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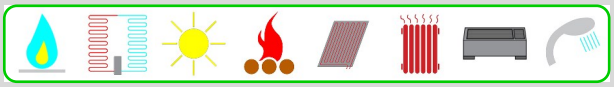
Pacetti

SCAMBIATORI - BOLLITORI - SERBATOI



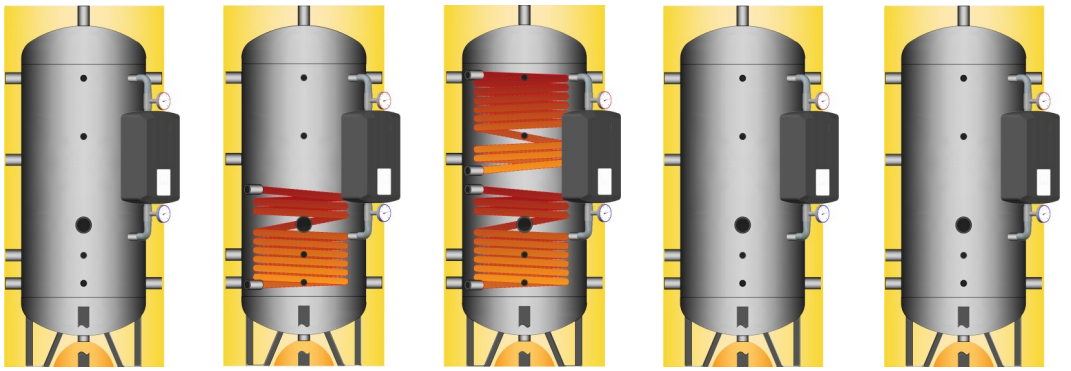
TANKO FAST+

BUFFER VESSEL FOR HEATING WATER STORAGE
AND INSTANT DHW PRODUCTION - ENERGY CLASS A

BUFFER VESSEL FOR HEATING WATER STORAGE AND INSTANT DHW PRODUCTION - ENERGY CLASS A

TANKO **FAST+** is a hot water storage tank from the **Q** range, capable of guaranteeing high performance and minimal heat loss. The efficiency of a class 'A' storage tank, in accordance with ErP regulations, integrated into the most advanced and demanding systems, allows to obtain the highest performance from the connected generators and raise the quality standard of the heating system to the highest level in terms of quality, versatility and savings.
The insulation made of rigid polyurethane injected minimises heat loss, promotes thermal balance and helps to create the best operating conditions for the heat sources managed, reducing the number of starts and optimising their efficiency. This results in a significant reduction in operating costs and an increase in the reliability and durability of the whole system.
TANKO-1 **FAST+** and TANKO-2 **FAST+** versions are equipped with large heating surface built-in spiral coils for connecting 1 or 2 additional energy sources for heat transfer.
The hygienic fresh water station **ASAP** produces Domestic Hot Water at a set temperature that is perfectly stabilised even in the event of temperature variations in the storage tank, thanks to the automatic flow rate adjustment system of the high-efficiency electronic circulator, which adapts to the demand of the users and the storage temperature.
The plate heat exchanger in AISI 316 guarantees maximum hygiene without any risk of legionella presence or formation.
The possibility of combining an additional circulator for the DHW recirculation circuit completes a high-efficiency system that can be adapted to all situations.
Extra insulation with very high efficiency to achieve energy efficiency class 'A' according to ErP Directive.

CARATTERISTICHE COSTRUTTIVE



	TANKO-G **FAST+**	TANKO-1 **FAST+**	TANKO-2 **FAST+**	TANKO-Z **FAST+**	TANKO-X **FAST+**
TANK MATERIAL	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel AISI 316L
SPIRAL COIL MATERIAL	—	Carbon Steel	Carbon Steel	—	—
INT. SURFACE STEEL TREATMENT	—	—	—	Hot-dip galvanising	—
EXT. SURFACE STEEL TREATMENT	Antirust primer	Antirust primer	Antirust primer	Hot-dip galvanising	Pickling
CAPACITY	200÷500 L	200÷500 L	300-500 L	200÷500 L	200÷500 L
VERSION	Vertical	Vertical	Vertical	Vertical	Vertical
CONNECTION TYPE	Threaded	Threaded	Threaded	Threaded	Threaded
INSULATION | 200-300 L	Hard foam polyurethane 80 mm injected	Hard foam polyurethane 80 mm injected	Hard foam polyurethane 80 mm injected	Hard foam polyurethane 80 mm injected	Hard foam polyurethane 80 mm injected
INSULATION | 500 L	Hard foam polyurethane 105 mm injected	Hard foam polyurethane 105 mm injected	Hard foam polyurethane 105 mm injected	Hard foam polyurethane 105 mm injected	Hard foam polyurethane 105 mm injected
CLADDING	Light grey PVC - RAL7035	Light grey PVC - RAL7035	Light grey PVC - RAL7035	Light grey PVC - RAL7035	Light grey PVC - RAL7035

