



## TAH-X - TA-X



DHW STORAGE TANK MADE OF STAINLESS STEEL 316L

Pickled and passivated Stainless Steel 316L storage tanks for DHW storage guaranting High quality and reliability over time.

Designed to increase the availability of DHW heated through external energy sources, increase the thermal inertia and reduce the heat loss, thanks to the excellent insulation properties.

Available 200÷5000 litre, these tanks can also be manufactured in vertical-LOW and vertical EXTRA-LOW versions with reduced heights to allow them to be installed in low-roofs rooms or packed vertically to optimize loading space and prevent damage.

The possibility of selecting between various operating pressures (up to 10 bar) and the availability of external cladding PVC (for indoor installation only) or aluminium (indoor & outdoor installation) make this range easily adaptable to any type of installation.

The protection against galvanic currents is guaranteed by the excellent properties of Stainless Steel 316L and can be further improved by electronic anodes available upon request.

#### CONSTRUCTION









TANK MATERIAL
INTERNAL SURFACE TREATMENT
EXTERNAL SURFACE TREATMENT
CAPACITY
VERSION
CONNECTION TYPE
INSULATION | 200 ÷ 500 L
INSULATION | 800 ÷ 2000 L

INSULATION | 2500 ÷ 5000 L

STANDARD ACCESSORIES

**CLADDING** 

Stainless Steel AISI 316L
Pickling and passivation
Pickling
200÷5000 L
Vertical
Threaded
Hard foam PU injected
50/55 mm

PLFH (HD Polyester fibre)
100 mm

PLF (Polyester fibre)
50 mm

PVC Yellow RAL1023
Aluminium
TEMPERATURE GAUGE

TAH-OX | TA-OX

Stainless Steel AISI 316L

Pickling and passivation

Pickling

200÷5000 L

Horizontal

Threaded

Hard foam PU injected

50/55 mm

PLFH (HD Polyester fibre)

100 mm

PLF (Polyester fibre)
50 mm

PVC Yellow RAL1023
Aluminium
TEMPERATURE GAUGE

TAH-RX | TA-RX

Stainless Steel AISI 316L

Pickling and passivation

Pickling

1500÷5000 L

Vertical LOW-height

Threaded

PLFH (HD Polyester fibre)
100 mm

PLF (Polyester fibre)
50 mm

PVC Yellow RAL1023
Aluminium

TEMPERATURE GAUGE

TA-XX

Stainless Steel AISI 316L

Pickling and passivation

Pickling

3000÷5000 L

Vertical EXTRA LOW height

Threaded

PLF (Polyester fibre)
50 mm

• PVC Yellow RAL1023
• Aluminium
TEMPERATURE GAUGE

PRODUCI	FICHE - Reg. 812/2013	7.7	<u> </u>							
		С	apacity	200	300	500	800	1000	1500	2000
	Energy class			В	В	C	C	C	C	С
TAH-X	Standing loss	S	W	55	68	93	119	129	154	180
	Storage volume	V	Lt	191	293	502	788	912	1483	1991
	Energy class			В	В	С	С	С	С	С
ГАН-ОХ	Standing loss	S	W	55	68	91	119	129	154	180
	Storage volume	V	Lt	190	293	486	788	912	1483	1991
	Energy class								С	С
AH-RX	Standing loss	S	W						167	185
	Storage volume	V	Lt						1529	1973

WORKING CONDITIONS												
	Capacity	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Tank operating pressure	bar	ATM÷10	ATM÷10	ATM÷8	ATM÷8	ATM÷8	ATM÷8	ATM÷8	ATM÷8	ATM÷6	ATM÷6	ATM÷6
Tank operating temperature	°C	$AMB \div 99$	$AMB \div 99$	$AMB \div 99$	$AMB\!\div\!99$							

#### REGULATORY COMPLIANCE

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

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

D.M. 174/04 | Suitable for contact with water for human consumption

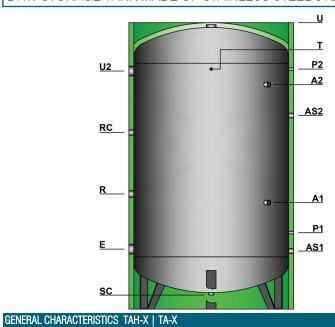
Cooke Industries - Phone: +64 9 579 2185 Email: sales@cookeindustries.co.nz Web: www.cookeindustries.co.nz

