

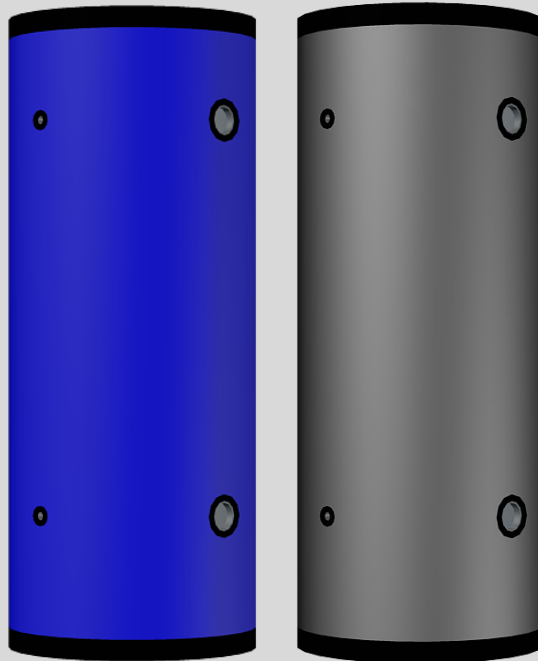
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SCAMBIATORI - BOLLITORI - SERBATOI



VT-G - VT-Z



CHILLED WATER STORAGE TANK
MADE OF CARBON STEEL / GALVANIZED STEEL

CHILLED WATER STORAGE TANK MADE OF CARBON STEEL / GALVANIZED STEEL

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



VT-GC



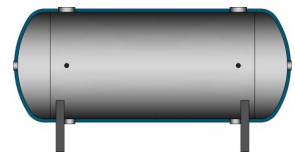
VT-GE



VT-ZC



VT-ZE



VT-OG

VT-OZ

	VT-GC	VT-GE	VT-ZC	VT-ZE	VT-OG	VT-OZ
TANK MATERIAL	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel
INTERNAL SURFACE TREATMENT	—	—	Hot dip galvanizing	Hot dip galvanizing	—	Hot dip galvanizing
EXTERNAL SURFACE TREATMENT	Anti rust primer	Anti rust primer	Hot dip galvanizing	Hot dip galvanizing	Anti rust primer	Hot dip galvanizing
CAPACITY	100 ÷ 1000 L	100 ÷ 5000 L	100 ÷ 1000 L	100 ÷ 5000 L	100 ÷ 5000 L	100 ÷ 5000 L
VERSION	Vertical	<ul style="list-style-type: none"> Vertical Vertical LOW Vertical X-LOW 	Vertical	<ul style="list-style-type: none"> Vertical Vertical LOW Vertical X-LOW 	Horizontal	Horizontal
CONNECTIONS TYPE	Threaded	Threaded	Threaded	Threaded	Threaded	Threaded
INSULATION	Hard foam polyurethane injected 30 mm	Hard foam polyurethane injected 20 mm	Hard foam polyurethane injected 30 mm	Closed cell Elastomer foam 20 mm	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 	<ul style="list-style-type: none"> PVC Blue RAL5015 Aluminium 	<ul style="list-style-type: none"> PVC Blue RAL5015 Aluminium 	<ul style="list-style-type: none"> PVC Blue RAL5015 Aluminium 	<ul style="list-style-type: none"> PVC Blue RAL5015 Aluminium

PRODUCT FICHE - Reg. 812/2013 supplementing Directive 2010/30/EU & Reg 814/2013 implementing Directive 2009/125/EC (*)

		Capacity		100	200	300
VT-GC	Energy class			B	C	C
	Standing loss	S	W	46	71	90
	Storage volume	V	L	100	190	293
VT-ZC	Energy class			B	C	C
	Standing loss	S	W	46	71	90
	Storage volume	V	L	100	190	293

(*) Referred to when it works as a hot water storage tank

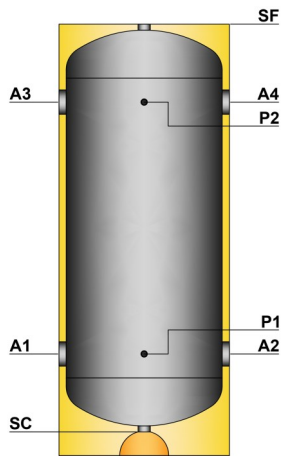
WORKING CONDITIONS

	Capacity	100	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Tank working pressure	bar	ATM÷8	ATM÷8	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	-10÷65	-10÷65

