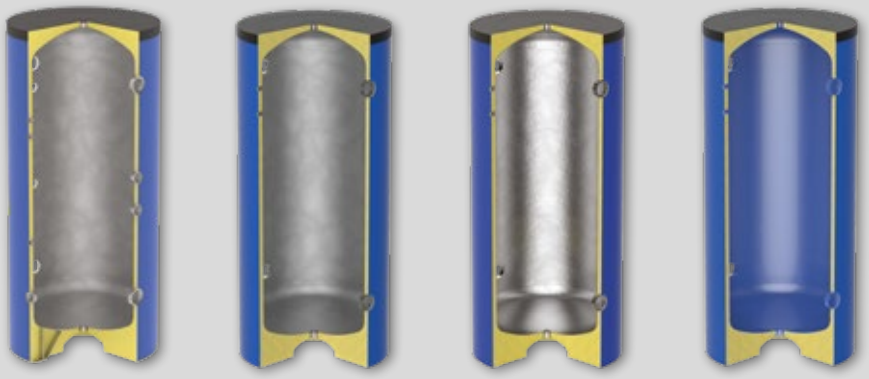
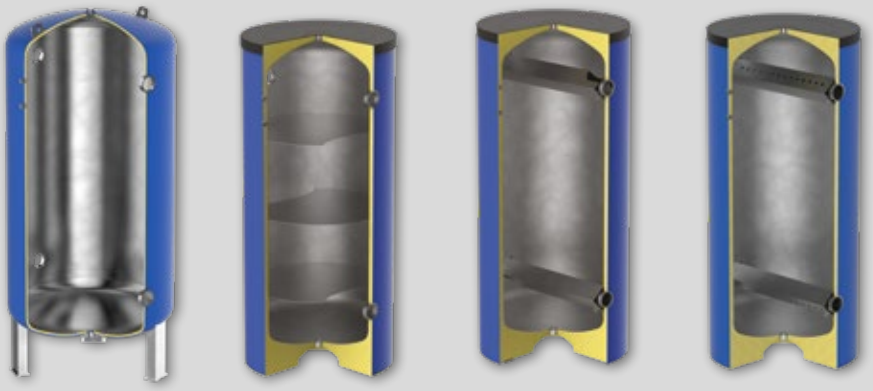
Inertial Tanks







inerti

Inertial tanks for hot/cold



MINI18 - MINI45 - MINI85
Carbon steel
External anti-rust painting
Anti-condensate insulation
Can contain hot and chilled water as well in heating or cooling devices equipped with a heat pump.



VKX-HC MINI
Stainless steel
Painted galvanized sheet metal
Anti-condensation insulation
Designed to contain both hot and chilled water in heat pump powered heating and cooling systems.



VKG-HC (coloured PVC) - VKGE-HC
(embossed aluminium sheet)
Carbon steel
External anti-rust painting
Anti-condensate insulation
Can contain hot and chilled water as well in heating or cooling devices equipped with a heat pump. To be used in Layout 1 or Layout 2 (single and double loop) installations. Embossed aluminium sheet for outdoor installations.

Inertial tanks for hot water



PFA - PFB - PFC
Carbon steel
Anti-rust paint
Suitable for heating systems intended for the storage of hot technical water for systems powered by a discontinuous energy source.



COMBI PLUS
Carbon steel
Stainless steel DHW exchnager
Internal enamelling
Suitable for systems that use discontinuous energy sources such as, for example, solar, biomass and wood systems

Inertial tanks for cold water



VKG (coloured PVC) - VKGE (embossed aluminium sheet)
Carbon steel
External anti-rust painting
Anti-condensate insulation
For devices which do not need internal protection against corrosion. Single or double loop installations. To be used in Layout 1 or Layout 2 (single and double loop) installations. Embossed aluminium sheet for outdoor installations.



VK (coloured PVC) - VKE (embossed aluminium sheet)
Carbon steel
Hot-dip galvanizing
Anti-condensate insulation
For devices which need protection against corrosion. To be used in Layout 1 or Layout 2 (single and double loop) installations. Embossed aluminium sheet for external installations.



VKT
Carbon steel
Internal enamelling
Anti-condensate insulation
For devices which need anti-corrosive protection and which are also compatible with most antifreeze liquids. To be used in Layout 1 or Layout 2 (single and double loop) installations.



VKX
Stainless steel
Anti-condensate insulation
For devices which need stainless steel in case of contact with the fluid. To be used in Layout 1 or Layout 2 (single and double loop) installations.



VKS
Carbon steel
External anti-rust painting
Anti-condensate insulation
With internal baffles which prevent preferential flow. To be used with Layout 2 (double loop) installations, also with a high flow and multi-circuited.



VKR
Carbon steel
External anti-rust painting
Anti-condensate insulation
Suitable for installation in Layout 2 (double loop). Conveyor pipes favor the flow of chilled water from primary to secondary circuit, recommended for medium / high flow rates.



VKD
Carbon steel
External anti-rust painting
Anti-condensate insulation
Suitable for installation in Layout 2 (double loop). The diffuser tubes evens the temperature inside the tank.

Cold Water Storage Tanks
MINI-HC Serie (Hot & Cold wall-mounted)

The MINI-HC series includes heat sink tanks for "Hot & Cold" plants suitable for use with heat pumps, perform hydraulic circuit breaker functions (making the flows of the two circuits independent) and the thermal flywheel (to minimize the heat pump starts). The MINI-HC. 45/85 l versions, has two additional connections dedicated to a supplementary source. It is possible to order in multipacks, receiving the tanks on a pallet. The 18 l version can be installed horizontally.

Material: carbon steel
External covering: 45/85 l painted galvanized metal sheet
18 l polyethylene
Insulation
Operational limits

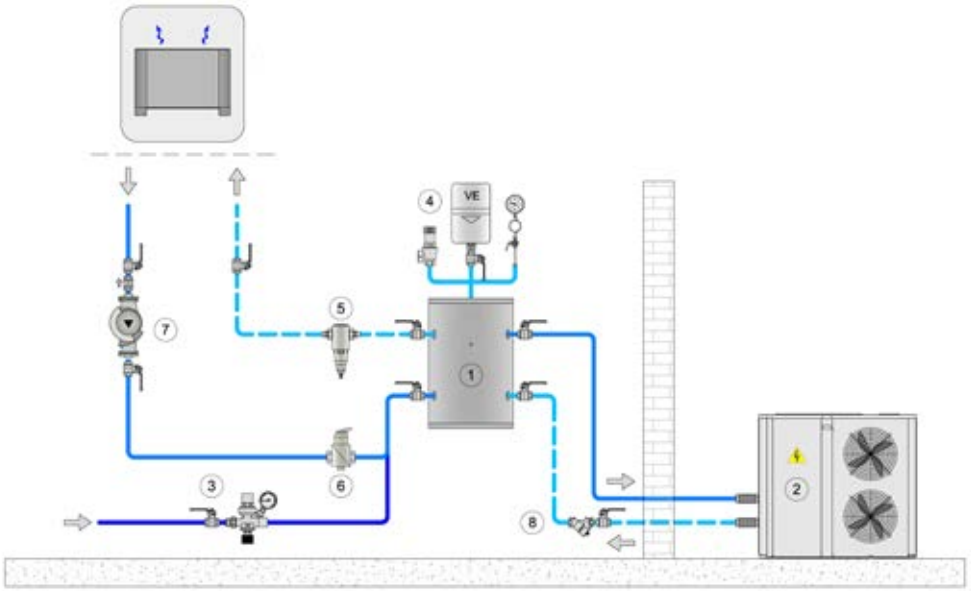
Capacity (l)	Type
18	Closed cell polyethylene foam
45, 85	High density rigid polyurethane foam

Min. temperature	Max. temperature	Max. pressure
-10 °C	90 °C	6 bar

	MINI wall-mounted			Single packaging		Multipacks* packaging		
Cap. l	Code	Price each	Energy label	Dim. cm	Weight kg	Pieces	Dim. cm	Weight kg
18	817010283X		C	55x29x31	10	24	120x100x134	250
45	817010323X		C	41x41x80	19	12	120x80x180	225
85	817010324X		C	49x49x87	25	8	105x105x184	210

***to purchase with multiple packaging, it is necessary to order quantities equal to or multiple of the standard packaging**

Standard Accessories: see pag. 102









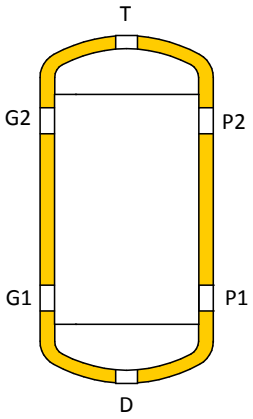
TESTED

Legend

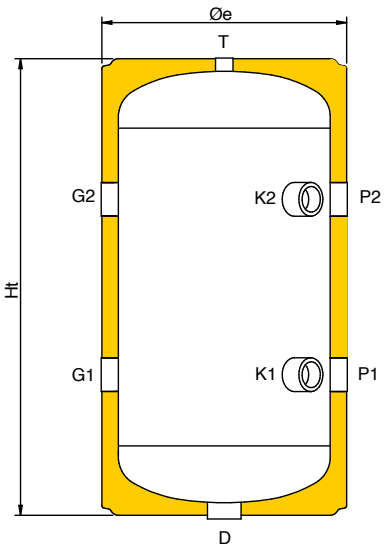
1. Fiorini buffer tank
2. Cooling station/heat pump
3. Filling unit
4. Safety unit
5. Dirt separator (not included)
6. Deaerator
7. Pump unit
8. "Y" filter to protect the PDC

Cold Water Storage Tanks: Dimensions MINI-HC series

cap. = 18



cap. = 45, 85



Couplings legend

D	Drain
G1	From plant
G2	To plant
K1	Auxiliary
K2	Auxiliary
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Capacity l	D inch	G1 inch	G2 inch	K1 inch	K2 inch	P1 inch	P2 inch	T inch
18	3/4"	1"	1"	-	-	1"	1"	3/4"
45	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1/2"
85	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1/2"

Size chart

Capacity l	Øe mm	Ht mm	R* mm	G1 mm	G2 mm	K1 mm	K2 mm	P1 mm	P2 mm
18	260	530	590	130	400	-	-	130	400
45	370	700	770	220	485	220	485	220	485
85	460	780	905	185	535	185	535	185	535

R*: Reversal quota

Cold Water Storage Tanks
VKX-HC MINI Serie
(Hot & Cold wall-mounted)

The VKX-HC MINI series consists of hanging tanks made of stainless steel for "hot-cold" systems. They are also suitable for use with heat pumps, they perform the functions of hydraulic separator (making the flow rates of the two circuits independent), and that of thermal flywheel (aimed at minimizing the start-ups of the heat pump). The VKX-HC MINI is available in the 45 and 75l versions and have two additional connections for a supplementary source. Plus: stainless steel, which preserves the cleanliness of the system and guarantees minimum heat loss. It is possible to order in multiple packages, receiving the tanks on a pallet.



TESTED

Material: AISI 304 stainless steel
External coating: painted galvanized metal sheet
Insulation

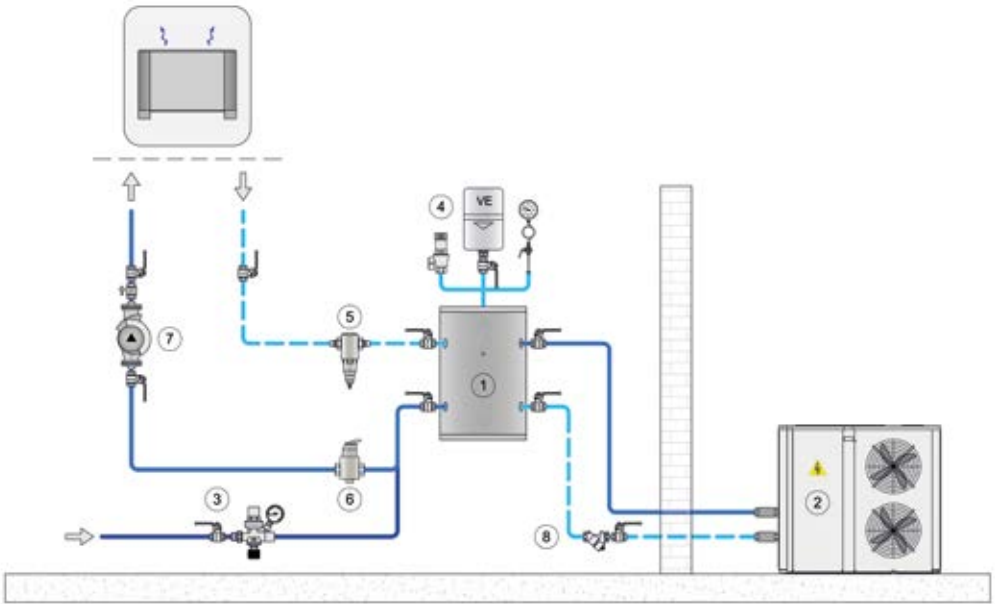
Capacity (l)	Type
45, 75	High density rigid polyurethane foam

Operational limits

Min. temperature	Max. temperature	Max. pressure
-10 °C	90 °C	8 bar

	VKX-HC MINI wall-mounted			Single packaging	Multipacks* packaging	
Cap. l	Code	Price each	Energy label	Dim. cm	Pieces	Dim. cm
45	817040219X		A	60x60x138	15	130x90x220
75	817040220X		A	60x90x155	10	110x105x220

***to purchase with multiple packaging, it is necessary to order quantities equal to or multiple of the standard packaging**

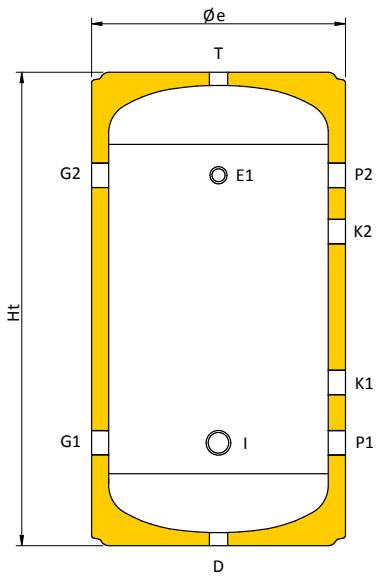


Legend

1. Fiorini VKX-HC MINI
2. Cooling station/heat pump
3. Filling unit
4. Safety unit
5. Dirt separator (not included)
6. Deaerator
7. Pump unit
8. "Y" filter to protect the PDC

Cold Water Storage Tanks: Dimensions
VKX-HC MINI Serie - (Hot & Cold wall-mounted)

cap. = 45, 75 l



Couplings legend

D	Drain
E1	Probe/Thermometer
G1	From plant
G2	To plant
I	Heating element
K1	Auxiliary
K2	Auxiliary
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Capacity l	D inch	E1 inch	G1 inch	G2 inch	I inch	K1 inch	K2 inch	P1 inch	P2 inch	T inch
45	1"1/4	1/2"	1"1/4	1"1/4	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4	1/2"
75	1"1/4	1/2"	1"1/4	1"1/4	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4	1/2"

Size chart

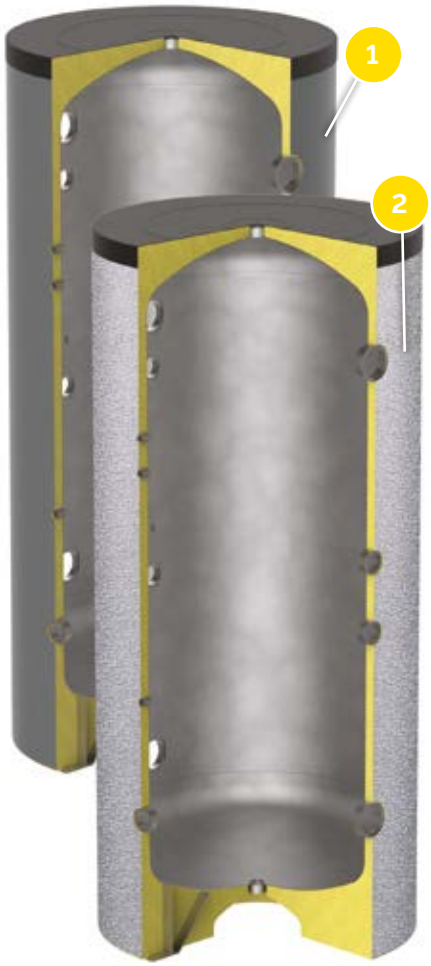
Capacity l	Øe mm	Ht mm	R* mm	E1 mm	G1 mm	G2 mm	I mm	K1 mm	K2 mm	P1 mm	P2 mm
45	380	700	910	550	150	550	150	250	450	150	550
75	470	780	800	595	185	595	185	295	485	185	595

R*: Reversal quota

Cold Water Storage Tanks
VKG-HC, VKGE-HC series (Hot & Cold)

The VKG-HC series contains insulated tanks for "HOT & COLD" applications, which are usually used to increase thermal inertia of the device. Suitable for heat pumps to avoid compressor/generator restarts. VKG-HC have two additional couplings dedicated for an optional additional source.