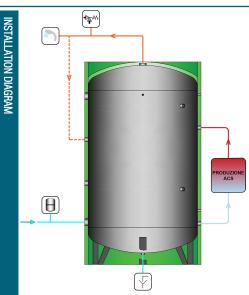


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Empty weight





The proposed	diagrams are	nurely by way	of example

	Capacity	200	300	500	800	1000	1500
DIMENSIONS							
Diameter without insulation	mm	450	550	650	800	800	1000
Diameter with insulation	mm	550	650	760	1000	1000	1200
Overall height	mm	1493	1534	1824	1950	2200	2245
Overturning height with   without insulation	mm	1600   —	1670  —	1980   —	2120   1980	2320   2190	2415   2240
CONNECTIONS							
E Cold water supply	mm   Ø	353   1"1/2	369   1"1/2	384   1"1/2	420   2"	420   2"	480   2"1/2
U DHW return	mm   Ø	1493   1"½	1534   1"½	1824   1"½	1950   2"	2200   2"	2245   2"1/2
U2 DHW return	mm   Ø	_	_	_	_	_	_
RC Recirculation	mm   Ø	1003   1"½	1019   1"½	1259   1"½	1370   1"½	1405   1"½	1395   1"½
R Immersion electric heater	mm   Ø	773   2"	789   2"	804   2"	1010   2"	1010   2"	950   2"
P1 Sensor	mm   Ø	473   ½"	489   ½"	504   ½"	610   ½"	610   ½"	650   ½"
P2 Sensor	mm   Ø	1253   ½"	1269   ½"	1534   ½"	1550   ½"	1700   ½"	1680   ½"
T Temperature gauge	mm   Ø	1253   ½"	1269   ½"	1534   ½"	1550   ½"	1800   ½"	1840   ½"
A1 Anode	mm   Ø	853   ½"	869   ½"	884   ½"	920   ½"	920   ½"	860   ½"
A2 Anode	mm   Ø	_	_	_	_	_	1680   ½"
AS1 Spare	mm   Ø	353   1"1/4	369   1"1/4	384   1"1/4	420   1"1/4	420   1"1/4	450   1"1/4
AS2 Spare	mm   Ø	1153   1"1⁄4	1169   1"1⁄4	1184   1"1⁄4	1220   1"1⁄4	1820   1"1/4	1850   1"1/4
SC Drain	mm   Ø	118   1"1/4	109   1"1/4	99   1"1/4	95   1"1⁄4	95   1"1/4	155   1"1⁄4

50

75

110

115

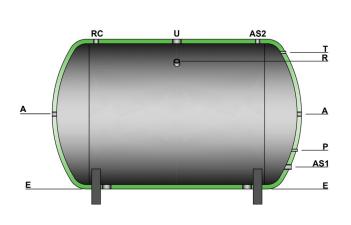
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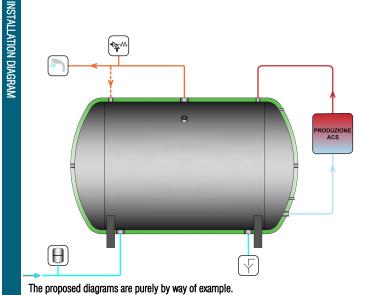
	Canacity	2000	2500	2000	4000	E000
	Capacity	2000	2500	3000	4000	5000
DIMENSIONS						
Diameter without insulation	mm	1200	1200	1250	1400	1600
Diameter with insulation	mm	1400	1300	1350	1500	1700
Overall height	mm	2184	2590	2790	2869	2960
Overturning height with   without insulation	mm	2418   2216	2780   2660	2980   2860	3095   2945	3240   3060
CONNECTIONS						
E Cold water supply	mm   Ø	504   2"1/2	530   3"	525   3"	559   3"	620   3"
U DHW return	mm   Ø	2184   2"1/2	2590   3"	2790   3"	2869   3"	2960   3"
U2 DHW return	mm   Ø	_	_	_	2399   3"	2460   3"
RC Recirculation	mm   Ø	1319   1"1/2	1645   1"1/2	1730   1"1/2	1764   1"1/2	1825   1"½
R Immersion electric heater	mm   Ø	899   2"	1100   2"	1095   2"	1129   2"	1190   2"
P1 Sensor	mm   Ø	649   ½"	700   ½"	695   ½"	729   ½"	790   ½"
P2 Sensor	mm   Ø	1714   ½"	2190   ½"	2385   ½"	2419   ½"	2480   ½"
T Temperature gauge	mm   Ø	1714   ½"	2190   ½"	2385   ½"	2419   ½"	2480   ½"
A1 Anode	mm   Ø	834   ½"	1010   ½"	1005   ½"	1039   ½"	1100   ½"
A2 Anode	mm   Ø	1554   ½"	2030   ½"	2225   ½"	2259   ½"	2320   1/2"
AS1 Spare	mm   Ø	484   1"1/4	510   1"1/4	505   1"1/4	539   1"1/4	600   1"1/4
AS2 Spare	mm   Ø	1284   1"1/4	1910   1"1/4	1905   1"1/4	1939   1"1/4	2000   1"1/4
SC Drain	mm   Ø	134   1"1⁄4	135   1"1⁄4	125   1"1⁄4	114   1"1⁄4	145   1"1⁄4
EMPTY WEIGHTS						
Empty weight	kg	225	300	335	440	475

