







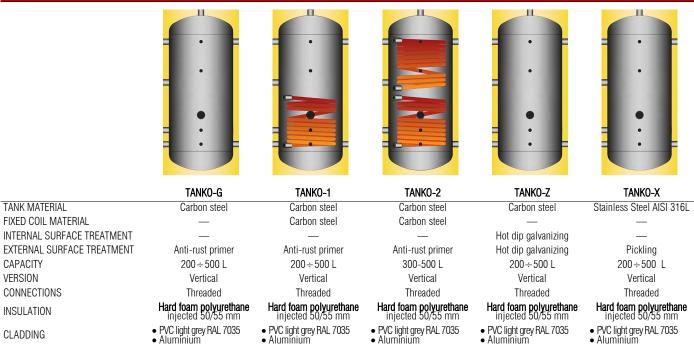
Buffer vessels for hot and cold water storage, designed to increase the thermal inertia in heating and inverter air conditioning systems connected to heat pump or any other heating source.

The thermal insulation of the tank guarantees minimum heat loss and allows limited variations in the temperature of the water stored, resulting in a reduced number of start-ups of the connected heating sources and operating costs saving.

The TANKO-1 and TANKO-2 versions are equipped with fixed spiral coils to enable connection of 1 or 2 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



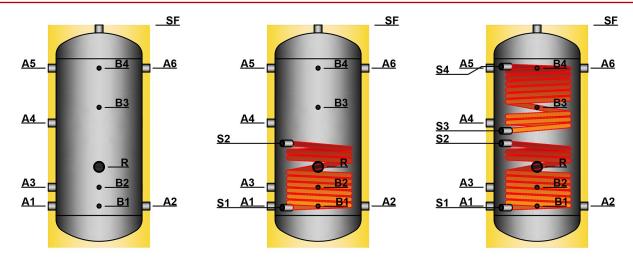
PRODUCT FICHE	- Reg. 812/2013 supplementing Direct	tive 2010/30/EU	& Reg 814/201	3 implementing Directive 20	009/125/EC	
			Capacity	200	300	500
	Energy efficiency class			В	В	С
TANKO-G	Standing loss	S	W	56	68	90
	Storage volume	V	L	190	288	478
	Energy efficiency class			В	В	С
TANKO-1	Standing loss	S	W	55	68	90
	Storage volume	V	L	184	281	469
	Energy efficiency class				В	С
TANKO-2	Standing loss	S	W		68	90
	Storage volume	V	L		273	460
	Energy efficiency class			В	В	С
TANKO-Z	Standing loss	S	W	56	68	90
	Storage volume	V	L	190	288	478
	Energy efficiency class			В	В	С
TANKO-X	Standing loss	S	W	56	68	90
	Storage volume	V	L	190	288	478

	Capacity	200	300	500
Tank working pressure (carbon steel)	bar	ATM÷8	ATM÷8	ATM÷6
Tank working pressure (galvanized steel)	bar	ATM÷8	ATM÷8	ATM÷6
Tank working pressure (Stainless Steel)	bar	ATM÷10	ATM÷10	ATM÷8
Tank working temperature (carbon steel)	°C	-10÷99	-10÷99	-10÷99
Tank working temperature (galvanized steel)	°C	-10÷95	-10÷95	-10÷95
Tank working temperature (Stainless Steel)	°C	-10÷99	-10÷99	-10÷99
Fixed coil working pressure	bar	ATM÷10	ATM÷10	ATM÷10
Fixed coil working temperature	°C	AMB÷110	AMB÷110	AMB÷110

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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	200	300	500
DIMENS	IONS				
Diamete	r without insulation	mm	450	550	650
Diamete	r with insulation	mm	550	650	760
Overall h	neight	mm	1380	1420	1640
Overturn	ing height	mm	1486	1562	1803
CONNEC	CTIONS				
A1-A2	Inlet / Outlet	mm Ø	240 1"	265 1"1⁄4	250 1"1⁄4
A3	Inlet / Outlet	mm Ø	360 1"	385 1"1⁄4	500 1"1⁄4
A4	Inlet / Outlet	mm Ø	770 1"	795 1"1⁄4	950 1"1⁄4
A5-A6	Inlet / Outlet	mm Ø	1120 1"	1145 1"1⁄4	1380 1"1⁄4
B1	Sensor	mm Ø	240 ½"	265 ½"	250 ½"
B2	Sensor	mm Ø	360 ½"	385 ½"	500 ½"
B3	Sensor	mm Ø	880 ½"	895 ½"	990 ½"
B4	Sensor	mm Ø	1120 ½"	1145 ½"	1380 ½"
R	Immersion electric heater	mm Ø	615 2"	535 2"	650 2"
S1	Lower coil return	mm Ø	240 1"	255 1"	240 1"
S2	Lower coil supply	mm Ø	860 1"	665 1"	770 1"
S3	Upper coil return	mm Ø	_	745 1"	860 1"
S4	Upper coil supply	mm Ø	—	1155 1"	1390 1"
SF	Air vent	mm Ø	1380 1"1⁄4	1420 1"1⁄4	1640 1"1⁄4
FIXED C	OIL CAPACITY				
Lower co	oil heating surface area	m²	1,3	1,5	2,3
Lower co	pil capacity (Primary 80/60°C - Average storage temperature 60°C)	kW	12	14	21
Upper co	oil heating surface area	m²	—	1,5	2,3
Upper co	oil capacity (Primary 80/60°C - Average storage temperature 60°C)	kW	—	14	21
EMPTY	WEIGHT				
No coil -	—> TANKO-G TANKO-Z TANKO-X	kg	40	50	71
1-coil —	-> TANKO-1	kg	57	69	101
2-coil —	-> Tanko-2	kg	_	81	131