Material: carbon steel



TESTED

External covering

Model	Type	Usage	
VKG-HC	coloured PVC	indoor	1
VKGE-HC	embossed aluminium sheet	outdoor	2

Insulation

Capacity (l)	Type
from 100 to 1000	High density rigid polyurethane foam
from 1.500	Closed cell polyethylene foam + Polyester Fiber

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	90 °C	6 bar

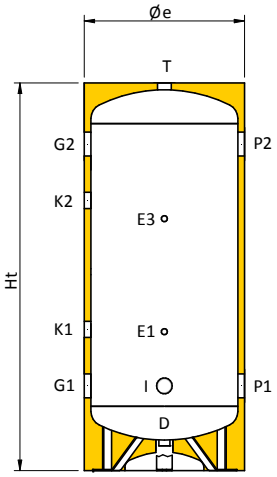
Standard Accessories: see pag. 102

Special versions: see pag. 105

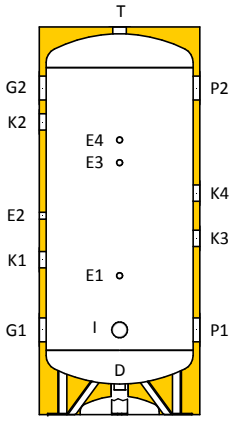
	VKG-HC vertical, coloured PVC		VKGE-HC vertical, embossed al. sheet			Vertical Packaging	
Capacity l	Code	Price	Code	Price	Energy label	Dimensions cm	Weight kg
100	817010285X		817010293H8X		B	49x49x107	35
200	817010286X		817010294H8X		C	54x54x146	40
300	817010287X		817010295H8X		B	64x64x180	60
500	817010288X		817010296H8X		C	74x74x184	95
750	817010289X		817010297H8X		C	95x95x178	120
1000	817010290X		817010298H8X		C	105x105x209	140
1500	817010291X				C	130X130X238	222
2000	817010292X				C	140X140X270	314
2500	817010336X					150X150X249	331
3000	817010337X					150X150X299	389
4000	817010338X					170X170X306	557
5000	817010339X					190X190X310	645

Cold Water Storage Tanks: Dimensions VKG-HC, VKGE-HC series

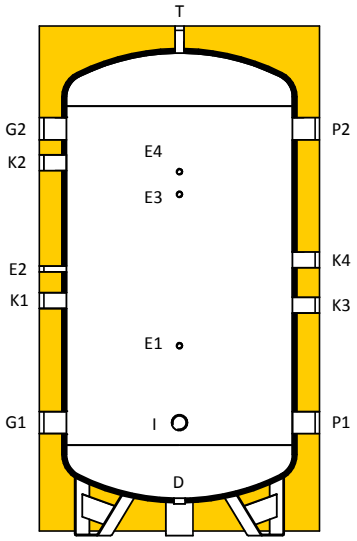
100 ≤ cap. ≤ 200



300 ≤ cap. ≤ 1000



1.500 ≤ cap. ≤ 5.000



Couplings legend

D	Drain
E1	Probe / Thermometer
E2	Probe / Thermometer
E3	Probe / Thermometer
E4	Probe / Thermometer
G1	From plant
G2	To plant
I	Electrical resistor
K1	Auxiliary
K2	Auxiliary
K3	Auxiliary
K4	Auxiliary
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Cap. l	D inch	E1 inch	E2 inch	E3 inch	E4 inch	G1 inch	G2 inch	I inch	K1 inch	K2 inch	K3 inch	K4 inch	P1 inch	P2 inch	T inch
100	1"1/4	1/2"	-	1/2"	-	1"1/2	1"1/2	2"	1"1/2	1"1/2	-	-	1"1/2	1"1/2	1"1/4
200	1"1/4	1/2"	-	1/2"	-	1"1/2	1"1/2	2"	1"1/2	1"1/2	-	-	1"1/2	1"1/2	1"1/4
300	1"1/4	1/2"	1/2"	1/2"	1/2"	2"	2"	2"	1"1/2	1"1/2	1"1/2	1"1/2	2"	2"	1"1/4
500	1"1/4	1/2"	1/2"	1/2"	1/2"	3"	3"	2"	2"	2"	2"	2"	3"	3"	1"1/4
750	1"1/2	1/2"	1/2"	1/2"	1/2"	3"	3"	2"	2"	2"	2"	2"	3"	3"	1"1/2
1000	1"1/2	1/2"	1/2"	1/2"	1/2"	3"	3"	2"	2"	2"	2"	2"	3"	3"	1"1/2
1500	2"	1/2"	1/2"	1/2"	1/2"	3"	3"	2"	2"	2"	2"	2"	3"	3"	2"
2000	2"	1/2"	1/2"	1/2"	1/2"	3"	3"	2"	2"	2"	2"	2"	3"	3"	2"
2500	2"	1/2"	1/2"	1/2"	1/2"	4"	4"	2"	2"	2"	2"	2"	4"	4"	2"
3000	2"	1/2"	1/2"	1/2"	1/2"	4"	4"	2"	2"	2"	2"	2"	4"	4"	2"
4000	2"	1/2"	1/2"	1/2"	1/2"	4"	4"	2"	2"	2"	2"	2"	4"	4"	2"
5000	2"	1/2"	1/2"	1/2"	1/2"	4"	4"	2"	2"	2"	2"	2"	4"	4"	2"

Size chart

Cap. l	Øe mm	Ht mm	R* mm	D mm	E1 mm	E2 mm	E3 mm	E4 mm	G1 mm	G2 mm	I mm	K1 mm	K2 mm	K3 mm	K4 mm	P1 mm	P2 mm
100	460	950	1060	125	395	-	655	-	285	765	285	445	605	-	-	285	765
200	510	1335	1430	125	520	-	920	-	320	1120	320	580	850	-	-	320	1120
300	610	1680	1790	130	555	895	1055	1155	355	1405	355	645	1255	780	980	355	1405
500	760	1735	1895	140	620	885	1120	1220	380	1450	380	690	1300	785	985	380	1450
750	910	1765	1990	125	685	885	1145	1245	395	1445	395	685	1295	820	1020	395	1445
1000	1010	2075	2310	125	755	1095	1405	1505	415	1715	415	955	1565	955	1155	415	1715
1500	1220	2245	2560	165	840	1180	1510	1610	500	1800	500	1040	1650	1020	1220	500	1800
2000	1320	2565	2885	155	885	1450	1815	1915	505	2105	505	1345	1955	1180	1380	505	2105
2500	1470	2360	2785	180	1015	1255	1515	1665	565	1865	565	1005	1615	1115	1315	565	1865
3000	1470	2860	3220	180	1315	1755	1815	1965	565	2365	565	1505	2115	1365	1565	565	2365
4000	1620	2930	3350	160	1340	1780	1840	1990	590	2390	590	1530	2140	1390	1590	590	2390
5000	1820	2970	3485	140	1350	1790	1850	2000	600	2400	600	1540	2150	1400	1600	600	2400

R*: Reversal quota

Cold Water Storage Tanks
VKG, VKGE series (carbon steel)

The VKG series includes insulated tanks for chilled water, normally used to increase the thermal inertia of the conditioning system.



Material: carbon steel

External covering

Model	Type	Usage
VKG	coloured PVC	indoor
VKGE	embossed aluminium sheet	outdoor

1
2

Insulation

Capacity (l)	Type	Thick. (mm)
from 100 to 1000	High density rigid polyurethane foam	30
from 1500 + horizontal versions	Closed cell polyethylene foam	20

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	60 °C	6 bar

Standard Accessories: see pag. 102

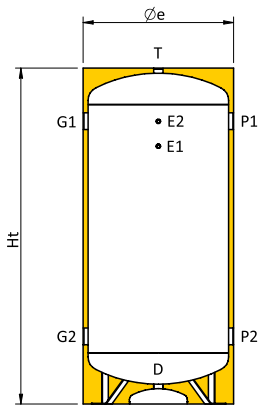
Special versions: see pag. 105

	VKG vertical, PVC coloured		VKGE vertical, embossed al. sheet		Vertical Packaging		VKG horizontal, PVC coloured	
Capacity l	Code	Price	Code	Price	Dimensions cm	Weight kg	Code	Price
100	816010130		816011275H8X		49x49x107	24	816010142	
200	816010131		816011276H8X		54x54x146	36	816010143	
300	816010132		816011277H8X		64x64x155	46	816010144	
500	816010133		816011278H8X		74x74x184	78	816010145	
800	816010134		816011279H8X		88x88x186	105	816010146	
1000	816010135		816011280H8X		94x94x215	129	816010147	
1500	816010136				107x107x228	182	816010148	
2000	816010137				117x117x260	250	816010149	
2500	816010138				132x132x240	267	816010150	
3000	816010139				132x132x290	314	816010151	
4000	816010140				147x147x297	470	816010152	
5000	816010141				167x167x301	557	816010153	
6000	816011186X				282x204x204	647		
8000	816011187X				352x204x204*	782		
10000	816011188X				427x204x204*	927		

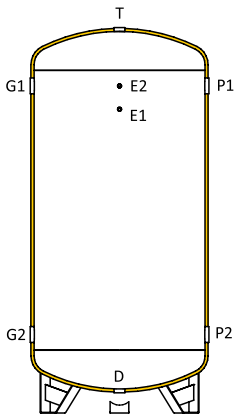
*Shipping by container requires open top containers

Cold Water Storage Tanks: Dimensions VKG VKGE

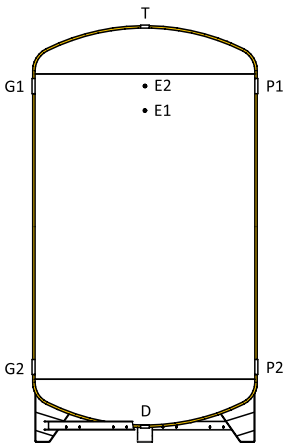
100 ≤ cap. ≤ 1000



1500 ≤ cap. ≤ 5.000



6000 ≤ cap. ≤ 10.000

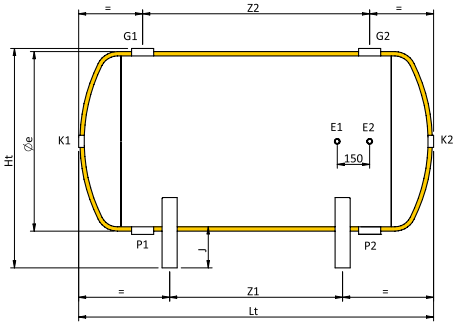


Couplings legend

D	Drain
E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
P1	To energy source
P2	From energy source
T	Vent

Size and couplings chart for vertical version

Cap. l	Øe mm	Ht mm	R* mm	D mm	E1 mm	E2 mm	G1 mm	G2 mm	P1 mm	P2 mm	D inch	E1 inch	E2 inch	G1 inch	G2 inch	P1 inch	P2 inch	T inch
100	460	950	1060	125	610	760	760	290	760	290	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
200	510	1335	1430	120	990	1140	1140	290	1140	290	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
300	610	1425	1550	130	1015	1165	1165	365	1165	365	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
500	710	1710	1855	135	1285	1435	1435	385	1435	385	1"1/4	1/2"	1/2"	3"	3"	3"	3"	1"1/4
800	850	1740	1940	125	1295	1445	1445	395	1445	395	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1000	910	2025	2220	120	1560	1710	1710	410	1710	410	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1500	1040	2160	2400	165	1650	1800	1800	500	1800	500	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2000	1140	2480	2730	155	1955	2105	2105	505	2105	505	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2500	1290	2275	2620	180	1715	1865	1865	565	1865	565	2"	1/2"	1/2"	4"	4"	4"	4"	2"
3000	1290	2775	3060	180	2215	2365	2365	565	2365	565	2"	1/2"	1/2"	4"	4"	4"	4"	2"
4000	1440	2845	3190	160	2240	2390	2390	590	2390	590	2"	1/2"	1/2"	4"	4"	4"	4"	2"
5000	1640	2885	3320	140	2250	2400	2400	600	2400	600	2"	1/2"	1/2"	4"	4"	4"	4"	2"
6000	1840	2715	3280	140	2015	2215	2215	615	2215	615	2"	1/2"	1/2"	4"	4"	4"	4"	2"
8000	1840	3415	3880	140	2715	2915	2915	615	2915	615	2"	1/2"	1/2"	4"	4"	4"	4"	2"
10000	1840	4165	4555	140	3465	3665	3665	615	3665	615	2"	1/2"	1/2"	4"	4"	4"	4"	2"



Couplings legend

E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
K1	Auxiliary
K2	Auxiliary
P1	To energy source
P2	From energy source

Size and couplings chart for horizontal version

Cap. l	Øe mm	Lt mm	Ht mm	J mm	Z1 mm	Z2 mm	E1 inch	E2 inch	G1 inch	G2 inch	K1 inch	K2 inch	P1 inch	P2 inch
100	440	850	545	120	310	470	1/2"	1/2"	1"1/2	1"1/2	1"1/4	1"1/4	1"1/2	1"1/2
200	490	1240	595	120	700	850	1/2"	1/2"	1"1/2	1"1/2	1"1/4	1"1/4	1"1/2	1"1/2
300	590	1320	715	140	600	800	1/2"	1/2"	2"	2"	1"1/4	1"1/4	2"	2"
500	690	1600	865	190	900	1050	1/2"	1/2"	3"	3"	1"1/4	1"1/4	3"	3"
800	830	1640	1005	190	900	1050	1/2"	1/2"	3"	3"	1"1/2	1"1/2	3"	3"
1000	890	1930	1065	190	1130	1300	1/2"	1/2"	3"	3"	1"1/2	1"1/2	3"	3"
1500	1040	2020	1215	190	950	1300	1/2"	1/2"	3"	3"	2"	2"	3"	3"
2000	1140	2350	1325	200	1320	1600	1/2"	1/2"	3"	3"	2"	2"	3"	3"
2500	1290	2120	1500	225	1020	1300	1/2"	1/2"	4"	4"	2"	2"	4"	4"
3000	1290	2620	1500	225	1390	1800	1/2"	1/2"	4"	4"	2"	2"	4"	4"
4000	1440	2710	1650	225	1380	1800	1/2"	1/2"	4"	4"	2"	2"	4"	4"
5000	1640	2770	1850	225	1380	1800	1/2"	1/2"	4"	4"	2"	2"	4"	4"

R*: Reversal quota

Cold Water Storage Tanks
VK, VKE series (galvanized)

The VK, VKE series has galvanized and insulated tanks for chilled water, which are usually used to increase the thermal inertia of the conditioning device. The galvanization offers protection against corrosion..



