dal 1968

Pacetti

SCAMBIATORI - BOLLITORI - SERBATOI

TAH-C - TA-C

DHW STORAGE TANK MADE OF ENAMELLED STEEL, EQUIPPED WITH INSPECTION OPENING AND ELECTRONIC ANODE

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

DHW STORAGE TANK MADE OF ENAMELLED STEEL, EQUIPPED W/INSPECTION OPENING & ELECTRONIC ANODE

Storage tank made of CERAMFLON enamelled steel, equipped with inspection opening and electronic anode.

Designed to increase the availability of Domestic Water heated from external sources, increase the thermal inertia and considerably reduce the heat loss thanks to the excellent insulation properties.

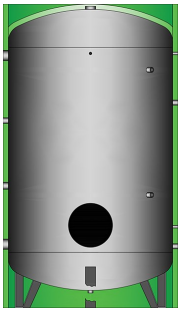
The inspection opening allows checking and cleaning the tank inside, to get maximum hygiene levels.

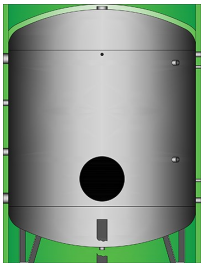
Available from 200 to 5000 litre capacities and over, these tanks can also be manufactured in vertical-low and vertical extra-low versions, to allow them to be installed in all those circumstances where the standard dimension does not fit the available height.

The possibility of selecting between different operating pressure (up to 10 bar) and the availability of external cladding with PVC or aluminium finishing, makes this DHW storage tank range suitable for any kind of installation.

The protection from galvanic currents through the electronic anodes given as standard, allow to save the management costs due to the frequent control and replacement of the traditional magnesium anodes, ensuring greater reliability and duration over time.

CONSTRUCTION





	TAH-C | TA-C	TAH-RC | TA-RC	TA-XC
TANK MATERIAL	Carbon steel	Carbon steel	Carbon steel
INTERNAL SURFACE TREATMENT	CER\AMFLON enamel	CER\AMFLON enamel	CER\AMFLON enamel
EXTERNAL SURFACE TREATMENT	Anti-rust primer	Anti-rust primer	Anti-rust primer
CAPACITY	200÷5000 L	1500÷5000 L	3000÷5000 L
VERSIONY	Vertical	Vertical LOW	Vertical EXTRA LOW
CONNECTIONS TYPE	Threaded	Threaded	Threaded
INSULATION | 200÷500 L	**Hard foam PU** injected 80 mm	—	—
INSULATION | 800÷2000 L	**PLFH** (HD Polyester fibre) 100 mm	**PLFH** (HD Polyester fibre) 100 mm	—
INSULATION | 2500÷5000 L	**PLF** (Polyester fibre) 50 mm	**PLF** (Polyester fibre) 50 mm	**PLF** (Polyester fibre) 50 mm
CLADDING	• PVC Yellow RAL1023 • Aluminium	• PVC Yellow RAL1023 • Aluminium	• PVC Yellow RAL1023 • Aluminium
ANODE	ELECTRONIC	ELECTRONIC	ELECTRONIC
STANDARD ACCESSORIES	THERMOMETER	THERMOMETER	THERMOMETER

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

				Capacity	200	300	500	800	1000	1500	2000
	Energy class				B	B	B	C	C	C	C
TAH-C	Standing loss	S	W		55	64	81	133	144	168	190
	Storage volume	V	L		193	296	505	796	920	1491	1998
	Energy class									C	C
TAH-RC	Standing loss	S	W							167	185
	Storage volume	V	L							1529	1973

WORKING CONDITIONS

	Capacity	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Tank operating pressure	bar	ATM÷8	ATM÷8	ATM÷8	ATM÷8	ATM÷8	ATM÷6	ATM÷6	ATM÷6	ATM÷6	ATM÷6	ATM÷6
Tank operating temperature	°C	AMB÷85	AMB÷85	AMB÷85	AMB÷85	AMB÷85	AMB÷85	AMB÷85	AMB÷85	AMB÷85	AMB÷85	AMB÷85

