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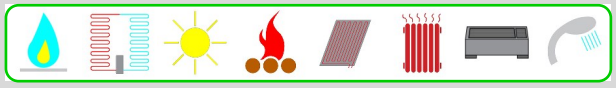
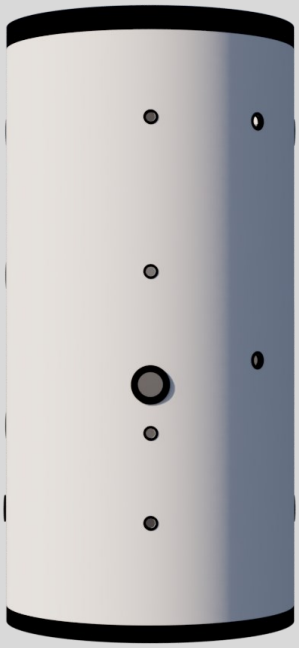
Pacetti

SCAMBIATORI - BOLLITORI - SERBATOI



TANKO ACS Q



COMBI BUFFER TANK FOR HOT WATER STORAGE AND INSTANTANEOUS DHW PRODUCTION

ENERGY EFFICIENCY CLASS A

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

COMBI BUFFER TANK FOR HOT WATER STORAGE AND INSTANTANEOUS DHW PRODUCTION - ENERGY CLASS A

Combi buffer tank for hot water storage and production of instantaneous Domestic Hot Water.

TANKO **ACS Q** combines the excellent performance of a buffer tank, designed to suit any type of installation, with the high efficiency of a spiral finned copper coil for instantaneous DHW production, enusring huge water supply under all conditions of use.
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 saving of operating costs.
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 TANKO-1 **ACS Q** and TANKO-2 **ACS Q** versions are equipped with fixed spiral coils to enable connection of 1 or 2 additional heating sources.
The on-demand DHW production is guaranteed by the high performance of the spiral finned copper coil placed vertically inside the buffer tank.
The positioning of the connections on the buffer tank shell is designed to achieve the maximum thermal stability of the DHW heat exchanger, ensuring highest flow-rates of DHW free from legionella.

High performance insulation to achieve energy efficiency class A

CONSTRUCTION

TANKO **ACS Q**

TANKO-1 **ACS Q**

TANKO-2 **ACS Q**

	TANKO ACS Q	TANKO-1 ACS Q	TANKO-2 ACS Q
TANK MATERIAL	Carbon steel	Carbon steel	Carbon steel
FIXED COIL MATERIAL	—	Carbon steel	Carbon steel
DHW HEAT EXCHANGER MATERIAL	Finned copper	Finned copper	Finned copper
INTERNAL SURFACE TREATMENT	—	—	—
EXTERNAL SURFACE TREATMENT	Anti-rust primer	Anti-rust primer	Anti-rust primer
CAPACITY	200÷500 L	200÷500 L	300-500 L
VERSION	Vertical	Vertical	Vertical
CONNECTIONS	Threaded	Threaded	Threaded
INSULATION | 200-300 L	**Hard faom polyurethane** injected 80 mm	**Hard faom polyurethane** injected 80 mm	**Hard faom polyurethane** injected 80 mm
INSULATION | 500 L	**Hard faom polyurethane** injected 105 mm	**Hard faom polyurethane** injected 105 mm	**Hard faom polyurethane** injected 105 mm
CLADDING	PVC light grey RAL7035	PVC light grey RAL7035	PVC light grey RAL7035

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

			Capacity	200	300	500
TANKO ACS Q	Energy efficiency class			A	A	A
	Standing loss	S	W	42	47	53
	Storage volume	V	L	191	288	478
TANKO-1 ACS Q	Energy efficiency class			A	A	A
	Standing loss	S	W	43	48	53
	Storage volume	V	L	185	281	470
TANKO-2 ACS Q	Energy efficiency class				A	A
	Standing loss	S	W		49	54
	Storage volume	V	L		275	461

