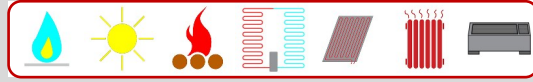


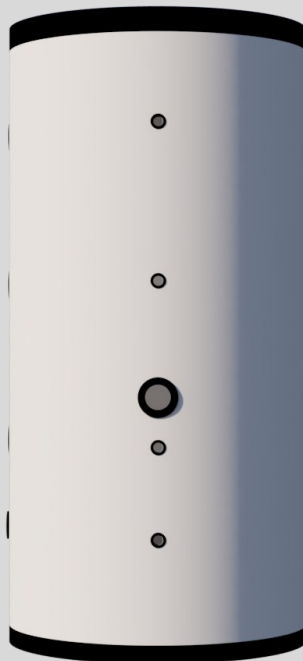
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SCAMBIATORI - BOLLITORI - SERBATOI



TANKO HOT



BUFFER VESSEL FOR HOT WATER STORAGE

Buffer vessels for hot water storage, designed to increase the thermal inertia in heating systems.

These are essential to use different heating sources, even though discontinuous, allowing heating water storage and using it as thermal inertia in low-capacity systems.

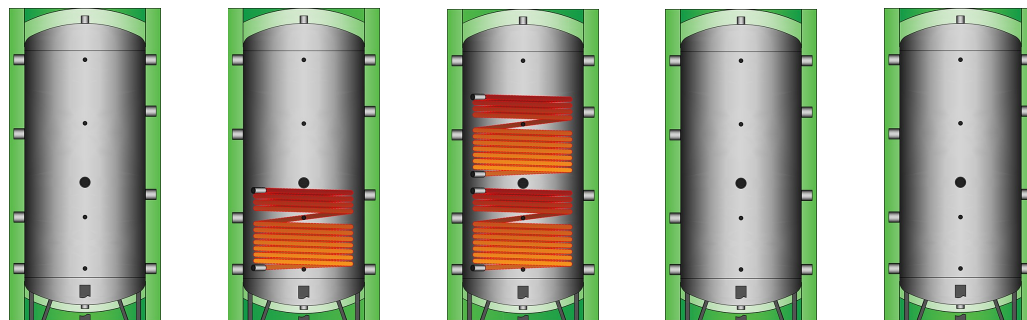
The polyester fibre thermal insulation guarantees limited heat loss and reduced variations in the temperature of the water stored.

This results in a reduced number of starts-up of the connected heating sources, thus increasing their lifetime and saving operating costs.

TANKO-1 HOT and **TANKO-2 HOT** series are provided with built-in coils to be connected to one or two additional heating sources.

Available in raw carbon steel, galvanized steel or Stainless Steel 316L. The outer cladding is made of PVC for indoor installation or Aluminium for indoor & outdoor installation.

CONSTRUCTION



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
FIXED COIL MATERIAL	—	Carbon steel	Carbon steel	—	—
INTERNAL SURFACE TREATMENT	—	—	—	Hot dip galvanizing	—
EXTERNAL SURFACE TREATMENT	Anti-rust primer	Anti-rust primer	Anti-rust primer	Hot dip galvanizing	Pickling
CAPACITY	800 ÷ 5000 L	800 ÷ 3000 L	800 ÷ 3000 L	800 ÷ 5000 L	800 ÷ 5000 L
VERSION	Vertical	Vertical	Vertical	Vertical	Vertical
CONNECTIONS	Threaded	Threaded	Threaded	Threaded	Threaded
INSULATION 800 ÷ 2000 L	PLFH (HD Polyester fibre) 100 mm	PLFH (HD Polyester fibre) 100 mm	PLFH (HD Polyester fibre) 100 mm	PLFH (HD Polyester fibre) 100 mm	PLFH (HD Polyester fibre) 100 mm
INSULATION 2500 ÷ 5000 L	PLF (Polyester fibre) 100 mm	PLF (Polyester fibre) 100 mm	PLF (Polyester fibre) 100 mm	PLF (Polyester fibre) 100 mm	PLF (Polyester fibre) 100 mm
CLADDING	• PVC light grey RAL 7035 • Aluminium	• PVC light grey RAL 7035 • Aluminium	• PVC light grey RAL 7035 • Aluminium	• PVC light grey RAL 7035 • Aluminium	• PVC light grey RAL 7035 • Aluminium

