



BST

GLASSLINED CYLINDER FOR SOLAR THERMAL USE WITH TWO FIXED HEAT EXCHANGERS

190 - 1.915 litres

INTERNAL GLASSLINING:

DIN 4753 | The glasslining treatment makes the cylinder suitable to contain hot water for sanitary use and resistant to corrosive phenomena. The glasslining treatment makes the cylinder suitable to contain hot water for sanitary use and resistant to corrosive phenomena.

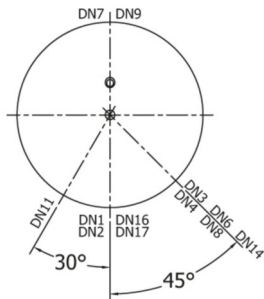
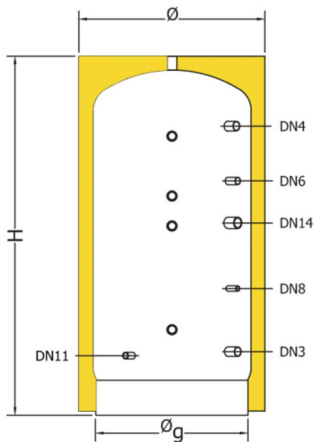
INSTALLATIONS

- traditional boilers (wall-hung and/or floor-standing)
- condensing boilers
- solar thermal systems

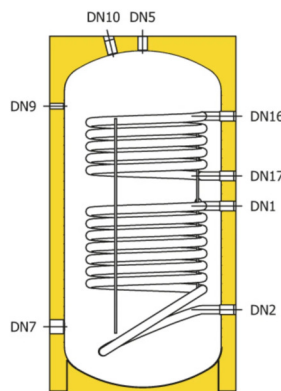
CHARACTERISTICS

MAX TEMPERATURE	95 °C	MAX PRESSURE (mod. 200 - 1000)	10 bar
EXCHANGER MAX TEMPERATURE	110 °C	MAX PRESSURE (mod. 1500 - 2000)	6 bar
		EXCHANGER MAX PRESSURE	12 bar

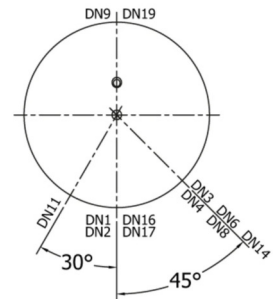
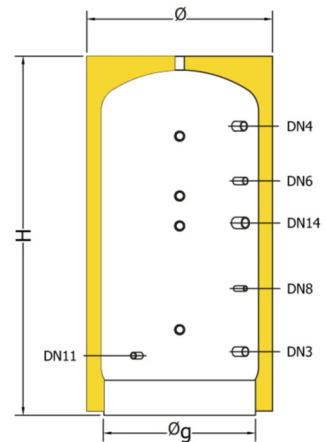
BST 200 - 1000