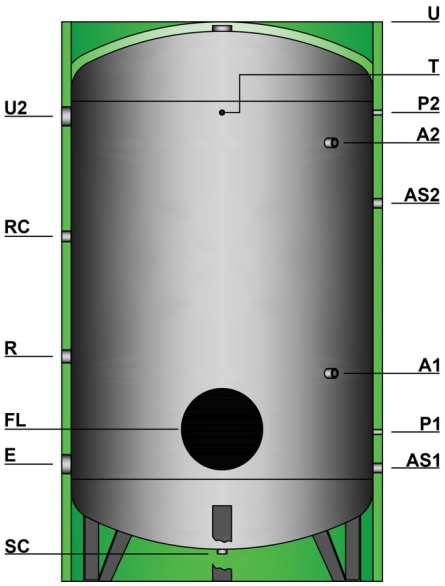
REGULATORY COMPLIANCE

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

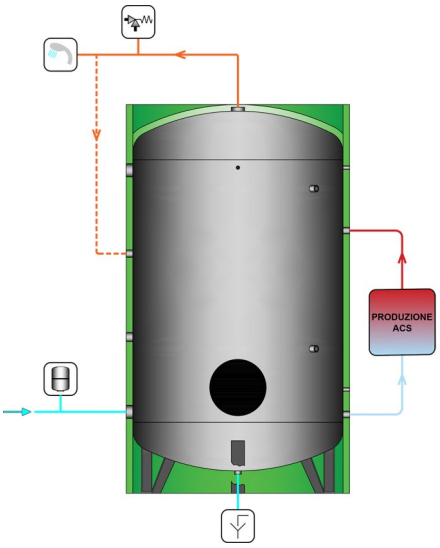
European Pressure Equipment Directive (PED) 2014/68/UE | Sound Engineering Practice - excluded from CE marking - Art. 4.3

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

DHW STORAGE TANK MADE OF ENAMELLED STEEL, EQUIPPED W/INSPECTION OPENING & ELECTRONIC ANODE



INSTALLATION DIAGRAM



The proposed diagrams are purely by way of example.

