



## BUFFER TANK FOR STORAGE AND PRODUCTION OF HEATING WATER



Insulated hot water storage tanks designed for use in heating systems.

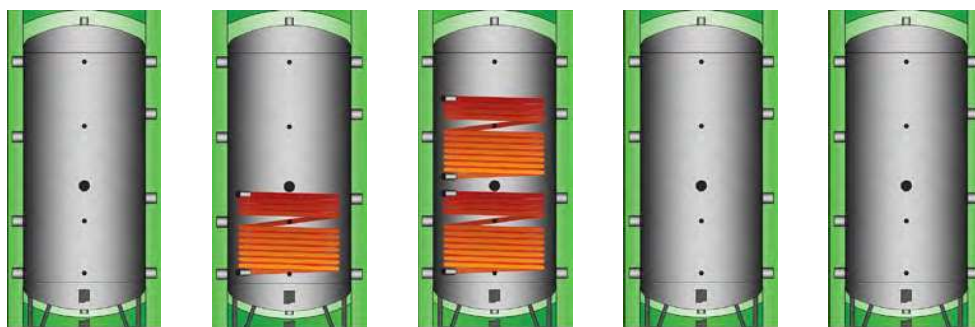
These are essential in the configurations which integrate various energy sources, even discontinuous, allowing storage of the heat produced and using the mass of water as thermal inertia in low capacity systems.

The polyester fibre thermal insulation guarantees a large capacity for conserving heat and allows reduced variations in the temperature of the water contained in the tank, resulting in a reduced number of start-ups of the generators connected, achieving considerable advantages in terms of operating costs and increasing their working life.

The **TANKO-1 HOT** and **TANKO-2 HOT** versions are fitted with fixed internal heat exchangers with smooth spiral tubes, with large surface areas to enable connection of 1 or 2 additional energy sources for heat transfer.

They are available in untreated carbon steel, galvanised steel or AISI 316L stainless steel versions and can be clad with technical fabric or embossed aluminium sheeting suitable for outdoor installations.

### SPECIFICATIONS



**TANKO-G HOT**

**TANKO-1 HOT**

**TANKO-2 HOT**

**TANKO-Z HOT**

**TANKO-X HOT**

TANK MATERIAL	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Stainless steel AISI 316L
HEAT EXCHANGER MATERIAL	—	Carbon steel	Carbon steel	—	—
INTERNAL SURFACE TREATMENT	—	—	—	Hot dip galvanising	—
EXTERNAL SURFACE TREATMENT	Anti-rust painting	Anti-rust painting	Anti-rust painting	Hot dip galvanising	Pickling
CAPACITY	800-5000 litres	800-3000 litres	800-3000 litres	800-5000 litres	800-5000 litres
VERSION	Vertical	Vertical	Vertical	Vertical	Vertical
CONNECTIONS	Threaded	Threaded	Threaded	Threaded	Threaded
INSULATION   800-2000 litres	<b>PLFH</b> (High density polyester fibre) 100 mm	<b>PLFH</b> (High density polyester fibre) 100 mm	<b>PLFH</b> (High density polyester fibre) 100 mm	<b>PLFH</b> (High density polyester fibre) 100 mm	<b>PLFH</b> (High density polyester fibre) 100 mm
INSULATION   2500-5000 litres	<b>PLF</b> (Polyester fibre) 100 mm	<b>PLF</b> (Polyester fibre) 100 mm	<b>PLF</b> (Polyester fibre) 100 mm	<b>PLF</b> (Polyester fibre) 100 mm	<b>PLF</b> (Polyester fibre) 100 mm
CLADDING (Page 359 for PVC of other colours)	<ul style="list-style-type: none"> <li>PVC Light grey RAL 7035</li> <li>Aluminium</li> </ul>	<ul style="list-style-type: none"> <li>PVC Light grey RAL 7035</li> <li>Aluminium</li> </ul>	<ul style="list-style-type: none"> <li>PVC Light grey RAL 7035</li> <li>Aluminium</li> </ul>	<ul style="list-style-type: none"> <li>PVC Light grey RAL 7035</li> <li>Aluminium</li> </ul>	<ul style="list-style-type: none"> <li>PVC Light grey RAL 7035</li> <li>Aluminium</li> </ul>