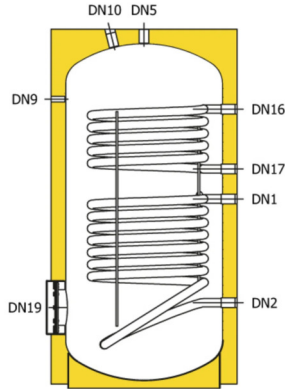
BST 200 - 1000



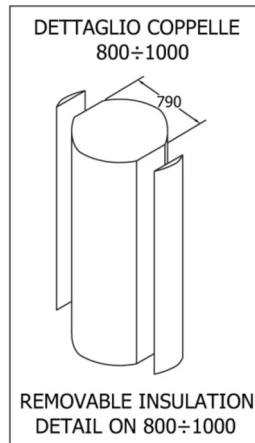
BST 800 - 1000 + FL



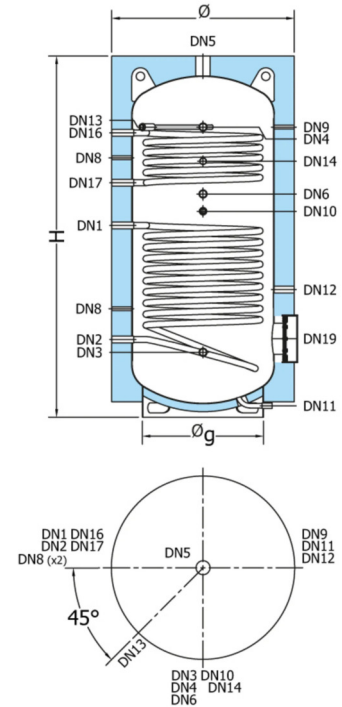
BST 800 - 1000 + FL



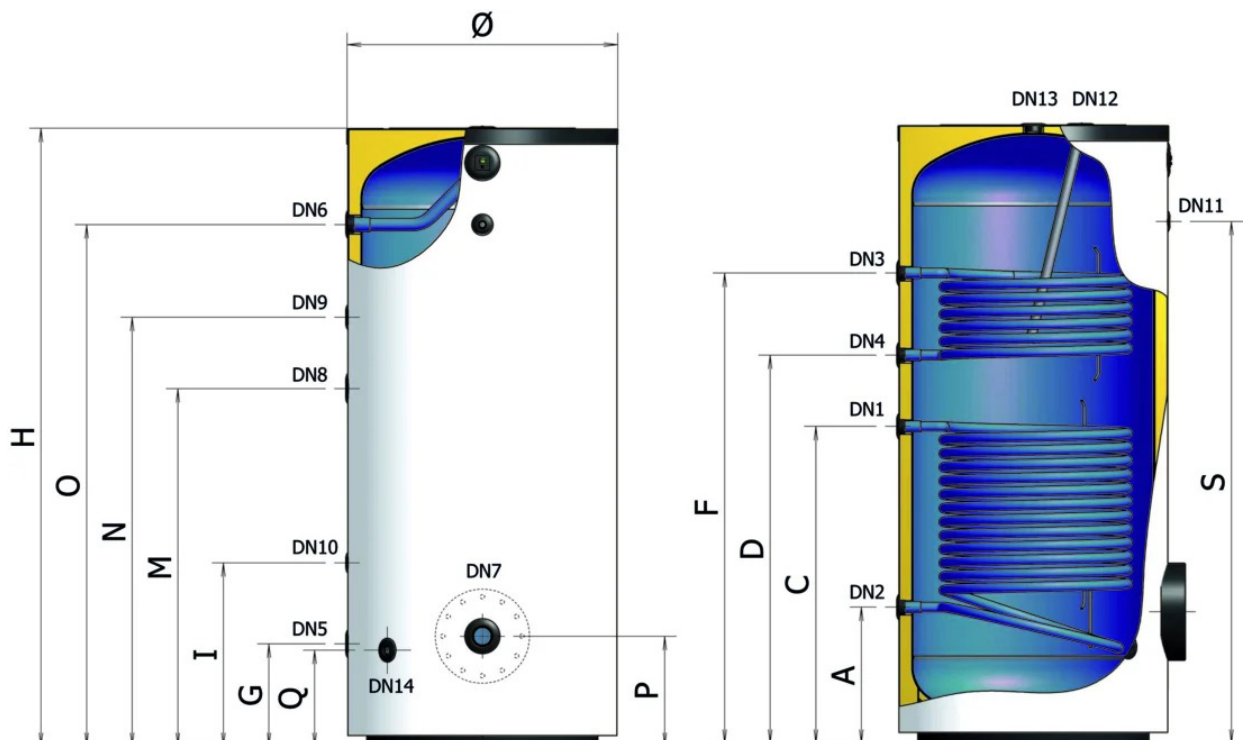
BST 800 - 1000 CUPS



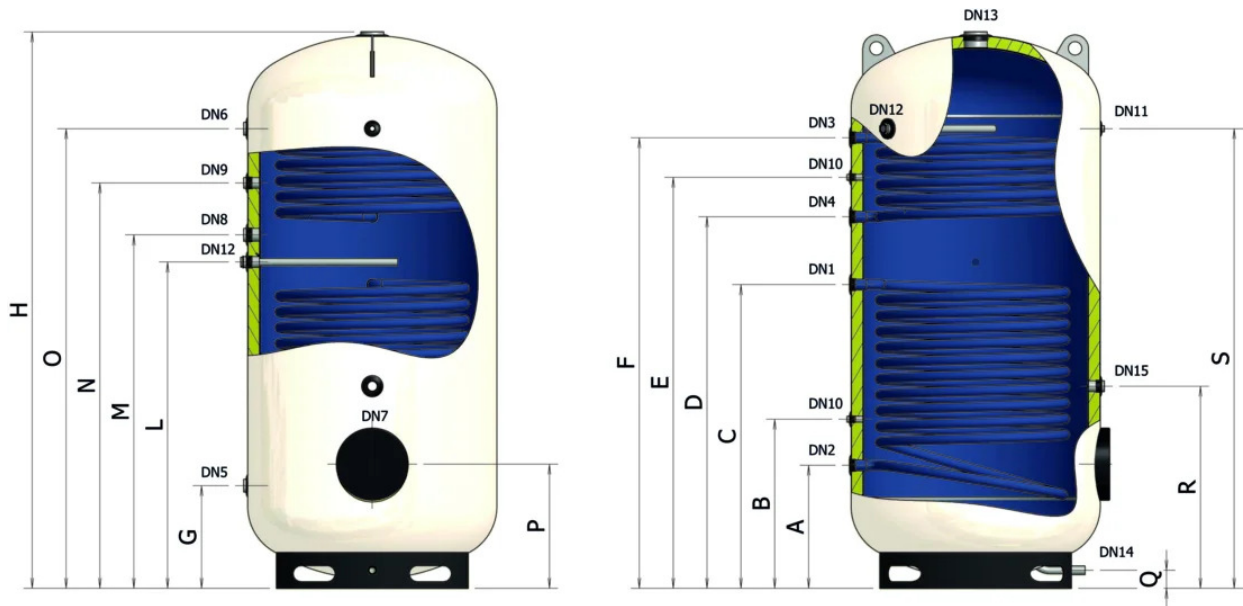
BST 1500 - 2000



BST 800 - 1000 EXP



BST 1500 - 2000 EXP



Keyword

DN	Description
DN1	Inlet from solar panel
DN2	Return to solar panel
DN3	Mains water supply
DN4	DHW draw-off
DN5	DHW draw-off
DN6	Recirculation
DN7	Predisposition for immersion heater
DN8	Thermostat
DN9	Thermometer
DN10	Magnesium anode
DN11	Drain
DN12	Sanitary water expansion tank
DN13	Magnesium anode
DN14	Predisposition for immersion heater
DN16	Inlet from boiler
DN17	Return to boiler
DN19	Inspection hatch

Model	Code	Energy label	St. loss W	Capacity L	EXCHANGER				H mm	Ø skirt mm	Ø mm	Pm mm
					LOW.		UPP.					