Material: carbon steel
Treatment: internal and external hot-dip galvanization

External covering

Model	Type	Usage	
VK	coloured PVC	indoor	1
VKE	embossed aluminium sheet	outdoor	2

Insulation

Capacity (l)	Type	Thick. (mm)
from 100 to 1000	High density rigid polyurethane foam	30
from 1500 + horizontal versions	Closed cell polyethylene foam	20

Operational limits

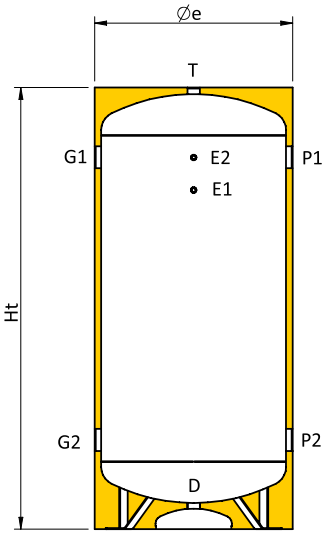
Min temperature	Max temperature	Max pressure
-10 °C	60 °C	6 bar

Standard Accessories: see pag. 102
Special versions: see pag. 105

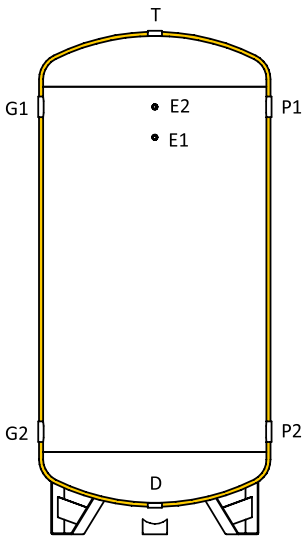
	VK vertical, PVC coloured		VKE vertical, embossed al. sheet		Vertical Packaging		VK horizontal, PVC coloured	
Capacity l	Code	Price	Code	Price	Dimensions cm	Weight kg	Code	Price
100	816020064		816020040H8X		49x49x107	25	816020076	
200	816020065		816020041H8X		54x54x146	37	816020077	
300	816020066		816020042H8X		64x64x155	48	816020078	
500	816020067		816020043H8X		74x74x184	81	816020079	
800	816020068		816020044H8X		88x88x186	110	816020080	
1000	816020069		816020045H8X		94x94x215	135	816020081	
1500	816020070				107x107x228	192	816020082	
2000	816020071				117x117x260	264	816020083	
2500	816020072				132x132x240	281	816020084	
3000	816020073				132x132x290	331	816020085	
4000	816020074				147x147x297	496	816020086	
5000	816020075				167x167x301	587	816020087	

Cold Water Storage Tanks: Dimensions VK VKE

100 ≤ cap. ≤ 1.000



1.500 ≤ cap. ≤ 5.000

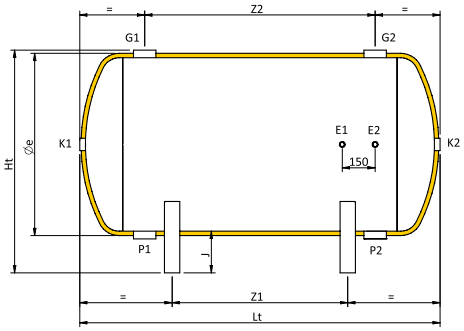


Couplings legend

D	Drain
E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
P1	To energy source
P2	From energy source
T	Vent

Size and couplings chart for vertical version

Cap. l	Øe mm	Ht mm	R* mm	D mm	E1 mm	E2 mm	G1 mm	G2 mm	P1 mm	P2 mm	D inch	E1 inch	E2 inch	G1 inch	G2 inch	P1 inch	P2 inch	T inch
100	460	950	1060	125	610	760	760	290	760	290	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
200	510	1335	1430	120	990	1140	1140	290	1140	290	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
300	610	1425	1555	130	1015	1165	1165	365	1165	365	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
500	710	1710	1855	135	1285	1435	1435	385	1435	385	1"1/4	1/2"	1/2"	3"	3"	3"	3"	1"1/4
800	850	1740	1940	125	1295	1445	1445	395	1445	395	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1000	910	2025	2225	120	1560	1710	1710	410	1710	410	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1500	1040	2160	2400	165	1650	1800	1800	500	1800	500	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2000	1140	2480	2730	155	1955	2105	2105	505	2105	505	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2500	1290	2275	2620	180	1715	1865	1865	565	1865	565	2"	1/2"	1/2"	4"	4"	4"	4"	2"
3000	1290	2775	3060	180	2215	2365	2365	565	2365	565	2"	1/2"	1/2"	4"	4"	4"	4"	2"
4000	1440	2845	3190	160	2240	2390	2390	590	2390	590	2"	1/2"	1/2"	4"	4"	4"	4"	2"
5000	1640	2885	3320	140	2250	2400	2400	600	2400	600	2"	1/2"	1/2"	4"	4"	4"	4"	2"



Couplings legend

E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
K1	Auxiliary
K2	Auxiliary
P1	To energy source
P2	From energy source

Size and couplings chart for horizontal version

Cap. l	Øe mm	Lt mm	Ht mm	J mm	Z1 mm	Z2 mm	E1 inch	E2 inch	G1 inch	G2 inch	K1 inch	K2 inch	P1 inch	P2 inch
100	440	850	545	120	310	470	1/2"	1/2"	1"1/2	1"1/2	1"1/4	1"1/4	1"1/2	1"1/2
200	490	1240	595	120	700	850	1/2"	1/2"	1"1/2	1"1/2	1"1/4	1"1/4	1"1/2	1"1/2
300	590	1320	715	140	600	800	1/2"	1/2"	2"	2"	1"1/4	1"1/4	2"	2"
500	690	1600	865	190	900	1050	1/2"	1/2"	3"	3"	1"1/4	1"1/4	3"	3"
800	830	1640	1005	190	900	1050	1/2"	1/2"	3"	3"	1"1/2	1"1/2	3"	3"
1000	890	1930	1065	190	1130	1300	1/2"	1/2"	3"	3"	1"1/2	1"1/2	3"	3"
1500	1040	2020	1215	190	950	1300	1/2"	1/2"	3"	3"	2"	2"	3"	3"
2000	1140	2350	1325	200	13320	1600	1/2"	1/2"	3"	3"	2"	2"	3"	3"
2500	1290	2120	1500	225	1020	1300	1/2"	1/2"	4"	4"	2"	2"	4"	4"
3000	1290	2620	1500	225	1390	1800	1/2"	1/2"	4"	4"	2"	2"	4"	4"
4000	1440	2710	1650	225	1380	1800	1/2"	1/2"	4"	4"	2"	2"	4"	4"
5000	1640	2770	1850	225	1380	1800	1/2"	1/2"	4"	4"	2"	2"	4"	4"

R*: Reversal quota

Cold Water Storage Tanks VKT series (enamelled)

The tanks in the VKT series, which are internally enamelled and insulated for use with chilled water, are usually used to increase thermal inertia in Layout 2 plants. The internal enamelling ensures protection against corrosion.



Material: carbon steel
Treatment: Bluetech internal enamelling with thermosetting resins

WRAS APPROVED MATERIAL

External covering

Model	Type	Usage
VKT	coloured PVC	indoor

Operational limits

Capacity (l)	Type	Thick. (mm)
from 100 to 1000	High density rigid polyurethane foam	30
from 1500	Closed cell polyethylene foam	20

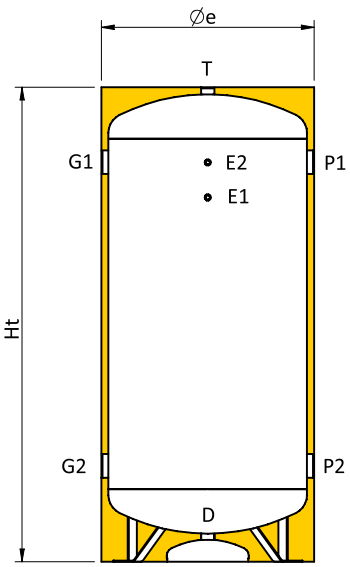
Min temperature	Max temperature	Max pressure
-10 °C	60 °C	6 bar

Standard Accessories: see pag. 102
Special versions: see pag. 105

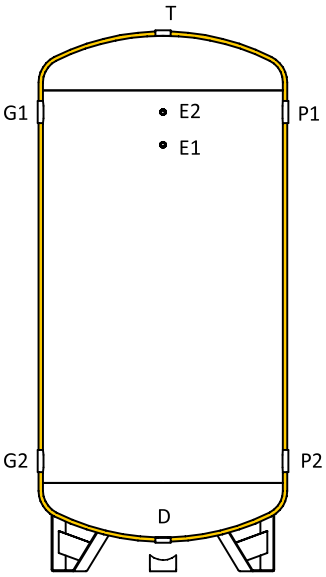
	VKT		Vertical Packaging	
Capacity l	Code	Price	Dimensions cm	Weight kg
100	816080001X		49x49x107	24
200	816080002X		54x54x146	36
300	816080003X		64x64x155	46
500	816080004X		74x74x184	78
800	816080005X		88x88x186	105
1000	816080006X		94x94x215	129
1500	816080007X		107x107x228	182
2000	816080008X		117x117x260	250
2500	816080009X		132x132x240	267
3000	816080010X		132x132x290	314
4000	816080011X		147x147x297	470
5000	816080012X		167x167x301	557

Cold Water Storage Tanks: Dimensions VKT series

100 ≤ cap. ≤ 1.000



1.500 ≤ cap. ≤ 5.000



Couplings legend

D	Drain
E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Capacity l	D inch	E1 inch	E2 inch	G1 inch	G2 inch	P1 inch	P2 inch	T inch
100	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
200	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
300	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
500	1"1/4	1/2"	1/2"	3"	3"	3"	3"	1"1/4
800	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1000	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1500	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2000	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2500	2"	1/2"	1/2"	4"	4"	4"	4"	2"
3000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
4000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
5000	2"	1/2"	1/2"	4"	4"	4"	4"	2"

Size chart

Capacity l	Øe mm	Ht mm	R* mm	D mm	E1 mm	E2 mm	G1 mm	G2 mm	P1 mm	P2 mm
100	460	950	1060	125	610	760	760	290	760	290
200	510	1335	1430	120	990	1140	1140	290	1140	290
300	610	1425	1555	130	1015	1165	1165	365	1165	365
500	710	1710	1855	135	1285	1435	1435	385	1435	385
800	850	1740	1940	125	1295	1445	1445	395	1445	395
1000	910	2025	2225	120	1560	1710	1710	410	1710	410
1500	1040	2160	2400	165	1650	1800	1800	500	1800	500
2000	1140	2480	2730	155	1955	2105	2105	505	2105	505
2500	1290	2275	2620	180	1715	1865	1865	565	1865	565
3000	1290	2775	3060	180	2215	2365	2365	565	2365	565
4000	1440	2845	3190	160	2240	2390	2390	590	2390	590
5000	1640	2885	3320	140	2250	2400	2400	600	2400	600

R*: Reversal quota

Cold Water Storage Tanks
VKX series (stainless steel)

The VKX series includes insulated AISI 304 stainless steel tanks for chilled water, which are usually used to increase thermal inertia in single or double loop plants. The stainless steel protects the device against corrosion and makes it possible to use the tank in aggressive environments and in industrial settings.



Material: stainless steel AISI 304

External covering

Model	Type	Usage
VKX	coloured PVC	indoor

Insulation

Capacity (l)	Type	Thick. (mm)
from 100 to 5000	Closed cell polyethylene foam	20

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	60 °C	6 bar

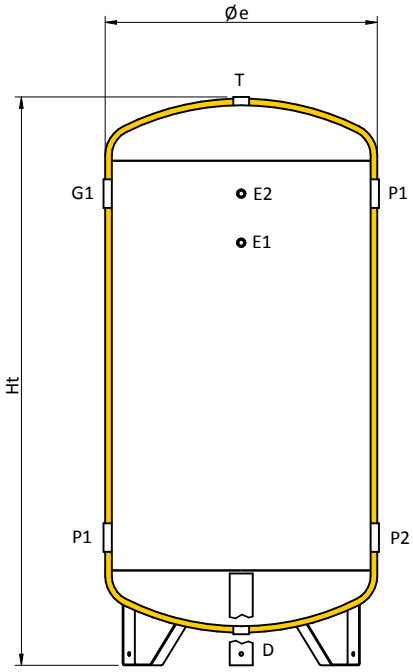
Standard Accessories: see pag. 102

Special versions: see pag. 105

TESTED

	VKX AISI 304		With packaging
Capacity l	Code	Price	Dimensions cm
100	816040265X		47x47x105
200	816040266X		52x52x152
300	816040267X		62x62x155
500	816040268X		67x67x200
800	816040269X		86x86x197
1000	816040270X		87x87x224
1500	816040271X		107x107x225
2000	816040272X		127x127x233
2500	816040273X		127x127x258
3000	816040274X		132x132x285
4000	816040275X		147x147x293
5000	816040276X		167x167x296

Cold Water Storage Tanks: Dimensions VKX series



Couplings legend

D	Drain
E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Capacity l	D inch	E1 inch	E2 inch	G1 inch	G2 inch	P1 inch	P2 inch	T inch
100	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
200	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
300	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
500	1"1/4	1/2"	1/2"	2"1/2	2"1/2	2"1/2	2"1/2	1"1/4
800	1"1/4	1/2"	1/2"	2"1/2	2"1/2	2"1/2	2"1/2	1"1/4
1000	1"1/4	1/2"	1/2"	3"	3"	3"	3"	1"1/4
1500	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
2000	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
2500	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
3000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
4000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
5000	2"	1/2"	1/2"	4"	4"	4"	4"	2"

Size chart

Capacity l	Øe mm	Ht mm	R* mm	E1 mm	E2 mm	G1 mm	G2 mm	P1 mm	P2 mm
100	440	950	1050	615	765	765	280	765	280
200	490	1330	1420	970	1130	1130	290	1130	290
300	590	1415	1535	1020	1170	1170	320	1170	320
500	690	1695	1835	1270	1420	1420	370	1420	370
800	830	1735	1925	1290	1440	1440	390	1440	390
1000	890	2025	2215	1560	1710	1710	410	1710	410
1500	1040	2125	2365	1615	1765	1765	465	1765	465
2000	1240	2215	2540	1660	1810	1810	510	1810	510
2500	1240	2465	2760	1910	2060	2060	510	2060	510
3000	1290	2735	3025	2175	2325	2325	525	2325	525
4000	1440	2825	3170	2220	2370	2370	570	2370	570
5000	1640	2885	3320	2250	2400	2400	600	2400	600

R*: Reversal quota

Cold Water Storage Tanks
VKS series (internal baffles)

The VKS series includes insulated tanks for chilled water, which are usually used to increase thermal inertia in Layout 2 cooling devices. They are equipped with internal baffles which prevent preferential flow in the tank by creating perfect conditions for temperature distribution. They are especially used with medium and high flows and with special versions in which the tank is to be connected with more than two circuits.