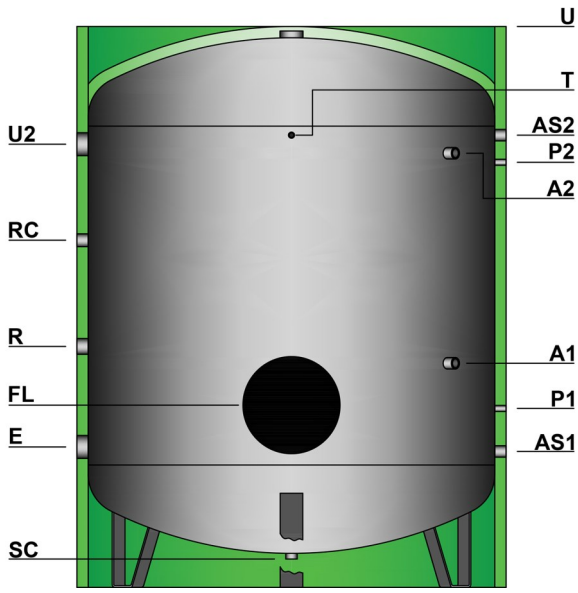
GENERAL CHARACTERISTICS TAH-C | TA-C

		Capacity	200	300	500	800	1000	1500
DIMENSIONS								
Diameter without insulation		mm	450	550	650	800	800	950
Diameter with insulation		mm	610	710	810	1000	1000	1150
Overall height		mm	1515	1554	1844	1950	2200	2510
Overturning height with | without insulation		mm	1577 | —	1638 | —	1936 | —	2114 | 1933	2316 | 2166	2654 | 2502
CONNECTIONS								
E	Cold water supply	mm | Ø	355 | 1"½	369 | 1"½	384 | 1"½	420 | 2"	420 | 2"	465 | 2"½
U	DHW return	mm | Ø	1515 | 1"½	1554 | 1"½	1844 | 1"½	1950 | 2"	2200 | 2"	2510 | 2"½
U2	DHW return	mm | Ø	—	—	—	—	—	—
RC	Recirculation	mm | Ø	1005 | 1"½	1019 | 1"½	1259 | 1"½	1370 | 1"½	1405 | 1"½	1580 | 1"½
R	Immersion electric heater	mm | Ø	775 | 2"	789 | 2"	804 | 2"	1010 | 2"	1010 | 2"	1035 | 2"
P1	Sensor	mm | Ø	475 | ½"	489 | ½"	504 | ½"	610 | ½"	610 | ½"	635 | ½"
P2	Sensor	mm | Ø	1255 | ½"	1269 | ½"	1534 | ½"	1550 | ½"	1700 | ½"	2125 | ½"
T	Thermometer	mm | Ø	1255 | ½"	1269 | ½"	1534 | ½"	1550 | ½"	1800 | ½"	2125 | ½"
A1	Anode	mm | Ø	855 | ½"	869 | ½"	884 | ½"	920 | ½"	920 | ½"	945 | ½"
A2	Anode	mm | Ø	—	—	—	—	—	1965 | ½"
AS1	Spare	mm | Ø	355 | 1"¼	369 | 1"¼	384 | 1"¼	420 | 1"¼	420 | 1"¼	445 | 1"¼
AS2	Spare	mm | Ø	1155 | 1"¼	1169 | 1"¼	1184 | 1"¼	1220 | 1"¼	1820 | 1"¼	1845 | 1"¼
FL	Inspection opening	mm | Ø	475 | 220×300	489 | 220×300	504 | 220×300	610 | 300×380	610 | 300×380	635 | 300×380
SC	Drain	mm | Ø	145 | 1"¼	134 | 1"¼	124 | 1"¼	120 | 1"¼	120 | 1"¼	160 | 1"¼
EMPTY WEIGHTS								
Empty weight		kg	60	70	100	140	150	210

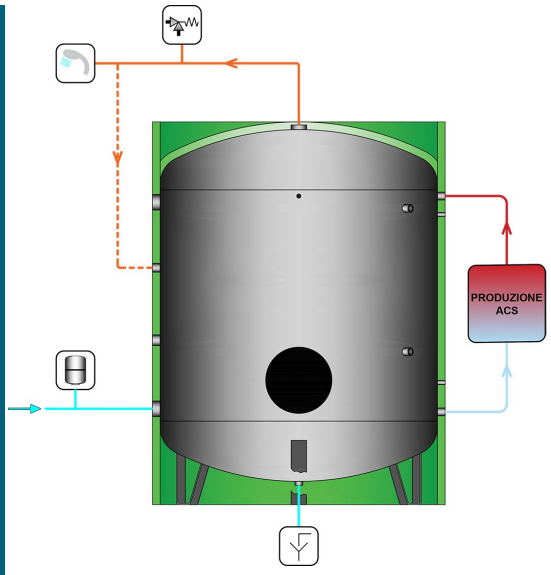
		Capacity	2000	2500	3000	4000	5000
DIMENSIONS							
Diameter without insulation		mm	1100	1200	1250	1400	1600
Diameter with insulation		mm	1300	1300	1350	1500	1700
Overall height		mm	2535	2590	2790	2869	2960
Overturning height with | without insulation		mm	2712 | 2541	2773 | 2600	2990 | 2800	3088 | 2883	3232 | 2982
CONNECTIONS							
E	Cold water supply	mm | Ø	485 | 2"½	530 | 3"	525 | 3"	559 | 3"	620 | 3"
U	DHW return	mm | Ø	2535 | 2"½	2590 | 3"	2790 | 3"	2869 | 3"	2960 | 3"
U2	DHW return	mm | Ø	—	—	—	2399 | 3"	2460 | 3"
RC	Recirculation	mm | Ø	1600 | 1"½	1645 | 1"¼	1730 | 1"½	1764 | 1"½	1825 | 1"½
R	Immersion electric heater	mm | Ø	1055 | 2"	1100 | 2"	1095 | 2"	1129 | 2"	1190 | 2"
P1	Sensor	mm | Ø	655 | ½"	700 | ½"	1005 | ½"	729 | ½"	790 | ½"
P2	Sensor	mm | Ø	2095 | ½"	2190 | ½"	2225 | ½"	2419 | ½"	2480 | ½"
T	Thermometer	mm | Ø	2095 | ½"	2190 | ½"	2385 | ½"	2419 | ½"	2480 | ½"
A1	Anode	mm | Ø	965 | ½"	1010 | ½"	1005 | ½"	1039 | ½"	1100 | ½"
A2	Anode	mm | Ø	1935 | ½"	2030 | ½"	2225 | ½"	2259 | ½"	2320 | ½"
AS1	Spare	mm | Ø	465 | 1"¼	510 | 1"¼	505 | 1"¼	539 | 1"¼	600 | 1"¼
AS2	Spare	mm | Ø	1865 | 1"¼	1910 | 1"¼	1905 | 1"¼	1939 | 1"¼	2000 | 1"¼
FL	Inspection opening	mm | Ø	655 | 300×380	700 | 300×380	695 | 300×380	729 | 350×430	790 | 350×430
SC	Drain	mm | Ø	145 | 1"¼	160 | 1"¼	150 | 1"¼	139 | 1"¼	170 | 1"¼
EMPTY WEIGHTS							
Empty weight		kg	270	340	370	495	585

