

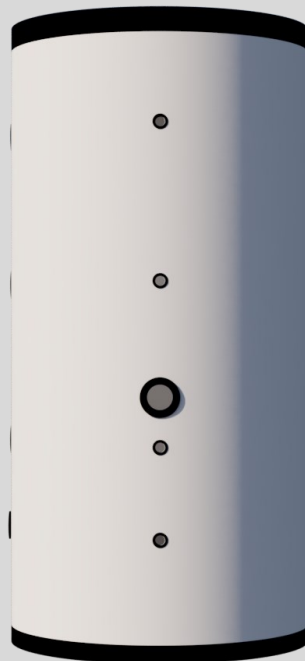
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SCAMBIATORI - BOLLITORI - SERBATOI



TANKO



BUFFER VESSEL FOR HOT AND COLD WATER STORAGE

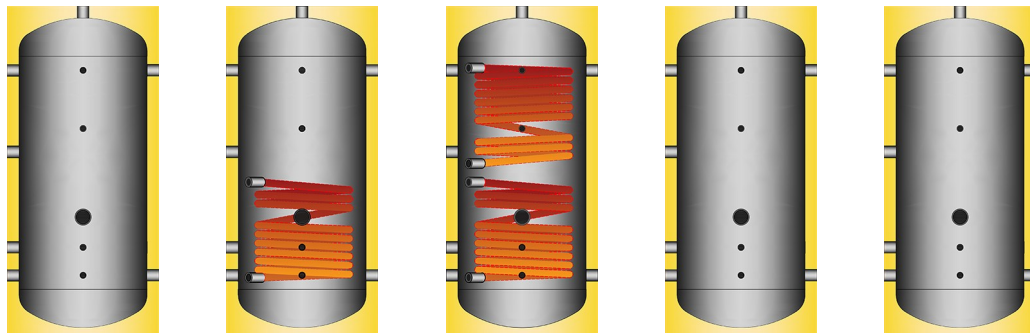
Buffer vessels for hot and cold water storage, designed to increase the thermal inertia in heating and inverter air conditioning systems connected to heat pump or any other heating source.

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



	TANKO-G	TANKO-1	TANKO-2	TANKO-Z	TANKO-X
TANK MATERIAL	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Stainless Steel AISI 316L
FIXED COIL MATERIAL	—	Carbon steel	Carbon steel	—	—
INTERNAL SURFACE TREATMENT	—	—	—	Hot dip galvanizing	—
EXTERNAL SURFACE TREATMENT	Anti-rust primer	Anti-rust primer	Anti-rust primer	Hot dip galvanizing	Pickling
CAPACITY	200 ÷ 500 L	200 ÷ 500 L	300-500 L	200 ÷ 500 L	200 ÷ 500 L
VERSION	Vertical	Vertical	Vertical	Vertical	Vertical
CONNECTIONS	Threaded	Threaded	Threaded	Threaded	Threaded
INSULATION	Hard foam polyurethane injected 50/55 mm	Hard foam polyurethane injected 50/55 mm	Hard foam polyurethane injected 50/55 mm	Hard foam polyurethane injected 50/55 mm	Hard foam polyurethane injected 50/55 mm
CLADDING	• PVC light grey RAL 7035 • Aluminium	• PVC light grey RAL 7035 • Aluminium	• PVC light grey RAL 7035 • Aluminium	• PVC light grey RAL 7035 • Aluminium	• PVC light grey RAL 7035 • Aluminium

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

			Capacity	200	300	500
TANKO-G	Energy efficiency class			B	B	C
	Standing loss	S	W	56	68	90
	Storage volume	V	L	190	288	478
TANKO-1	Energy efficiency class			B	B	C
	Standing loss	S	W	55	68	90
	Storage volume	V	L	184	281	469
TANKO-2	Energy efficiency class				B	C
	Standing loss	S	W		68	90
	Storage volume	V	L		273	460
TANKO-Z	Energy efficiency class			B	B	C
	Standing loss	S	W	56	68	90
	Storage volume	V	L	190	288	478
TANKO-X	Energy efficiency class			B	B	C
	Standing loss	S	W	56	68	90
	Storage volume	V	L	190	288	478