WORKING CONDITIONS

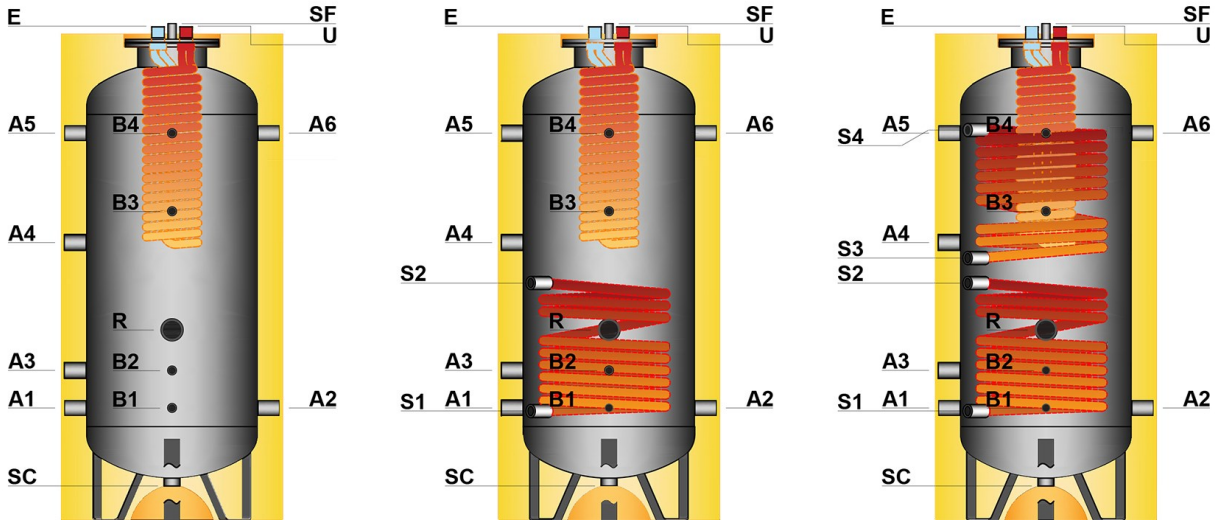
	Capacity	200	300	500
Tank working pressure	bar	ATM÷8	ATM÷8	ATM÷6
Tank working temperature	°C	AMB÷99	AMB÷95	AMB÷95
DHW heat exchanger working pressure	bar	ATM÷12	ATM÷12	ATM÷12
DHW heat exchanger working temperature	°C	AMB÷99	AMB÷99	AMB÷99
Fixed coil working pressure	bar	ATM÷10	ATM÷10	ATM÷10
Fixed coil working temperature	°C	AMB÷110	AMB÷110	AMB÷110

REGULATORY COMPLIANCE

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

European Pressure Equipment (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