kg

45





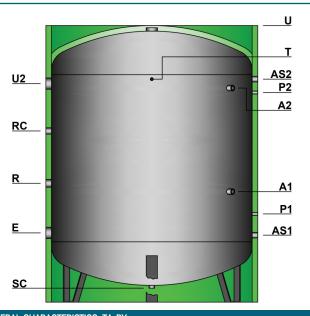


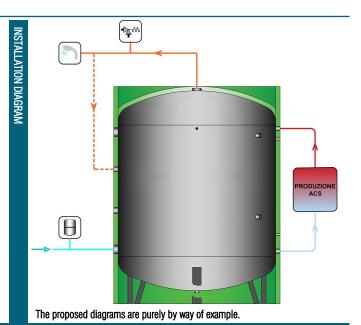
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GENERAL	CHARACTERISTICS TAH-OX   TA-OX							
		Capacity	200	300	500	800	1000	1500
DIMENSIO	ONS							
Diameter	without insulation	mm	450	550	650	800	800	1000
Diameter	with insulation	mm	550	650	760	1000	1000	1200
Overall he	eight	mm	656	755	855	1091	1091	1300
Overall ler	ngth	mm	1400	1450	1750	1930	2180	2190
CONNECT	TIONS							
E Colo	d water supply   Drain	mm   Ø	106   1"½	105   1"½	105   1"½	121   2"	121   2"	150   2"1/2
U DHV	W return	mm   Ø	656   1"½	755   1"½	855   1"½	1091   2"	1091   2"	1300   2"1/2
RC Rec	circulation	mm   Ø	656   1"1⁄2	755   1"½	855   1"½	1091   1"½	1091   1"½	1030   1"1/2
R Imn	nersion electric heater	mm   Ø	575   2"	660   2"	745   2"	945   2"	945   2"	1120   2"
P Sen	nsor	mm   Ø	486   ½"	548   ½"	398   ½"	441   ½"	441   ½"	490   ½"
T Tem	nperature gauge	mm   Ø	576   ½"	655   ½"	727   ½"	931   ½"	931   ½"	1075   ½"
A Ano	ode	mm   Ø	381   ½"	430   ½"	480   ½"	591   ½"	591   1"1⁄4	700   ½"
AS1 Spa	are	mm   Ø	231   1"½	230   1"½	248   1"½	291   1"½	291   1"½	300   1"1/2
AS2 Spa	ıre	mm   Ø	656   1"1/4	755   1"1⁄4	855   1"1⁄4	1091   1"1⁄4	1091   1"1⁄4	1030   1"1/4
EMPTY W	EIGHTS							
Empty wei	ight	kg	45	50	75	110	115	185

		Capacity	2000	2500	3000	4000	5000
DIM	ENSIONS						
Diar	neter without insulation	mm	1200	1200	1250	1400	1600
Diar	neter with insulation	mm	1400	1300	1350	1500	1700
Ove	rall height	mm	1488	1493	1540	1679	1872
Ove	rall length	mm	2130	2480	2690	2780	2840
CON	INECTIONS						
Е	Cold water supply   Drain	mm   Ø	138   2"1/2	193   3"	190   3"	179   3"	172   3"
U	DHW return	mm   Ø	1488   2"1/2	1493   3"	1540   3"	1679   3"	1872   3"
RC	Recirculation	mm   Ø	1488   1"½	1493   1"½	1540   1"½	1679   1"½	1872   3"
R	Immersion electric heater	mm   Ø	1283   2"	1303   2"	1342   2"	1459   2"	1623   2"
Р	Sensor	mm   Ø	528   ½"	583   ½"	605   ½"	619   ½"	612   ½"
T	Temperature gauge	mm   Ø	1288   ½"	1343   ½"	1390   ½"	1529   ½"	1722   ½"
Α	Anode	mm   Ø	788   ½"	843   ½"	865   ½"	929   ½"	1022   ½"
AS1	Spare	mm   Ø	338   1"½	393   1"½	415   1"½	429   1"½	422   1"1/2
AS2	Spare	mm   Ø	1488   1"1/4	1493   1"1/4	1540   1"1/4	1679   1"1/4	1872   1"1⁄2
EMF	PTY WEIGHTS						
Emp	ty weight	kg	225	300	385	440	475

