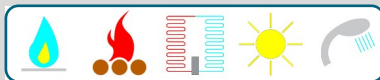


dal 1968



SCAMBIATORI - BOLLITORI - SERBATOI



BT3H-X - BT3-X



STAINLESS STEEL DHW CALORIFIER EQUIPPED WITH THREE
REMOVABLE TUBE BUNDLE HEAT EXCHANGERS

STAINLESS STEEL DHW CALORIFIER EQUIPPED WITH THREE REMOVABLE TUBE BUNDLE HEAT EXCHANGERS

Calorifiers made of Stainless Steel AISI 316L pickled and passivated with three removable tube bundle heat exchangers for production and storage of DHW. Designed for connection to multiple primary energy sources.

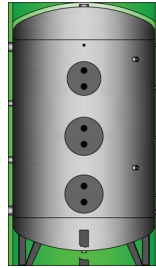
The two lower heat exchangers, with equal heating surface area, are positioned in the lower and middle areas of the tank and allow the use of a single energy source by connecting them together; This allows double the yield compared to a calorifier equipped with one tube bundle heat exchanger, so that the connected source can be exploited to the full. This solution is particularly recommended with Heat Pump or low-temperature primary source. The upper heat exchanger, with its smaller exchange surface area, is designed to optimise the integration of an additional energy source in order to reach the desired temperature at the top of the tank and guarantee the right DHW demand in every situation.

In the case of three different energy sources the configuration of **BT3H-X | BT3-X** guarantees high thermal output for all of them, ensuring the production of a large quantity of DHW.

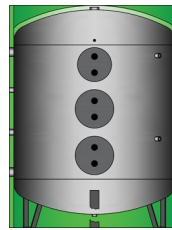
The calorifiers of the **BT3H-X | BT3-X** range stand out for the wide choice of capacities, from 1000 to 5000 L as standard and over upon request. They are available, in the larger sizes, in vertical-low and vertical extra-low versions to allow them to be installed in circumstances where the available height is not sufficient for the standard measurement. The three tube bundle heat exchangers, made of Stainless Steel AISI 316L as standard.

The possibility of selecting between various operating pressures - up to 10 bar - and the availability of different external claddings for indoor or outdoor installation, extends their use to all the possible applications.

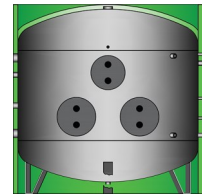
CONSTRUCTION



BT3H-X | BT3-X



BT3H-RX | BT3-RX



BT3-XX

	BT3H-X BT3-X	BT3H-RX BT3-RX	BT3-XX
TANK MATERIAL	Stainless steel AISI 316L	Stainless steel AISI 316L	Stainless steel AISI 316L
INTERNAL SURFACE TREATMENT	Pickling and passivation	Pickling and passivation	Pickling and passivation
EXTERNAL SURFACE TREATMENT	Pickling and passivation	Pickling and passivation	Pickling and passivation
CAPACITY	1000 ÷ 5000 L	1500 ÷ 5000 L	3000 ÷ 5000 L
VERSION	Vertical	Vertical LOW-height	Vertical EXTRA-LOW height
CONNECTIONS	Threaded	Threaded	Threaded
PRIMARY CHEST MATERIAL	Stainless steel AISI 316L	Stainless steel AISI 316L	Stainless steel AISI 316L
REMOVABLE TUBE BUNDLE HEAT EXCHANGER MATERIAL	Stainless steel AISI 316L	Stainless steel AISI 316L	Stainless steel AISI 316L
INSULATION 1000 L	Hard Polyurethane 85mm removable shells	—	—
INSULATION 1500-2000 L	PLFH 120 mm High density eco-friendly polyester fiber	PLFH 120 mm High density eco-friendly polyester fiber	—
INSULATION 2500 ÷ 5000 L	PLF 50 mm Eco-friendly polyester fiber	PLF 50 mm Eco-friendly polyester fiber	PLF 50 mm Eco-friendly polyester fiber
CLADDING	<ul style="list-style-type: none"> • PVC Yellow RAL1023 • Aluminium 	<ul style="list-style-type: none"> • PVC Yellow RAL1023 • Aluminium 	<ul style="list-style-type: none"> • PVC Yellow RAL1023 • Aluminium
ANODE TYPE	Electronic (optional)	Electronic (optional)	Electronic (optional)
ACCESSORIES (factory fitted)	Thermometer	Thermometer	Thermometer

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

		Capacity - L		1000	1500	2000
BT3H-X	Energy efficiency class			C	C	C
	Standing loss	S	W	137	183	187
	Storage volume	V	L	924	1513	1960
BT3H-RX	Energy efficiency class				C	CN
	Standing loss	S	W		171	183
	Storage volume	V	L		1518	1952