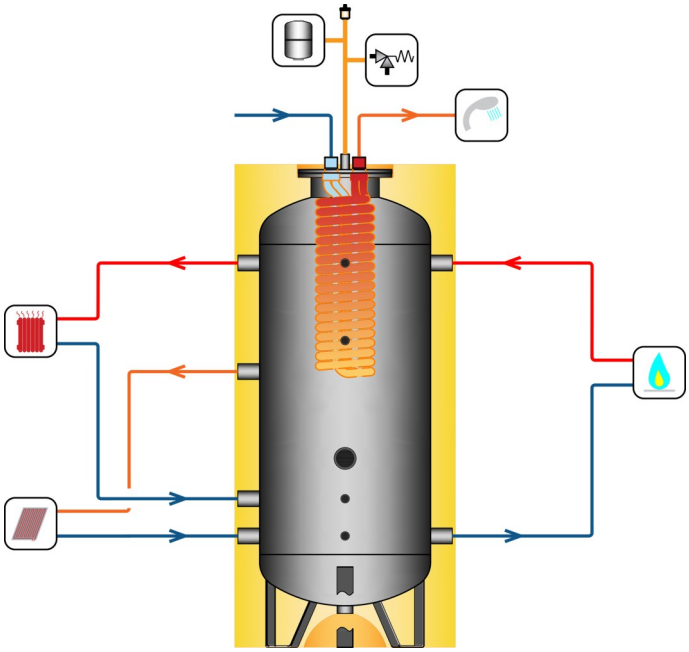
GENERAL CHARACTERISTICS

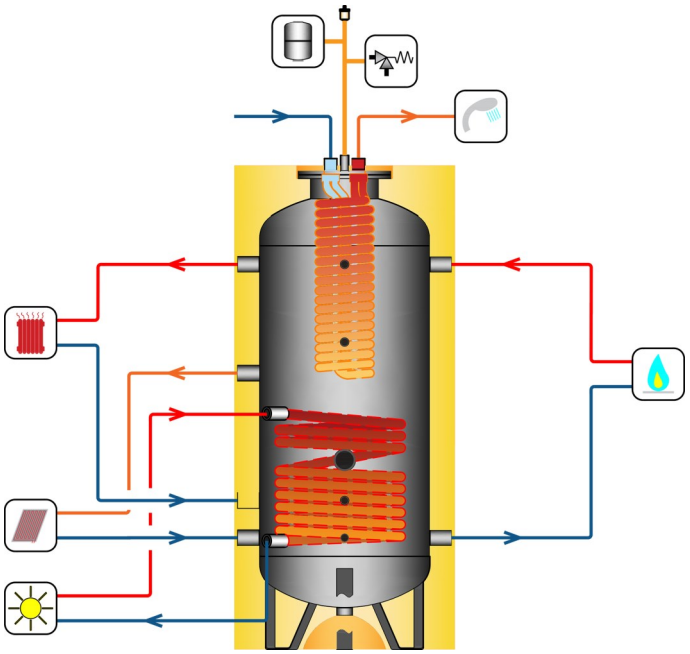
		Capacity	200	300	500
DIMENSIONS					
Diameter without insulation		mm	450	550	650
Diameter with insulation		mm	610	710	860
Overall height		mm	1420	1557	1774
Overturning height without insulation		mm	1545	1711	1971
CONNECTIONS					
A1-A2	Inlet / Outlet	mm | Ø	240 | 1"	359 | 1"¼	336 | 1"¼
A3	Inlet / Outlet	mm | Ø	360 | 1"	120 | 1"¼	586 | ½"
A4	Inlet / Outlet	mm | Ø	—	—	—
A5	Inlet / Outlet	mm | Ø	770 | 1"	889 | 1"¼	1036 | 1"¼
A6	Inlet / Outlet	mm | Ø	—	—	—
A7-A8	Inlet / Outlet	mm | Ø	1120 | 1"	1239 | 1"¼	1466 | 1"¼
B1	Sensor	mm | Ø	240 | ½"	359 | ½"	336 | 1"¼
B2	Sensor	mm | Ø	360 | ½"	120 | ½"	586 | ½"
B3	Sensor	mm | Ø	880 | ½"	989 | ½"	1076 | ½"
B4	Sensor	mm | Ø	1120 | ½"	1239 | ½"	1466 | ½"
R	Immersion electric heater	mm | Ø	615 | 2"	629 | 2"	736 | 2"
S1	Lower fixed coil return	mm | Ø	240 | 1"	349 | 1"	324 | 1"
S2	Lower fixed coil supply	mm | Ø	860 | 1"	769 | 1"	854 | 1"
S3	Upper fixed coil return	mm | Ø	—	849 | 1"	944 | 1"
S4	Upper fixed coil supply	mm | Ø	—	1259 | 1"	1474 | 1"
E-U	DHW heat exchanger supply | return	mm | Ø	1420 | ¾"M	1557 | 1"¼ M	1774 | 1"¼ M
SF	Air vent	mm | Ø	1420 | ½"	1557 | ½"	1774 | ½"
SC	Drain	mm | Ø	—	109 | 1"¼	76 | 1"¼
HEAT EXCHANGERS CAPACITY / PERFORMANCE					
DHW spiral finned copper coil heating surface area		**m²**	**3,17**	**3,60**	**4,54**
DHW production at 45°C with storage temperature 50°C		l/h	485	551	708
DHW production at 45°C with storage temperature 60°C		l/h	772	877	1127
DHW production at 45°C with storage temperature 70°C		l/h	1018	1156	1445
DHW production at 45°C with storage temperature 80°C		l/h	1272	1445	1794
Lower fixed coil heating surface area		**m²**	**1,3**	**1,5**	**2,3**
Lower coil capacity (Primary 80/60°C - Average storage temp. 60°C)		kW	12	14	21
Upper fixed coil heating surface area		**m²**	**—**	**1,5**	**2,3**
Upper coil capacity (Primary 80/60°C - Average storage temp. 60°C)		kW	—	14	21
EMPTY WEIGHT					
Buffer tank w/DHW heat exchanger only	—> TANKO ACS Q	kg	65	86	117
Buffer tank w/DHW heat exchanger & 1 fixed coil	—> TANKO-1 ACS Q	kg	82	105	147
Buffer tank w/DHW heat exchanger & 2 fixed coils	—> TANKO-2 ACS Q	kg	—	124	177

