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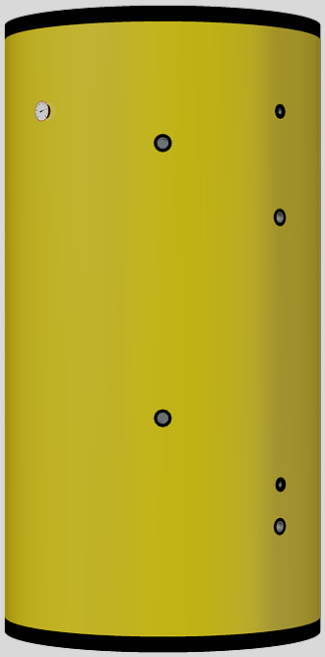
Pacetti

SCAMBIATORI - BOLLITORI - SERBATOI

TA Q



DHW STORAGE TANK

ENERGY EFFICIENCY CLASS A

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

DHW storage tanks designed to satisfy the most rigorous energy requirements in the very latest generation of systems with limited heat loss. Used to increase the availability of DHW heated from external sources, increase the thermal inertia and considerably reduce the heat loss thanks to the insulation properties, at the top of its category.

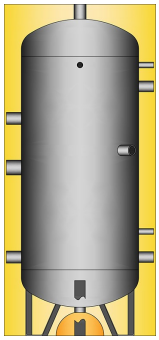
The insulation of the new Q range, made of rigid injected polyurethane with oversized thickness, enables the strict conditions to fall within energy efficiency class A of the ErP standard to be fully satisfied.

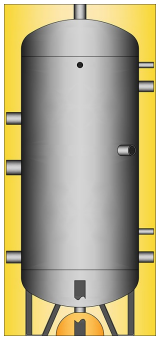
The possibility of selecting between different operating pressure (up to 10 bar) and the availability of external cladding with PVC or aluminium finishing, makes this DHW storage tank range suitable for any kind of installation.

Available in CERAMFLON enamelled steel (**TA-S Q**) or Stainless Steel 316L (**TA-X Q**) to satisfy the most demanding quality requirements.

High performance insulation to achieve energy efficiency class A

CONSTRUCTION





	TA-S Q	TA-X Q
TANK MATERIAL	Carbon Steel	Stainless Steel 316L
INTERNAL SURFACE TREATMENT	CERAMFLON enamel	Pickling and passivation
EXTERNAL SURFACE TREATMENT	Anti-rust primer	Pickling
CAPACITY	200÷5000 L	200÷500 L
VERSION	Vertical	Vertical
CONNECTIONS TYPE	Threaded	Threaded
INSULATION | 200-300 L	**Hard foam polyurethane** injected 80 mm	**Hard foam polyurethane** injected 80 mm
INSULATION | 500 L	**Hard foam polyurethane** injected 105 mm	**Hard foam polyurethane** injected 105 mm
CLADDING	• PVC Yellow RAL1023 • Aluminium	• PVC Yellow RAL1023 • Aluminium
ANODE	Magnesium	—
STANDARD ACCESSORIES	Thermometer	Thermometer

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

			Capacity	200	300	500
	Energy class			A	A	A
TA-S Q	Standing loss	S	W	40	48	54
	Storage volume	V	L	191	293	503
	Energy class			A	A	A
TA-X Q	Standing loss	S	W	39	47	54
	Storage volume	V	L	192	294	504

WORKING CONDITIONS

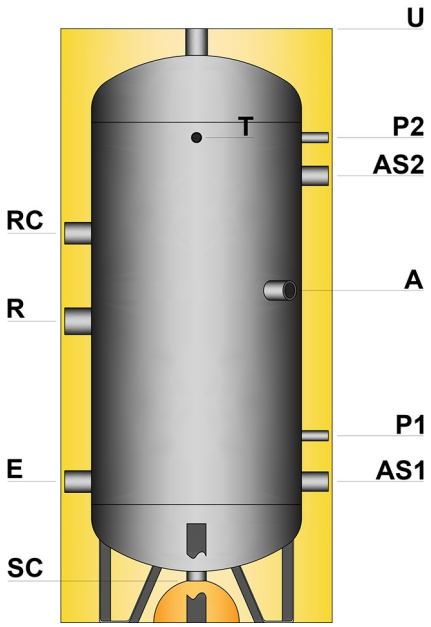
	Capacity	200	300	500
Tank operating pressure (enamelled steel version)	bar	ATM÷8	ATM÷8	ATM÷8
Tank operating pressre (Stainless Steel 316L version)	bar	ATM÷10	ATM÷10	ATM÷10
Tank operating temperature (enamelled steel version)	°C	AMB÷85	AMB÷85	AMB÷85
Tank operating temperature (Stainless Steel 316L version)	°C	AMB÷99	AMB÷99	AMB÷99

REGULATORY COMPLIANCE

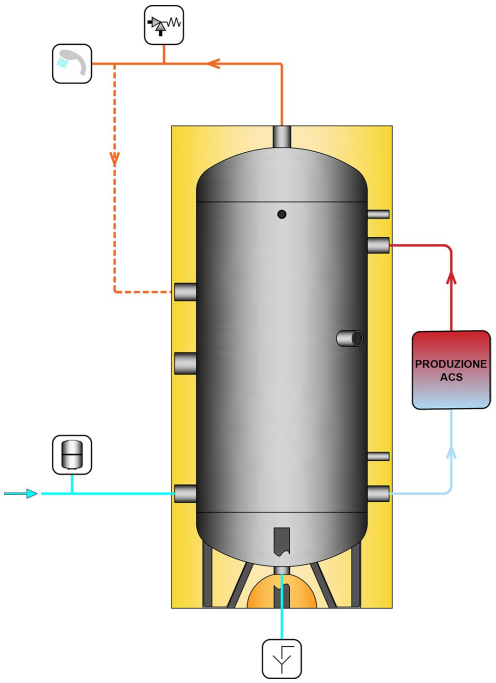
ErP - Reg. 812/2013 e Reg. 814/2013 | CE

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



INSTALLATION DIAGRAM



The proposed diagrams are purely by way of example.