STANDARD WORKING CONDITIONS

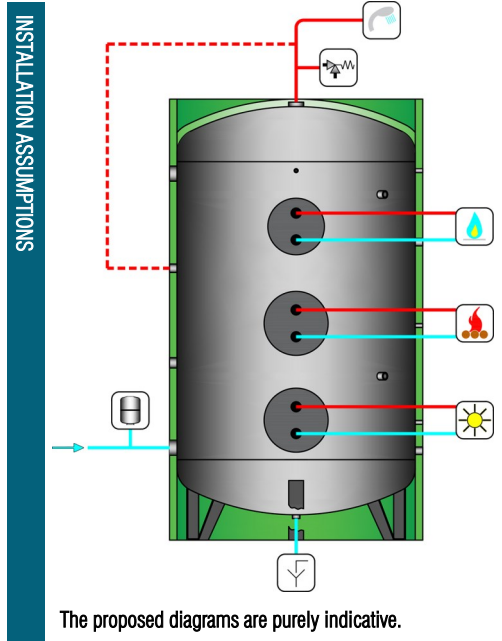
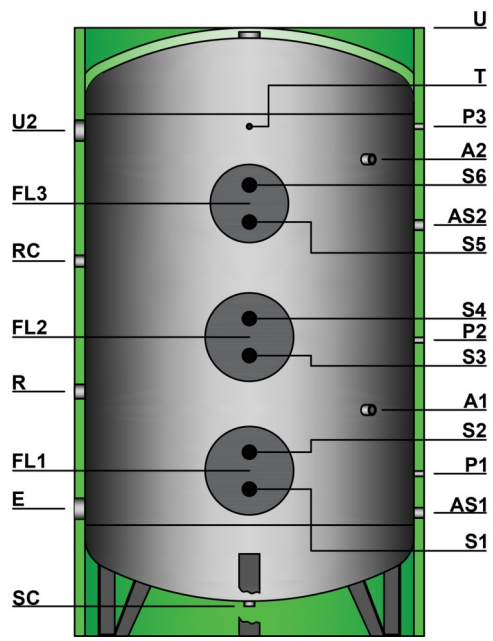
		Capacity - L	1000	1500	2000	2500	3000	4000	5000
Tank working pressure	bar	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 8	ATM ÷ 6	ATM ÷ 6	ATM ÷ 6
Tank working temperature	°C	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99
Heat exchangers working pressure	bar	ATM ÷ 12	ATM ÷ 12	ATM ÷ 12	ATM ÷ 12	ATM ÷ 12	ATM ÷ 12	ATM ÷ 12	ATM ÷ 12
Heat exchangers working temperature	°C	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99	AMB ÷ 99

REGULATORY COMPLIANCE

ErP - Reg. 812/2013 e 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



GENERAL CHARACTERISTICS - VERTICAL STANDARD VERSION

	Capacity - L	1000	1500	2000	2500	3000	4000	5000
DIMENSIONS								
Diameter without insulation	mm	800	1000	1200	1200	1250	1400	1600
Diameter with insulation	mm	970	1300	1500	1300	1350	1500	1700
Overall height	mm	2185	2265	2184	2590	2790	2869	2960
Overturning height with without insulation	mm	2297 2201	2454 2270	2439 2197	2773 2595	2976 2795	3088 2878	3232 2977

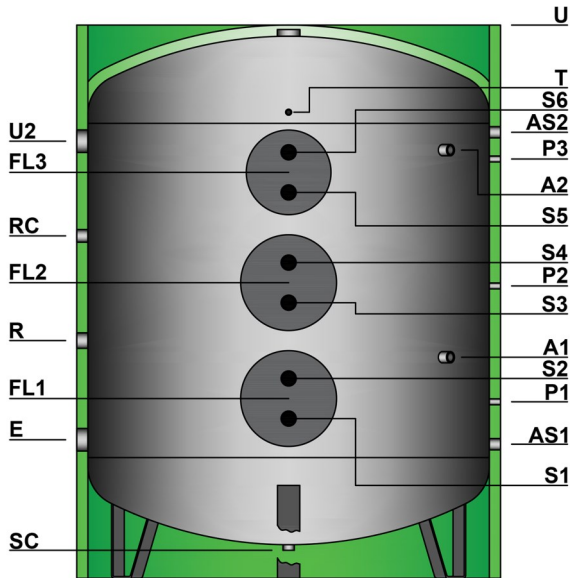
CONNECTIONS			1000	1500	2000	2500	3000	4000	5000
E	Cold water supply	mm Ø	420 2"	480 2"½	504 2"½	530 3"	525 3"	559 3"	620 3"
U	DHW return	mm Ø	2185 2"	2265 2"½	2184 2"½	2590 3"	2790 3"	2869 3"	2960 3"
U2	DHW additional return	mm Ø	—	—	—	—	—	2399 3"	2460 3"
RC	Recirculation	mm Ø	1405 1"½	1395 1"½	1319 1"½	1645 1"½	1730 1"½	1764 1"½	1825 1"½
R	Immersion electric heater	mm Ø	885 2"	950 2"	899 2"	1100 2"	1095 2"	1129 2"	1190 2"
P1	Sensor	mm Ø	610 ½"	650 ½"	649 ½"	700 ½"	695 ½"	729 ½"	790 ½"
P2	Sensor	mm Ø	1080 ½"	1150 ½"	1099 ½"	1300 ½"	1345 ½"	1379 ½"	1440 ½"
P3	Sensor	mm Ø	1700 ½"	1680 ½"	1714 ½"	2190 ½"	2385 ½"	2419 ½"	2480 ½"
T	Thermometer	mm Ø	1800 ½"	1940 ½"	1814 ½"	2190 ½"	2385 ½"	2419 ½"	2480 ½"
A1	Anode	mm Ø	810 ½"	860 ½"	834 ½"	1010 ½"	1005 ½"	1039 ½"	1100 ½"
A2	Anode	mm Ø	—	1850 ½"	1724 ½"	2130 ½"	2225 ½"	2259 ½"	2320 ½"
AS1	Spare	mm Ø	420 1"¼	450 1"¼	484 1"¼	510 1"¼	505 1"¼	539 1"¼	600 1"¼
AS2	Spare	mm Ø	1820 1"¼	1850 1"¼	1284 1"¼	1910 1"¼	1905 1"¼	1939 1"¼	2000 1"¼
FL1	Lower heat exchanger manhole	mm Ø	610 300×380	650 300×380	649 300×380	700 300×380	695 300×380	729 350×430	790 350×430
FL2	Middle heat exchanger manhole	mm Ø	1080 300×380	1150 300×380	1099 300×380	1300 300×380	1345 300×380	1379 350×430	1440 350×430
FL3	Upper heat exchanger manhole	mm Ø	1540 220×300	1650 300×380	1549 300×380	1900 300×380	1995 300×380	2029 300×380	2090 300×380
S1	Lower heat exchanger return	mm Ø	535 2"	575 2"	574 2"	625 2"	620 2"	629 2"	690 2"
S2	Lower heat exchanger supply	mm Ø	685 2"	725 2"	724 2"	775 2"	770 2"	829 2"	890 2"
S3	Middle heat exchanger return	mm Ø	1005 2"	1075 2"	1024 2"	1225 2"	1270 2"	1279 2"	1340 2"
S4	Middle heat exchanger supply	mm Ø	1155 2"	1225 2"	1174 2"	1375 2"	1420 2"	1479 2"	1540 2"
S5	Upper heat exchanger return	mm Ø	1480 1"	1575 2"	1474 2"	1825 2"	1920 2"	1954 2"	2015 2"
S6	Upper heat exchanger supply	mm Ø	1600 1"	1725 2"	1624 2"	1975 2"	2070 2"	2104 2"	2165 2"
SC	Drain	mm Ø	95 1"¼	130 1"¼	109 1"¼	135 1"¼	125 1"¼	114 1"¼	145 1"¼

