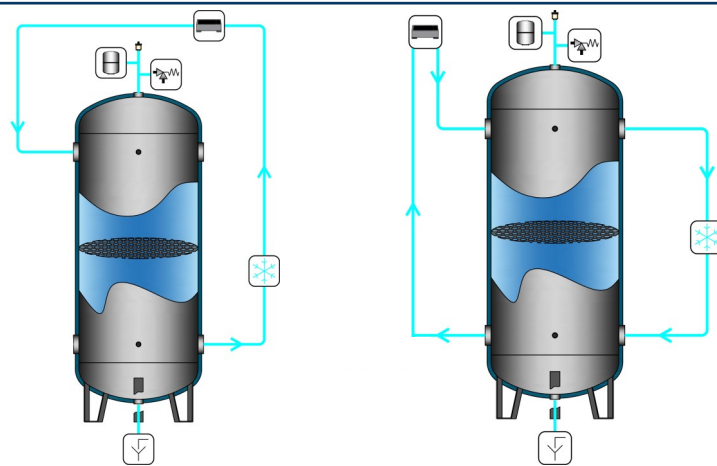
European Pressure Equipment Directive (PED) 2014/68/UE | Sound Engineering Practice - excluded from CE marking - Art. 4.3

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CHILLED WATER STORAGE TANK MADE OF CARBON STEEL, WITH BAFFLE PLATES



IPOTESI DI INSTALLAZIONE



GENERAL CHARACTERISTICS VTS - CENTRAL PERFORATED BAFFLE PLATE

Capacity	300	500	800	1000	1500	2000	2500	3000	4000	5000
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DIMENSIONS

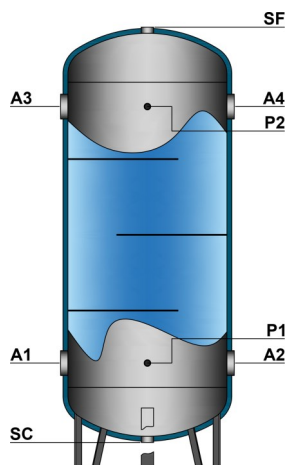
Diameter w/o insulation	mm	550	650	800	800	950	1100	1200	1250	1400	1600
Diameter w/insulation	mm	590	690	840	840	990	1140	1240	1290	1440	1640
Overall height	mm	1508	1799	1875	2125	2415	2470	2545	2750	2825	2915
Overturning height	mm	1519	1811	1893	2141	2435	2494	2571	2777	2855	2953

CONNECTIONS

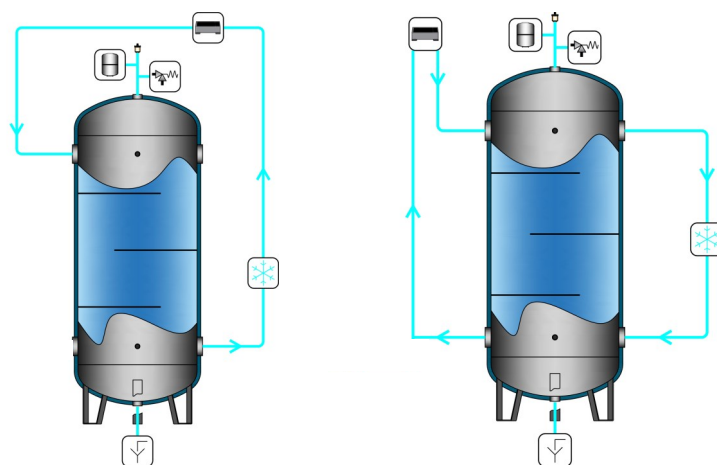
A1-A2	Inlet/Outlet	mm Ø	408 2"½	424 3"	460 3"	460 3"	475 3"	495 3"	540 3"	560 4"	590 4"	650 4"
A3-A4	Inlet/Outlet	mm Ø	1208 2"½	1474 3"	1510 3"	1760 3"	2075 3"	2095 3"	2140 3"	2320 4"	2350 4"	2410 4"
P1	Sensor	mm Ø	408 ½"	424 ½"	460 ½"	460 ½"	475 ½"	495 ½"	540 ½"	560 ½"	590 ½"	650 ½"
P2	Sensor	mm Ø	1208 ½"	1474 ½"	1510 ½"	1760 ½"	2075 ½"	2095 ½"	2140 ½"	2320 ½"	2350 ½"	2410 ½"
SF	Air vent	mm Ø	1508 1"¼	1799 1"¼	1875 1"¼	2125 1"¼	2415 1"¼	2470 1"¼	2545 1"¼	2750 1"¼	2825 1"¼	2915 1"¼
SC	Drain	mm Ø	108 1"¼	99 1"¼	95 1"¼	95 1"¼	135 1"¼	125 1"¼	138 1"¼	130 2"	115 2"	145 2"