GENERAL CHARACTERISTICS

		Capacity	200	300	500
DIMENSIONS					
Diameter without insulation		mm	450	550	650
Diameter with insulation		mm	610	710	860
Overall height		mm	1513	1554	1874
Overturning height with | without insulation		mm	1635	1710	2065
ATTACCHI IDRAULICI					
E	Cold water supply	mm | Ø	353 | 1"½	369 | 1"½	384 | 1"½
U	DWH return	mm | Ø	1513 | 1"½	1554 | 1"½	1874 | 1"½
RC	Recirculation	mm | Ø	1003 | 1"½	1019 | 1"½	1259 | 1"½
R	Immersion electric heater	mm | Ø	773 | 2"	789 | 2"	804 | 2"
A	Anode TA-S Q	mm | Ø	853 | 1"¼	870 | 1"¼	884 | 1"¼
A	Anode TA-X Q	mm | Ø	853 | ½"	870 | ½"	884 | ½"
T	Thermometer	mm | Ø	1253 | ½"	1269 | ½"	1534 | ½"
P1	Sensor	mm | Ø	473 | ½"	490 | ½"	504 | ½"
P2	Sensor	mm | Ø	1253 | ½"	1270 | ½"	1534 | ½"
AS1	Spare	mm | Ø	353 | 1"¼	370 | 1"¼	384 | 1"¼
AS2	Spare	mm | Ø	1153 | 1"¼	1170 | 1"¼	1184 | 1"¼
SC	Drain	mm | Ø	118 | 1"¼	109 | 1"¼	99 | 1"¼
EMPTY WEIGHT					
Empty weight TA-S Q | TA-X Q		kg	55	65	100

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.

HOW TO ORDER

- 8 → 8 bar
  0 → 10 bar
- S → CERAMFLON enamelled steel
  X → Stainless Steel 316L
- T → Magnesium anode (TA-S Q)
  X → Tester anode (TA-S Q)
  E → Electronic anode
  N → No anode (TA-X Q)
- 8 → Insulation thickness 80 mm (200-300 l)
  0 → Insulation thickness 105 mm (500 l)
- A → Aluminium clad
  Null → PVC clad
- Capacity - L

TAQ	-	V	8	S	T	8	A	/	0300

ACCESSORIES & SPARE PARTS

ITEM	PART NO.
THERMOMETER Ø65 mm | L=150 mm | *(0÷120)°C*	*TERMOMETRO-D65_L*
PROBE SOCKET Ø½" | L=150 mm | $Ø_{int}$ 10 mm	*POZZETTO_L*
THERMOSTAT Ø½" *(0÷90)°C*	*TERMOSTATO*
MAGNESIUM ANODE (TA-S Q)	*KIT-ANOD_02*
MAGNESIUM ANODE WITH TESTER (TA-S Q)	*KIT-ANOD-TESTER_01*
MAGNESIUM ROD FOR TESTER ANODE (TA-S Q)	*KIT-ANOD-T_01*
ELECTRONIC ANODE KIT	*ANODE012X380_P*


THERMOMETER


PROBE SOCKET


THERMOSTAT


MAGNESIUM ANODE


TESTER ANODE


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÷500	280	*RES020-200-L280-6-M*	*RES020-200-L280-6-B*
3000	200÷500	380	*RES030-200-L380-6-M*	*RES030-200-L380-6-B*
5000	200÷500	500	*RES050-200-L500-6-M*	*RES050-200-L500-6-B*
6000	300-500	600	*RES060-200-L600-6-M*	*RES060-200-L600-6-B*
9000	500	680	*RES090-200-L680-I-M*	*RES090-200-L680-I-B*
10000	500	680	*RES100-200-L680-I-M*	*RES100-200-L680-I-B*

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.

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 magnesium anodes.

The application of sacrificial magnesium anodes is a simple and economic method to obtain a cathodic protection.
The sacrificial anode creates a situation similar to an electric battery, where the electrodes are represented by the anode and the metal structure to be protected.
Since the magnesium has a dissolution voltage which is much higher than that of other metals, the corrosion will only affect the anode, which will dissolve slowly, to the advantage of the metal structure to be protected.
Given the importance of the protection of the metal against corrosion, the wear of the anode is systematically controlled and it is immediately replaced if consumed.

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	Operating temperature	Fire reaction class Euroclass EN13501-1
Hard foam polyurethane injected	✗	80 - 105 mm	40÷42 kg/m³	λ = 0,019 W/mK	-10°C / +99°C	F

Rigid 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.

The extremely low thermal conductivity coefficient allows it to perfectly fulfil the limits stated by the ErP directive.

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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www.pacetti.it

MADE IN ITALY

PACETTI S.r.l.
Via G. Marconi, 240/242
44122 - Ferrara - ITALY
Tel. +39 0532 774066
Fax +39 0532 773835
info@pacetti.it