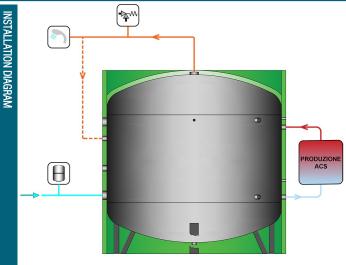


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	Capacity	1500	2000	2500	3000	4000	5000
DIMENSIONS							
Diameter without insulation	mm	1100	1250	1400	1400	1600	1800
Diameter with insulation	mm	1300	1450	1500	1500	1700	1900
Overall height	mm	2015	2019	2119	2369	2460	2483
Overturning height with   without insulation	mm	2245   2055	2300   2075	2415   2245	2640   2475	2785   2590	2880   2645
CONNECTIONS							
E Cold water supply	$mm \mid \emptyset$	485   2"1/2	504   2"1/2	559   3"	559   3"	620   3"	622   3"
J DHW return	mm   Ø	2015   2"1/2	2019   2"½	2119   3"	2369   3"	2460   3"	2483   3"
J2 DHW return	mm   Ø	_	_	_	_	1960   3"	1962   3"
RC Recirculation	mm   Ø	1235   1"½	1219   1"½	1309   1"1/2	1474   1"½	1535   1"½	1537   1"½
R Immersion electric heater	mm   Ø	800   2"	819   2"	874   2"	1004   2"	1065   2"	1067   2"
P1 Sensor	mm   Ø	655   ½"	674   ½"	729   ½"	729   ½"	790   ½"	792   ½"
2 Sensor	mm   Ø	1595   ½"	1564   ½"	1669   ½"	1819   ½"	1880   ½"	1882   ½"
Temperature gauge	mm   Ø	1595   ½"	1564   ½"	1669   ½"	1939   ½"	2000   ½"	2002   ½"
A1 Anode	mm   Ø	870   ½"	864   ½"	944   ½"	929   ½"	990   ½"	992   ½"
A2 Anode	mm   Ø	1535   ½"	1504   ½"	1609   ½"	1819   ½"	1920   ½"	1922   ½"
AS1 Spare	mm   Ø	465   1"1/4	484   1"1/4	539   1"1⁄4	539   1"1⁄4	600   1"1/4	602   1"1/4
AS2 Spare	mm   Ø	1265   1"1⁄4	1284   1"1⁄4	1339   1"1/4	1939   1"1/4	2000   1"1/4	2002   1"1/4
SC Drain	mm   Ø	120   1"1⁄4	104   1"1/4	114   1"1⁄4	114   1"1⁄4	145   1"1⁄4	126   1"1⁄4
EMPTY WEIGHTS							
Empty weight	kg	205	265	375	410	445	585



The proposed diagrams are purely by way of example.

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GENERAL CHARACTERISTICS TA-XX				
	Capacity	3000	4000	5000
DIMENSIONS				
Diameter without insulation	mm	1500	1700	2000
Diameter with insulation	mm	1600	1800	2100
Overall height	mm	2130	2190	2100
Overturning height with   without insulation	mm	2460   2260	2585   2355	2635   2345
CONNECTIONS				
Cold water supply	mm   Ø	560   3"	590   3"	670   3"
J DHW return	mm   Ø	2130   3"	2190   3"	2100   3"
12 DHW return	mm   Ø	1650   3"	1680   3"	1510   3"
RC Recirculation	mm   Ø	1340   1"½	1370   1"½	1320   1"½
Immersion electric heater	mm   Ø	1030   2"	1060   2"	980   2"
21 Sensor	mm   Ø	730   ½"	760   ½"	840   ½"
22 Sensor	mm   Ø	1670   ½"	1700   ½"	1550   ½"
Temperature gauge	mm   Ø	1670   ½"	1700   ½"	1530   ½"
A1 Anode	mm   Ø	540   ½"	570   ½"	650   ½"
A2 Anode	mm   Ø	1590   ½"	1620   ½"	1530   ½"
S1 Spare	mm   Ø	540   1"1/4	570   1"1/4	650   1"1/4
AS2 Spare	mm   Ø	1340   1"1⁄4	1370   1"1⁄4	1450   1"1⁄4
SC Drain	mm   Ø	105   1"1/4	105   1"1⁄4	105   1"1⁄4
EMPTY WEIGHTS				
Empty weight	kg	360	490	575

