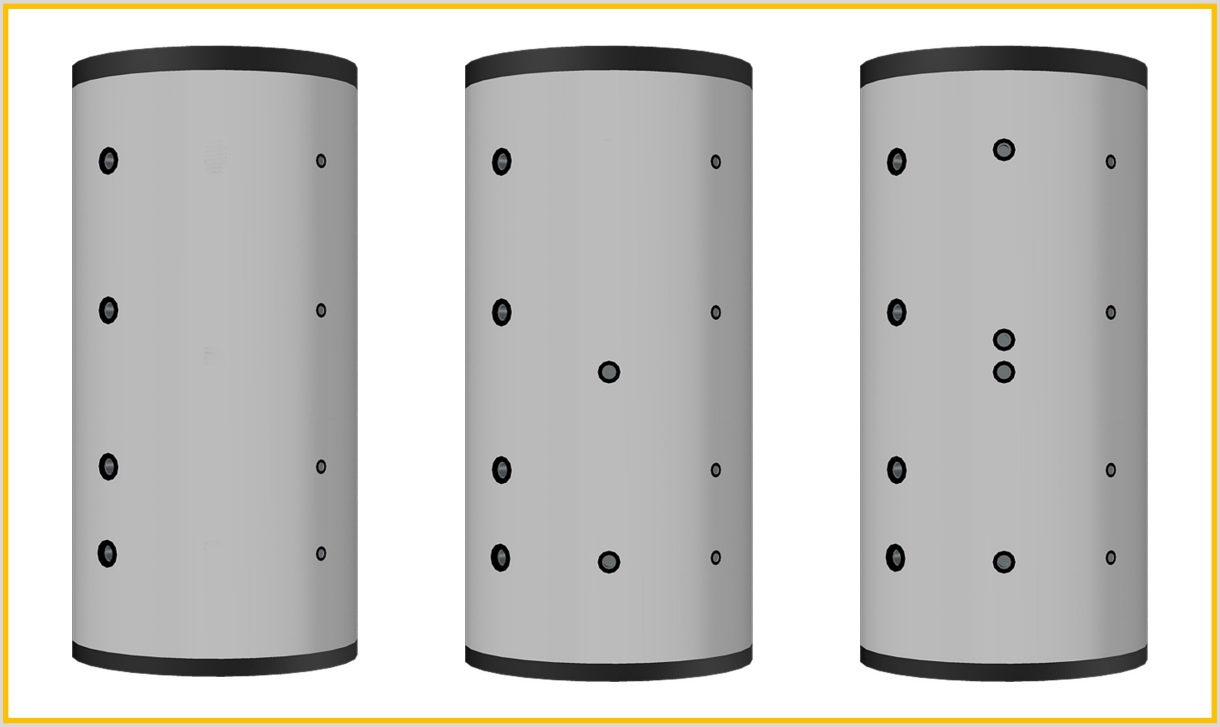
dal 1968

Pacetti

SCAMBIATORI - BOLLITORI - SERBATOI

TANKO RAPID

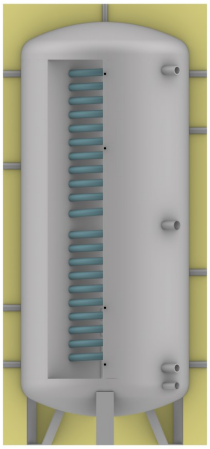


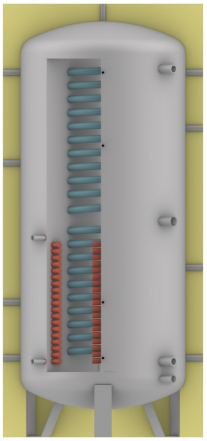
COMBI BUFFER TANK FOR HOT WATER STORAGE AND INSTANTANEOUS DHW PRODUCTION

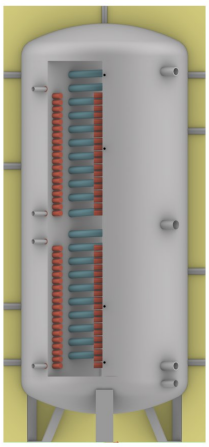
COMBI BUFFER TANK FOR HOT WATER STORAGE AND INSTANTANEOUS DHW PRODUCTION

Combi buffer tank for hot water storage and production of instantaneous Domestic Hot Water.
TANKO RAPID combines the excellent performance of a buffer tank, designed to suit any type of installation, with the high efficiency of a corrugated Stainless Steel 316L pipe heat exchanger for instantaneous DHW production, ensuring huge water supply under all conditions of use and providing also a small water reserve.
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 starts-ups of the connected heating sources and saving of opreating costs.
Available in different versions: **TANKO-0 RAPID** equipped with only DHW heat exchange, or **TANKO-1 RAPID** and **TANKO-2 RAPID** respectively also equipped with 1 or 2 fixed internal coils to enable connection of additional energy sources.

CONSTRUCTION







	TANKO-0 RAPID	TANKO-1 RAPID	TANKO-2 RAPID
TANK MATERIAL	Carbon steel	Carbon steel	Carbon steel
FIXED COIL MATERIAL	Carbon steel	Carbon steel	Carbon steel
DHW HEAT EXCHANGER MATERIAL	Corrugated Stainless Steel 316L pipe	Corrugated Stainless Steel 316L pipe	Corrugated Stainless Steel 316L pipe
INTERNAL SURFACE TREATMENT	—	—	—