TUBE BUNDLE HEAT EXCHANGERS PERFORMANCES			1000	1500	2000	2500	3000	4000	5000
Lower heat exchanger heating surface area		m²	2,00	3,00	4,00	5,00	6,00	8,00	10,00
Lower HEX output (Prim. 80/70°C - Sec. 10/45°C)		kW	72	108	144	180	215	287	359
Middle heat exchanger heating surface area		m²	2,00	3,00	4,00	5,00	6,00	8,00	10,00
Middle HEX output (Prim. 80/70°C - Sec. 10/45°C)		kW	72	108	144	180	215	287	359
DHW production 10/45°C		L/h	3529	5293	7057	8821	10586	14114	17643
Upper heat exchanger heating surface area		m²	1,00	1,50	2,00	2,50	3,00	4,00	5,00
Upper HEX output (Prim. 80/70°C - Sec. 10/45°C)		kW	36	54	72	90	108	144	180
DHW production 10/45°C		L/h	882	1323	1764	2205	2646	3529	4411

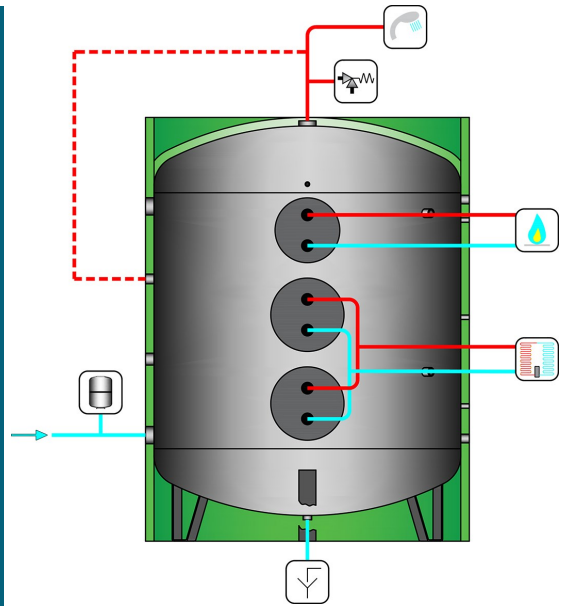
EMPTY WEIGHTS			1000	1500	2000	2500	3000	4000	5000
Empty weight		kg	260	340	400	465	585	790	890

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 ASSUMPTIONS



The proposed diagrams are purely indicative.

GENERAL CHARACTERISTICS - VERTICAL-LOW VERSION

	Capacity - L	1500	2000	2500	3000	4000	5000
DIMENSIONS							
Diameter without insulation	mm	1100	1250	1400	1400	1600	1800
Diameter with insulation	mm	1400	1550	1500	1500	1700	1900
Overall height	mm	2035	2039	2119	2369	2460	2483
Overturning height with without insulation	mm	2278 2067	2333 2078	2410 2166	2632 2411	2771 2510	2874 2542