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

				Capacity	800	1000	1500	2000
TANKO-G HOT	Energy efficiency class				C	C	C	C
TANKO-Z HOT	Standing loss	S	W		110	121	163	190
TANKO-X HOT	Storage volume	V	L		746	871	1471	1974
TANKO-1 HOT	Energy efficiency class				C	C	C	C
	Standing loss	S	W		111	121	163	189
	Storage volume	V	L		733	857	1449	1951
TANKO-2 HOT	Energy efficiency class				C	C	C	C
	Standing loss	S	W		111	121	162	188
	Storage volume	V	L		720	844	1426	1929

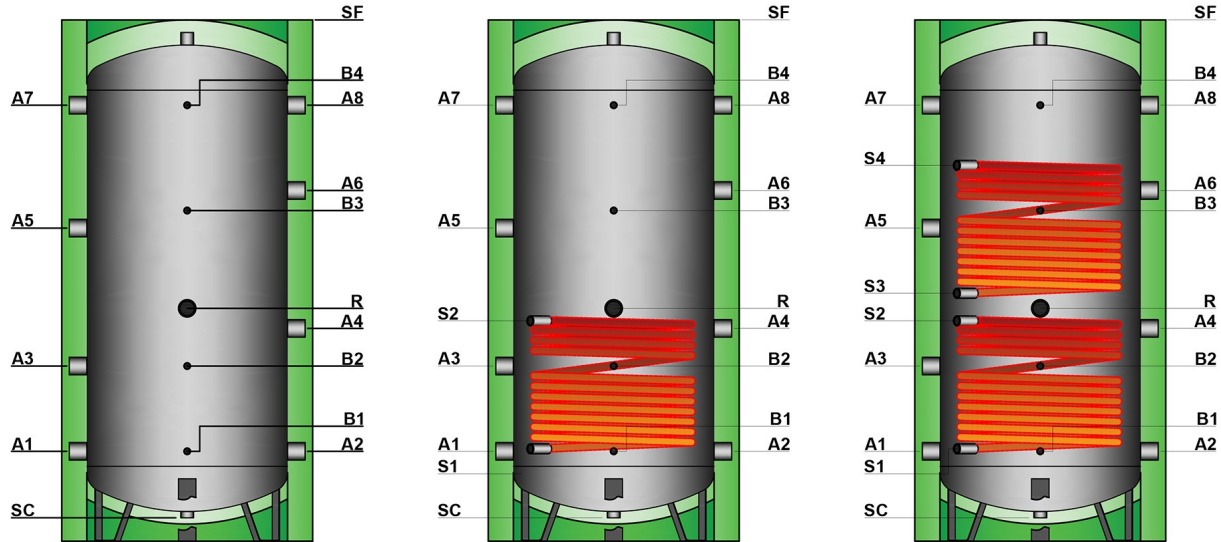
WORKING CONDITIONS

		Capacity	800	1000	1500	2000	2500	3000	4000	5000
Tank working pressure (carbon steel)	bar	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6
Tank working pressure (galvanized steel)	bar	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6
Tank working pressure (Stainless Steel)	bar	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6
Tank working temperature (carbon steel)	°C	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99
Tank working temperature (galvanized steel)	°C	-10 ÷ 95	-10 ÷ 95	-10 ÷ 95	-10 ÷ 95	-10 ÷ 95	-10 ÷ 95	-10 ÷ 95	-10 ÷ 95	-10 ÷ 95
Tank working temperature (Stainless Steel)	°C	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99	-10 ÷ 99
Fixed coil working pressure	bar	ATM ÷ 10	ATM ÷ 10	ATM ÷ 10	ATM ÷ 10	ATM ÷ 10	ATM ÷ 10	ATM ÷ 10	—	—
Fixed coil working temperature	°C	AMB ÷ 110	AMB ÷ 110	AMB ÷ 110	AMB ÷ 110	AMB ÷ 110	AMB ÷ 110	AMB ÷ 110	—	—