EXTERNAL SURFACE TREATMENT	Anti-rust primer	Anti-rust primer	Anti-rust primer
CAPACITY	500÷1500 L	500÷1500 L	500÷1500 L
VERSION	Vertical	Vertical	Vertical
CONNECTIONS	Threaded	Threaded	Threaded
INSULATION | 500 L	**Hard foam Polyurethane** 50mm injected	**Hard foam Polyurethane** 55mm injected	**Hard foam Polyurethane** 55mm injected
INSULATION | 800÷1500 L	**PLFH** 100 mm High density eco-friendly polyester fiber	**PLFH** 100 mm High density eco-friendly polyester fiber	**PLFH** 100 mm High density eco-friendly polyester fiber
CLADDING	PVC light grey RAL7035	PVC light grey RAL7035	PVC light grey RAL7035

Energy efficiency class - ErP | Regulation 812/2013 & Reg 814/2013 | European Directive 2009/125/CE

				Capacity - L	500	800	1000	1500
TANKO-0 RAPID	Energy efficiency class				C	C	C	C
	Standing loss	S	W		90	118	123	124
	Storage volume	V	L		435	716	793	1377
TANKO-1 RAPID	Energy efficiency class				C	C	C	C
	Standing loss	S	W		90	117	123	123
	Storage volume	V	L		421	728	810	1398
TANKO-2 RAPID	Energy efficiency class				C	C	C	C
	Standing loss	S	W		90	116	121	122
	Storage volume	V	L		435	740	827	1419

STANDARD WORKING CONDITIONS

	Capacity - L	500	800	1000	1500
Tank working pressure	bar	ATM÷3	ATM÷3	ATM÷3	ATM÷3
Tank working temperature	°C	AMB÷95	AMB÷95	AMB÷95	AMB÷95
DHW heat exchanger working pressure	bar	ATM÷6	ATM÷6	ATM÷6	ATM÷6
DHW heat exchanger working temperature	°C	AMB÷95	AMB÷95	AMB÷95	AMB÷95
Fixed coil working pressure	bar	ATM÷10	ATM÷10	ATM÷10	ATM÷10
Fixed coil working temperature	°C	AMB÷110	AMB÷110	AMB÷110	AMB÷110