CONNECTIONS

E Cold water supply	mm Ø	485 2"½	504 2"½	559 3"	559 3"	620 3"	622 3"
U DHW return	mm Ø	2035 2"½	2039 2"½	2119 3"	2369 3"	2460 3"	2483 3"
U2 DHW additional return	mm Ø	—	—	1649 3"	1899 3"	1960 3"	1962 3"
RC Recirculation	mm Ø	1235 1"½	1219 1"½	1309 1"½	1474 1"½	1535 1"½	1537 1"½
R Immersion electric heater	mm Ø	825 2"	814 2"	899 2"	1004 2"	1065 2"	1067 2"
P1 Sensor	mm Ø	655 ½"	674 ½"	729 ½"	729 ½"	790 ½"	792 ½"
P2 Sensor	mm Ø	1030 ½"	1024 ½"	1104 ½"	1199 ½"	1310 ½"	1312 ½"
P3 Sensor	mm Ø	1595 ½"	1564 ½"	1669 ½"	1819 ½"	1880 ½"	1882 ½"
T Thermometer	mm Ø	1695 ½"	1664 ½"	1769 ½"	1939 ½"	2080 ½"	2082 ½"
A1 Anode	mm Ø	870 ½"	864 ½"	944 ½"	929 ½"	990 ½"	992 ½"
A2 Anode	mm Ø	1595 ½"	1564 ½"	1669 ½"	1859 ½"	2000 ½"	2002 ½"
AS1 Spare	mm Ø	465 1"¼	484 1"¼	539 1"¼	539 1"¼	600 1"¼	602 1"¼
AS2 Spare	mm Ø	1265 1"¼	1284 1"¼	1339 1"¼	1939 1"¼	2000 1"¼	2002 1"¼
FL1 Lower heat exchanger manhole	mm Ø	620 300×380	614 300×380	694 300×380	729 300×380	790 350×430	792 350×430
FL2 Middle heat exchanger manhole	mm Ø	1030 300×380	1024 300×380	1104 300×380	1199 300×380	1310 350×430	1312 350×430
FL3 Upper heat exchanger manhole	mm Ø	1440 300×380	1434 300×380	1514 300×380	1669 300×380	1805 300×380	1807 300×380
S1 Lower heat exchanger return	mm Ø	545 2"	539 2"	619 2"	654 2"	691 2"	693 2"
S2 Lower heat exchanger supply	mm Ø	695 2"	689 2"	769 2"	804 2"	891 2"	893 2"
S3 Middle heat exchanger return	mm Ø	955 2"	949 2"	1029 2"	1124 2"	1211 2"	1213 2"
S4 Middle heat exchanger supply	mm Ø	1105 2"	1099 2"	1179 2"	1274 2"	1411 2"	1413 2"
S5 Upper heat exchanger return	mm Ø	1365 2"	1359 2"	1439 2"	1594 2"	1730 2"	1732 2"
S6 Upper heat exchanger supply	mm Ø	1515 2"	1509 2"	1589 2"	1744 2"	1880 2"	1882 2"
SC Drain	mm Ø	123 1"¼	106 1"¼	114 1"¼	114 1"¼	145 1"¼	126 1"¼

TUBE BUNDLE HEAT EXCHANGERS PERFORMANCES

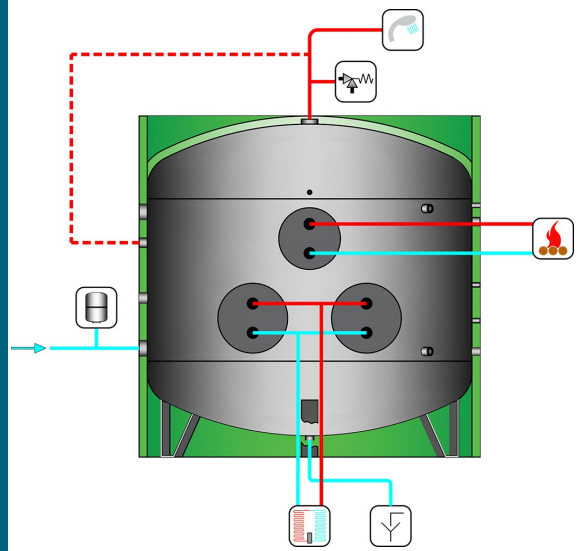
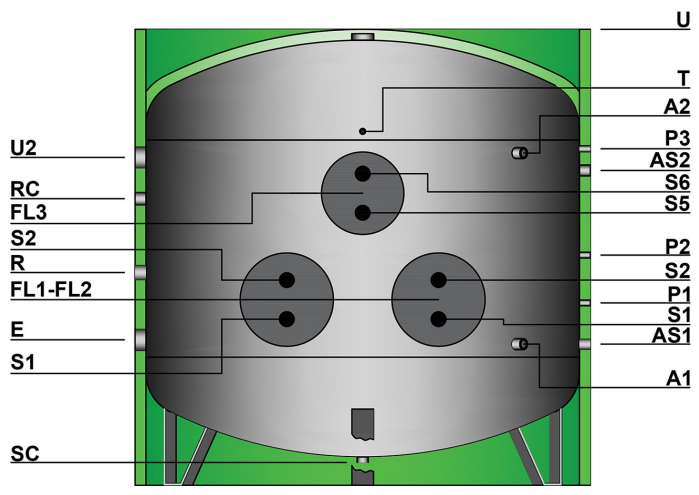
Lower heat exchanger heating surface area	m ²	3,00	4,00	5,00	6,00	8,00	10,00
Lower HEX output (Prim. 80/70°C - Sec. 10/45°C)	kW	108	144	180	215	287	359
Middle heat exchanger heating surface area	m ²	3,00	4,00	5,00	6,00	8,00	10,00
Middle HEX output (Prim. 80/70°C - Sec. 10/45°C)	kW	108	144	180	215	287	359
DHW production 10/45°C	L/h	5293	7057	8821	10586	14114	17643
Upper heat exchanger heating surface area	m ²	1,50	2,00	2,50	3,00	4,00	5,00
Upper HEX output (Prim. 80/70°C - Sec. 10/45°C)	kW	54	72	90	108	144	180
DHW production 10/45°C	L/h	1323	1764	2205	2646	3529	4411

EMPTY WEIGHTS

Empty weight	kg	360	440	540	660	795	1000
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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 ASSUMPTIONS



The proposed diagrams are purely indicative.