Energy efficiency class—Regulation EU 812/2013 & 814/2013 | European Directive 2009/125/CE

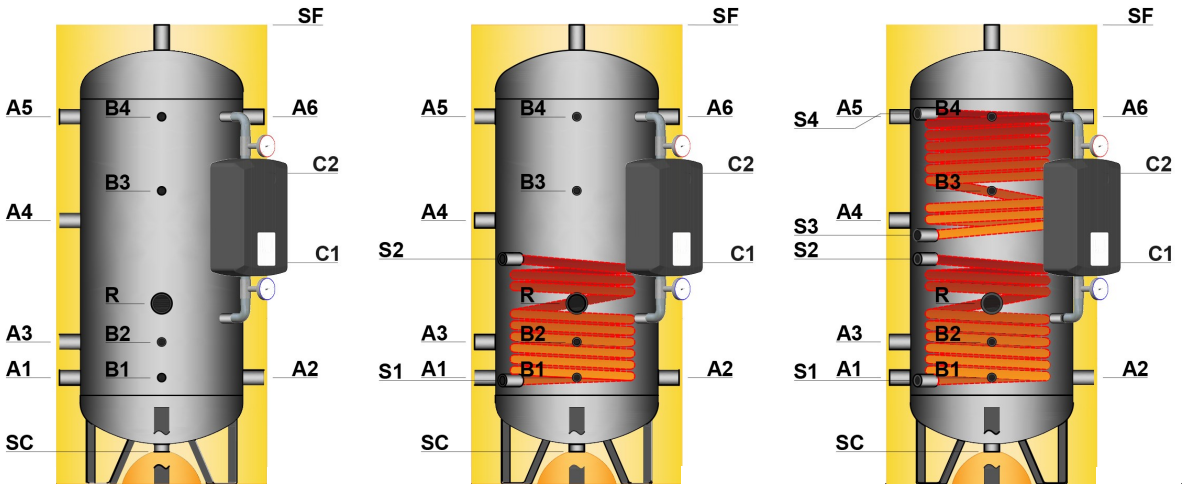
				Capacity - L	200	300	500
TANKO-G **FAST Q** TANKO-Z **FAST Q**	Energy efficiency class				A	A	A
	Standing loss	S	W		42	46	52
	Storage total volume	V	L		191	288	478
TANKO-1 **FAST Q**	Energy efficiency class				A	A	A
	Standing loss	S	W		43	47	53
	Storage total volume	V	L		184	281	470
TANKO-2 **FAST Q**	Energy efficiency class					A	A
	Standing loss	S	W			48	53
	Storage total volume	V	L			274	461
TANKO-X **FAST Q**	Energy efficiency class				A	A	A
	Standing loss	S	W		42	46	52
	Storage total volume	V	L		191	288	478

STANDARD WORKING CONDITIONS

			Capacity - L	200	300	500
Working pressure	Carbon Steel & Galvanised Steel tank		bar	ATM÷8	ATM÷8	ATM÷6
	Stainless Steel tank		bar	ATM÷10	ATM÷10	ATM÷8
	Spiral coil		bar	ATM÷10	ATM÷10	ATM÷10
Working temperature	Carbon Steel & Stainless Steel tank		°C	-10÷99	-10÷99	-10÷99
	Galvanised Steel tank		°C	-10÷95	-10÷95	-10÷95
	Spiral coil		°C	AMB÷110	AMB÷110	AMB÷110

REGULATORY COMPLIANCE

Tank	Fresh water station
PED 2014/68/EU - Art. 4.3 - SEP - exclusion from CE marking	D.M. 174/04 or Reg. (CE) 1935/04 Compatible with potable water
ErP - Reg. 812/2013 & Reg. 814/2013 | European Directive 2009/125/CE	SVGW