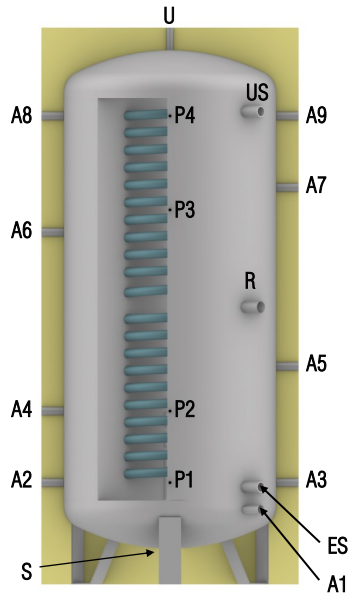
REGULATORY COMPLIANCE

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

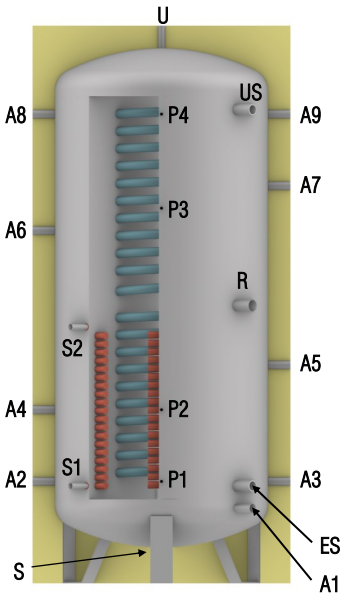
European Pressure Equipment Directive (PED) 2014/68/UE | SEP (Sound Engineering Practice) - exclusion from CE marking - Art. 4.3

D.M. 174/04 or Reg. (CE) 1935/04| Compatible with potable water (fixed coil only)