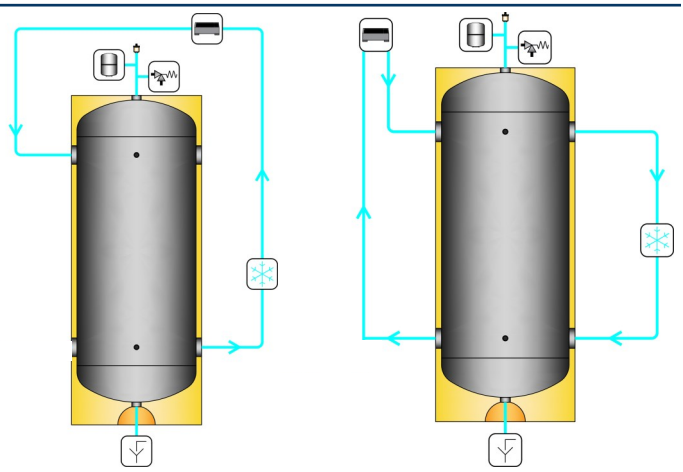
REGULATORY COMPLIANCE

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

Cooke Industries - Phone: +64 9 579 2185 Email: sales@cookeindustries.co.nz Web: www.cookeindustries.co.nz



INSTALLATION DIAGRAM

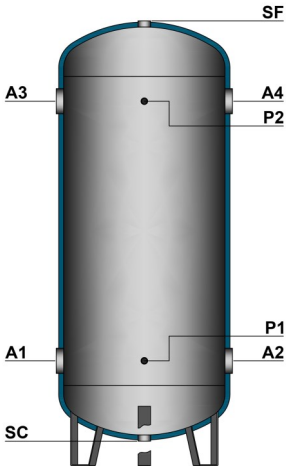


GENERAL CHARACTERISTICS VT-GC | VT-ZC - HARD FOAM PU INJECTED INSULATION

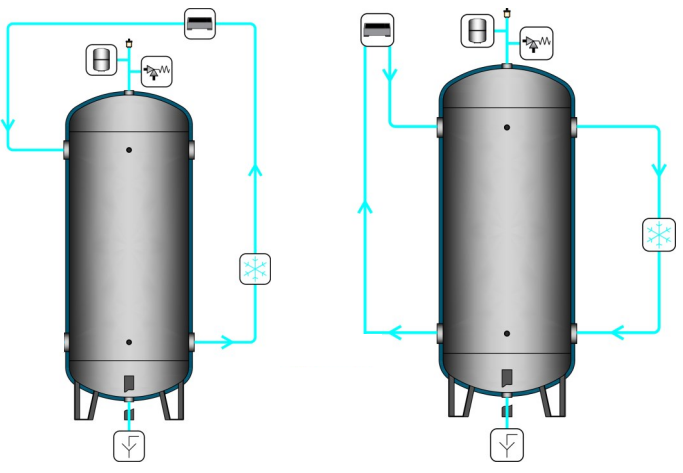
	Capacity	100	200	300	500	800	1000
DIMENSIONS							
Diameter without insulation	mm	400	450	550	650	800	800
Diameter with insulation	mm	460	510	610	710	860	860
Overall height	mm	1030	1470	1518	1799	1875	2125
Overturning height	mm	1128	1556	1638	1934	2063	2292
CONNECTIONS							
A1-A2 Inlet / Outlet	mm Ø	350 1 1/4"	395 2"	418 2 1/2"	424 3"	460 3"	460 3"
A3-A4 Inlet / Outlet	mm Ø	775 1 1/4"	1195 2"	1218 2 1/2"	1474 3"	1510 3"	1760 3"
P1 Sensor	mm Ø	350 1/2"	395 1/2"	418 1/2"	424 1/2"	460 1/2"	460 1/2"
P2 Sensor	mm Ø	775 1/2"	1195 1/2"	1218 1/2"	1474 1/2"	1510 1/2"	1760 1/2"
SF Air vent	mm Ø	1030 1 1/4"	1470 1 1/4"	1518 1 1/4"	1799 1 1/4"	1875 1 1/4"	2125 1 1/4"
SC Drain	mm Ø	95 1 1/4"	120 1 1/4"	118 1 1/4"	99 1 1/4"	95 1 1/4"	95 1 1/4"

EMPTY WEIGHT

Empty weight	kg	47	64	75	102	135	148
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INSTALLATION DIAGRAM