### WORKING CONDITIONS

	Capacity	800	1000	1500	2000	2500	3000	4000	5000
Tank operating pressure (painted and galvanised version)	bar	6	6	6	6	6	6	6	6
Tank operating pressure (stainless steel version)	bar	8	8	8	8	8	6	6	6
Tank operating temperature (painted and stainless steel version)	°C	99	99	99	99	99	99	99	99
Tank operating temperature (galvanised version)	°C	95	95	95	95	95	95	95	95
Heat exchangers operating pressure	bar	10	10	10	10	10	10	—	—
Heat exchangers operating temperature	°C	110	110	110	110	110	110	—	—

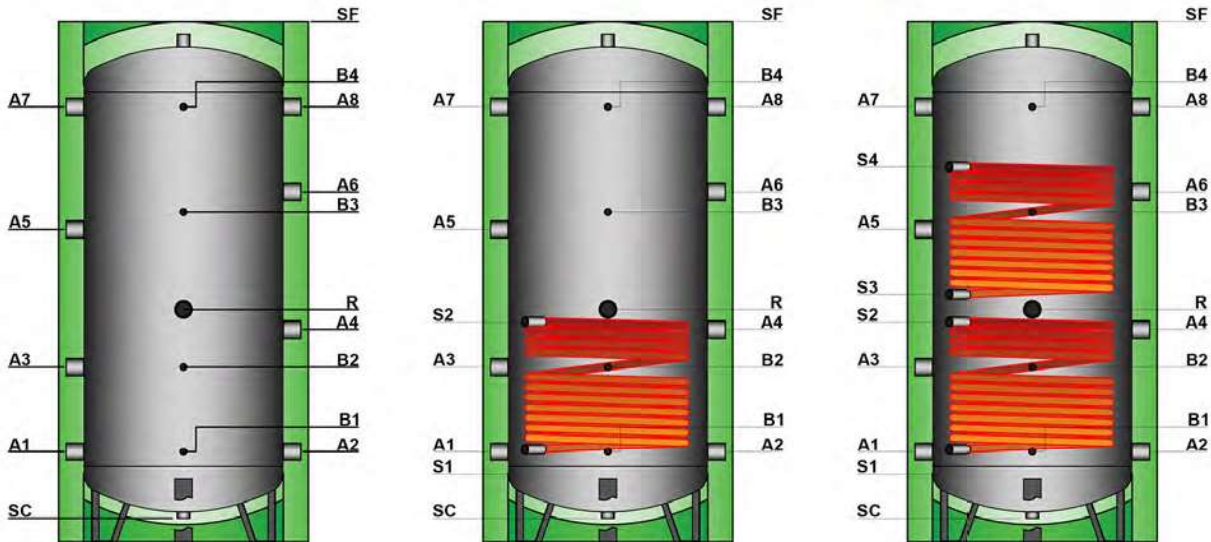
### REGULATORY COMPLIANCE

ErP - Reg. 812/2013 and Reg. 814/2013 | CE

European Pressure Equipment Directive (PED) 2014/68/EU | Good engineering practice - exclusion from CE marking - Art. 4.3