REGULATORY COMPLIANCE

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

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



GENERAL CHARACTERISTICS

		Capacity	800	1000	1500 TANKO-G/Z	1500 TANKO-X	2000 TANKO-G/Z	2000 TANKO-X	2500	3000	4000	5000
VERTICAL STANDARD	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
	Overall 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
VERTICAL LOW	Diameter without insulation	mm	—	—	1100	1100	1250	1250	1400	1400	1600	1800
	Diameter with insulation	mm	—	—	1290	1290	1440	1440	1590	1590	1790	1990
	Overall height	mm	—	—	2015	2015	2090	2090	2170	2420	2510	2500
	Overturning height with without insulation	mm	—	—	2209 2024	2209 2024	2335 2106	2335 2213	2454 2215	2672 2435	2826 2559	2917 2591
VERTICAL EXTRA-LOW	Diameter without insulation	mm	—	—	—	—	—	—	—	1500	1700	2000
	Diameter with insulation	mm	—	—	—	—	—	—	—	1690	1890	2190
	Overall height	mm	—	—	—	—	—	—	—	2180	2240	2170
	Overturning height with without insulation	mm	—	—	—	—	—	—	—	2513 2224	2621 2298	2668 2227

CONNECTIONS

A1-A2	Inlet / Outlet	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	Inlet / Outlet	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	Inlet / Outlet	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	Inlet / Outlet	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	Inlet / Outlet	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	Inlet / Outlet	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	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	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	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	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	Immersion electric heater	mm Ø	698 2"	928 2"	1240 2"	1030 2"	1245 2"	1074 2"	1305 2"	1365 2"	1399 2"	1460 2"
S1	Lower coil return	mm Ø	368 1"	368 1"	435 1"	—	455 1"	—	500 1"	495 1"	—	—
S2	Lower coil supply	mm Ø	878 1"	878 1"	1145 1"	—	1165 1"	—	1210 1"	1295 1"	—	—
S3	Upper coil return	mm Ø	968 1"	988 1"	1305 1"	—	1375 1"	—	1420 1"	1495 1"	—	—
S4	Upper coil supply	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"