TESTED

Material: carbon steel

External covering

Model	Type	Usage
VKS	coloured PVC	indoor

Insulation

Capacity (l)	Type	Thick. (mm)
from 100 to 1000	High density rigid polyurethane foam	30
from 1500	Closed cell polyethylene foam	20

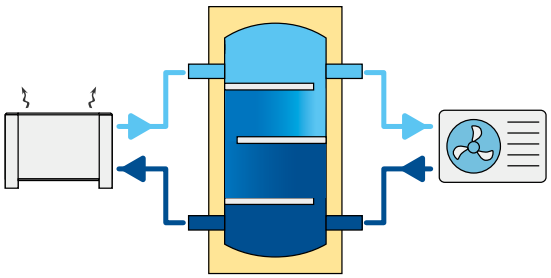
Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	60 °C	6 bar

Standard Accessories: see pag. 102

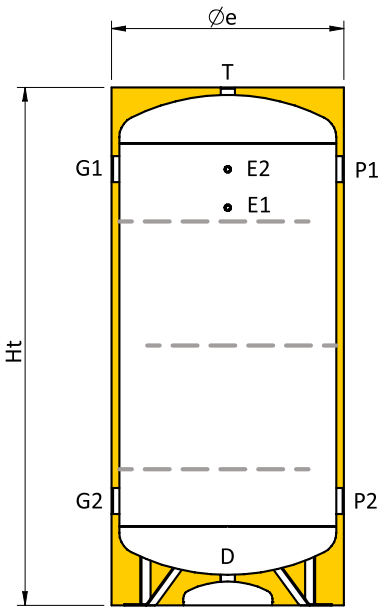
Special versions: see pag. 105

	VKS		Vertical Packaging	
Capacity l	Code	Price	Dimensions cm	Weight kg
100	816010166		49x49x107	26
200	816010167		54x54x146	37
300	816010168		64x64x155	50
500	816010169		74x74x184	85
800	816010170		88x88x186	113
1000	816010171		94x94x215	137
1500	816010172		107x107x228	193
2000	816010173		117x117x260	262
2500	816010174		132x132x240	283
3000	816010175		132x132x290	330
4000	816010176		147x147x297	487
5000	816010177		167x167x301	577

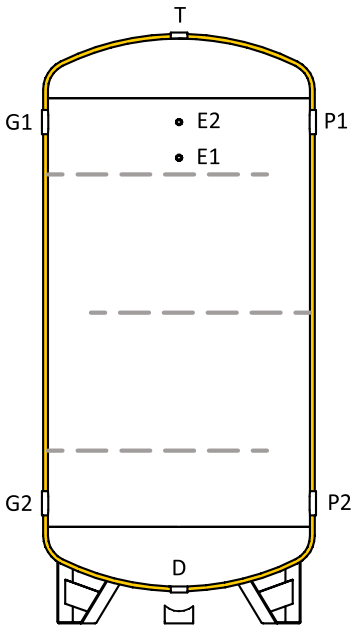


Cold Water Storage Tanks: Dimensions VKS series

100 ≤ cap. ≤ 1.000



1.500 ≤ cap. ≤ 5.000



Couplings legend

D	Drain
E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Capacity l	D inch	E1 inch	E2 inch	G1 inch	G2 inch	P1 inch	P2 inch	T inch
100	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
200	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
300	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
500	1"1/4	1/2"	1/2"	3"	3"	3"	3"	1"1/4
800	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1000	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1500	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2000	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2500	2"	1/2"	1/2"	4"	4"	4"	4"	2"
3000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
4000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
5000	2"	1/2"	1/2"	4"	4"	4"	4"	2"

Size chart

Capacity l	Øe mm	Ht mm	R* mm	D mm	E1 mm	E2 mm	G1 mm	G2 mm	P1 mm	P2 mm
100	460	950	1060	125	610	760	760	290	760	290
200	510	1335	1430	120	990	1140	1140	290	1140	290
300	610	1425	1555	130	1015	1165	1165	365	1165	365
500	710	1710	1855	135	1285	1435	1435	385	1435	385
800	850	1740	1940	125	1295	1445	1445	395	1445	395
1000	910	2025	2225	120	1560	1710	1710	410	1710	410
1500	1040	2160	2400	165	1650	1800	1800	500	1800	500
2000	1140	2480	2730	155	1955	2105	2105	505	2105	505
2500	1290	2275	2620	180	1715	1865	1865	565	1865	565
3000	1290	2775	3060	180	2215	2365	2365	565	2365	565
4000	1440	2845	3190	160	2240	2390	2390	590	2390	590
5000	1640	2885	3320	140	2250	2400	2400	600	2400	600

R*: Reversal quota

Cold Water Storage Tanks
VKR series (conveyor pipes)

The insulated VKR tanks for chilled water are usually used to increase the thermal inertia of the Layout 2 conditioning device with a medium or high flow. They are equipped with the double loop cooling device which create a preferential circuit inside the tank.



TESTED

Material: carbon steel

External covering

Model	Type	Usage
VKR	coloured PVC	indoor

Insulation

Capacity (l)	Type	Thick. (mm)
from 100 to 1000	High density rigid polyurethane foam	30
from 1500	Closed cell polyethylene foam	20

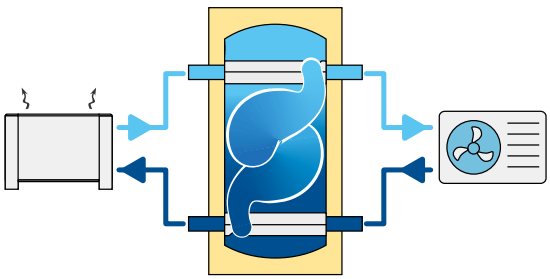
Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	60 °C	6 bar

Standard Accessories: see pag. 102

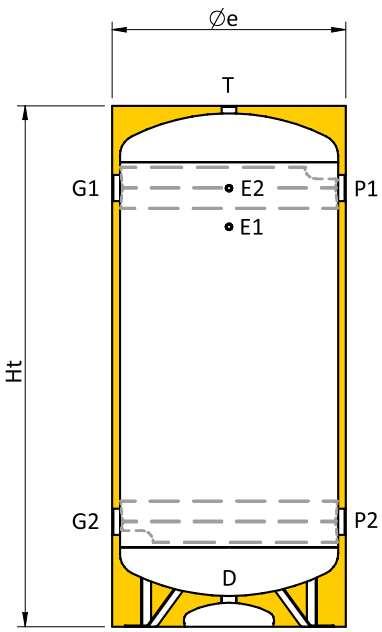
Special versions: see pag. 105

	VKR		Vertical Packaging	
Capacity l	Code	Price	Dimensions cm	Weight kg
100	816010154		49x49x107	26
200	816010155		54x54x146	37
300	816010156		64x64x155	50
500	816010157		74x74x184	85
800	816010158		88x88x186	113
1000	816010159		94x94x215	137
1500	816010160		107x107x228	193
2000	816010161		117x117x260	262
2500	816010162		132x132x240	283
3000	816010163		132x132x290	330
4000	816010164		147x147x297	487
5000	816010165		167x167x301	577

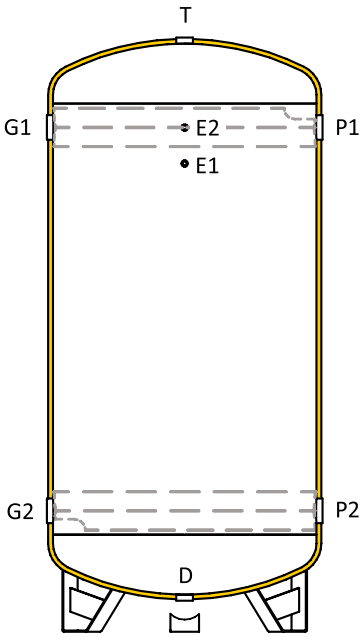


Cold Water Storage Tanks: Dimensions VKR series

100 ≤ cap. ≤ 1.000



1.500 ≤ cap. ≤ 5.000



Couplings legend

D	Drain
E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Capacity l	D inch	E1 inch	E2 inch	G1 inch	G2 inch	P1 inch	P2 inch	T inch
100	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
200	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
300	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
500	1"1/4	1/2"	1/2"	3"	3"	3"	3"	1"1/4
800	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1000	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1500	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2000	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2500	2"	1/2"	1/2"	4"	4"	4"	4"	2"
3000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
4000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
5000	2"	1/2"	1/2"	4"	4"	4"	4"	2"

Size chart

Capacity l	Øe mm	Ht mm	R* mm	D mm	E1 mm	E2 mm	G1 mm	G2 mm	P1 mm	P2 mm
100	460	950	1060	125	610	760	760	290	760	290
200	510	1335	1430	120	990	1140	1140	290	1140	290
300	610	1425	1555	130	1015	1165	1165	365	1165	365
500	710	1710	1855	135	1285	1435	1435	385	1435	385
800	850	1740	1940	125	1295	1445	1445	395	1445	395
1000	910	2025	2225	120	1560	1710	1710	410	1710	410
1500	1040	2160	2400	165	1650	1800	1800	500	1800	500
2000	1140	2480	2730	155	1955	2105	2105	505	2105	505
2500	1290	2275	2620	180	1715	1865	1865	565	1865	565
3000	1290	2775	3060	180	2215	2365	2365	565	2365	565
4000	1440	2845	3190	160	2240	2390	2390	590	2390	590
5000	1640	2885	3320	140	2250	2400	2400	600	2400	600

R*: Reversal quota

Cold Water Storage Tanks
VKD series (diffusing pipes)

The insulated VKD tanks for chilled water are usually used to increase thermal inertia of the Layout 2 conditioning device. They are equipped with diffuser pipes which connect the two circuits linked to the tank. Energy is supplied or subtracted through the diffuser's circumferential probes. In this way the mixing of fluids is significantly reduced.



Material: carbon steel

External covering

Model	Type	Usage
VKD	coloured PVC	indoor

Insulation

Capacity (l)	Type	Thick. (mm)
from 100 to 1000	High density rigid polyurethane foam	30
from 1500	Closed cell polyethylene foam	20

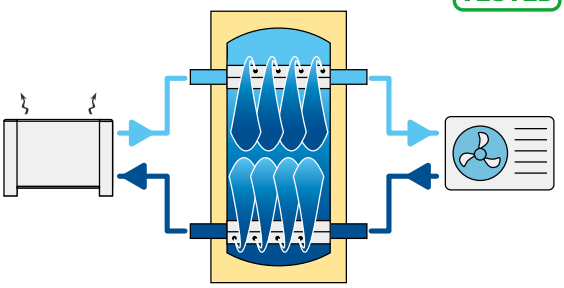
Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	60 °C	6 bar

Standard Accessories: see pag. 102

Special versions: see pag. 105

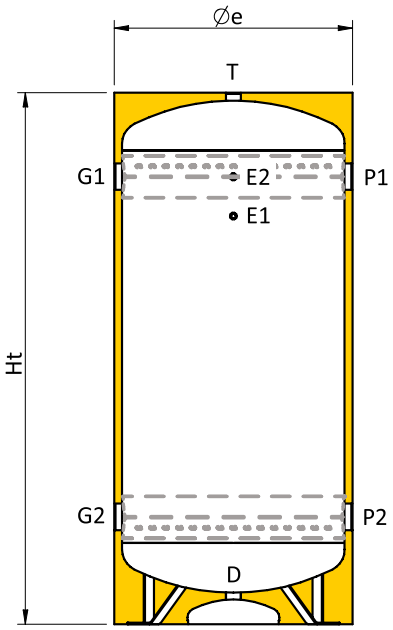
TESTED



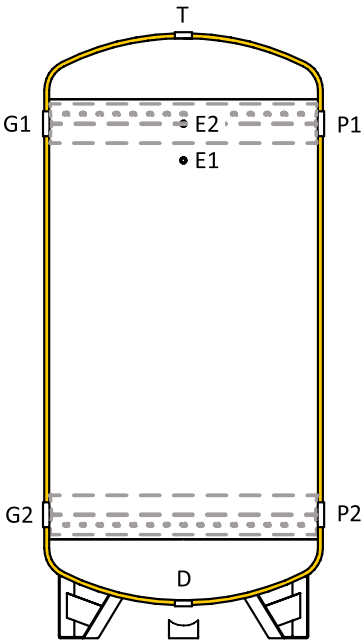
	VKD		Vertical Packaging	
Capacity l	Code	Price	Dimensions cm	Weight kg
100	816010417		49x49x107	26
200	816010418		54x54x146	37
300	816010419		64x64x155	50
500	816010420		74x74x184	85
800	816010421		88x88x186	113
1000	816010422		94x94x215	138
1500	816010423		107x107x228	193
2000	816010424		117x117x260	262
2500	816010425		132x132x240	283
3000	816010426		132x132x290	330
4000	816010427		147x147x297	487
5000	816010428		167x167x301	577

Cold Water Storage Tanks: Dimensions VKD series

100 ≤ cap. ≤ 1.000



1.500 ≤ cap. ≤ 5.000



Couplings legend

D	Drain
E1	Probe / Thermometer
E2	Probe / Thermometer
G1	From plant
G2	To plant
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Capacity l	D inch	E1 inch	E2 inch	G1 inch	G2 inch	P1 inch	P2 inch	T inch
100	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
200	1"1/4	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/4
300	1"1/4	1/2"	1/2"	2"	2"	2"	2"	1"1/4
500	1"1/4	1/2"	1/2"	3"	3"	3"	3"	1"1/4
800	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1000	1"1/2	1/2"	1/2"	3"	3"	3"	3"	1"1/2
1500	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2000	2"	1/2"	1/2"	3"	3"	3"	3"	2"
2500	2"	1/2"	1/2"	4"	4"	4"	4"	2"
3000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
4000	2"	1/2"	1/2"	4"	4"	4"	4"	2"
5000	2"	1/2"	1/2"	4"	4"	4"	4"	2"

Size chart

Capacity l	Øe mm	Ht mm	R* mm	D mm	E1 mm	E2 mm	G1 mm	G2 mm	P1 mm	P2 mm
100	460	950	1060	125	610	760	760	290	760	290
200	510	1335	1430	120	990	1140	1140	290	1140	290
300	610	1425	1555	130	1015	1165	1165	365	1165	365
500	710	1710	1855	135	1285	1435	1435	385	1435	385
800	850	1740	1940	125	1295	1445	1445	395	1445	395
1000	910	2025	2225	120	1560	1710	1710	410	1710	410
1500	1040	2160	2400	165	1650	1800	1800	500	1800	500
2000	1140	2480	2730	155	1955	2105	2105	505	2105	505
2500	1290	2275	2620	180	1715	1865	1865	565	1865	565
3000	1290	2775	3060	180	2215	2365	2365	565	2365	565
4000	1440	2845	3190	160	2240	2390	2390	590	2390	590
5000	1640	2885	3320	140	2250	2400	2400	600	2400	600

R*: Reversal quota

PUFFER
Hot 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).



TESTED

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

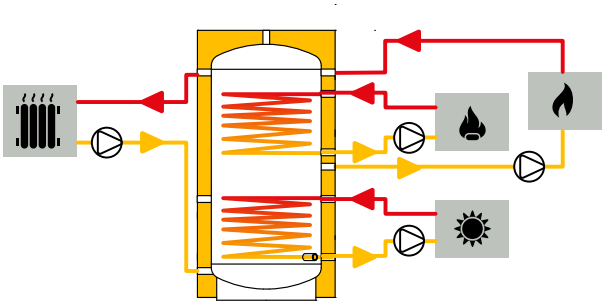
Insulation

Capacity (l)	Type
from 300 to 1000	Highly rigid polyurethane foam
from 1500 to 5000	Polyester Fiber
from 6000	Flexible polyurethane foam

Operational limits

Model	Storage tank		S1 Coil Circuit		S2 Coil Circuit	
	max. temperature	max. pressure	max. temperature	max. pressure	max. temperature	max. pressure
PFA	95°C	6 bar	-	-	-	-
PFB	95°C	6 bar	99°C	9 bar	-	-
PFC	95°C	6 bar	99°C	9 bar	99°C	9 bar

Standard Accessories: see pag 102
Special versions: see pag 105



PUFFER
Product code

PFA series

capacity l	code	price	energy label	packed dimensions cm	packed weight kg
300	817010119X		B	64x64x180	55
500	817010120X		C	77x77x184	77
750	817010216X		C	95x95x178	109
1000	817010002		C	129x129x216	125
1500	817010003		C	125x125x229	194
2000	817010004		C	136x136x261	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

*Shipping by container requires open top containers

PFB series

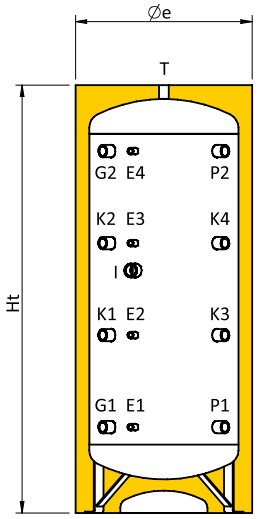
capacity l	code	price	energy label	packed dimensions cm	packed weight kg
300	819010129X		B	64x64x180	65
500	819010130X		C	77x77x184	98
750	819010202X		C	95x95x178	137
1000	819010003		C	129x129x216	153
1500	819010004		C	125x125x229	237
2000	819010005		C	136x136x261	315
2500	819010135X			147x147x234	352
3000	819010136X			147x147x284	413
4000	819010137X			163x163x293	571
5000	819010138X			183x183x299	672