Note: All the measurements of the connections are considered "from the ground". The thread are female GAS type, unless otherwise specified.
The tanks higher than 2200mm are packaged horizontally. In this case, should the cladding be Aluminium type, it will come disassembled to avoid transportation damages.

DHW STORAGE TANK MADE OF ENAMELLED STEEL, EQUIPPED W/INSPECTION OPENING & ELECTRONIC ANODE



INSTALLATION DIAGRAM



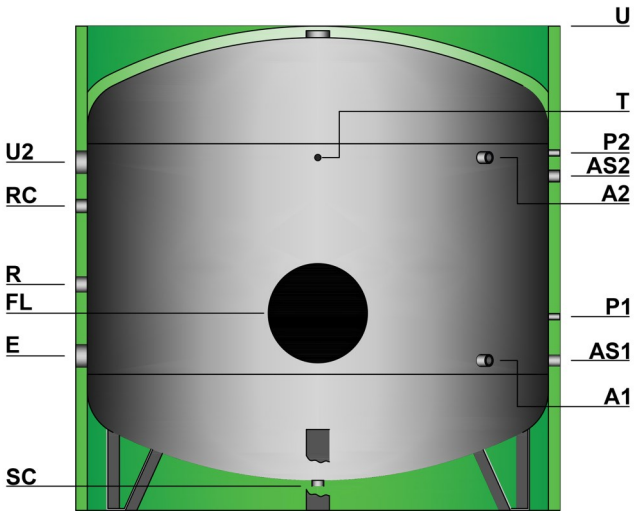
The proposed diagrams are purely by way of example.

GENERAL CHARACTERISTICS TAH-RC | TA-RC

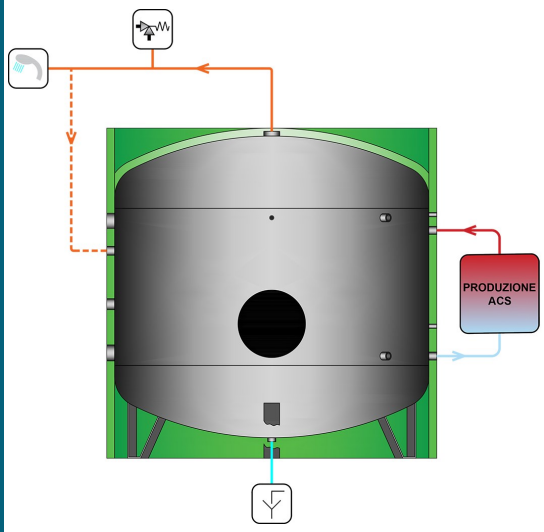
		Capacity	1500	2000	2500	3000	4000	5000
DIMENSIONS								
Diameter without insulation		mm	1100	1250	1400	1400	1600	1800
Diameter with insulation		mm	1300	1450	1500	1500	1700	1900
Overall height		mm	2015	2039	2119	2369	2460	2483
Overturning height with | without insulation		mm	2237 | 2019	2310 | 2059	2410 | 2237	2632 | 2469	2781 | 2582	2874 | 2639
CONNECTIONS								
E	Cold water supply	mm | Ø	485 | 2"½	504 | 2"½	559 | 3"	559 | 3"	620 | 3"	622 | 3"
U	DHW return	mm | Ø	2015 | 2"½	2039 | 2"½	2119 | 3"	2369 | 3"	2460 | 3"	2483 | 3"
U2	DHW return	mm | Ø	—	—	—	—	1960 | 3"	1962 | 3"
RC	Recirculation	mm | Ø	1235 | 1"½	1254 | 1"½	1309 | 1"½	1474 | 1"½	1535 | 1"½	1537 | 1"½
R	Immersion electric heater	mm | Ø	865 | 2"	884 | 2"	939 | 2"	1004 | 2"	1065 | 2"	1067 | 2"
P1	Sensor	mm | Ø	655 | ½"	674 | ½"	729 | ½"	729 | ½"	790 | ½"	792 | ½"
P2	Sensor	mm | Ø	1595 | ½"	1564 | ½"	1669 | ½"	1819 | ½"	1880 | ½"	1882 | ½"
T	Thermometer	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"	1859 | ½"	1920 | ½"	1922 | ½"
AS1	Spare	mm | Ø	465 | 1"¼	484 | 1"¼	539 | 1"¼	539 | 1"¼	600 | 1"¼	602 | 1"¼
AS2	Spare	mm | Ø	1265 | 1"¼	1284 | 1"¼	1339 | 1"¼	1939 | 1"¼	2000 | 1"¼	2002 | 1"¼
FL	Inspection opening	mm | Ø	655 | 300×380	674 | 300×380	729 | 300×380	729 | 300×380	790 | 350×430	792 | 350×430
SC	Drain	mm | Ø	145 | 1"¼	129 | 1"¼	139 | 1"¼	139 | 1"¼	170 | 1"¼	170 | 1"¼
EMPTY WEIGHTS								
Empty weight		kg	225	285	395	430	470	610