EMPTY WEIGHT

Empty weight	kg	72	98	128	145	235	295	320	385	470	630
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IPOTESI DI INSTALLAZIONE



GENERAL CHARACTERISTICS VTP - DIFFUSER BAFFLE PLATES

Capacity	300	500	800	1000	1500	2000	2500	3000	4000	5000
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DIMENSIONS

Diameter w/o insulation	mm	550	650	800	800	950	1100	1200	1250	1400	1600
Diameter w/insulation	mm	590	690	840	840	990	1140	1240	1290	1440	1640
Overall height	mm	1508	1799	1875	2125	2415	2470	2545	2750	2825	2915
Overturning height	mm	1519	1811	1893	2141	2435	2494	2571	2777	2855	2953

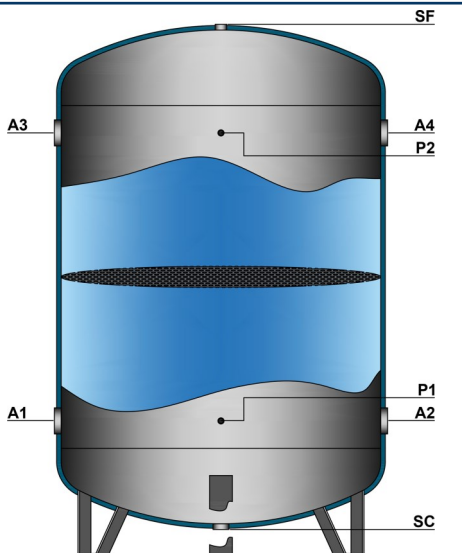
CONNECTIONS

A1-A2	Inlet/Outlet	mm Ø	408 2"½	424 3"	460 3"	460 3"	475 3"	495 3"	540 3"	560 4"	590 4"	650 4"
A3-A4	Inlet/Outlet	mm Ø	1208 2"½	1474 3"	1510 3"	1760 3"	2075 3"	2095 3"	2140 3"	2320 4"	2350 4"	2410 4"
P1	Sensor	mm Ø	408 ½"	424 ½"	460 ½"	460 ½"	475 ½"	495 ½"	540 ½"	560 ½"	590 ½"	650 ½"
P2	Sensor	mm Ø	1208 ½"	1474 ½"	1510 ½"	1760 ½"	2075 ½"	2095 ½"	2140 ½"	2320 ½"	2350 ½"	2410 ½"
SF	Air vent	mm Ø	1508 1"¼	1799 1"¼	1875 1"¼	2125 1"¼	2415 1"¼	2470 1"¼	2545 1"¼	2750 1"¼	2825 1"¼	2915 1"¼
SC	Drain	mm Ø	108 1"¼	99 1"¼	95 1"¼	95 1"¼	135 1"¼	125 1"¼	138 1"¼	130 2"	115 2"	145 2"

EMPTY WEIGHT

Empty weight	kg	80	105	140	160	260	330	375	440	540	730
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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 purely by way of example.



GENERAL CHARACTERISTICS VTS-R - VERTICAL-LOW VERSION WITH CENTRAL PERFORATED BAFFLE PLATE

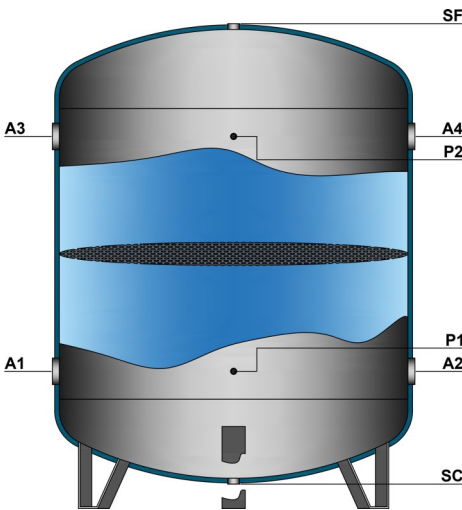
	Capacity	1500	2000	2500	3000	4000	5000
DIMENSIONS							
Diameter without insulation	mm	1100	1250	1400	1400	1600	1800
Diameter with insulation	mm	1140	1290	1440	1440	1640	1840
Overall height	mm	1920	1977	2074	2324	2415	2457
Overturning height	mm	1973	2051	2176	2399	2527	2607