GENERAL CHARACTERISTICS - VERTICAL EXTRA-LOW VERSION

	Capacity - L	3000	4000	5000
DIMENSIONS				
Diameter without insulation	mm	1500	1700	2000
Diameter with insulation	mm	1600	1800	2100
Overall height	mm	2130	2190	2100
Overturning height with without insulation	mm	2450 2158	2578 2249	2628 2179

		3000	4000	5000
CONNECTIONS				
E	Cold water supply	mm Ø	558 3"	670 3"
U	DHW return	mm Ø	2130 3"	2100 3"
U2	DHW additional return	mm Ø	1650 3"	1510 3"
RC	Recirculation	mm Ø	1308 1 1/2"	1320 1 1/2"
R	Immersion electric heater	mm Ø	898 2"	1070 2"
P1	Sensor	mm Ø	728 1/2"	850 1/2"
P2	Sensor	mm Ø	1103 1/2"	1070 1/2"
P3	Sensor	mm Ø	1668 1/2"	1530 1/2"
T	Thermometer	mm Ø	1768 1/2"	1630 1/2"
A1	Anode	mm Ø	943 1/2"	650 1/2"
A2	Anode	mm Ø	1668 1/2"	1530 1/2"
AS1	Spare	mm Ø	538 1 1/4"	650 1 1/4"
AS2	Spare	mm Ø	1337 1 1/4"	1450 1 1/4"
FL1	Lower heat exchanger manhole	mm Ø	693 300x380	850 350x430
FL2	Middle heat exchanger manhole	mm Ø	1103 300x380	850 350x430
FL3	Upper heat exchanger manhole	mm Ø	1513 300x380	1340 300x380
S1	Lower heat exchanger return	mm Ø	618 2"	751 2"
S2	Lower heat exchanger supply	mm Ø	768 2"	951 2"
S3	Middle heat exchanger return	mm Ø	1028 2"	751 2"
S4	Middle heat exchanger supply	mm Ø	1178 2"	951 2"
S5	Upper heat exchanger return	mm Ø	1438 2"	1265 2"
S6	Upper heat exchanger supply	mm Ø	1588 2"	1415 2"
SC	Drain	mm Ø	103 1 1/4"	105 1 1/4"

TUBE BUNDLE HEAT EXCHANGERS PERFORMANCES				
Lower heat exchanger heating surface area	m²	6,00	8,00	10,00
Lower HEX output (Prim. 80/70°C - Sec. 10/45°C)	kW	215	287	359
Middle heat exchanger heating surface area	m²	6,00	8,00	10,00
Middle HEX output (Prim. 80/70°C - Sec. 10/45°C)	kW	215	287	359
DHW production 10/45°C	L/h	10586	14114	17643
Upper heat exchanger heating surface area	m²	3,00	4,00	5,00
Upper HEX output (Prim. 80/70°C - Sec. 10/45°C)	kW	108	144	180
DHW production 10/45°C	L/h	2646	3529	4411