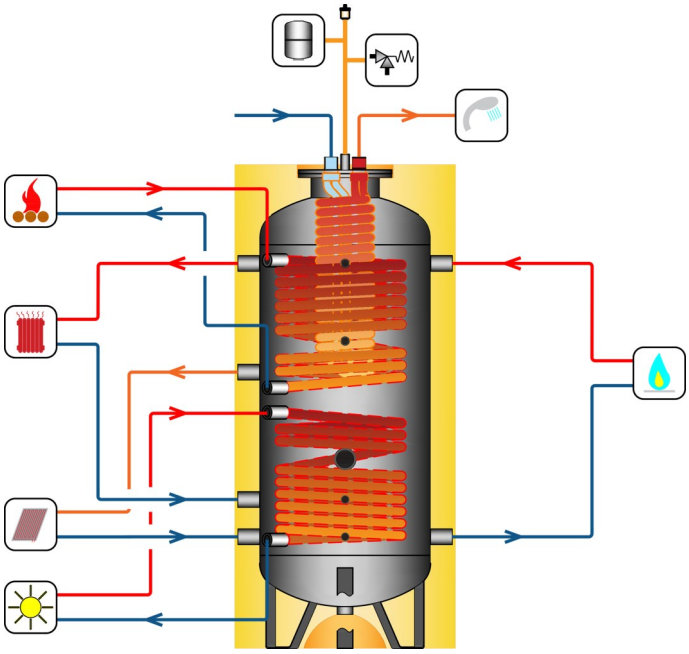
Note: All the measurements of the connections are considered "from the ground". The thread are female GAS type, unless otherwise specified.
The tanks higher than 2200mm are packaged horizontally.

COMBI BUFFER TANK FOR HOT WATER STORAGE AND INSTANTANEOUS DHW PRODUCTION - ENERGY CLASS A

INSTALLATION DIAGRAM







The proposed diagrams are purely by way of example

LOWER FIXED COIL PERFORMANCE

Primary temperature (coil) 80/60°C
Secondary temperature (buffer tank) 50/70°C

Buffer tank volume	Fixed coil heating surface area	Fixed coil capacity	Water flow	Hydraulic head	Water content
L	*m^2*	*kW*	*L/h*	*kPa*	*L*
200	1,3	**12**	515	1,7	6,5
300	1,5	**14**	600	2	7,5
500	2,3	**21**	920	4	11,5

UPPER FIXED COIL PERFORMANCE

Primary temperature (coil) 80/60°C
Secondary temperature (buffer tank) 50/70°C

Buffer tank volume	Fixed coil heating surface area	Fixed coil capacity	Water flow	Hydraulic head	Water content
L	*m^2*	*kW*	*L/h*	*kPa*	*L*
300	1,5	**14**	600	2	7,5
500	2,3	**21**	920	4	11,5

COMBI BUFFER TANK FOR HOT WATER STORAGE AND INSTANTANEOUS DHW PRODUCTION - ENERGY CLASS A

HOW TO ORDER

A0 → No fixed coil
A1 → 1 fixed coil
A2 → 2 fixed coil

6 → 6 bar
8 → 8 bar
0 → 10 bar

Capacity - L

TANKO	-	A0	-	V	8	G	Q	B	/	0200

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

1-3 PHASE IMMERSION ELECTRIC HEATER - STAINLESS STEEL 316I / 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	100÷500	280	*RES020-200-L280-6-M*	*RES020-200-L280-6-B*
3000	100÷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*

UPPER FLANGE SPARE PARTS

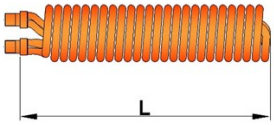
Item	Accoppiamento capacità	Diameter	PART NO.
	L	*mm*	
PRIMARY CHEST Holes ¾", connection ½"	200	300	*PIASTRAN3001-RM*
PRIMARY CHEST Holes 1"¼ , connection ½"	300÷1000	300	*PIASTRAN3002-RM*
EPDM gasket without cross bar	200÷1000	220/300	*GUGOMEPDM300X220ST*


PRIMARY CHEST


EPDM gasket without cross bar

DHW HEAT EXCHANGERS - Spiral finned copper coils, removable type

Heating surface area	Conns	Diameter "D"	Length "L"	PART NO.
m^2	Ø	*mm*	*mm*	
3,17	¾"	190	665	*SSPI317*
3,60	1"¼	190	690	*SSPI360*
4,54	1"¼	190	780	*SSPI454*
5,26	1"¼	190	910	*SSPI526*
6,34	1"¼	190	960	*SSPI634*



DHW HEAT EXCHANGER SEALING KIT

Item	DHW copper cil heating surface area	
	m^2	*PART NO.*
SEALING KIT ¾"	3,17	*KIT034*
SEALING KIT 1"¼	3,60÷6,34	*KIT114*

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), 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.

www.pacetti.it

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