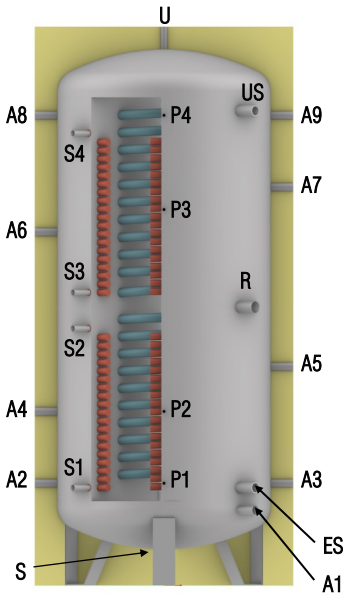
COMBI BUFFER TANK FOR HOT WATER STORAGE AND INSTANTANEOUS DHW PRODUCTION



TANKO-0 RAPID



TANKO-1 RAPID



TANKO-2 RAPID

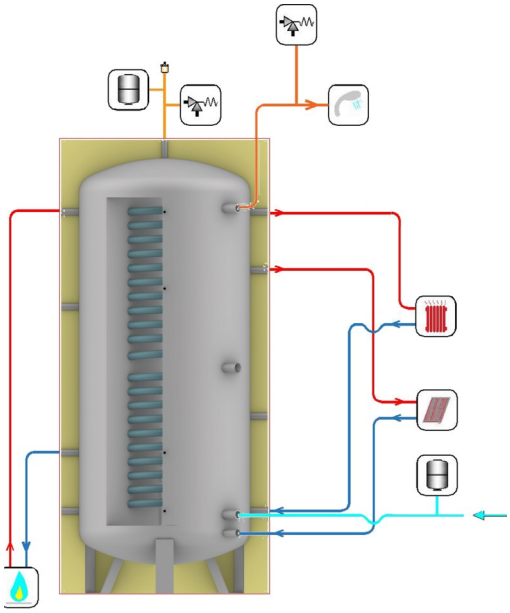
GENERAL CHARACTERISTICS

		Capacity - L	500	800	1000	1500
DIMENSIONS						
Diameter without insulation		mm	760	1000	1000	1150
Diameter with insulation		mm	650	800	800	950
Overall height		mm	1645	1828	2078	2490
CONNECTIONS - Diameter | Height from ground						
U	Air purge / Outlet	Ø | mm	1"¼ | 1645	1"¼ | 1828	1"¼ | 2078	1"¼ | 2490
US	DHW heat exchanger return	Ø | mm	1" | 1400	1" | 1488	1" | 1730	1" | 2115
ES	DHW heat exchanger supply	Ø | mm	1" | 330	1" | 538	1" | 538	1" | 435
P1	Sensor	Ø | mm	½" | 250	½" | 358	½" | 358	½" | 455
P2	Sensor	Ø | mm	½" | 500	½" | 568	½" | 698	½" | 775
P3	Sensor	Ø | mm	½" | 990	½" | 1148	½" | 1318	½" | 1675
P4	Sensor	Ø | mm	½" | 1380	½" | 1488	½" | 1738	½" | 2095
R	Immersion electric heater	Ø | mm	2" | 785	2" | 908	2" | 908	2" | 1240
A1	Spare	Ø | mm	1"¼ | 150	1"½ | 258	1"½ | 258	1"½ | 335
A2 - A3	Spare	Ø | mm	1"¼ | 250	1"½ | 358	1"½ | 358	1"½ | 455
A4	Spare	Ø | mm	1"¼ | 500	1"½ | 568	1"½ | 698	1"½ | 775
A5	Spare	Ø | mm	—	1"½ | 808	1"½ | 848	1"½ | 975
A6	Spare	Ø | mm	1"¼ | 950	1"½ | 1038	1"½ | 1248	1"½ | 1575
A7	Spare	Ø | mm	—	1"½ | 1278	1"½ | 1398	1"½ | 1775
A8 - A9	Spare	Ø | mm	1"¼ | 1380	1"½ | 1488	1"½ | 1738	1"½ | 2095
S1	Lower coil return	Ø | mm	1" | 230	1" | 368	1" | 368	1" | 435
S2	Lower coil supply	Ø | mm	1" | 760	1" | 878	1" | 878	1" | 1145
S3	Upper coil return	Ø | mm	1" | 860	1" | 968	1" | 988	1" | 1305
S4	Upper coil supply	Ø | mm	1" | 1390	1" | 1478	1" | 1498	1" | 2015
S	Drain	Ø | mm	-	1"¼ | 118	1"¼ | 118	1"¼ | 160
HEAT EXCHANGERS PERFORMANCES						
DHW heat exchanger | heating surface area		**m²**	**5,5**	**5,5**	**6,5**	**8,5**
DHW heat exchanger | water content		L	25	25	27	38
DHW output (10-45)°C with buffer tank at 50°C entirely heated		L/min	9	9	11	16
DHW output (10-45)°C with buffer tank at 50°C heated in the upper part only		L/min	6	6	7	10
Pressure loss at maximum DHW production rate		bar	0,02	0,02	0,02	0,04
DHW output (10-45)°C with buffer tank at 60°C entirely heated		L/min	19	19	22	35
DHW output (10-45)°C with buffer tank at 60°C heated in the upper part only		L/min	12	12	14	23
Pressure loss at maximum DHW production rate		bar	0,04	0,04	0,05	0,25
DHW output (10-45)°C with buffer tank at 70°C entirely heated		L/min	35	35	39	47
DHW output (10-45)°C with buffer tank at 70°C heated in the upper part only		L/min	23	23	25	31
Pressure loss at maximum DHW production rate		bar	0,18	0,18	0,25	1,00
Lower coil | heating surface area		**m²**	**2,3**	**2,8**	**3,0**	**4,5**
Lower coil | output (Prim. 80/60°C - buffer tank average temperature 65°C)		kW	22	26	28	42
Upper coil | heating surface area		**m²**	**2,3**	**2,8**	**3,0**	**4,5**
Upper coil | output (Prim. 80/60°C - buffer tank average temperature 65°C)		kW	22	26	28	42
EMPTY WEIGHT						
TANKO-0 RAPID		kg	130	180	205	325
TANKO-1 RAPID		kg	155	205	230	355
TANKO-2 RAPID		kg	175	230	255	385