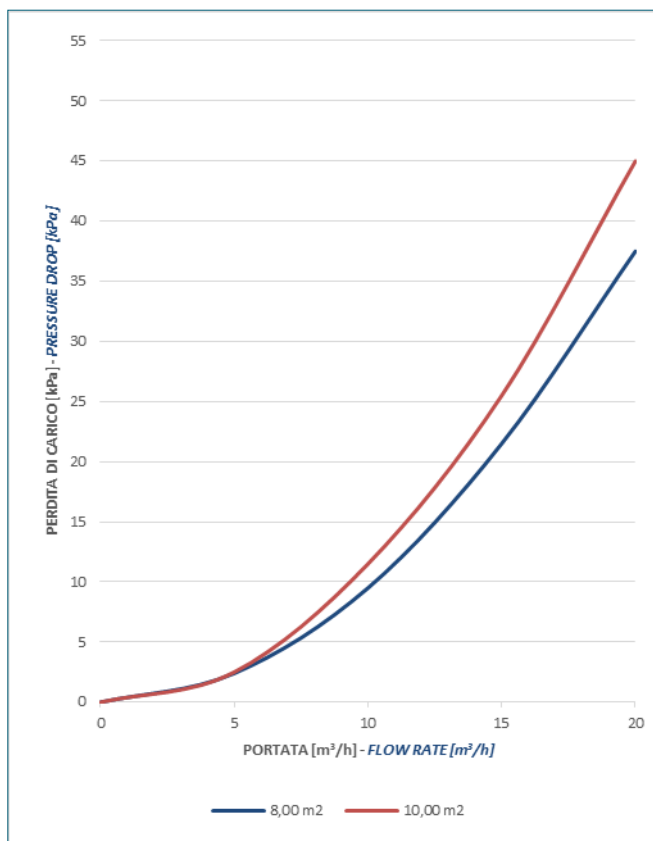
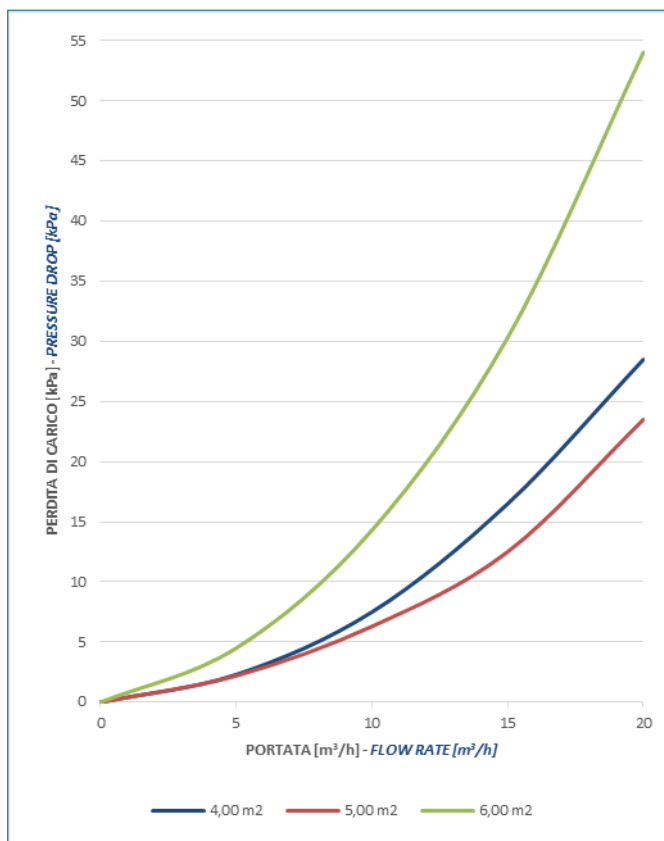
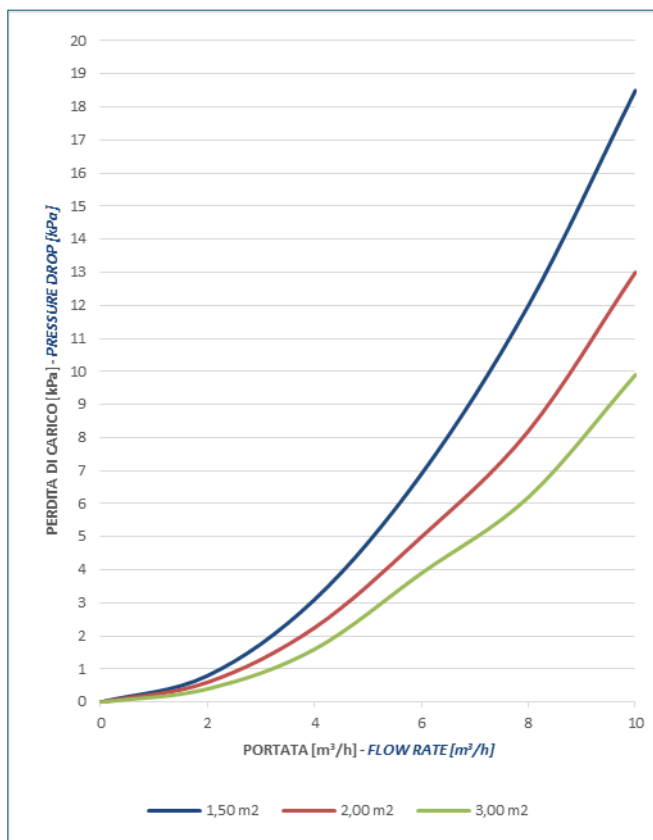
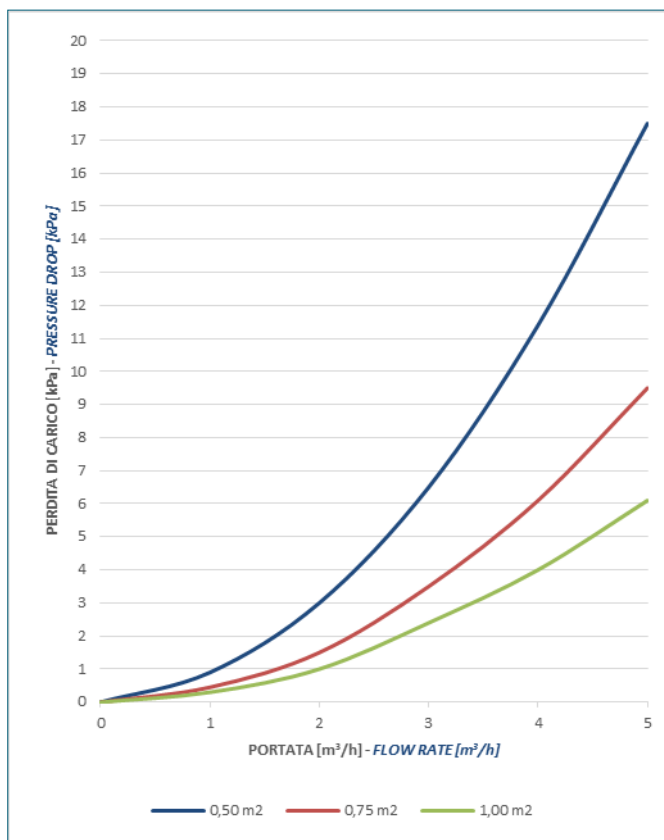
EMPTY WEIGHTS				
Empty weight	kg	660	840	990

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.