CONNECTIONS

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 WEIGHT

Empty weight	kg	240	305	380	420	490	650
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GENERAL CHARACTERISTICS VTS-X - VERTICAL EXTRA-LOW VERSION WITH CENTRAL PERFORATED BAFFLE PLATE

	Capacity	3000	4000	5000
DIMENSIONS				
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

CONNECTIONS

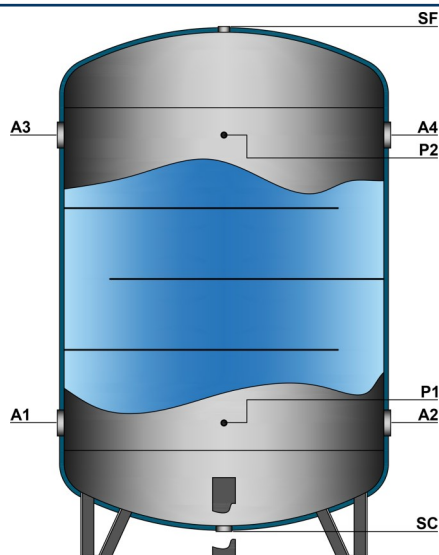
A1-A2 Inlet/Outlet	mm Ø	590 4"	650 4"	696 4"
A3-A4 Inlet/Outlet	mm Ø	1600 4"	1666 4"	1456 4"
P1 Sensor	mm Ø	590 ½"	650 ½"	696 ½"
P2 Sensor	mm Ø	1600 ½"	1666 ½"	1456 ½"
SF Air vent	mm Ø	2085 1"¼	2175 1"¼	2047 1"¼
SC Drain	mm Ø	105 2"	135 2"	105 2"

EMPTY WEIGHT

Empty weight	kg	425	560	650
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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.

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GENERAL CHARACTERISTICS VTP-R - VERTICAL-LOW VERSION WITH DIFFUSER BAFFLE PLATES

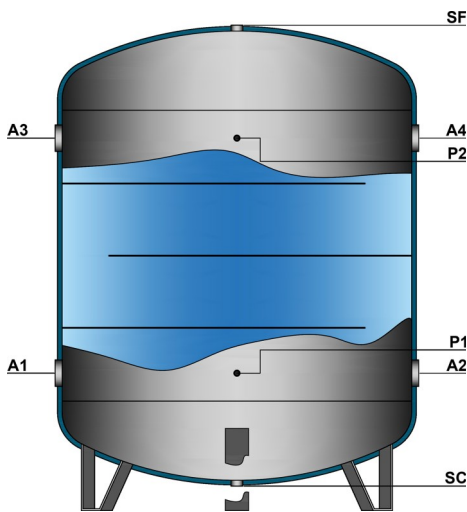
	Capacity	1500	2000	2500	3000	4000	5000
DIMENSIONS							
Diameter without insulation	mm	1100	1250	1400	1400	1600	1800
Diameter with insulation	mm	1140	1290	1440	1440	1640	1840
Overall height	mm	1920	1977	2074	2324	2415	2457
Overturning height	mm	1973	2051	2176	2399	2527	2607

CONNECTIONS

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 WEIGHT

Empty weight	kg	275	360	450	490	590	760
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GENERAL CHARACTERISTICS VTP-X - VERTICAL EXTRA-LOW VERSION WITH DIFFUSER BAFFLE PLATES

	Capacity	3000	4000	5000
DIMENSIONS				
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

CONNECTIONS

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 WEIGHT

Empty weight	kg	520	660	770
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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.

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HOW TO ORDER

S → Central perforated plate
P → Diffuser baffle plates

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

6 → 6 bar
8 → 8 bar
0 → 10 bar

A → Aluminium clad
B → PVC clad

Capacity - L

VT S - V 8 G E B / 0300

ACCESSORIES & SPARE PARTS

ITEM

PART NO.

PROBE SOCKET 1/2" | L=50 mm | Ø_{int} 10 mm

POZZETTO_S



SHORT PROBE SOCKET

PROBE SOCKET 1/2" | L=150 mm | Ø_{int} 10 mm

POZZETTO_L



LONG PROBE SOCKET

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/m ³	$\lambda = 0,032 \text{ W/mK}$	-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

ITEM	PART NO.
PVC CLADDING YERLLOW 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.

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