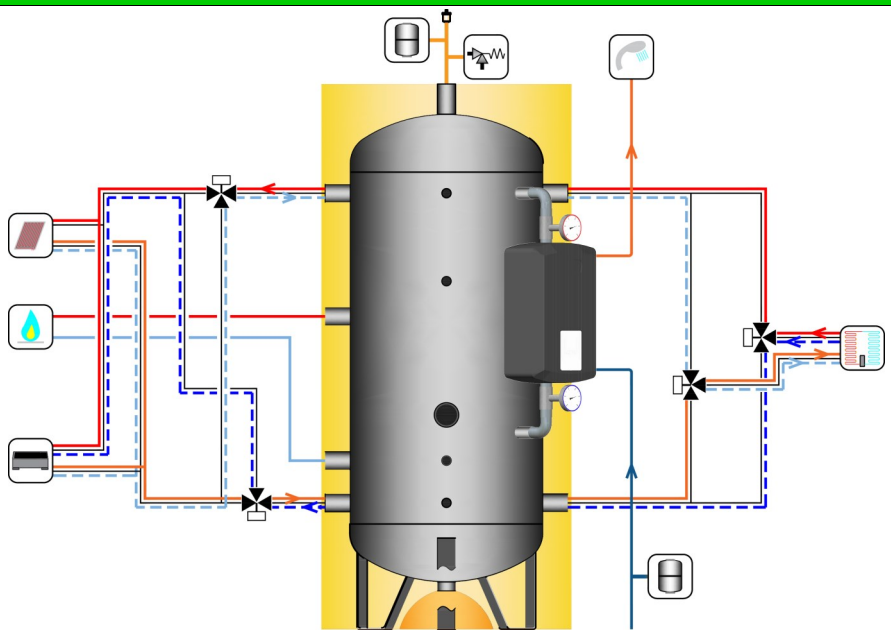
GENERAL CHARACTERISTICS

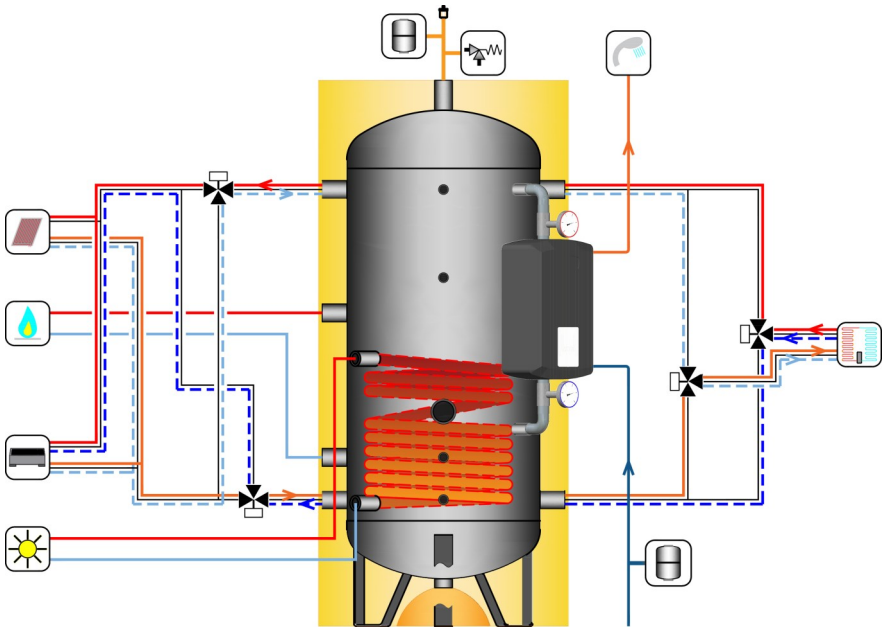
		Capacity - Litre	200	300	500
DIMENSIONS					
Diameter without insulation		mm	450	550	650
Diameter with insulation		mm	610	710	860
Overall height		mm	1415	1550	1776
Overturning height		mm	1541	1704	1973
CONNECTIONS—Diameter | Height from ground					
A1-A2	Spare	mm | Ø	240 | 1"	360 | 1"¼	336 | 1"¼
A3	Spare	mm | Ø	360 | 1"	480 | 1"¼	586 | 1"¼
A4	Spare	mm | Ø	770 | 1"	890 | 1"¼	1036 | 1"¼
A5-A6	Spare	mm | Ø	1120 | 1"	1240 | 1"¼	1466 | 1"¼
B1	Sensor	mm | Ø	240 | ½"	360 | ½"	336 | ½"
B2	Sensor	mm | Ø	360 | ½"	480 | ½"	586 | ½"
B3	Sensor	mm | Ø	880 | ½"	990 | ½"	1076 | ½"
B4	Sensor	mm | Ø	1120 | ½"	1240 | ½"	1466 | ½"
C1	Fresh water supply	mm | Ø	641 | ¾"M	761 | ¾"M	987 | ¾"M
C2	Domestic Hot water return	mm | Ø	919 | ¾"M	1039 | ¾"M	1265 | ¾"M
R	Immersion electric heater	mm | Ø	615 | 2"	630 | 2"	736 | 2"
S1	Lower coil return	mm | Ø	240 | 1"	350 | 1"	326 | 1"
S2	Lower coil supply	mm | Ø	860 | 1"	760 | 1"	856 | 1"
S3	Upper coil return	mm | Ø	—	840 | 1"	946 | 1"
S4	Upper coil supply	mm | Ø	—	1250 | 1"	1476 | 1"
SF	Air purge	mm | Ø	1380 | 1"¼	1550 | 1"¼	1776 | 1"¼
SC	Drain	mm | Ø	—	110 | 1"¼	101 | 1"¼
FRESH WATER STATION PERFORMANCES - ASAP-30					
DHW production (10-45)°C with buffer tank at 50°C		l/min	16	16	16
DHW production (10-45)°C with buffer tank at 60°C		l/min	25	25	25
DHW production (10-45)°C with buffer tank at 70°C		l/min	33	33	33
FRESH WATER STATION PERFORMANCES - ASAP-40					
DHW production (10-45)°C with buffer tank at 50°C		l/min	21	21	21
DHW production (10-45)°C with buffer tank at 60°C		l/min	35	35	35
DHW production (10-45)°C with buffer tank at 70°C		l/min	46	46	46
HEAT EXCHANGER PERFORMANCES					
Lower Heat Exchanger | Heating surface area		**m²**	**1,3**	**1,5**	**2,3**
Lower Heat Exchanger | output (Primary 80/60°C - buffer tank average temperature 60°C)		kW	12	14	21
Upper Heat Exchanger | Heating surface area		**m²**	**—**	**1,5**	**2,3**
Upper Heat Exchanger | output (Primary 80/60°C - buffer tank average temperature 60°C)		kW	—	14	21
EMPTY WEIGHT					
TANKO-G ***FAST+*** | TANKO-Z ***FAST+*** | TANKO-X ***FAST+***		kg	55	72	100
TANKO-1 ***FAST+***		kg	72	91	130
TANKO-2 ***FAST+***		kg	—	110	160