FIXED COIL PERFORMANCE

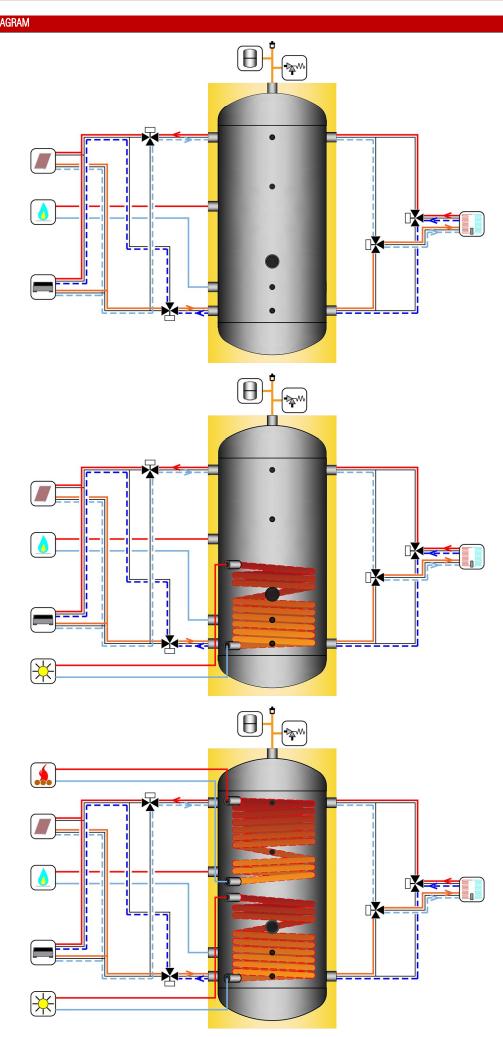
Primary (80–60)°C	I	Secondary	(50-70)°C
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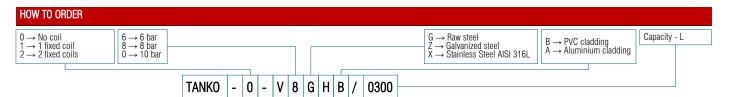
				SECOND	ARY SIDE
Storage volume	Fixed coil heating surface area	Capacity	Primary flow	Hydraulic head	Water content
L	m²	kW	litri/h	kPa	L
200	1,3	12	516	1,8	6,5
300	1,5	14	602	2	7,5
500	2,3	21	903	4	11,5

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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.





ACCESSORIES & SPARE PARTS

ITEM				
	PART NO.			
THERMOMETER Ø65 mm L=50 mm (0÷120)°C	TERMOMETRO-D65_S			
PROBE SOCKET Ø1/2" L=50 mm Ø _{int} 10 mm	POZZETTO_S			
THERMOSTAT ؽ" (0÷90)°C	TERMOSTATO	THERMOMETER	PROBE SOCKET	THERMOSTAT

		•	S STEEL 316I / INCOLOY TUBES	
Capacity	Capacity/L matching	Length	1-THERMOSTAT Temperature adjusting only	2-THERMOSTAT Temperature adj. & overheating protection
Watt	L	mm	PART NO.	PART NO.
2000	$200 \div 500$	280	RES020-200-L280-6-M	RES020-200-L280-6-B
3000	$200 \div 500$	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

TANKO

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 Thermal Operating Fire reaction class Insulating material Removable Thickness Densitv conductivity temperature Euroclass EN13501-1 coefficient at 45°C Х $\lambda = 0.019 \text{ W/mK}$ F Hard foam Polyurethane injected 50 ÷ 55 mm 40÷42 kg/m3 -10°C / +99°C

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.

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

22
22
5
-5
8
1
No.
22
5
151

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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