FIXED COIL CAPACITY - Primary 80/60°C - Average storage temperature 60°C

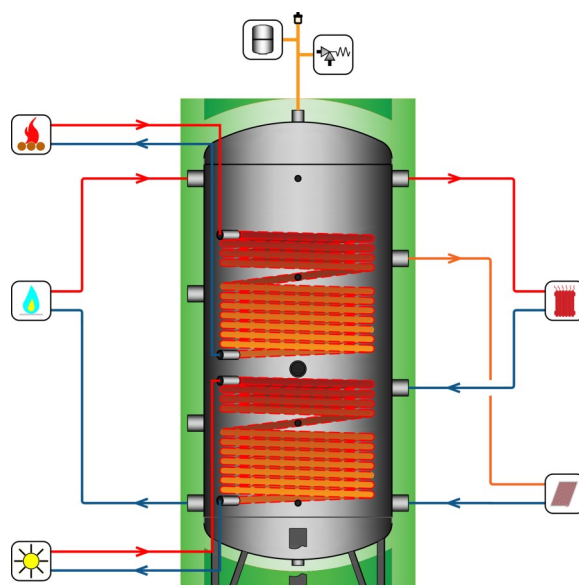
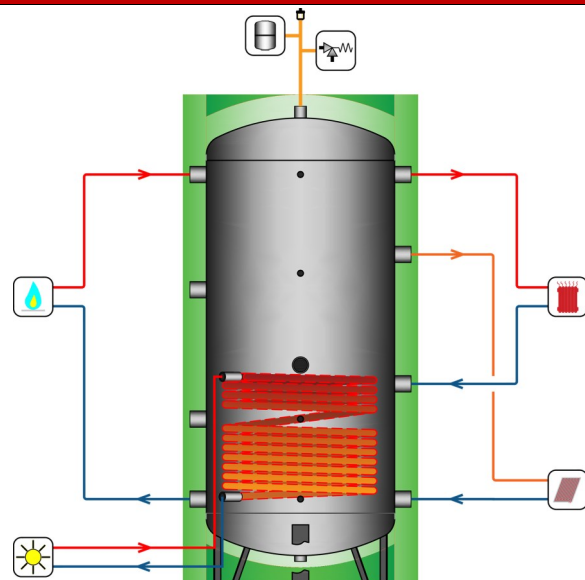
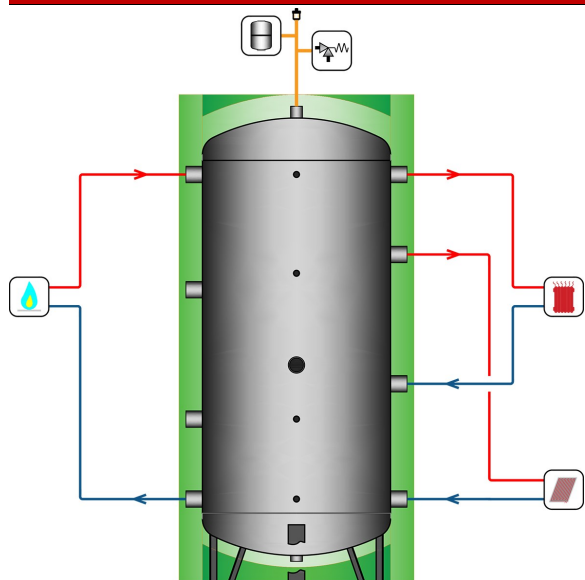
Lower coil heating surface area	m²	2,8	3,0	4,5	—	4,5	—	4,5	6,0	—	—
Lower coil capacity	kW	26	28	42	—	42	—	42	56	—	—
Upper coil heating surface area	m²	2,8	3,0	4,5	—	4,5	—	4,5	4,5	—	—
Upper coil capacity	kW	26	28	42	—	42	—	42	56	—	—

EMPTY WEIGHT

No coil —> TANKO-G HOT TANKO-Z HOT TANKO-X HOT	kg	99	111	215	204	253	229	287	321	476	564
1 coil —> TANKO-1 HOT	kg	135	150	273	—	311	—	345	348	—	—
2 coils —> TANKO-2 HOT	kg	171	189	331	—	369	—	403	456	—	—

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.

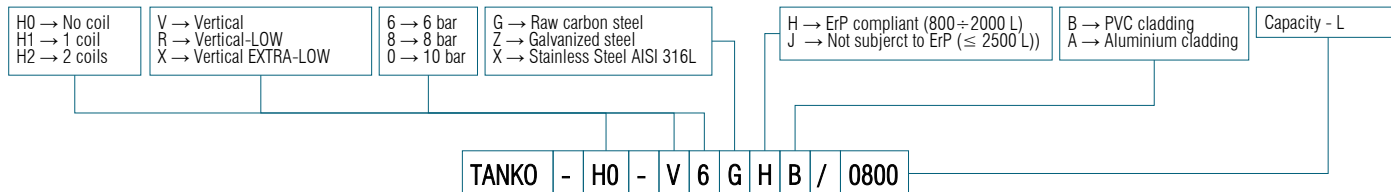
INSTALLATION DIAGRAM



The proposed diagrams are purely by way of example.