PFC series

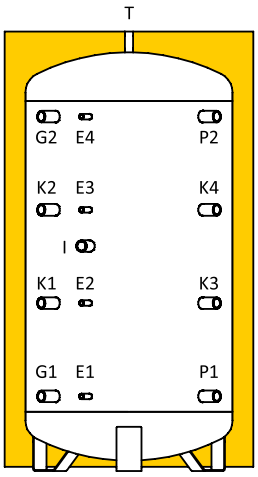
capacity l	code	price	energy label	packed dimensions cm	packed weight kg
300	819010149X		B	64x64x180	77
500	819010150X		C	77x77x184	111
750	819010203X		C	95x95x178	154
1000	819010006		C	129x129x216	181
1500	819010007		C	125x125x229	268
2000	819010008		C	136x136x261	346
2500	819010155X			147x147x234	383
3000	819010156X			147x147x284	460
4000	819010157X			163x163x293	628
5000	819010158X			183x183x299	730

PUFFER
Size PFA

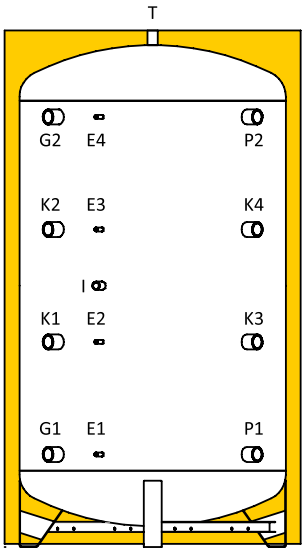
300 ≤ cap. ≤ 1.000



1.500 ≤ cap. ≤ 5.000



6.00 ≤ cap. ≤ 10.000



Couplings legend

E1	Probe / Thermometer
E2	Probe / Thermometer
E3	Probe / Thermometer
E4	Probe / Thermometer
G1	From plant
G2	To plant
I	Electrical resistor
K1	Auxiliary
K2	Auxiliary
K3	Auxiliary
K4	Auxiliary
P1	To energy source
P2	From energy source
T	Vent

Couplings chart

Cap. l	E1 inch	E2 inch	E3 inch	E4 inch	G1 inch	G2 inch	I inch	K1 inch	K2 inch	K3 inch	K4 inch	P1 inch	P2 inch	T inch
300	1/2"	1/2"	1/2"	1/2"	1"1/4	1"1/4	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4
500	1/2"	1/2"	1/2"	1/2"	1"1/4	1"1/4	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4
750	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
1000	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
1500	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"
2000	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"
2500	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	2"	2"	1"
3000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	2"	2"	1"
4000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	2"	2"	1"
5000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	2"	2"	1"
6000	1/2"	1/2"	1/2"	1/2"	3"	3"	1"1/2	3"	3"	3"	3"	3"	3"	2"
8000	1/2"	1/2"	1/2"	1/2"	3"	3"	1"1/2	3"	3"	3"	3"	3"	3"	2"
10000	1/2"	1/2"	1/2"	1/2"	3"	3"	1"1/2	3"	3"	3"	3"	3"	3"	2"

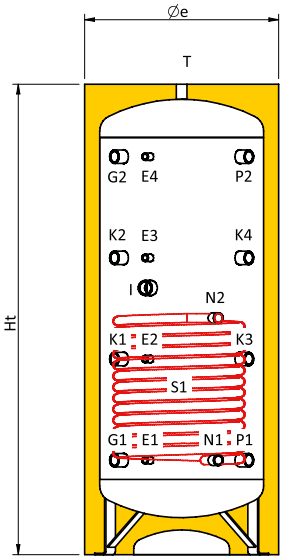
Size chart

Cap. l	Øe mm	Ht mm	R* mm	E1 mm	E2 mm	E3 mm	E4 mm	G1 mm	G2 mm	I mm	K1 mm	K2 mm	K3 mm	K4 mm	P1 mm	P2 mm
300	610	1680	1790	325	695	1065	1435	325	1435	880	695	1065	695	1065	325	1435
500	760	1735	1895	355	725	1095	1465	355	1465	985	725	1095	725	1095	355	1465
750	910	1765	1990	395	745	1095	1445	395	1445	920	745	1095	745	1095	395	1445
1000	1010	2000	2245	330	770	1210	1650	330	1650	990	770	1210	770	1210	330	1650
1500	1250	2145	2475	360	810	1260	1710	360	1710	1085	810	1260	810	1260	360	1710
2000	1350	2475	2815	390	930	1470	2010	390	2010	1200	930	1470	930	1470	390	2010
2500	1450	2220	2655	425	865	1305	1745	425	1745	1145	865	1305	865	1305	425	1745
3000	1450	2720	3085	435	1035	1635	2235	435	2235	1435	1035	1635	1035	1635	435	2235
4000	1600	2810	3235	480	1080	1680	2280	480	2280	1430	1080	1680	1080	1680	480	2280
5000	1800	2870	3390	510	1110	1710	2310	510	2310	1510	1110	1710	1110	1710	510	2310
6000	2000	2790	3435	635	1155	1675	2195	635	2195	1415	1155	1675	1155	1675	635	2195
8000	2000	3490	4025	625	1385	2145	2905	625	2905	1615	1385	2145	1385	2145	625	2905
10000	2000	4240	4690	625	1635	2645	3655	625	3655	2365	1635	2645	1635	2645	625	3655

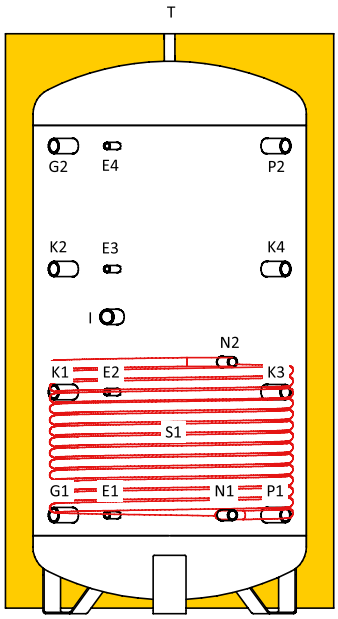
R*: reversal quota

PUFFER
Size PFB

300 ≤ cap. ≤ 1.000



1.500 ≤ cap. ≤ 5.000



Couplings legend

E1	Probe / Thermometer
E2	Probe / Thermometer
E3	Probe / Thermometer
E4	Probe / Thermometer
G1	Ingresso da impianto
G2	To plant
I	Electrical resistor
K1	Auxiliary
K2	Auxiliary
K3	Auxiliary
K4	Auxiliary
N1	Lower exchanger outlet
N2	Lower exchanger inlet
P1	To energy source
P2	Ingresso da fonte energetica
S1	From energy source
T	Vent

Couplings chart

Cap. l	E1 inch	E2 inch	E3 inch	E4 inch	G1 inch	G2 inch	I inch	K1 inch	K2 inch	K3 inch	K4 inch	N1 inch	N2 inch	P1 inch	P2 inch	T inch
300	1/2"	1/2"	1/2"	1/2"	1"1/4	1"1/4	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4	1"	1"	1"1/4	1"1/4	1"1/4
500	1/2"	1/2"	1/2"	1/2"	1"1/4	1"1/4	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4	1"	1"	1"1/4	1"1/4	1"1/4
750	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2
1000	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2
1500	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"
2000	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"
2500	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	1"	1"	2"	2"	1"
3000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	1"	1"	2"	2"	1"
4000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	1"	1"	2"	2"	1"
5000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	1"	1"	2"	2"	1"

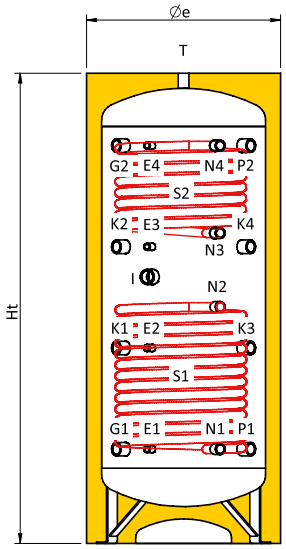
Size chart

Cap. l	Øe mm	Ht mm	R* mm	E1 mm	E2 mm	E3 mm	E4 mm	G1 mm	G2 mm	I mm	K1 mm	K2 mm	K3 mm	K4 mm	N1 mm	N2 mm	P1 mm	P2 mm	S1 m²
300	610	1680	1790	325	695	1065	1435	325	1435	880	695	1065	695	1065	325	685	325	1435	1
500	760	1735	1895	355	725	1095	1465	355	1465	985	725	1095	725	1095	355	875	355	1465	1,9
750	910	1765	1990	395	745	1095	1445	395	1445	920	745	1095	745	1095	395	875	395	1445	2,5
1000	1010	2000	2245	330	770	1210	1650	330	1650	990	770	1210	770	1210	330	890	330	1650	3,1
1500	1250	2145	2475	360	810	1260	1710	360	1710	1085	810	1260	810	1260	360	920	360	1710	3,8
2000	1350	2475	2815	390	930	1470	2010	390	2010	1200	930	1470	930	1470	390	990	390	2010	4,6
2500	1450	2220	2655	425	865	1305	1745	425	1745	1145	865	1305	865	1305	425	985	425	1745	5
3000	1450	2720	3085	435	1035	1635	2235	435	2235	1435	1035	1635	1035	1635	435	1115	435	2235	6
4000	1600	2810	3235	480	1080	1680	2280	480	2280	1430	1080	1680	1080	1680	480	1160	480	2280	7
5000	1800	2870	3390	510	1110	1710	2310	510	2310	1510	1110	1710	1110	1710	510	1190	510	2310	8

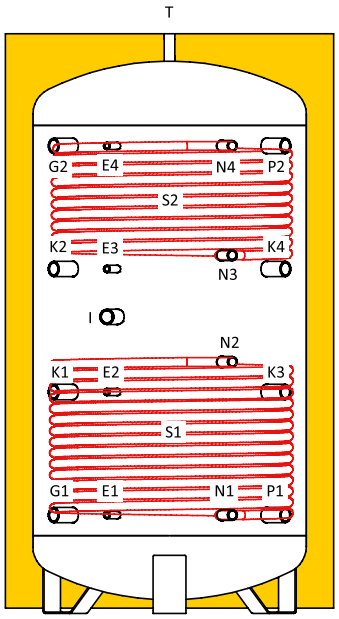
R*: reversal quota

PUFFER
Size PFC

300 ≤ cap. ≤ 1.000



1.500 ≤ cap. ≤ 5.000



Couplings legend

E1	Probe / Thermometer
E2	Probe / Thermometer
E3	Probe / Thermometer
E4	Probe / Thermometer
G1	From plant
G2	To plant
I	Electrical resistor
K1	Auxiliary
K2	Auxiliary
K3	Auxiliary
K4	Auxiliary
N1	Lower exchanger outlet
N2	Lower exchanger inlet
N3	Upper exchanger outlet
N4	Upper exchanger inlet
P1	To energy source
P2	From energy source
S1	Lower exchanger
S2	Upper exchanger
T	Vent

Couplings chart

Cap. l	E1 inch	E2 inch	E3 inch	E4 inch	G1 inch	G2 inch	I inch	K1 inch	K2 inch	K3 inch	K4 inch	N1 inch	N2 inch	N3 inch	N4 inch	P1 inch	P2 inch	T inch
300	1/2"	1/2"	1/2"	1/2"	1"1/4	1"1/4	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4	1"	1"	1"	1"	1"1/4	1"1/4	1"1/4
500	1/2"	1/2"	1/2"	1/2"	1"1/4	1"1/4	1"1/2	1"1/4	1"1/4	1"1/4	1"1/4	1"	1"	1"	1"	1"1/4	1"1/4	1"1/4
750	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2
1000	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2
1500	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"
2000	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"
2500	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	1"	1"	1"	1"	2"	2"	1"
3000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	1"	1"	1"	1"	2"	2"	1"
4000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	1"	1"	1"	1"	2"	2"	1"
5000	1/2"	1/2"	1/2"	1/2"	2"	2"	1"1/2	2"	2"	2"	2"	1"	1"	1"	1"	2"	2"	1"

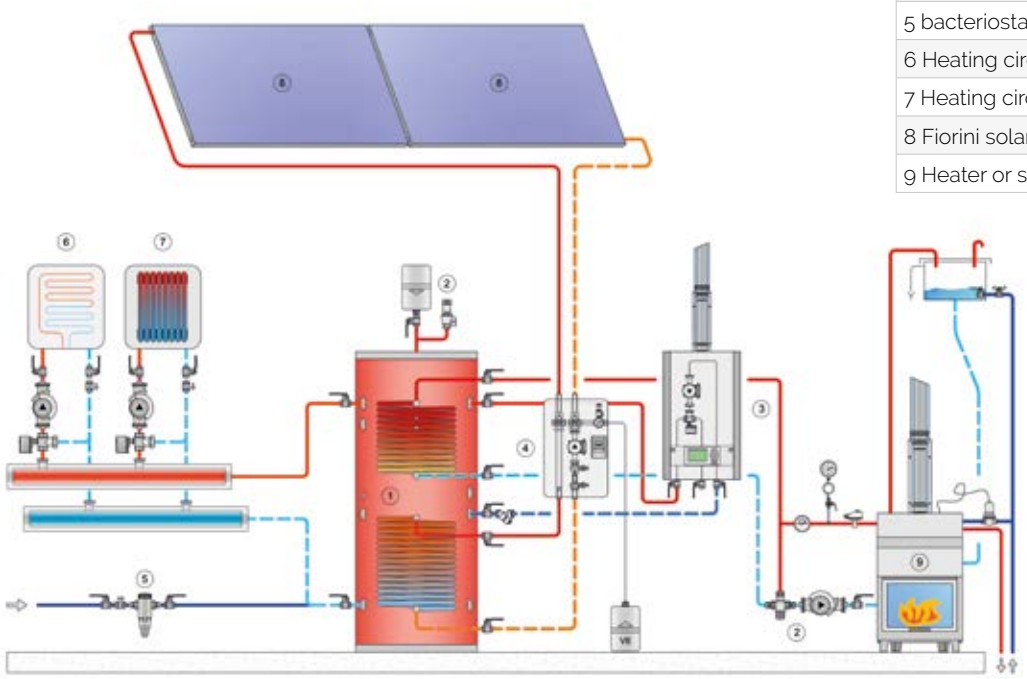
Size chart

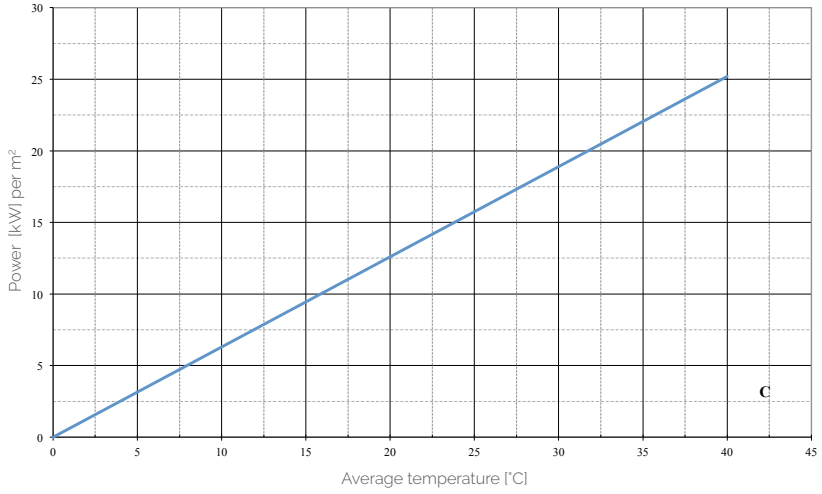
Cap. l	Øe mm	Ht mm	R* mm	E1 mm	E2 mm	E3 mm	E4 mm	G1 mm	G2 mm	I mm	K1 mm	K2 mm	K3 mm	K4 mm	N1 mm	N2 mm	N3 mm	N4 mm	P1 mm	P2 mm	S1 m²	S2 m²
300	610	1680	1790	325	695	1065	1435	325	1435	880	695	1065	695	1065	325	685	685	1075	325	1435	1	1
500	760	1735	1895	355	725	1095	1465	355	1465	985	725	1095	725	1095	355	875	1145	1465	355	1465	1,9	1,2
750	910	1765	1990	395	745	1095	1445	395	1445	920	745	1095	745	1095	395	875	1165	1445	395	1445	2,5	1,5
1000	1010	2000	2245	330	770	1210	1650	330	1650	990	770	1210	770	1210	330	890	1210	1650	330	1650	3,1	2,5
1500	1240	2140	2475	360	810	1260	1710	360	1710	1085	810	1260	810	1260	360	920	920	1310	360	1710	3,8	2,8
2000	1340	2470	2815	390	930	1470	2010	390	2010	1200	930	1470	930	1470	390	990	990	1650	390	2010	4,6	2,8
2500	1450	2220	2655	425	865	1305	1745	425	1745	1145	865	1305	865	1305	425	985	985	1305	425	1745	5	4
3000	1450	2720	3085	435	1035	1635	2235	435	2235	1435	1035	1635	1035	1635	435	1115	1115	1755	435	2235	6	4,2
4000	1600	2810	3235	480	1080	1680	2280	480	2280	1430	1080	1680	1080	1680	480	1160	1160	1800	480	2280	7	5
5000	1800	2870	3390	510	1110	1710	2310	510	2310	1510	1110	1710	1110	1710	510	1190	1190	1910	510	2310	8	5