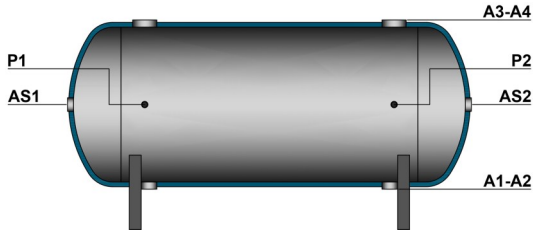


GENERAL CHARACTERISTICS VT-GE | VT-ZE - CLOSED CELL ELASTOMER FOAM INSULATION

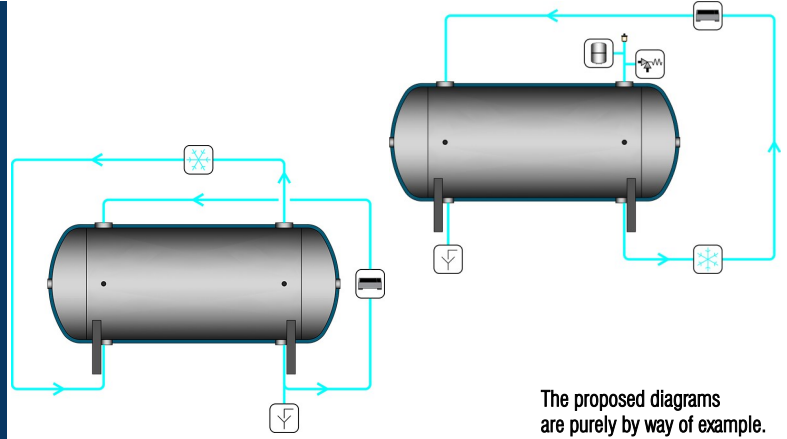
	Capacity	100	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
DIMENSIONS													
Diameter w/o insulation	mm	400	450	550	650	800	800	950	1100	1200	1250	1400	1600
Diameter w/insulation	mm	440	490	590	690	840	840	990	1140	1240	1290	1440	1640
Overall height	mm	1057	1468	1508	1799	1875	2125	2415	2470	2545	2750	2825	2915
Overturning height	mm	1068	1477	1519	1811	1893	2141	2435	2501	2584	2789	2873	2986
CONNECTIONS													
A1-A2 Inlet / Outlet	mm Ø	377 1 1/4"	393 2"	408 2 1/2"	424 3"	460 3"	460 3"	475 3"	495 3"	540 3"	560 4"	590 4"	650 4"
A3-A4 Inlet / Outlet	mm Ø	802 1 1/4"	1193 2"	1208 2 1/2"	1474 3"	1510 3"	1760 3"	2075 3"	2095 3"	2140 3"	2320 4"	2350 4"	2410 4"
P1 Sensor	mm Ø	377 1/2"	393 1/2"	408 1/2"	424 1/2"	460 1/2"	460 1/2"	475 1/2"	495 1/2"	540 1/2"	560 1/2"	590 1/2"	650 1/2"
P2 Sensor	mm Ø	802 1/2"	1193 1/2"	1208 1/2"	1474 1/2"	1510 1/2"	1760 1/2"	2075 1/2"	2095 1/2"	2140 1/2"	2320 1/2"	2350 1/2"	2410 1/2"
SF Air vent	mm Ø	1057 1 1/4"	1468 1 1/4"	1508 1 1/4"	1799 1 1/4"	1875 1 1/4"	2125 1 1/4"	2415 1 1/4"	2470 1 1/4"	2545 1 1/4"	2750 1 1/4"	2825 1 1/4"	2915 1 1/4"
SC Drain	mm Ø	122 1 1/4"	118 1 1/4"	108 1 1/4"	99 1 1/4"	95 1 1/4"	95 1 1/4"	135 1 1/4"	125 1 1/4"	138 1 1/4"	130 2"	115 2"	145 2"
EMPTY WEIGHT													
Empty weight	kg	45	60	70	95	125	135	225	285	310	370	455	615

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.





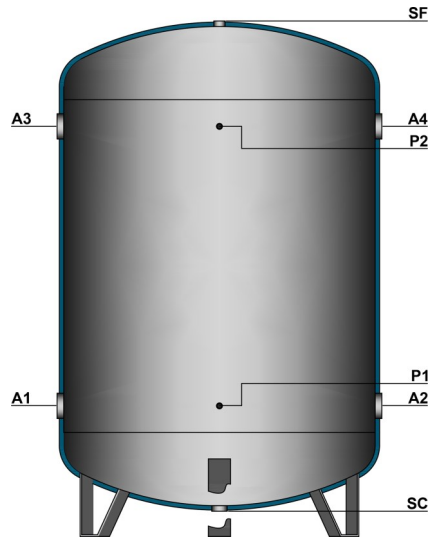
INSTALLATION DIAGRAM



The proposed diagrams are purely by way of example.