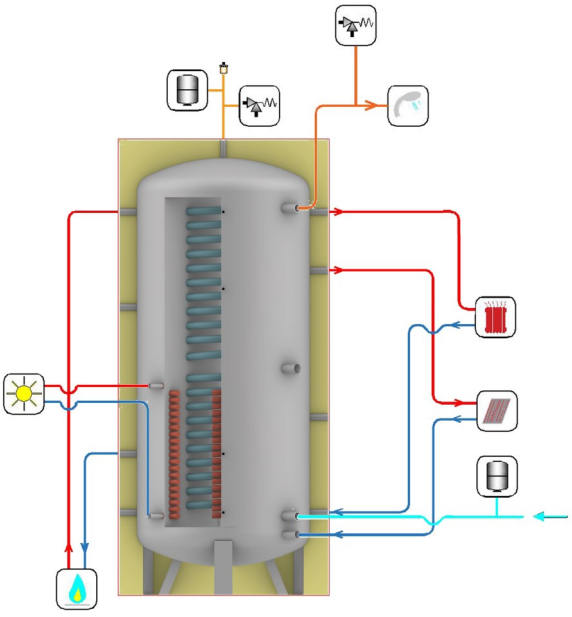
Note: All the measurements of the connections are considered "from the ground". The thread are female GAS type, unless otherwise specified.
The tanks higher than 2200mm are packaged horizontally.

INSTALLATION DIAGRAM EXAMPLES

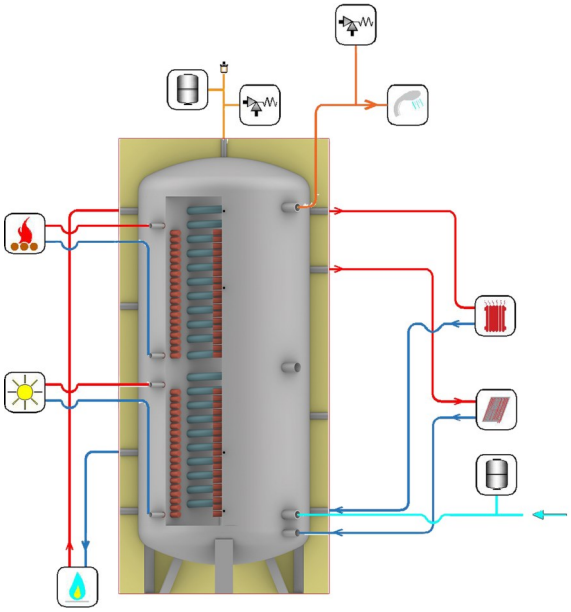
The proposed diagrams are purely indicative



TANKO-R0



TANKO-R1



TANKO-R2

HOW TO ORDER

R0 → DHW heat exchanger - no fixed coils
R1 → DHW heat exchanger + 1 fixed coil
R2 → DHW heat exchanger + 2 fixed coils

TANKO	-	R0	-	V	V	5	/	0500

Storage capacity - L

5 → 55 mm insulation (500 L)
0 → 100 mm insulation (800-1000L)

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

Capacity	Capacity/L matching	Lenght	1-THERMOSTAT Temperature regulation only	2-THERMOSTAT Temp. regulation & overheating protection
Watt	*L*	*mm*	*PART NO.*	*PART NO.*
2000	500÷1500	280	*RES020-200-L280-6-M*	*RES020-200-L280-6-B*
3000	500÷1500	380	*RES030-200-L380-6-M*	*RES030-200-L380-6-B*
5000	500÷1500	500	*RES050-200-L500-6-M*	*RES050-200-L500-6-B*
6000	500÷1500	600	*RES060-200-L600-6-M*	*RES060-200-L600-6-B*
9000	500÷1500	680	*RES090-200-L680-I-M*	*RES090-200-L680-I-B*
10000	500÷1500	680	*RES100-200-L680-I-M*	*RES100-200-L680-I-B*
12000	800÷1500	820	*RES120-200-L820-I-M*	*RES120-200-L820-I-B*

INSULATIONS

Insulating material	Removable	Thickness	Density	Thermal conductivity coefficient at 45°C	Operatig temperature	Fire reaction class Euroclass EN13501-1
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	✗	55 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.
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.

www.pacetti.it

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