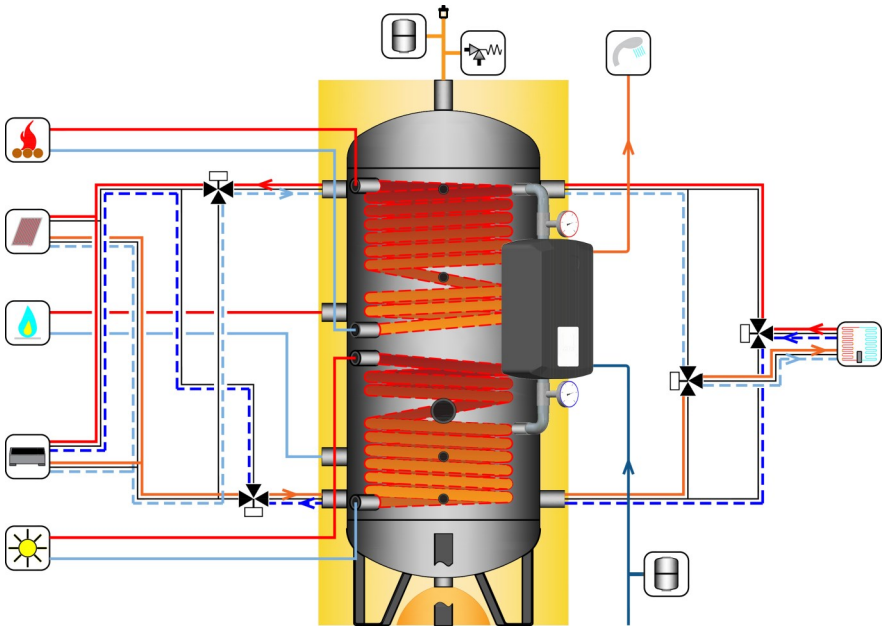
Note: All the measurements of the connections are considered "from the ground". The thread are female GAS type, unless otherwise specified.
The tanks higher than 2200mm are packaged horizontally.