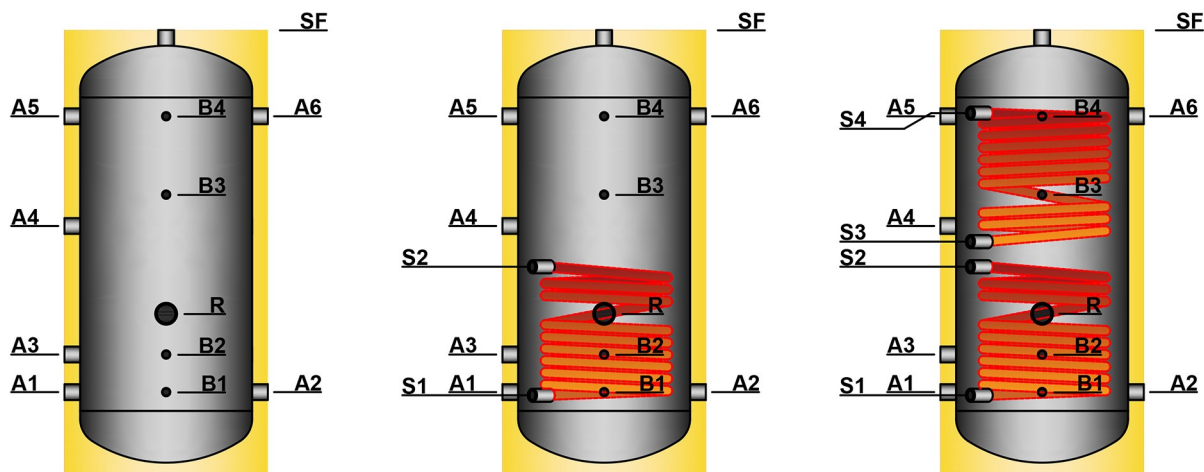
WORKING CONDITIONS

		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

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
DIMENSIONS				
Diameter without insulation	mm	450	550	650
Diameter with insulation	mm	550	650	760
Overall height	mm	1380	1420	1640
Overturning height	mm	1486	1562	1803
CONNECTIONS				
A1-A2 Inlet / Outlet	mm Ø	240 1"	265 1"¼	250 1"¼
A3 Inlet / Outlet	mm Ø	360 1"	385 1"¼	500 1"¼
A4 Inlet / Outlet	mm Ø	770 1"	795 1"¼	950 1"¼
A5-A6 Inlet / Outlet	mm Ø	1120 1"	1145 1"¼	1380 1"¼
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"¼	1420 1"¼	1640 1"¼

FIXED COIL CAPACITY

Lower coil heating surface area	m²	1,3	1,5	2,3
Lower coil capacity (Primary 80/60°C - Average storage temperature 60°C)	kW	12	14	21
Upper coil heating surface area	m²	—	1,5	2,3
Upper coil 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