BUFFER VESSEL FOR HOT WATER STORAGE

HOW TO ORDER




ACCESSORIES & SPARE PARTS

ITEM

ITEM	PART NO.		
THERMOMETER Ø65 mm L=150 mm (0÷120)°C	TERMOMETRO-D65_L		THERMOMETER
THERMOMETER Ø100 mm L=150 mm (0÷120)°C	TERMOMETRO-D100		
PROBE SOCKET Ø½" L=150 mm Ø _{int} 10 mm	POZZETTO_L		PROBE SOCKET
THERMOSTAT Ø½" (0÷90)°C	TERMOSTATO		THERMOSTAT

1-3 PHASE IMMERSION ELECTRIC HEATER - STAINLESS STEEL 316I / INCOLOY TUBES

Threaded plug 2" | Aluminium box IP55 | V230/400

Capacity	Capacity/L matching	Length	1-THERMOSTAT Temperature adjusting only	2-THERMOSTAT Temperature adj. & overheating protection	
Watt	L	mm	PART NO.	PART NO.	
2000	800 ÷ 5000	280	RES020-200-L280-6-M	RES020-200-L280-6-B	
3000	800 ÷ 5000	380	RES030-200-L380-6-M	RES030-200-L380-6-B	
5000	800 ÷ 5000	500	RES050-200-L500-6-M	RES050-200-L500-6-B	
6000	800 ÷ 5000	600	RES060-200-L600-6-M	RES060-200-L600-6-B	
9000	800 ÷ 5000	680	RES090-200-L680-I-M	RES090-200-L680-I-B	
10000	800 ÷ 5000	680	RES100-200-L680-I-M	RES100-200-L680-I-B	
12000	800 ÷ 5000	820	RES120-200-L820-I-M	RES120-200-L820-I-B	

ANTI-CORROSION PROTECTION STEEL TREATMENT

PROTECTIVE TREATMENTS FOR CARBON STEEL TANKS

Hot dip galvanizing

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.

PROTECTIVE TREATMENTS FOR STAINLESS STEEL TANKS

Pickling

Buffer vessels made of Stainless Steel 316L are treated with full immersion pickling procedures

INSULATIONS

Insulating material	Removable	Thickness	Density	Thermal conductivity coefficient at 45°C	Operating Temperature	Fire reaction class Euroclass EN13501-1
PLF Polyester fibre	✓	100 mm	20 kg/m ³	$\lambda = 0,037$ W/mK	Amb. / +99°C	B-s2, d0
PLFH High Density Polyester fibre	✓	100 mm	25 kg/m ³	$\lambda = 0,034$ W/mK	Amb. / +99°C	B-s2, d0

PLFH / PLF – Polyester fibre

- 100% recyclable
- Environmental friendly
- Lightweight
- Self-supporting
- Fire-retardant
- Rot-proof
- Resistant to mould, bacteria or rodents
- Hypoallergenic
- Water repellent

The raw materials consist of polyester fibres and heat-bonded co-polyester fibres, coming mainly from the recycling of plastic bottles obtained from urban waste collection.

It does not contain substances harmful to humans, may be handled and installed in complete safety, does not release powder, is hypoallergenic and cannot be attacked by microorganisms, mould and insects.

PLFH/PLF is a heat insulating product considered environmentally sustainable, even though it is not of natural origin: it is in fact recyclable and the quantity of embodied energy necessary to obtain it is extremely low.

The composition of the polyester fibre makes it an insulating material with an extremely low heat dispersion and its characteristics remain unaltered over time as it is not affected by humidity and its compact, flexible and resistant original structure is not modified.



CLADDINGS

PVC

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

ITEM

PART NO.

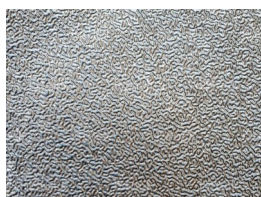
PVC CLADDING YERLLOW RAL1023	COVER-RAL1023
PVC CLADDING OREANGE RAL2004	COVER-RAL2004
PVC CLADDING RED RAL3000	COVER-RAL3000
PVC CLADDING BLUE RAL5015	COVER-RAL5015
PVC CLADDING WHITE RAL9016	COVER-RAL9016
PVC CLADDING LIGHT GREY RAL7035	COVER-RAL7035
PVC CLADDING DARK GREY RAL7024	COVER-RAL7024
PVC 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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