GENERAL CHARACTERISTICS VT-OG | VT-OZ - HORIZONTAL VERSION

	Capacity	100	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
DIMENSIONS													
Diameter w/o insulation	mm	400	450	550	650	800	800	950	1100	1200	1250	1400	1600
Diameter w/insulation	mm	440	490	590	690	840	840	990	1140	1240	1290	1440	1640
Overall height	mm	576	624	781	880	1021	1021	1166	1308	1419	1521	1661	1852
Overall length	mm	935	1350	1400	1700	1780	2030	2280	2350	2431	2620	2710	2770
CONNECTIONS													
A1-A2 Inlet / Outlet	mm Ø	126 1"¼	124 2"	181 2"½	170 3"	161 3"	161 3"	156 3"	153 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"	1166 3"	1308 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"	661 ½"	728 ½"	789 ½"	866 ½"	931 ½"	1022 ½"
AS1 Spare	mm Ø	351 1"¼	374 1"¼	481 1"¼	525 1"¼	591 1"¼	591 1"¼	661 1"¼	728 1"¼	789 1"¼	866 2"	931 2"	1022 2"
AS2 Spare	mm Ø	351 1"¼	374 1"¼	481 1"¼	525 1"¼	591 1"¼	591 1"¼	661 1"¼	728 1"¼	789 1"¼	866 1"¼	931 1"¼	1022 1"¼
EMPTY WEIGHT													
Empty weight	kg	45	60	70	95	125	135	225	285	310	370	455	615

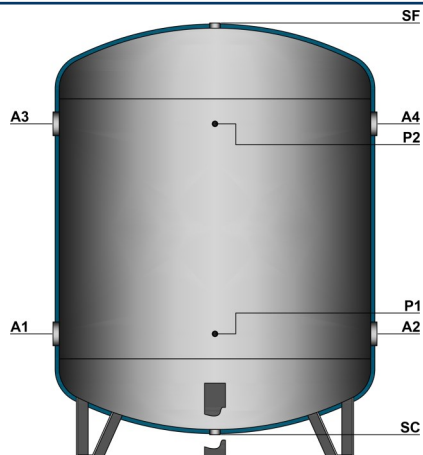


GENERAL CHARACTERISTICS VT-GR | VT-ZR - VERTICAL-LOW VERSION

	Capacity	1500	2000	2500	3000	4000	5000
DIMENSIONS							
Diameter w/o insulation	mm	1100	1250	1400	1400	1600	1800
Diameter w/insulation	mm	1140	1290	1440	1440	1640	1840
Overall height	mm	1920	1977	2074	2324	2415	2457
Overall length	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	230	290	365	405	475	635

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.



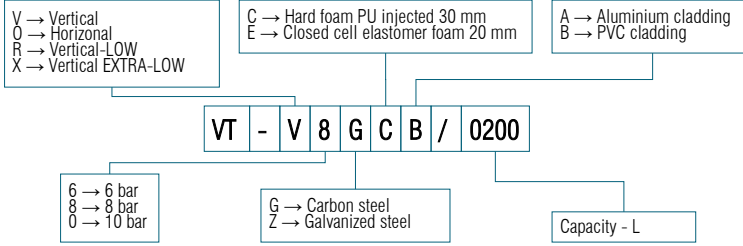


GENERAL CHARACTERISTICS VT-GX | VT-ZX - VERTICAL EXTRA-LOW VERSION

		Capacity	3000	4000	5000
DIMENSIONS					
Diameter w/o insulation	mm		1500	1700	2000
Diameter w/insulation	mm		1540	1740	2040
Overall height	mm		2085	2175	2047
Overall length	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	410	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.

HOW TO ORDER



ACCESSORIES & SPARE PARTS

ITEM

PART NO.

PROBE SOCKET $\varnothing\frac{1}{2}$ " | L=50 mm | \varnothing_{int} 10 mm

POZZETTO_S



SHORT PROBE SOCKET

PROBE SOCKET $\varnothing\frac{1}{2}$ " | L=150 mm | \varnothing_{int} 10 mm

POZZETTO_L



LONG PROBE SOCKET

ANTI-CORROSION PROTECTION STEEL TREATMENT

PROTECTIVE TREATMENTS FOR CARBON STEEL TANKS

Hot dip galvanising

The corrosion treatment by hot dip galvanizing in accordance with UNI EN ISO 1461 is carried out by immersion of the tank in a bath of liquid zinc at a temperature of approximately 450°C.

INSULATIONS

Insulating material	Removable	Thickness	Density	Thermal conductivity coefficient at 45°C	Operating temperature	Fire reaction class Euroclass EN13501-1
Hard foam Polyurethane injected	X	30 mm	40 ÷ 42 kg/m ³	$\lambda = 0,019 \text{ W/mK}$	-10°C / +99°C	F
Closed cell elastomer foam	X	20 mm	30 kg/m ³	$\lambda = 0,032 \text{ W/mK}$	-10°C / +90°C	C-s3, d0

Hard foam Polyurethane injected

Thermal and anti-condensation insulation made of hard closed cell polyurethane foam (PU), free from CFC and HCFC.

It is available in various thickness and can be injected directly to the shell of the tank to prevent it from condensation and provide the lower thermal dispersion. For some sizes it is pre-formed into half-shells to ease the insulation removal in case the tank has to pass through narrow doors.

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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