BUFFER VESSEL FOR HEATING WATER STORAGE AND INSTANT DHW PRODUCTION - ENERGY CLASS A

INSTALLATION DIAGRAM EXAMPLES

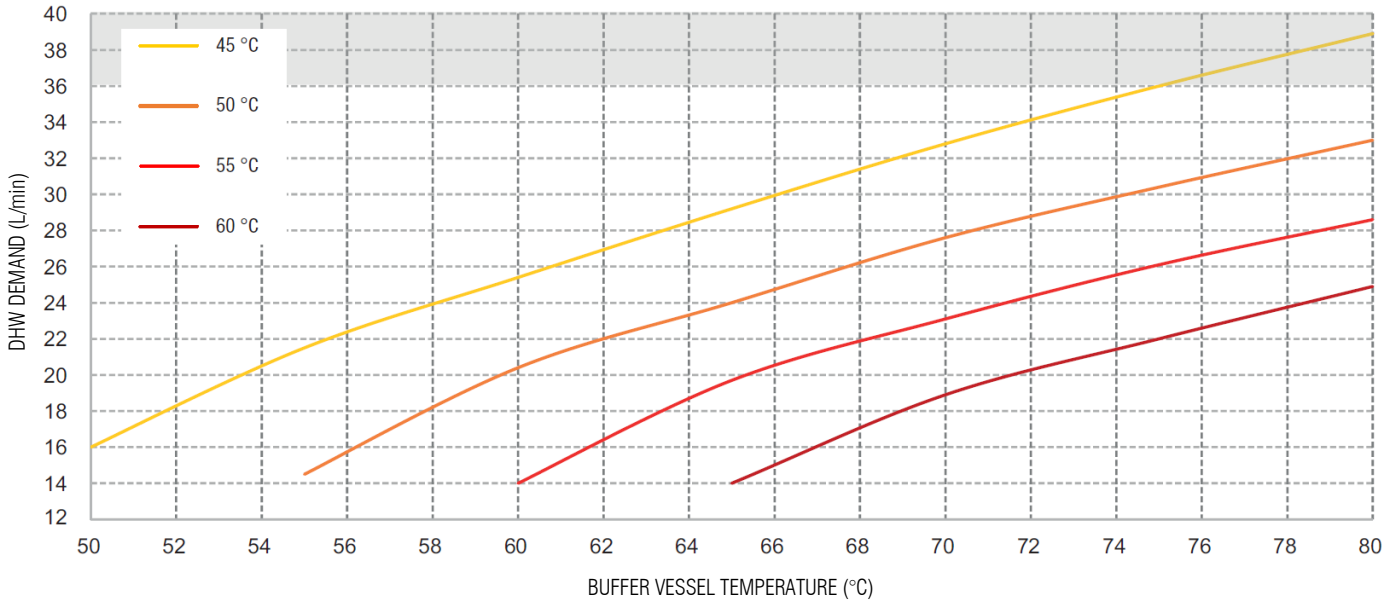




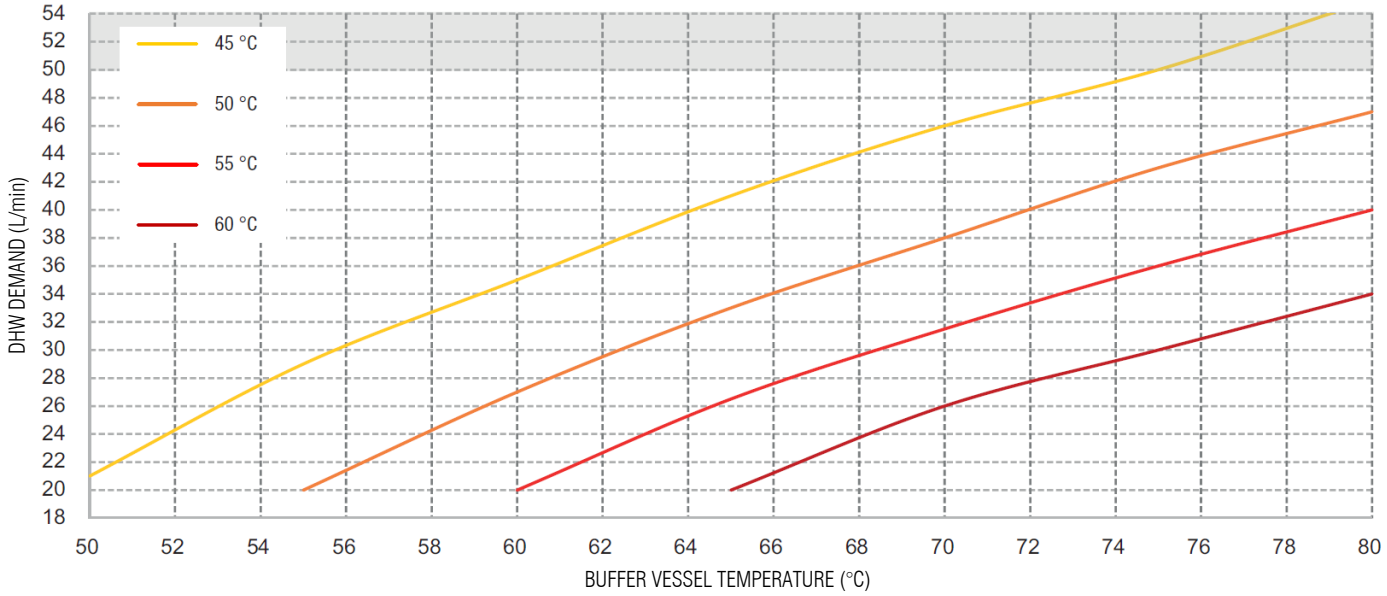


The proposed diagrams are purely indicative

INSTANT DHW PRODUCTION DIAGRAM - ASAP-30 *(for more info see ASAP brochure)*



INSTANT DHW PRODUCTION DIAGRAM - ASAP-40 *(for more info see ASAP brochure)*



HOW TO ORDER

F0 → no heat exchanger
F1 → 1 heat exchanger
F2 → 2 heat exchanger

6 → 6 bar
8 → 8 bar
0 → 10 bar

G → Carbon steel
Z → Galvanised steel
X → Stainless Steel 316L

B → PVC cladding
A → ALU cladding

3 → Fresh water station ASAP-30
4 → Fresh water station ASAP-40

Storage capacity—L

TANKO	-	F0	-	V	0	G	B	/	200	+	3

ACCESSORIES & SPARE PARTS

ITEM	*PART NO.*
THERMOMETER Ø65 mm | L=50 mm | *(0÷120)°C*	*TERMOMETRO-D65_S*
PROBE SOCKET Ø½" | L=50 mm | $Ø_{int}$ 10 mm	*POZZETTO_S*
THERMOSTAT *Ø½" (0÷90)°C*	*TERMOSTATO*


THERMOMETER


PROBE SOCKET


THERMOSTAT

RESISTENZE ELETTRICHE MONO/TRIFASE IN ACCIAIO INOX 316 / INCOLOY
Attacco filettato da 2" | Scatola allumino protezione IP55 | V230/400

Capacity	Capacity/L matching	Lenght	1-THERMOSTAT Temp. regulation only	2-THERMOSTAT Temp. regulation & element protection from overtemp.