Note: All the measurements of the connections are considered "from the ground". The thread are female GAS type, unless otherwise specified.
The tanks higher than 2200mm are packaged horizontally. In this case, should the cladding be Aluminium type, it will come disassembled to avoid transportation damages.

DHW STORAGE TANK MADE OF ENAMELLED STEEL, EQUIPPED W/INSPECTION OPENING & ELECTRONIC ANODE



INSTALLATION DIAGRAM



The proposed diagrams are purely by way of example.

GENERAL CHARACTERISTICS TA-XC

		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	2452 | 2254	2579 | 2348	2628 | 2341
CONNECTIONS					
E	Cold water supply	mm | Ø	560 | 3"	590 | 3"	670 | 3"
U	DHW return	mm | Ø	2130 | 3"	2190 | 3"	2100 | 3"
U2	DHW return	mm | Ø	1650 | 3"	1680 | 3"	1510 | 3"
RC	Recirculation	mm | Ø	1340 | 1"½	1370 | 1"½	1320 | 1"½
R	Immersion electric heater	mm | Ø	1030 | 2"	1060 | 2"	980 | 2"
P1	Sensor	mm | Ø	730 | ½"	760 | ½"	840 | ½"
P2	Sensor	mm | Ø	1670 | ½"	1700 | ½"	1530 | ½"
T	Thermometer	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"
AS1	Spare	mm | Ø	540 | 1"¼	570 | 1"¼	650 | 1"¼
AS2	Spare	mm | Ø	1340 | 1"¼	1370 | 1"¼	1450 | 1"¼
FL	Inspection opening	mm | Ø	730 | 300×380	760 | 350×430	840 | 350×430
SC	Drain	mm | Ø	130 | 1"¼	130 | 1"¼	130 | 1"¼
EMPTY WEIGHTS					
Empty weight		kg	380	515	660

Note: All the measurements of the connections are considered "from the ground". The thread are female GAS type, unless otherwise specified.
The tanks higher than 2200mm are packaged horizontally. In this case, should the cladding be Aluminium type, it will come disassembled to avoid transportation damages.