TUBE BUNDLE HEAT EXCHANGER PRESSURE DROP

BT3H-X - BT3-X



STAINLESS STEEL DHW CALORIFIER EQUIPPED WITH THREE REMOVABLE TUBE BUNDLE HEAT EXCHANGERS

LOWER AND MIDDLE TUBE BUNDLE HEAT EXCHANGERS OUTPUT

Primary (80-70)°C | Secondary (10-45)°C

Storage Volume	Heating surface area	Capacity	Primary flow	SECONDARY (DHW)		
				Continuous production	Production first 10'	Production first 60'
<i>L</i>	<i>m²</i>	<i>kW</i>	<i>L/h</i>	<i>L/h</i>	<i>L</i>	<i>L</i>
1000	2,00	72	6175	3529	1588	4529
	2,00	72	6175			
1500	3,00	108	9263	5293	2382	6793
	3,00	108	9263			
2000	4,00	144	12350	7057	3176	9057
	4,00	144	12350			
2500	5,00	180	15438	8821	3970	11321
	5,00	180	15438			
3000	6,00	215	18525	10586	4764	13586
	6,00	215	18525			
4000	8,00	287	24700	14114	6352	18114
	8,00	287	24700			
5000	10,00	359	30870	17643	7940	22643
	10,00	359	30875			

Primary (70-60)°C | Secondary (10-45)°C

Storage Volume	Heating surface area	Capacity	Primary flow	SECONDARY (DHW)		
				Continuous production	Production first 10'	Production first 60'
<i>L</i>	<i>m²</i>	<i>kW</i>	<i>L/h</i>	<i>L/h</i>	<i>L</i>	<i>L</i>
1000	2,00	52	4500	2571	1429	3571
	2,00	52	4500			
1500	3,00	78	6750	3857	2143	5357
	3,00	78	6750			
2000	4,00	105	9000	5143	2857	7143
	4,00	105	9000			
2500	5,00	131	11250	6429	3571	8929
	5,00	131	11250			
3000	6,00	157	13500	7714	4286	10714
	6,00	157	13500			
4000	8,00	209	18000	10286	5714	14286
	8,00	209	18000			
5000	10,00	262	22500	12857	7143	17857
	10,00	262	22500			

Primary (60-50)°C | Secondary (10-45)°C

Storage Volume	Heating surface area	Capacity	Primary flow	SECONDARY (DHW)		
				Continuous production	Production first 10'	Production first 60'
<i>L</i>	<i>m²</i>	<i>kW</i>	<i>L/h</i>	<i>L/h</i>	<i>L</i>	<i>L</i>
1000	2,00	35	3025	1729	1288	2729
	2,00	35	3025			
1500	3,00	53	4538	2593	1932	4093
	3,00	53	4538			
2000	4,00	70	6050	3457	2576	5457
	4,00	70	6050			
2500	5,00	88	7563	4321	3220	6821
	5,00	88	7563			
3000	6,00	106	9075	5186	3864	8186
	6,00	106	9075			
4000	8,00	141	12100	6914	5152	10914
	8,00	141	12100			
5000	10,00	176	15125	8643	6440	13643
	10,00	176	15125			

Primary (55-45)°C | Secondary (10-45)°C

Storage Volume	Heating surface area	Capacity	Primary flow	SECONDARY (DHW)		
				Continuous production	Production first 10'	Production first 60'
<i>L</i>	<i>m²</i>	<i>kW</i>	<i>L/h</i>	<i>L/h</i>	<i>L</i>	<i>L</i>
1000	2,00	21	1800	1029	1171	2029
	2,00	21	1800			
1500	3,00	31	2700	1543	1757	3043
	3,00	31	2700			
2000	4,00	42	3600	2057	2343	4057
	4,00	42	3600			
2500	5,00	52	4500	2571	2929	5071
	5,00	52	4500			
3000	6,00	63	5400	3086	3514	6086
	6,00	63	5400			
4000	8,00	84	7200	4114	4686	8114
	8,00	84	7200			
5000	10,00	105	9000	5143	5857	10143
	10,00	105	9000			

BT3H-X - BT3-X



UPPER TUBE BUNDLE HEAT EXCHANGER OUTPUT

Primary (80-70)°C | Secondary (10-45)°C

Storage Capacity	Heating surface area	Capacity	Primary flow	SECONDARY (DHW) Continuous production
<i>L</i>	<i>m²</i>	<i>kW</i>	<i>L/h</i>	<i>L/h</i>
1000	1,00	36	3088	882
1500	1,50	54	4631	1323
2000	2,00	72	6175	1764
2500	2,50	90	7719	2205
3000	3,00	108	9263	2646
4000	4,00	144	12350	3529
5000	5,00	180	15438	4411

Primary (70-60)°C | Secondary (10-45)°C

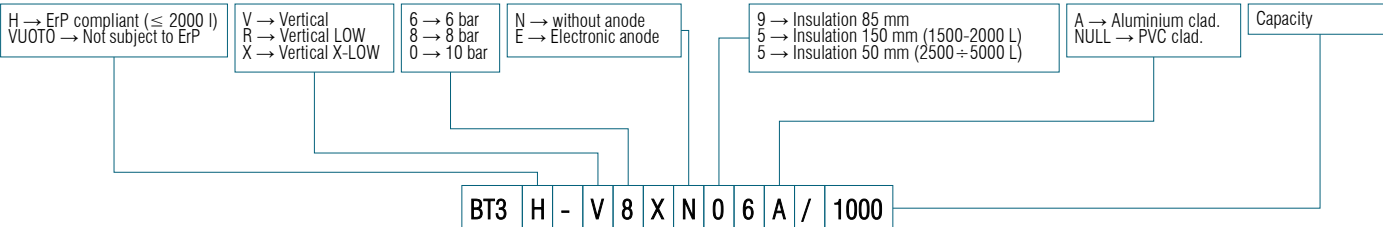
Storage Capacity	Heating surface area	Capacity	Primary flow	SECONDARY (DHW) Continuous production
<i>L</i>	<i>m²</i>	<i>kW</i>	<i>L/h</i>	<i>L/h</i>
1000	1,00	26	2250	643
1500	1,50	39	3375	964
2000	2,00	52	4500	1286
2500	2,50	65	5625	1607
3000	3,00	78	6750	1929
4000	4,00	105	9000	2571
5000	5,00	131	11250	3214