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TANKO HOT

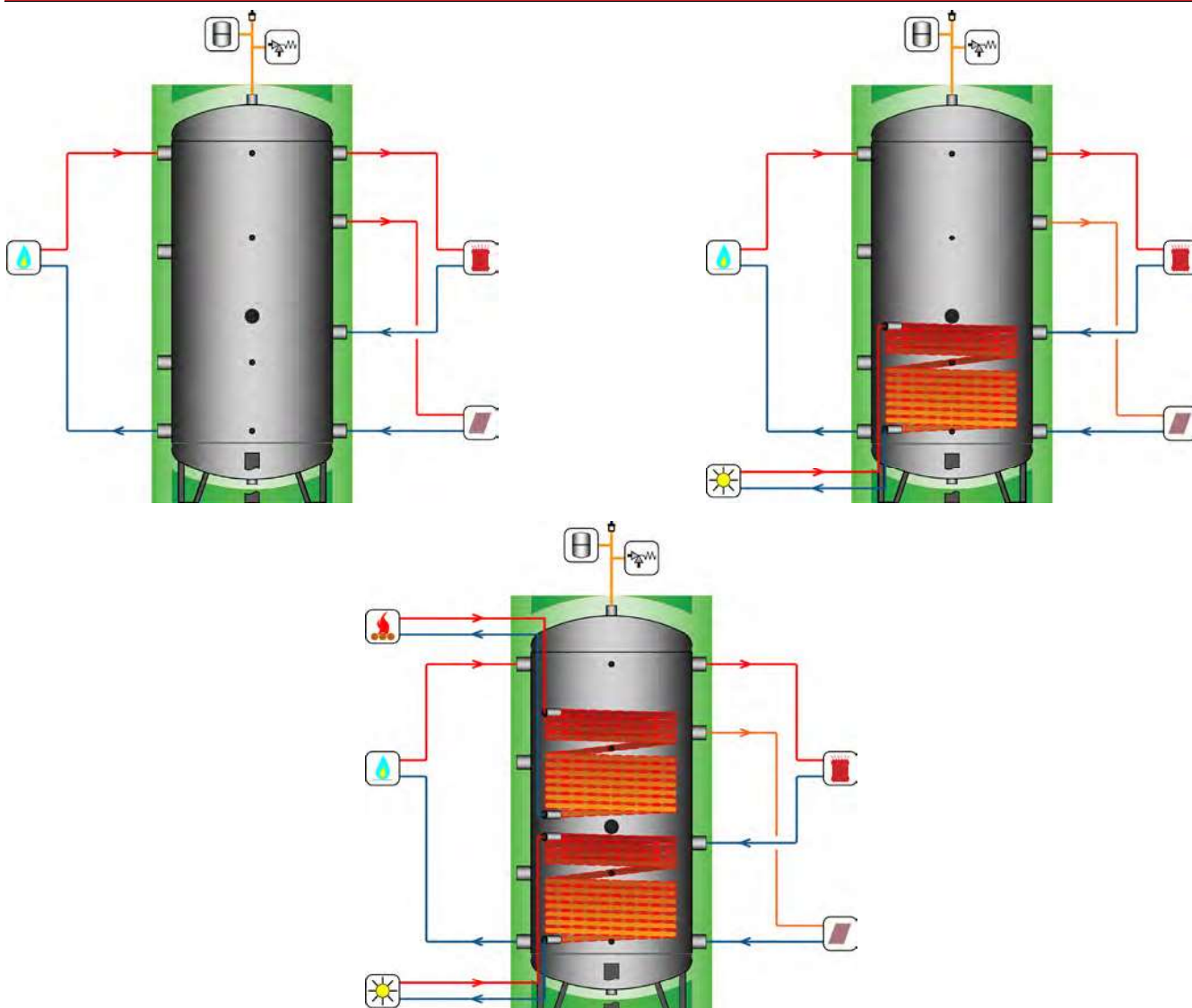


GENERAL CHARACTERISTICS

	Capacity	800	1000	1500	1500 (STAINLESS STEEL)	2000	2000 (STAINLESS STEEL)	2500	3000	4000	5000
<b>DIMENSIONS</b>											
Diameter without insulation	mm	800	800	950	1000	1100	1200	1200	1250	1400	1600
Diameter with insulation	mm	1000	1000	1150	1200	1300	1400	1400	1450	1600	1800
Maximum height	mm	1828	2078	2490	2245	2495	2164	2620	2820	2900	2990
Overturning height with   without insulation	mm	1969   1817	2203   2064	2628   2509	2409   2267	2668   2518	2393   2194	2812   2645	3015   2846	3127   2928	3273   3027
LOW VERSION	Diameter without insulation	mm	—	—	1100	1100	1250	1250	1400	1600	1800
	Diameter with insulation	mm	—	—	1290	1290	1440	1440	1590	1790	1990
	Maximum height	mm	—	—	2015	2015	2090	2090	2170	2420	2510
	Overturning height with   without insulation	mm	—	—	2209   2024	2209   2024	2335   2106	2335   2213	2454   2215	2672   2435	2826   2559
EXTRA-LOW VERSION	Diameter without insulation	mm	—	—	—	—	—	—	1500	1700	2000
	Diameter with insulation	mm	—	—	—	—	—	—	1690	1890	2190
	Maximum height	mm	—	—	—	—	—	—	2180	2240	2170
	Overturning height with   without insulation	mm	—	—	—	—	—	—	2513   2224	2621   2298	2668   2227
<b>HYDRAULIC CONNECTIONS</b>											
A1-A2 Fittings	mm   Ø	358   1 1/2"	358   1 1/2"	455   3"	480   3"	475   3"	504   3"	540   3"	535   3"	589   4"	650   4"
A3 Fittings	mm   Ø	568   1 1/2"	698   1 1/2"	775   2"	750   2"	795   2"	754   2"	840   2"	865   2"	899   2"	960   2"
A4 Fittings	mm   Ø	808   1 1/2"	848   1 1/2"	975   2"	900   2"	995   2"	904   2"	1040   2"	1085   2"	1119   2"	1180   2"
A5 Fittings	mm   Ø	1038   1 1/2"	1248   1 1/2"	1575   2"	1400   2"	1545   2"	1294   2"	1640   2"	1805   2"	1819   2"	1880   2"
A6 Fittings	mm   Ø	1278   1 1/2"	1398   1 1/2"	1775   2"	1550   2"	1745   2"	1444   2"	1840   2"	2005   2"	2059   2"	2120   2"
A7-A8 Fittings	mm   Ø	1488   1 1/2"	1738   1 1/2"	2095   3"	1820   3"	2065   3"	1694   3"	2140   3"	2335   3"	2349   4"	2410   4"
B1 Sensor fitting	mm   Ø	358   1/2"	358   1/2"	455   1/2"	480   1/2"	475   1/2"	504   1/2"	540   1/2"	535   1/2"	589   1/2"	650   1/2"