#### ACCESSORIES & SPARE PARTS ITEM PART NO. THERMOMETER Ø65 mm | L=150 mm | (0÷120)°C TERMOMETRO-D65 L THERMOMETER Ø100 mm | L=150 mm | $(0 \div 120)$ °C TERMOMETRO-D100 PROBE SOCKET ؽ" L=150 mm | $\emptyset_{int}$ 10 mm POZZETTO L PROBE SOCKET THERMOMETER **THERMOSTAT** THERMOSTAT Ø1/2" (0 ÷ 90)°C **TERMOSTATO** ELECTRONIC ANODE KIT 200 ÷ 500 L ANODE012X380 P **ELECTRONIC ANODE KIT 800-1000 L** ANODE012X430 P ELECTRONIC ANODE KIT 1500 ÷ 5000 L ANODE012X430X2 P **ELECTRONIC ANODE**

1-3 PHASE I Threaded plu	MMERSION ELECT ug 2"   Aluminium	RIC HEATER : box IP55   V	- STAINLESS STEEL 316L / INCOLOY TUB 230/400	ES	
Capacity	Capacity/L Matching	Length	1-THERMOSTAT Temperature adjusting	2-THERMOSTAT Temperature adj. & overheating protectior	1
Watt	L	mm	PART NO.	PART NO.	
2000	200÷5000	280	RES020-200-L280-6-M	RES020-200-L280-6-B	
3000	$200 \div 5000$	380	RES030-200-L380-6-M	RES030-200-L380-6-B	
5000	$200 \div 5000$	500	RES050-200-L500-6-M	RES050-200-L500-6-B	
6000	$300 \div 5000$	600	RES060-200-L600-6-M	RES060-200-L600-6-B	4
9000	$500 \div 5000$	680	RES090-200-L680-I-M	RES090-200-L680-I-B	
10000	$500 \div 5000$	680	RES100-200-L680-I-M	RES100-200-L680-I-B	
12000	$800 \div 5000$	820	RES120-200-L820-I-M	RES120-200-L820-I-B	

# SCAMBATOR - BOLLITOR - SERBA

#### ANTI-CORROSION PROTECTION STEEL TREATMENTS

### PROTECTIVE TREATMENTS FOR STAINLESS STEEL TANKS Pickling and passivation

DHW storage tanks made of Stainless Steel 316L are treated with full immersion pickling procedures and subsequent passivation to ensure the highest hygiene standards.

#### **CATHODIC PROTECTION**

The corrosion of a metal structure occurs mainly in areas in which there is the passage of current (oxidation-reduction process) from the structure towards the outside (water or gas) causing a dissolution of the structure itself.

#### Cathodic protection by means of electronic impressed current system.

As an alternative to the galvanic system (coupling of materials with different potentials) there is a protection method which consists in applying an equal and opposite continuous current to the metallic structure to be protected, neutralising the voltages formed inside the tank.

Thanks to the modern techniques there is an innovative electronic system of cathodic protection with continuous impressed current.

The main advantages are:

- active protection by means of impressed currents from the outside;
- excellent flexibility of operation in order to adhere to the changeable internal coating conditions and the mass of water;
- reduction of maintenance costs due to the permanent protection of the system.



#### **INSULATIONS**

Insulating material	Removable	Thickness	Density	Thermal conductivity coefficient at 45°C	Operating Temperature	Fire reaction class Euroclass EN13501-1
PLF Polyester fibre	<b>✓</b>	50 mm	20 kg/m³	$\lambda = 0.037 \text{ W/mK}$	Amb. / +99°C	B-s2, d0
PLFH High Density Polyester fibre	✓	100 mm	25 kg/m³	$\lambda = 0.034 \text{ W/mK}$	Amb. / +99°C	B-s2, d0
Hard foam Polyurethane injected	X	50 ÷ 55 mm	40÷42 kg/m³	$\lambda = 0.019 \text{ W/mK}$	-10°C / +99°C	F

#### 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.

Thanks to its characteristics, PLFH/PLF is an insulating material with the highest performance characteristics, which allows the requirements set by the severest technical standards to be satisfied, guaranteeing the maximum environmental compatibility for its entire life cycle.

#### Hard foam Polyurethane

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

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

#### **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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MADE IN ITALY

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