Watt	*Litre*	*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	300-500	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

Hot dip galvanising

The corrosion treatment by hot dip galvanising in accordance with UNI EN ISO 1461 is carried out by immersion of the chemically pickled tank in a bath of molten zinc at a temperature of approximately 450°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.

INSULATIONS

Insulating material	Removable	Thickness	Density	Thermal conductivity coefficient at 45°C	Operating temperature	Fire reaction class Euroclass EN13501-1
Hard foam Polyurethane	✗	80 ÷ 105 mm	40÷42 kg/m³	λ = 0,019 W/mK	-10°C / +99°C	F

Hard foam Polyurethane

Thermal and anti-condensation insulation made of hard closed cell polyurethane foam (PU).
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.
In the personalised TLR storage tanks the choice of the alternative colour is free of cost and does not incur any surcharge.

ITEM	*PART NUMBER*
PVC COVER YELLOW RAL1023	*COVER-RAL1023*
PVC COVER ORANGE RAL2004	*COVER-RAL2004*
PVC COVER RED RAL3000	*COVER-RAL3000*
PVC COVER BLUE RAL5015	*COVER-RAL5015*
PVC COVER WHITE RAL9016	*COVER-RAL9016*
PVC COVER LIGHT GREY RAL7035	*COVER-RAL7035*
PVC COVER DARK GREY RAL7024	*COVER-RAL7024*
PVC COVER 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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