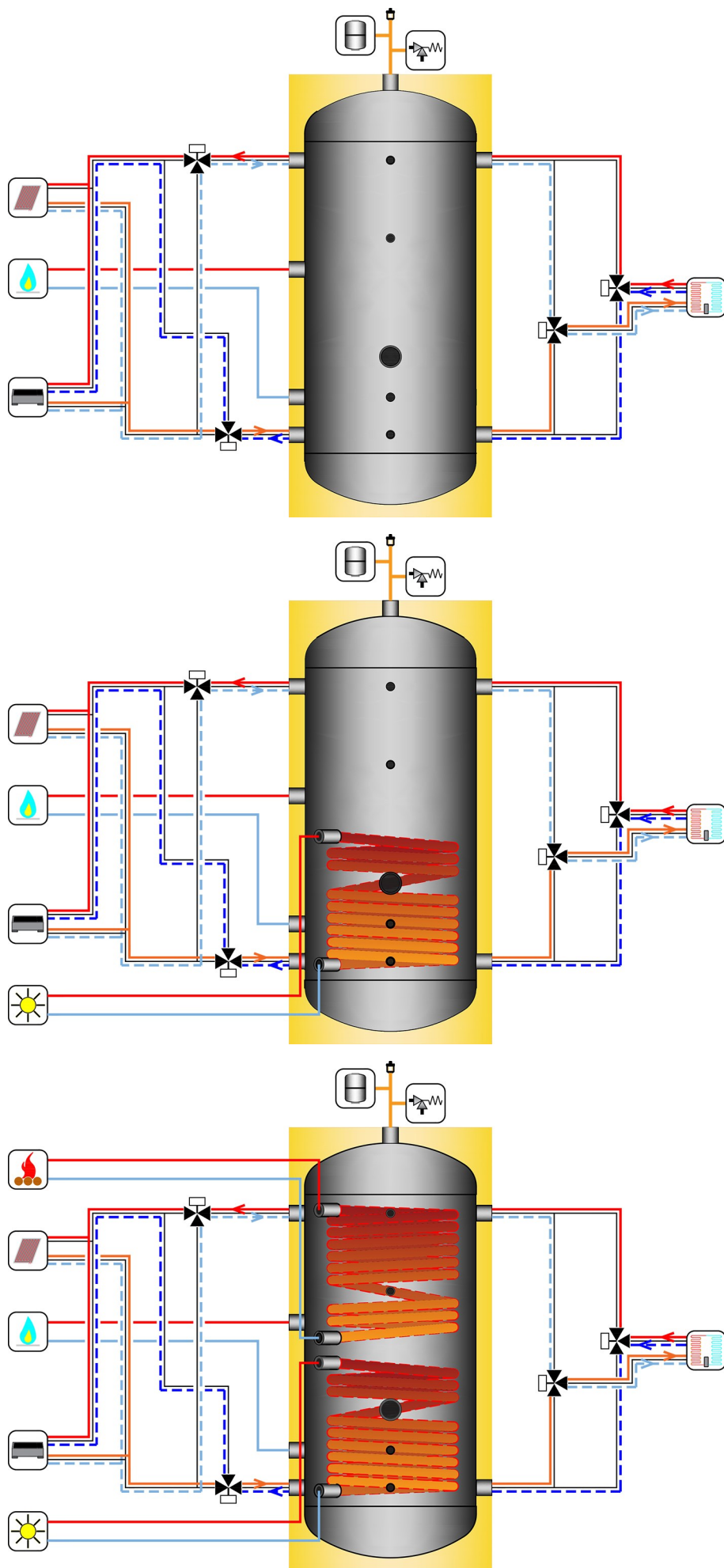
Primary (80-60)°C | Secondary (50-70)°C

Storage volume	Fixed coil heating surface area	Capacity	Primary flow	SECONDARY SIDE	
				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

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.

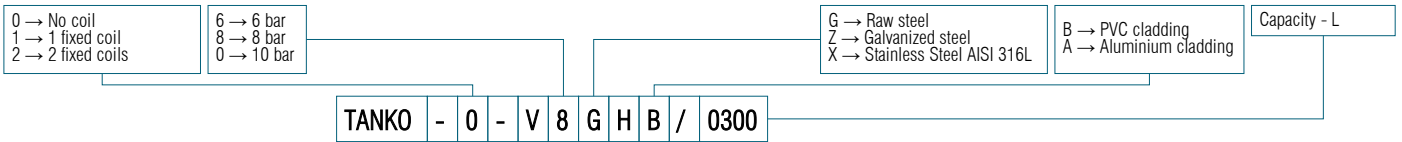


INSTALLATION DIAGRAM






The proposed diagrams are purely by way of example.


HOW TO ORDER



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			

1-3 PHASE IMMERSION ELECTRIC HEATER - STAINLESS STEEL 316I / INCOLOY TUBES
Threaded plug 2" | Aluminium box IP55 | V230/400

Capacity Watt	Capacity/L matching L	Length mm	1-THERMOSTAT Temperature adjusting only PART NO.	2-THERMOSTAT Temperature adj. & overheating protection 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-L680-1-M	RES090-200-L680-1-B	
10000	500	680	RES100-200-L680-1-M	RES100-200-L680-1-B	

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

Insulating material	Removable	Thickness	Density	Thermal conductivity coefficient at 45°C	Operating temperature	Fire reaction class Euroclass EN13501-1
Hard foam Polyurethane injected	X	50 ÷ 55 mm	40 ÷ 42 kg/m ³	$\lambda = 0,019 \text{ W/mK}$	-10°C / +99°C	F

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

**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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