DHW STORAGE TANK MADE OF ENAMELLED STEEL, EQUIPPED W/INSPECTION OPENING & ELECTRONIC ANODE

HOW TO ORDER

H → ErP compliant (≤ 2000 L)
NULL → Not subject to ErP

V → Vertical
R → Vertical LOW
X → Vertical EXTRA-LOW

6 → 6 bar
8 → 8 bar
0 → 10 bar

A → Aluminium cladding
VUOTO → PVC cladding

TA	H	-	V	8	C	E	8	A	/	0200

5 → Insulation thickness 50 mm
8 → Insulation thickness 80 mm
0 → Insultaion thickness 100 mm

Tank capacity - L

ACCESSORIES & SPARE PARTS

ITEM	CODICE ARTICOLO
THERMOMETER Ø65 mm | L=150 mm | *(0÷120)°C*	*TERMOMETRO-D65_L*
THERMOMETER Ø100 mm | L=150 mm | *(0÷120)°C*	*TERMOMETRO-D100*
PROBE SOCKET Ø½" | L=150 mm | $Ø_{int}$ 10 mm	*POZZETTO_L*
THERMOSTAT Ø½" *(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*


THERMOMETE


PROBE SOCKET

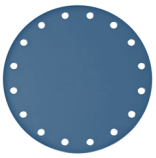

THERMOSTAT


ELECTRONIC ANODE

1-3 PHASE IMMERSION ELECTRIC HEATER - STAINLESS STEEL 316l / 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	200÷5000	280	*RES020-200-L280-6-M*	*RES020-200-L280-6-B*
3000	200÷5000	380	*RES030-200-L380-6-M*	*RES030-200-L380-6-B*
5000	200÷5000	500	*RES050-200-L500-6-M*	*RES050-200-L500-6-B*
6000	300÷5000	600	*RES060-200-L600-6-M*	*RES060-200-L600-6-B*
9000	500÷5000	680	*RES090-200-L680-I-M*	*RES090-200-L680-I-B*
10000	500÷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*

INSPECTION MANHOLE


Blind closing plate made of CERAMFLON enamelled steel


EPDM gasket without cross bar

Diameter *Internal×External*	Capacity	Blind closing plate made of CERAMFLON enamelled steel	EPDM gasket without cross bar
mm	*L*	*Code*	*Code*
220×300	200÷500	*PIASTRAN300-C*	*GUGOMEPDM300X220ST*
300×380	800÷3000	*PIASTRAN380-C*	*GUGOMEPDM380X300ST*
350×430	4000-5000	*PIASTRAN430-C*	*GUGOMEPDM430X350ST*

ANTI-CORROSION PROTECTION STEEL TREATMENTS

PROTECTIVE TREATMENTS FOR CARBON STEEL TANKS

CERAMFLON enamelling

The “CERAMFLON” anti-corrosion treatment is an innovative system for the protection of the metallic walls which has been introduced by the recent developments in the studies on resins, guaranteeing hygiene and many other qualities:

- it is inert and insensitive corrosion thanks to its considerable resistance to ageing;
- it is water-repellent and impermeable to steam and moisture;
- it has a practically zero absorption of humidity and the stability is maintained both at high and low temperatures, so they can withstand even very high thermal excursions;
- it has a high impact resistance and a very low friction coefficient, which avoids large and hazardous adherence phenomena which, in the majority of cases, can be attributed to limescale;
- it has a low dielectric constant which is maintained at variations in operating temperatures.

The application of the resins using triboelectric guns, carried out after careful cleaning of the support, is consolidated on the product after baking in an oven at 200°C.

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 Poluyester fibre	✓	50 mm	20 kg/m³	λ = 0,037 W/mK	Amb. / +99°C	B-s2, d0
PLFH High Density Polyester fibre	✓	100 mm	25 kg/m³	λ = 0,034 W/mK	Amb. / +99°C	B-s2, d0
Hard foam Polyurethane injected	✗	80 mm	40÷42 kg/m³	λ = 0,019 W/mK	-10°C / +99°C	F

PLFH / PLF – Polyester fibre

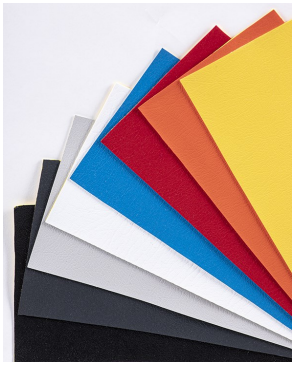
- 100% recyclable
- Environmental friendly
- Lightweight
- Self-supporting
- Fire-retardant
- Rot-proof
- Resistant to mould, bacteria or rodents
- Hypoallergenic
- Water repellent

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	*CODICE ARTICOLO*
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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