R*: reversal quota

PUFFER
Installation chart

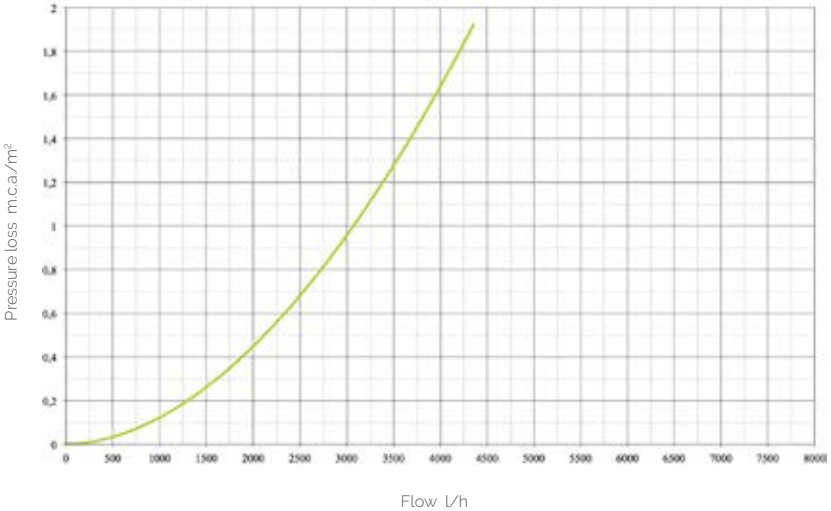
List of components
1 PFC Fiorini Puffer
2 Safety unit
3 Heating by alternative source
4 solar thermal return unit
5 bacteriostatic cold water filter
6 Heating circuit 1
7 Heating circuit 2
8 Fiorini solar collectors
9 Heater or stove with open vessel





Fixed coil power

The chart indicates maximum exchanged power by the fix internal coil depending on the temperature difference between water into the coil and water into 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.

COMBI PLUS
Combi storage tank

The COMBI PLUS range consists of inertial tanks for installations which use discontinuous energy sources, such as solar power systems, biomass systems and wood burning systems. Thanks to the internal exchanger with a stainless steel corrugated tube with a large surface, the instantaneous DHW production is guaranteed. There are three versions of which several capacities are available, from 500 to 2000 litres.



TESTED

COMBI PLUS A: equipped with n°1 internal fixed exchanger with a stainless steel corrugated tube for instantaneous DHW production

COMBI PLUS B: equipped with n°2 internal fixed heat exchangers, one with a stainless steel corrugated tube for instantaneous DHW production and another for coupling to an additional heat source.

COMBI PLUS C: equipped with n°3 internal fixed heat exchangers, one with a stainless steel corrugated tube for instantaneous DHW production and two in carbon steel for coupling to other additional heat sources

Materials

The inertial tanks are made of high quality material, in particular:
Coil for domestic use: AISI 316L stainless steel
Tank and integration coil: S 235 JR carbon steel

External protective treatment: enamelling with industrial varnish

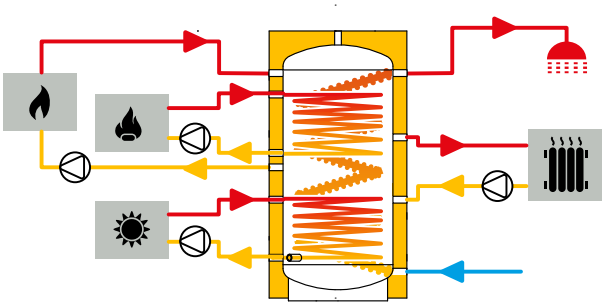
Insulation

Capacity (l)	Type
500	Highly rigid polyurethane foam
from 600 to 2000	Polyester Fiber

Operational limits

Storage tank		S1-S2-S3 Coil Circuit	
max. temperature	max. pressure	max. temperature	max. pressure
95°C	3 bar	110°C	10 bar

Standard accessories: see pag 102
Special versions: see pag 105



COMBI PLUS
Combi storage tank

COMBI PLUS A

capacity l	code	price	energy label	packed dimensions cm	packed weight kg
500	842020184X		C	100X100X178	125
600	842020185X		C	100X100X185	135
750	842020186X		C	100X100X191	160
1000	842020187X		C	100X100X224	190
1250	842020188X		C	120X120X221	225
1500	842020189X		C	120X120X235	250
2000	842020190X		C	140X140X257	350

COMBI PLUS B

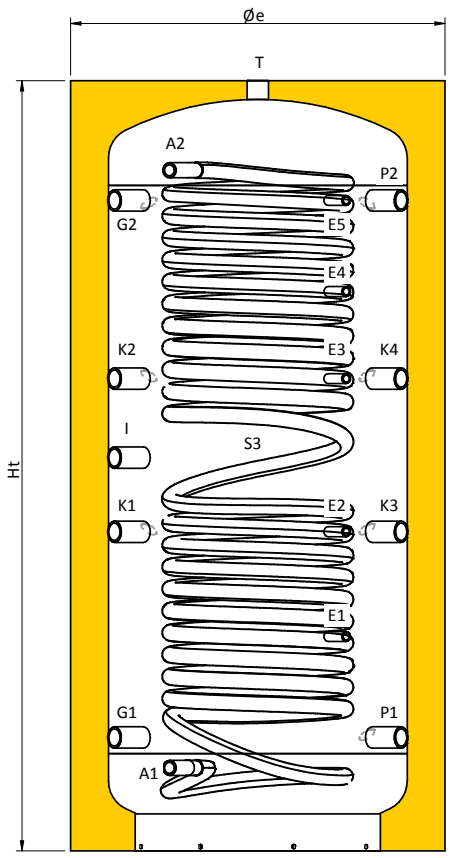
capacity l	code	price	energy label	packed dimensions cm	packed weight kg
500	842020191X		C	100X100X178	150
600	842020192X		C	100X100X185	165
750	842020193X		C	100X100X191	190
1000	842020194X		C	100X100X224	230
1250	842020195X		C	120X120X221	265
1500	842020196X		C	120X120X235	300
2000	842020197X		C	140X140X257	410

COMBI PLUS C

capacity l	code	price	energy label	packed dimensions cm	packed weight kg
500	842020198X		C	100X100X178	165
600	842020199X		C	100X100X185	180
750	842020200X		C	100X100X191	215
1000	842020201X		C	100X100X224	265
1250	842020202X		C	120X120X221	295
1500	842020203X		C	120X120X235	335
2000	842020204X		C	140X140X257	455

COMBI PLUS A
Dimensions

500 ≤ cap. ≤ 2.000



Couplings legend

A1	DHW inlet
A2	DHW outlet
E1	Probe / Thermometer
E2	Probe / Thermometer
E3	Probe / Thermometer
E4	Probe / Thermometer
E5	Probe / Thermometer
G1	From plant
G2	To plant
I	Electrical resistor
K1	Auxiliary
K2	Auxiliary
K3	Auxiliary
K4	Auxiliary
P1	To energy source
P2	From energy source
S3	DHW exchanger
T	Vent

Couplings chart

Cap. l	A1 inch	A2 inch	E1 inch	E2 inch	E3 inch	E4 inch	E5 inch	G1 inch	G2 inch	I inch	K1 inch	K2 inch	K3 inch	K4 inch	P1 inch	P2 inch	T inch
500	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
600	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
750	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
1000	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
1250	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
1500	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
2000	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2

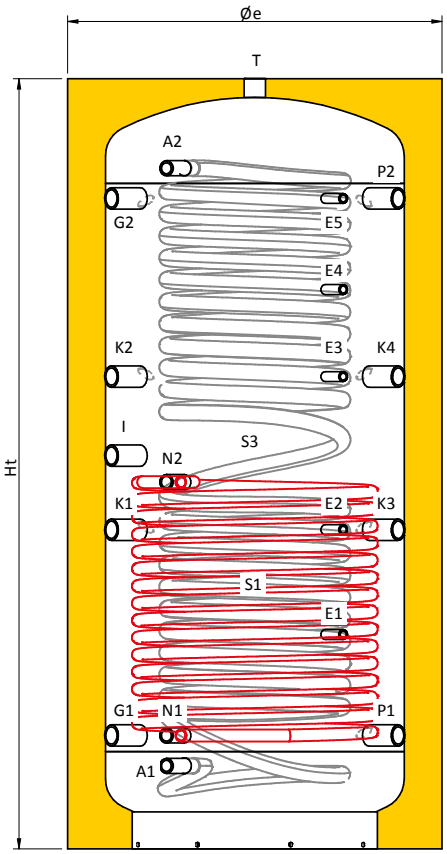
Size chart

Cap. l	Øe mm	Ht mm	R* mm	A1 mm	A2 mm	E1 mm	E2 mm	E3 mm	E4 mm	E5 mm	G1 mm	G2 mm	I mm	K1 mm	K2 mm	K3 mm	K4 mm	P1 mm	P2 mm	S3 m²
500	750	1630	1795	135	1455	420	650	970	1190	1380	210	1380	820	650	970	650	970	210	1380	4
600	900	1700	1925	150	1470	405	595	995	1215	1395	225	1395	805	595	995	595	995	225	1395	4
750	990	1760	2020	180	1500	440	625	1025	1225	1425	255	1425	865	625	1025	625	1025	255	1425	6
1000	990	2090	2315	220	1800	570	845	1250	1480	1720	300	1720	1040	845	1250	845	1250	300	1720	7,5
1250	1150	2060	2360	210	1790	550	785	1240	1470	1700	300	1700	1085	785	1240	785	1240	300	1700	7,5
1500	1200	2200	2510	260	1840	610	900	1285	1525	1750	350	1750	1130	900	1285	900	1285	350	1750	10
2000	1350	2420	2750	235	2115	645	960	1490	1780	2025	325	2025	1215	960	1490	960	1490	325	2025	10

R*: reversal quota

COMBI PLUS B
Dimensions

500 ≤ cap. ≤ 2.000



Couplings legend

A1	DHW inlet
A2	DHW outlet
E1	Probe / Thermometer
E2	Probe / Thermometer
E3	Probe / Thermometer
E4	Probe / Thermometer
E5	Probe / Thermometer
G1	From plant
G2	To plant
I	Electrical resistor
K1	Auxiliary
K2	Auxiliary
K3	Auxiliary
K4	Auxiliary
N1	Lower exchanger outlet
N2	Lower exchanger inlet
P1	To energy source
P2	From energy source
S1	Lower exchanger
S3	DHW exchanger
T	Vent

Couplings chart

Cap. l	A1 inch	A2 inch	E1 inch	E2 inch	E3 inch	E4 inch	E5 inch	G1 inch	G2 inch	I inch	K1 inch	K2 inch	K3 inch	K4 inch	N1 inch	N2 inch	P1 inch	P2 inch	T inch
500	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2
600	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2
750	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2
1000	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2
1250	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2
1500	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2
2000	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"1/2	1"1/2	1"1/2

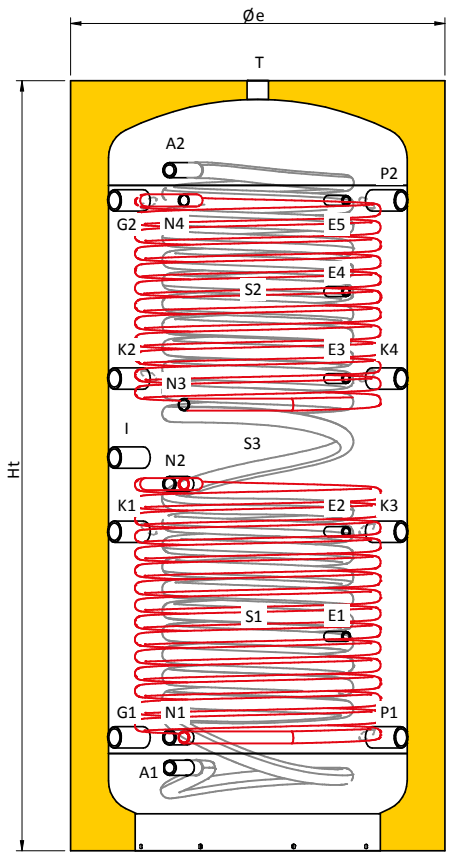
Size chart

Cap. l	Øe mm	Ht mm	R* mm	A1 mm	A2 mm	E1 mm	E2 mm	E3 mm	E4 mm	E5 mm	G1 mm	G2 mm	I mm	K1 mm	K2 mm	K3 mm	K4 mm	N1 mm	N2 mm	P1 mm	P2 mm	S1 m²	S3 m²
500	750	1630	1795	135	1455	420	650	970	1190	1380	210	1380	820	650	970	650	970	210	720	210	1380	1,8	4
600	900	1700	1925	150	1470	405	595	995	1215	1395	225	1395	805	595	995	595	995	225	725	225	1395	1,8	4
750	990	1760	2020	180	1500	440	625	1025	1225	1425	255	1425	865	625	1025	625	1025	255	800	255	1425	2,4	6
1000	990	2090	2315	220	1800	570	845	1250	1480	1720	300	1720	1040	845	1250	845	1250	300	970	300	1720	3	7,5
1250	1150	2060	2360	210	1790	550	785	1240	1470	1700	300	1700	1085	785	1240	785	1240	300	970	300	1700	3	7,5
1500	1200	2200	2510	260	1840	610	900	1285	1525	1750	350	1750	1130	900	1285	900	1285	350	1000	350	1750	3,6	10
2000	1350	2420	2750	235	2115	645	960	1490	1780	2025	325	2025	1215	960	1490	960	1490	325	1105	325	2025	4,2	10

R*: reversal quota

COMBI PLUS C
Dimensions

500 ≤ cap. ≤ 2.000



Couplings legend

A1	DHW inlet
A2	DHW outlet
E1	Probe / Thermometer
E2	Probe / Thermometer
E3	Probe / Thermometer
E4	Probe / Thermometer
E5	Probe / Thermometer
G1	From plant
G2	To plant
I	Electrical resistor
K1	Auxiliary
K2	Auxiliary
K3	Auxiliary
K4	Auxiliary
N1	Lower exchanger outlet
N2	Lower exchanger inlet
N3	Upper exchanger outlet
N4	Upper exchanger inlet
P1	To energy source
P2	From energy source
S1	Lower exchanger
S2	Upper exchanger
S3	DHW exchanger
T	Vent