Primary (60-50)°C | Secondary (10-45)°C

Storage Capacity	Heating surface area	Capacity	Primary flow	SECONDARY (DHW) Continuous production
<i>L</i>	<i>m²</i>	<i>kW</i>	<i>L/h</i>	<i>L/h</i>
1000	1,00	18	1513	432
1500	1,50	26	2269	648
2000	2,00	35	3025	864
2500	2,50	44	3781	1080
3000	3,00	53	4538	1296
4000	4,00	70	6050	1729
5000	5,00	88	7563	2161

STAINLESS STEEL DHW CALORIFIER EQUIPPED WITH THREE REMOVABLE TUBE BUNDLE HEAT EXCHANGERS

HOT TO ORDER



ACCESSORIES & SPARE PARTS

ITEM	PART NO.		
THERMOMETER Ø65 mm L=150 mm (0÷120)°C	TERMOMETRO-D65_L		
THERMOMETER Ø100 mm L=150 mm (0÷120)°C	TERMOMETRO-D100		
SENSOR SOCKET Ø½" L=150 mm Ø _{int} 10 mm	POZZETTO_L		
THERMOSTAT Ø½" (0÷90)°C	TERMOSTATO		
TITANIUM ANODE for SS 316L tanks 1000 L	ANODE_ARTHX1-150/400		
TITANIUM ANODE for SS 316L tanks 1500-5000 L	ANODE_ARTHX2-150/400		ELECTRONIC ANODE

1-PHASE & 3-PHASE IMMERSION ELECTRIC HEATER - STAINLESS STEEL 316L TUBES

Threaded plug 1.1/2" with brass adapter 1.1/2" to 2" | Aluminium box IP54 | V220/1-V240/1 or V400/3

Capacity	Capacity/L matching	Length	Volt	Plug type	2-THERMOSTAT Temperature regulation & overheating protection	PART NO.	
Watt	L	mm	mm	mm			
2000	1000 ÷ 5000	310	220/1	SHUKO		RES020-L310-6-M-BT	
3000	1000 ÷ 5000	350	240/1			RES030-L350-6-M-BT	
5000	1000 ÷ 5000	375				RES050-L375-6-T-BT	
6000	1000 ÷ 5000	435				RES060-L435-6-T-BT	
9000	1000 ÷ 5000	610	400/3	Not supplied		RES090-L610-6-T-BT	
10000	1000 ÷ 5000	670				RES100-L670-6-T-BT	
12000	1000 ÷ 5000	730				RES120-L727-6-T-BT	
15000	1500 ÷ 5000	870				RES150-L870-6-T-BT	

PRIMARY CHESTS AND SEALING GASKETS

Diameter Internal × External mm	Capacity L	Primary chest made of Stainless Steel PART NO.	EPDM gasket without cross bar PART NO.	EPDM gasket with cross bar PART NO.
220×300	1000	TESTA300X220X5-X	GUGOMEPDM300X220ST	GUGOMEPDM300X220CT
300×380	1000 ÷ 5000	TESTA380X300X5-X	GUGOMEPDM380X300ST	GUGOMEPDM380X300CT
350×430	4000-5000	TESTA430X350X5-X	GUGOMEPDM430X350ST	GUGOMEPDM430X350CT

TUBE BUNDLE HEAT EXCHANGERS

Heating surface area m ²	Dimensions		Stainless Steel AISI 316L Tubes & plate PART NO.
	D mm	L mm	
1,00	300	473	SFX6010D300-X
1,50	380	594	SFX6015D380-X
2,00	380	594	SFX6020D380-X
2,50	380	594	SFX6025D380-X
3,00	380	718	SFX6030D380-X
4,00	380	850	SFX6040D380-X
5,00	380	1050	SFX6050D380-X
6,00	380	1250	SFX6060D380-X
8,00	430	1250	SFX6080D430-X
10,00	430	1510	SFX6100D430-X

BT3H-X - BT3-X



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.

CATHODIC PROTECTION

The corrosion of a metal structure occurs mainly in areas in which there is the passage of current (oxidation-reduction process) from the structure towards the outside (water or gas) causing a dissolution of the structure itself.

Cathodic protection by means of electronic impressed current system.

As an alternative to the galvanic system (coupling of materials with different potentials) there is a protection method which consists in applying an equal and opposite continuous current to the metallic structure to be protected, neutralising the voltages formed inside the tank.

Thanks to the modern techniques there is an innovative electronic system of cathodic protection with continuous impressed current.

The main advantages are:

- active protection by means of impressed currents from the outside;
- excellent flexibility of operation in order to adhere to the changeable internal coating conditions and the mass of water;
- reduction of maintenance costs due to the permanent protection of the system.



INSULATIONS

Insulating material	Removable	Thickness	Density	Thermal conductivity coefficient at 45°C	Operating temperature	Fire reaction class Euroclass EN13501-1
PLF Polyester fibre	✓	50 mm	20 kg/m ³	$\lambda = 0,037 \text{ W/mK}$	Amb. / +99°C	B-s2, d0
PLFH High Density Polyester fibre	✓	120 mm	25 kg/m ³	$\lambda = 0,034 \text{ W/mK}$	Amb. / +99°C	B-s2, d0
Hard Polyurethane	✓	85 mm	40 ÷ 42 kg/m ³	$\lambda = 0,019 \text{ W/mK}$	Amb. / +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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