B2 Sensor fitting	mm   Ø	568   1/2"	698   1/2"	775   1/2"	750   1/2"	795   1/2"	754   1/2"	840   1/2"	865   1/2"	899   1/2"	960   1/2"
B3 Sensor fitting	mm   Ø	1148   1/2"	1318   1/2"	1675   1/2"	1475   1/2"	1645   1/2"	1374   1/2"	1740   1/2"	1905   1/2"	1939   1/2"	2000   1/2"
B4 Sensor fitting	mm   Ø	1488   1/2"	1738   1/2"	2095   1/2"	1820   1/2"	2065   1/2"	1694   1/2"	2140   1/2"	2335   1/2"	2349   1/2"	2410   1/2"
R Electrical resistance coupling	mm   Ø	698   2"	928   2"	1240   2"	1030   2"	1245   2"	1074   2"	1305   2"	1365   2"	1399   2"	1460   2"
S1 Lower heat exchanger outlet	mm   Ø	368   1"	368   1"	435   1"	—	455   1"	—	500   1"	495   1"	—	—
S2 Lower heat exchanger inlet	mm   Ø	878   1"	878   1"	1145   1"	—	1165   1"	—	1210   1"	1295   1"	—	—
S3 Upper heat exchanger outlet	mm   Ø	968   1"	988   1"	1305   1"	—	1375   1"	—	1420   1"	1495   1"	—	—
S4 Upper heat exchanger inlet	mm   Ø	1478   1"	1498   1"	2015   1"	—	2085   1"	—	2130   1"	2205   1"	—	—
SF Air vent	mm   Ø	1828   1 1/4"	2078   1 1/4"	2490   1 1/4"	2245   1 1/4"	2495   1 1/4"	2164   1 1/4"	2620   1 1/4"	2820   1 1/4"	2899   1 1/4"	2990   1 1/4"
SC Drain	mm   Ø	93   1 1/4"	93   1 1/4"	135   1 1/4"	130   1 1/4"	120   1 1/4"	109   1 1/4"	135   1 1/4"	125   1 1/4"	114   1 1/4"	145   1 1/4"
<b>PERFORMANCE</b>											
Lower heat exchanger surface	m <sup>2</sup>	2.8	3.0	4.5	—	4.5	—	4.5	6.0	—	—
Lower heat exchanger power (Primary 80/60°C - T <sub>AVERAGE</sub> tank 60°C)	kW	26	28	42	—	42	—	42	56	—	—
Upper heat exchanger surface	m <sup>2</sup>	2.8	3.0	4.5	—	4.5	—	4.5	4.5	—	—
Lower heat exchanger power (Primary 80/60°C - T <sub>AVERAGE</sub> tank 60°C)	kW	26	28	42	—	42	—	42	56	—	—
<b>EMPTY WEIGHTS</b>											
Empty weight mod. TANKO-G <b>HOT</b>   TANKO-Z <b>HOT</b>   TANKO-X <b>HOT</b>	kg	99	111	215	204	253	229	287	321	476	564
Empty weight mod. TANKO-1 <b>HOT</b>	kg	135	150	273	—	311	—	345	348	—	—
Empty weight mod. TANKO-2 <b>HOT</b>	kg	171	189	331	—	369	—	403	456	—	—

N.B.: all the measurements of the hydraulic connections are considered "from the ground" and the threads are female GAS (unless otherwise specified).  
The products higher than 2200 mm will be packaged horizontally.

INSTALLATION EXAMPLE



The proposed diagrams are purely by way of example.