Couplings chart

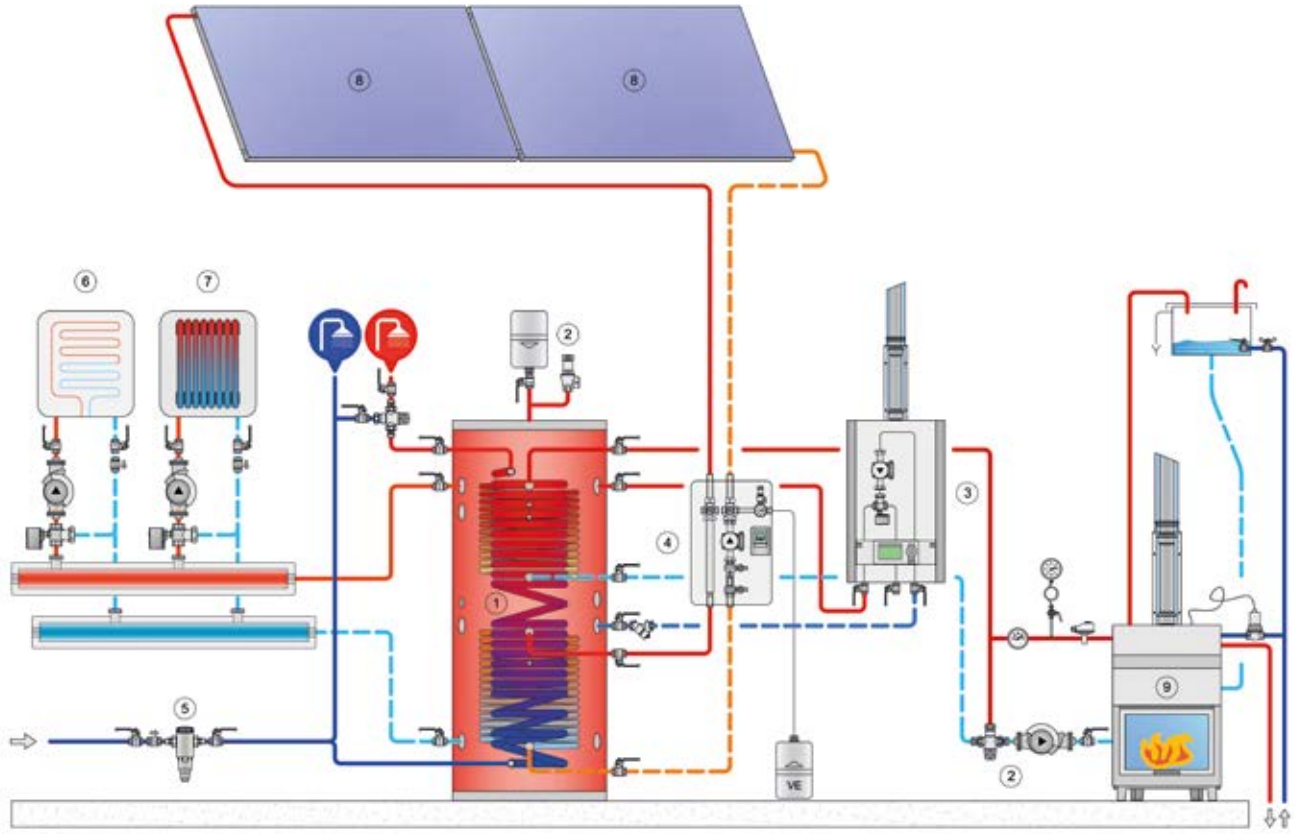
Cap. l	A1 inch	A2 inch	E1 inch	E2 inch	E3 inch	E4 inch	E5 inch	G1 inch	G2 inch	I inch	K1 inch	K2 inch	K3 inch	K4 inch	N1 inch	N2 inch	N3 inch	N4 inch	P1 inch	P2 inch	T inch
500	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2
600	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2
750	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2
1000	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2
1250	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2
1500	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2
2000	1"M	1"M	1/2"	1/2"	1/2"	1/2"	1/2"	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"	1"	1"	1"	1"1/2	1"1/2	1"1/2

Size chart

Cap. l	Øe mm	Ht mm	R* mm	A1 mm	A2 mm	E1 mm	E2 mm	E3 mm	E4 mm	E5 mm	G1 mm	G2 mm	I mm	K1 mm	K2 mm	K3 mm	K4 mm	N1 mm	N2 mm	N3 mm	N4 mm	P1 mm	P2 mm	S1 m²	S2 m²	S3 m²
500	750	1630	1795	135	1455	420	650	970	1190	1380	210	1380	820	650	970	650	970	210	720	980	1380	210	1380	1,8	1,2	4
600	900	1700	1925	150	1470	405	595	995	1215	1395	225	1395	805	595	995	595	995	225	725	995	1345	225	1395	1,8	1,2	4
750	990	1760	2020	180	1500	440	625	1025	1225	1425	255	1425	865	625	1025	625	1025	255	800	1025	1385	255	1425	2,4	1,8	6
1000	990	2090	2315	220	1800	570	845	1250	1480	1720	300	1720	1040	845	1250	845	1250	300	970	1180	1720	300	1720	3	2,4	7,5
1250	1150	2060	2360	210	1790	550	785	1240	1470	1700	300	1700	1085	785	1240	785	1240	300	970	1160	1700	300	1700	3	2,4	7,5
1500	1200	2200	2510	260	1840	610	900	1285	1525	1750	350	1750	1130	900	1285	900	1285	350	1000	1240	1750	350	1750	3,6	2,4	10
2000	1350	2420	2750	235	2115	645	960	1490	1780	2025	325	2025	1215	960	1490	960	1490	325	1105	1475	2025	325	2025	4,2	3	10

R*: reversal quota

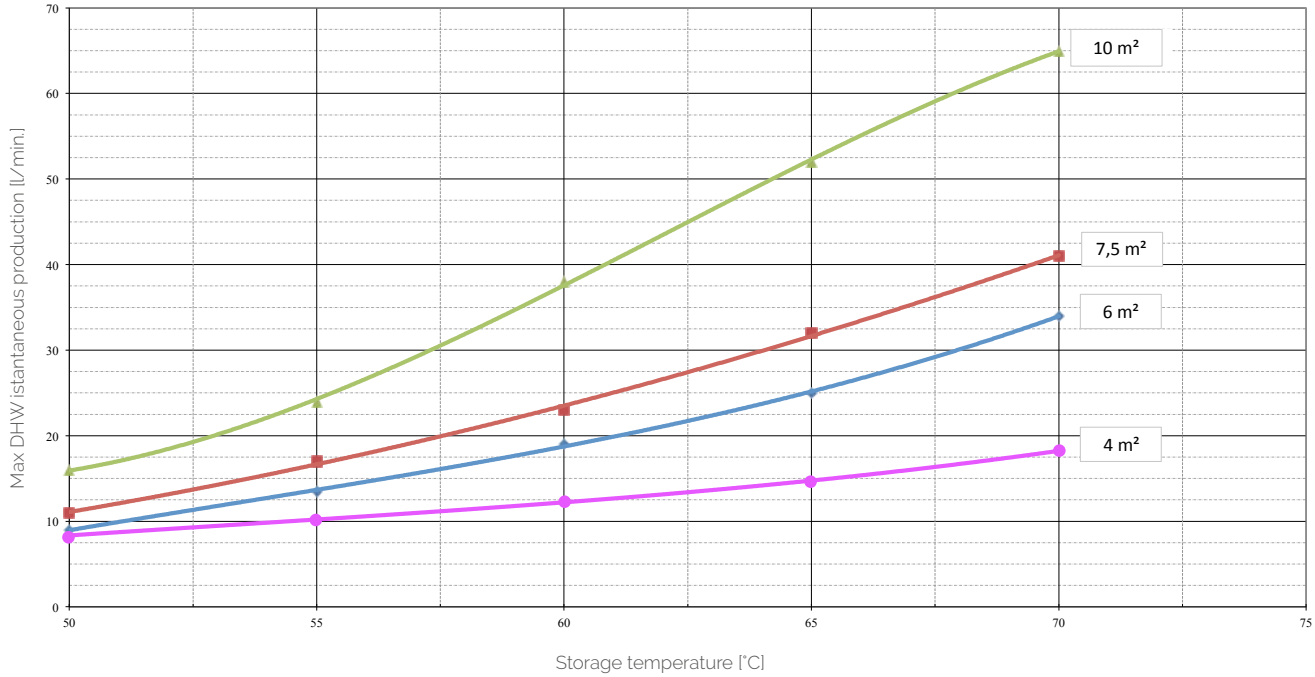
COMBI PLUS
Installation chart



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

COMBI PLUS
Performace

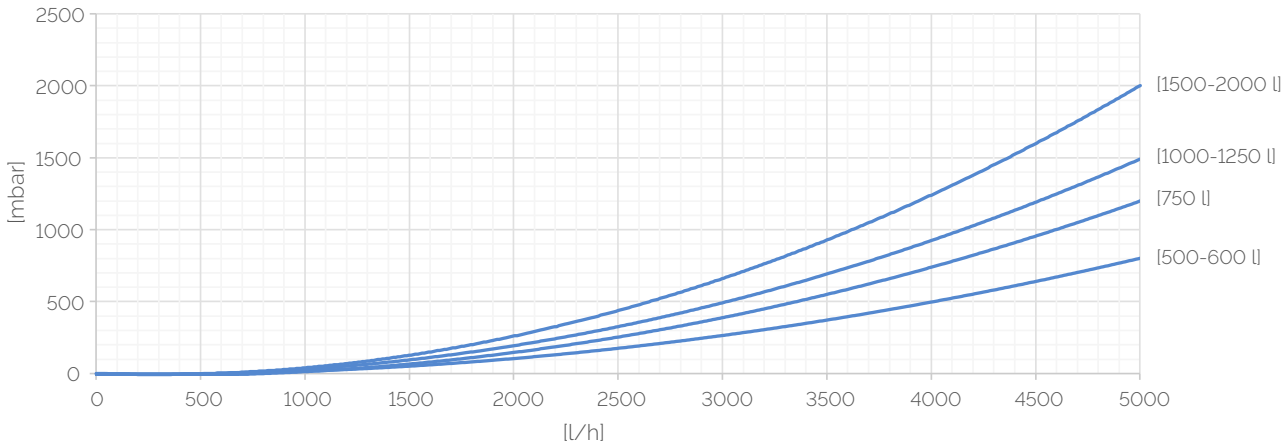
Performance of DHW exchanger



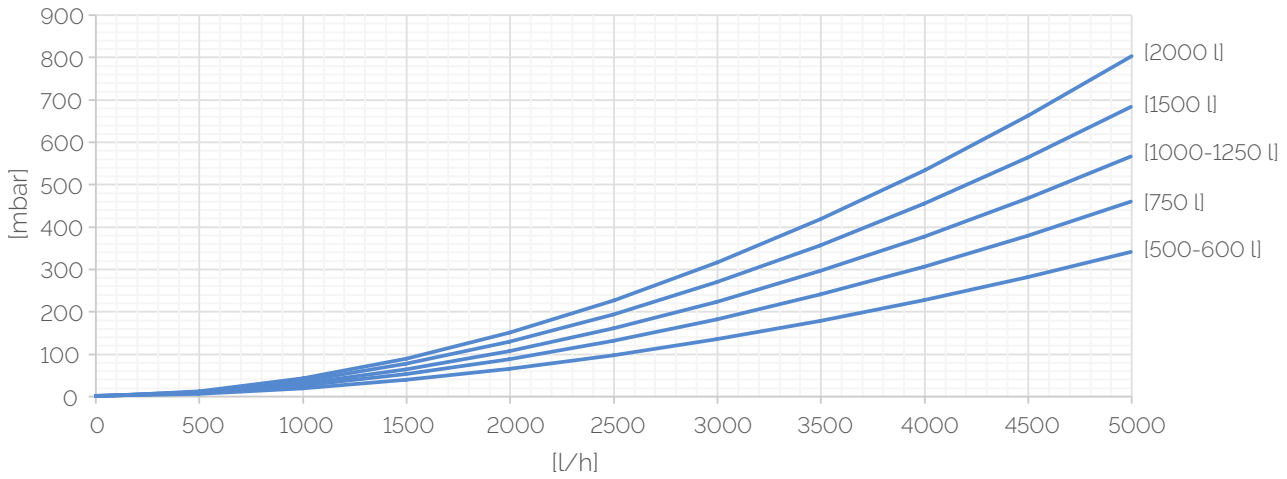
The graph shows the maximum instantaneous production of DHW (10-45 ° C) through the stainless steel coil as a function of the water storage temperature.

COMBI PLUS
Pressure loss

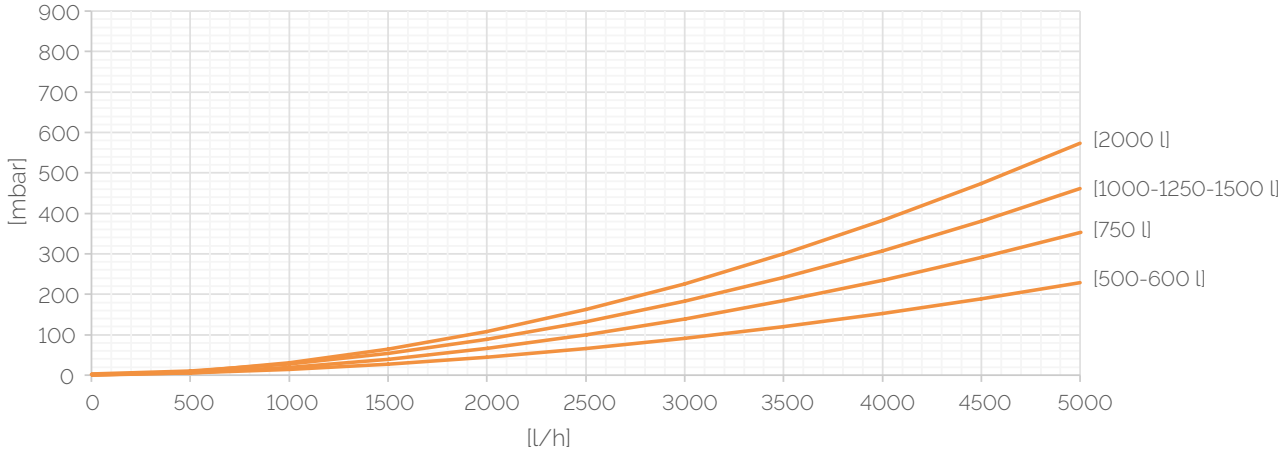
Pressure loss of DHW exchanger



Pressure loss of lower exchanger



Pressure loss of upper exchanger



Standard Accessories for Inertial Tanks

Anode replacement



Capacity	Description	Code	Price
200-300l	ISOLATED ANODE 22X400 + PLUG	R22100012	
500-3000l	ISOLATED ANODE 33X500 + PLUG	R22100013	
6000-10000 l	ISOLATED ANODE 33X500 + PLUG	R22100013	

Anode replacement with simpletest

Capacity	Description	Code	Price
200-300l	ANODE SIMPLETEST 22X400 T<"1/4	R22100006	
500-3000l	ANODE SIMPLETEST 33X500 T 1"1/4	R22100008	
6000-10000 l	ANODE SIMPLETEST 33X500 T 1"1/4	R22100008	

Spare parts compatible with all standard tanks and water heaters from the Flexy, Smart, and Boil families, both enamelled and stainless steel.

Current impressed cathodic protection (2021 version)





Description	Length (mm)	Code	Price
Up to 1000 litres	450	822100014	
From 1500 to 5000 litres	750	822100015	

New 2021 version:

- Separate components (Power supply and cable)
- Working time indicator
- "Anti Hydrogen" protection system
- Alarm signals: Anode Disconnected; Short circuit; Anomalies Protection (possibility of remote control of alarms via dedicated port).

Thermometer



Description	Code	Price
thermometer for hot water	C22050001	
thermometer for cold water	C22050004	

Thermostats





Description	Temperature range	Safety range	Code	Price
Thermostat	0 ÷ 90 °C	-	C22010004	
Contact thermostat	30 ÷ 90 °C	-	822010050	
Bithermostat	0 ÷ 90 °C	fix 100 °C	C22010006	
Antifreeze Bithermostat	-30 ÷ 30 °C	0 ÷ 90 °C	C22010007	

Standard Accessories for Inertial Tanks

Single-phase electrical heaters that can be integrated with the boilers, copper heating elements, safety thermostat (manual reset), electric cable and Schuko plug 16A/250V



Code	Price	Power W	Length L mm	Connection GAS M	Temperature safety thermostat °C	Tension V	Max. sleeve length mm	Protection class	Regulating thermostat °C
C24100166		1200	290	1"1/2	95	220-240 V SINGLE PHASE	55	IP44	20-70
C24100167		2000	295	1"1/2	95			IP54	20-65
C24100168		3000	345	1"1/2	95			IP54	20-65
C24100178		3000	413	1"1/4	85			IP44	20-70

Three-phase electrical heaters that can be integrated with the boilers, copper heating elements, supplied with regulation thermostat, safety thermostat (manual reset), electric cable and no plug.



Code	Price	Power W	Length L mm	Connection GAS M	Temperature safety thermostat °C	Tension V	Max. sleeve length mm	Protection class	Regulating thermostat °C
C24100169		2000	290	1"1/2	96	400 V THREE PHASE	90	IP44	30-75
C24100170		3000	290	1"1/2	96			IP44	30-75
C24100171		4500	430	1"1/2	96			IP54	30-65
C24100172		6000	430	1"1/2	96			IP54	30-65
C24100173		9000	660	1"1/2	96			IP54	30-65
C24100317		12000	840	1"1/2	95		840	IP54	30-65
C24100318		15000	900	1"1/2	95		900	IP54	30-65
C24100319		18000	1050	1"1/2	95		1050	IP54	30-65

Heads





Diam. mm	Enamelled Code	Enamelled Price	Stainless steel Code	Stainless steel Price
Ø300	843030018X		843040019X	
Ø380	843030019X		843040020X	
Ø430	843030020X		843040021X	

They are supplied with nuts, bolts and gaskets.

Tube heat exchanger and exchanger with copper spiral see pag. 204-206





Gaskets with or without crossbeam

Diameter mm	Asbestos free Without crossbeam Code	Asbestos free Without crossbeam Price	Asbestos free With crossbeam Code	Asbestos free With crossbeam Price	Asbestos free steam Without crossbeam Code	Asbestos free steam Without crossbeam Price	Asbestos free steam With crossbeam Code	Asbestos free steam With crossbeam Price
Ø300	R08020036		R08020037		R08060026		R08060001	
Ø380	R08020038		R08020039		R08060027		R08060002	
Ø430	R08020040		R08020041		R08060028		R08060003	

The copper coils have a gasket without cross-beam with the same diameter as the assembly plate.
The tube heat exchangers have two gaskets: one with and one without a cross-beam. Both have the same diameter as the closing head.
The blind closing heads have one gasket without cross-beam with the same diameter as the assembly plate.

Standard Accessories for Inertial Tanks

Galvanized Connections Adapters from threaded to flanged type

The codes and prices below are for single item.
The adapter must be screwed onto the existing connection.
The adapter is not welded on the ferrule, for special executions ask for a quote.



Original connection	Transformed connection uni-en pn 16	Code	Price
1"1/2	DN 40	838081200X	
	DN 50	838081201X	
2"	DN 50	838081202X	
	DN 65	838081203X	
2"1/2	DN 65	838081204X	
	DN 80	838081205X	
3"	DN 80	838081206X	
	DN 100	838081207X	
4"	DN 100	838081208X	
	DN 125	838081209X	

Galvanized Connections Adapters from threaded to Grooved type

The codes and prices below are for single item.
The adapter must be screwed onto the existing connection.
The adapter is not welded on the ferrule, for special executions ask for a quote.



Original connection	Transformed connection	Code	Price
1"1/2	1"1/2	838081211X	
	2"	838081212X	
2"	2"	838081213X	
	2"1/2	838081214X	
2"1/2	2"1/2	838081215X	
	3"	838081216X	
3"	3"	838081217X	
	4"	838081218X	
4"	4"	838081219X	
	5"	838081220X	

Electric single-phase resistors with built-in thermostat

No IP protection with visible contacts



Power W	Voltage V	Element number	Connection Diameter inch	Length mm	Code	Price
1200	230	1	1" 1/4	220	C24100003	
1500	230	1	1" 1/4	290	C24100004	
2000	230	1	1" 1/4	330	C24100005	

Electric single-phase resistors

IP 55 protection.



Power W	Voltage V	Element number	Connection Diameter inch	Length mm	Code	Price
200	230	1	1/2"	300	C24100001	

Electric resistors

IP 65 protection.



Power W	Voltage V	Element number	Connection Diameter inch	Length mm	Code	Price
1300	230/380	3	2"	220	C24100008	
2000	230/380	3	2"	290	C24100009	
2000	230/380	3	1" 1/4	300	C24100053	
3000	230/380	3	2"	340	C24100010	
3000	230/380	3	1" 1/4	300	C24100011	
4000	230/380	3	2"	390	C24100012	
4000	230/380	3	1" 1/4	400	C24100072	
5000	230/380	3	2"	500	C24100013	
5000	230/380	3	1" 1/4	450	C24100073	
6000	230/380	3	2"	600	C24100014	
7000	230/380	3	2"	580	C24100015	
8000	230/380	3	2"	620	C24100016	
10000	230/380	3	2"	770	C24100017	

Thermometers



Description	Code	Price
Thermometer for cold water	C22050004	
Thermometer for hot water	C22050001	

Temperature controls



Description	Temperature range	Safety range	Code	Price
Thermostat	0 ÷ 90 °C	-	C22010004	
Bithermostat	0 ÷ 90 °C	fix 100 °C	C22010006	
Antifreeze Bithermostat	-30 ÷ 30 °C	0 ÷ 90 °C	C22010007	

Accessories Compatible with: MINI-HC, VKG-HC(E), VKG(E), VK(E), VKT, VKX, VKS, VKR, VKD (pag. 68)

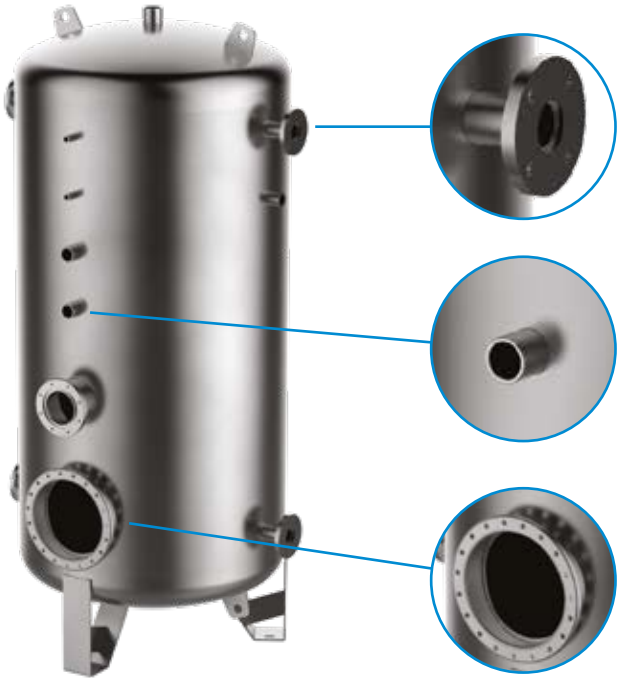
NOTE: Be sure to install the accessories according to the size and availability of the tank connections.

Special versions for Inertial Tanks

Special versions change the conformation of the products and hence the sales code will be different depending on the customisation required. Fiorini is able to provide any tailored solution quickly, providing the customer with the support they need to guide them to the solution that best suits their needs.
Here are some examples of special versions:

- Flanged (in different materials)
- Grooved (in different materials)
- Larger size
- Customised on request





ALUMINIUM cladding

Accessory for outdoor installation.
It is mandatory to provide a wooden cage for transportation.



Packed in wooden cage

Guarantees greater product protection during transport

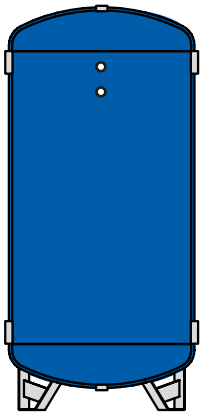


Accessories Compatible with: VKG-HC(E), VKG(E), VK(E), VKT, VKX, VKS, VKR, VKD (pag. 68)

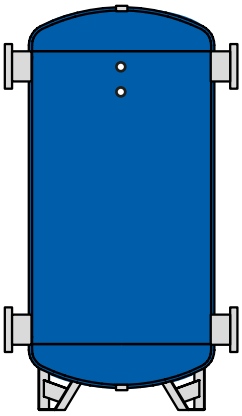
Tank Layout

This page guides you in choosing the couplings geometry/position of a chilled water tank. When requesting a quote, please specify the chosen layout and any changes.

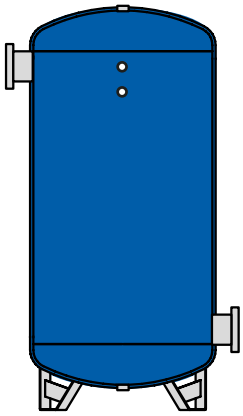
STANDARD



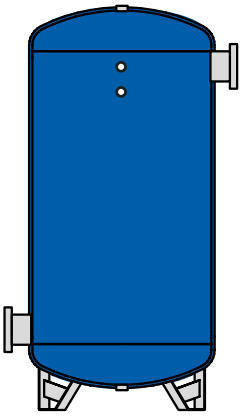
TL1
4 standard couplings



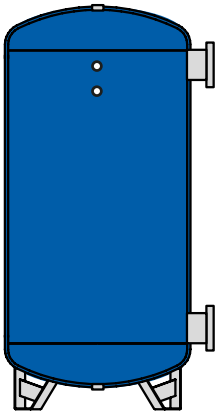
TL2
4 special couplings



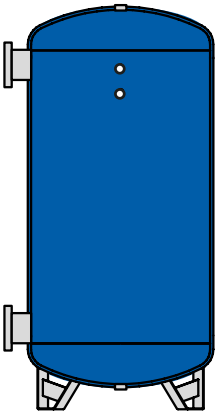
TL3
2 special couplings,top left and bottom right



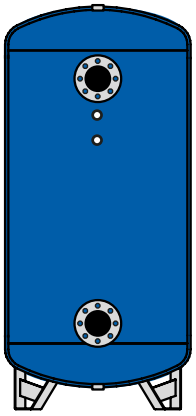
TL4
2 special couplings, top right and bottom left



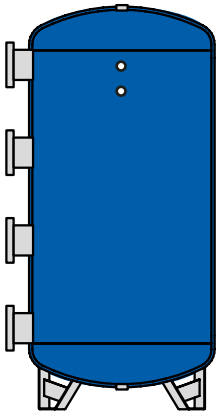
TL5
2 special couplings right



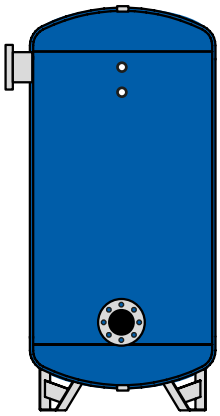
TL6
2 special couplings left



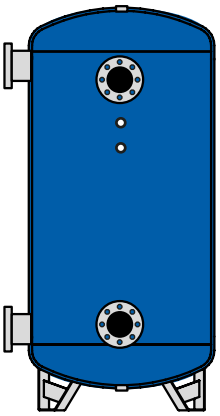
TL7
2 special couplings front



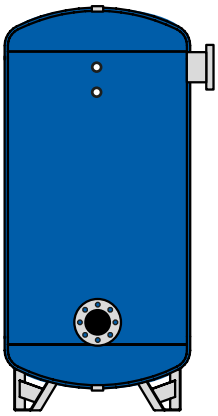
TL8
4 special couplings left



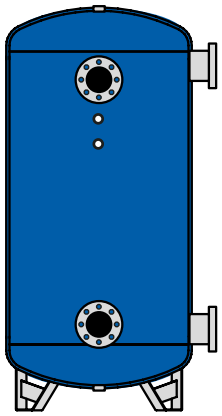
TL9
2 special couplings, top left and bottom front



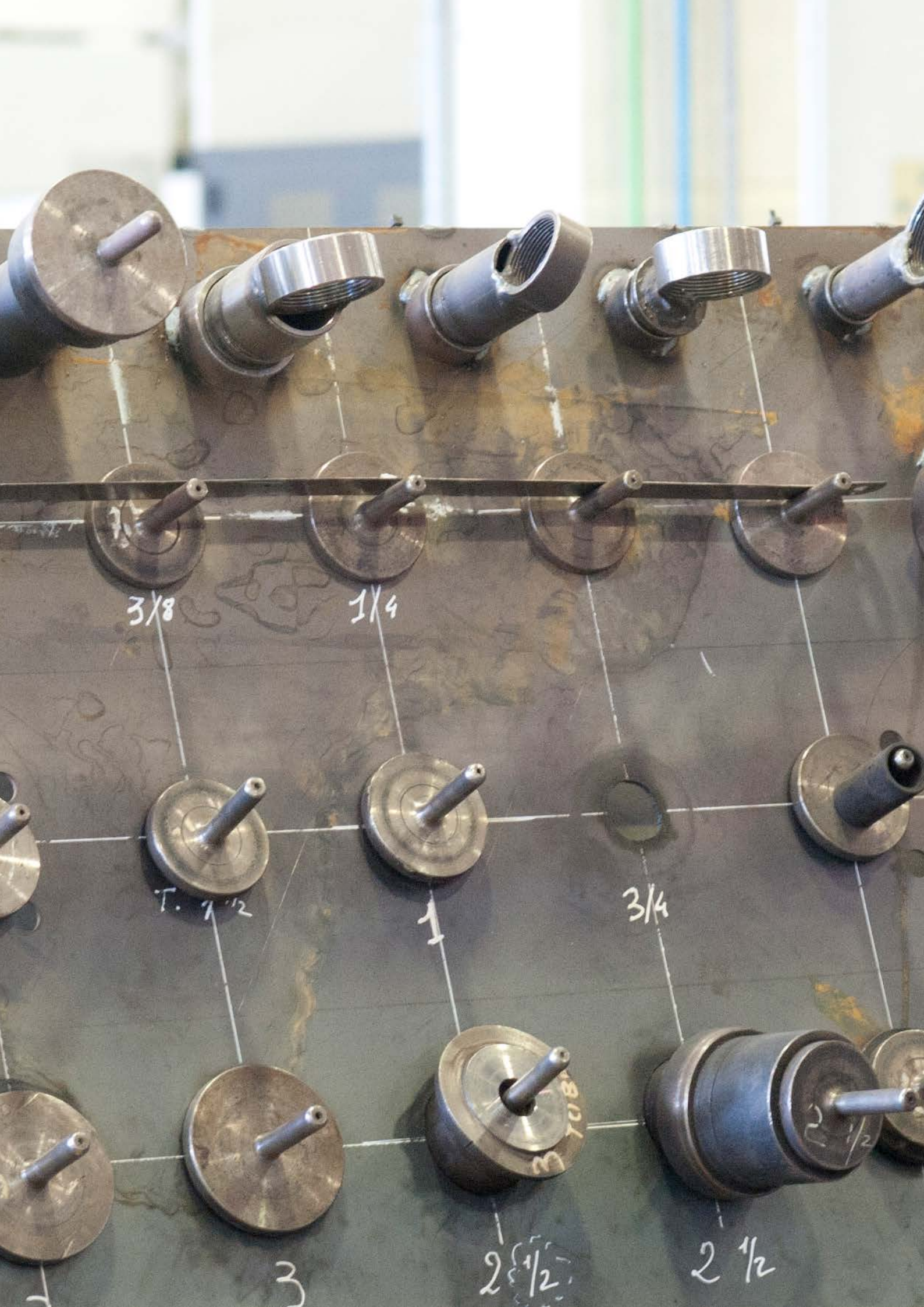
TL10
4 special couplings left and front



TL11
2 special couplings top right and bottom front



TL12
4 special couplings right and front


3/8
1/4
T. 1 1/2
1
3/4
3
2 1/2
2 1/2



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Fiorini Industries S.r.l.
Ph. +39 0543 723197 – Fax +39 0543 720413
Via Zampeschi 119 – 47122 Forlì (FC) – Italy
www.fiorini-industries.com