					m ²	l	m ²	l				
BST-200	A3E0L47 PGP55	B	56	184	0.7	6	0.5	5	1200	460	610	1350
BST-300	A3E0L51 PGP75	B	65	267	1.2	9	0.75	6	1670	460	650	1800
BST-500	A3E0L55 PGP55	C	90	472	1.8	14	0.9	8	1735	600	760	1900
BST-800	A3E0L60 PGP75	C	129	716	2	19	1.2	12	1815	760	940	2050
BST-1000	A3E0L62 PGP75	C	134	831	2.4	25	1.2	12	2065	760	940	2270
BST-800 + FI	A3E1L60 PGP75	C	131	718	2	19	1.2	12	1815	760	940	2050
BST-1000 + FI	A3E1L62 PGP75	C	136	833	2.4	25	1.2	12	2065	760	940	2270
BST-1500 + FI	A3E1H67 VV4A5	C	163	1589	3.6	36	1.6	18	2530	850	1270	2840
BST-2000 + FI	A3E1H70 VV4A5	C	174	1880	4.3	48	2.1	24	2510	950	1370	2860
BST-800 EXP	A3E0L60 PGP45			754	2	19	1.2	12	1800		900	2015
BST-1000 EXP	A3E0L62 PGP45			879	2.4	25	1.2	12	2050		900	2240
BST-800 + FI EXP	A3E1L60 SWS50			758	2	19	1.2	12	1800		900	2015
BST-1000 + FI EXP	A3E1L62 SWS50			883	2.4	25	1.2	12	2050		900	2240
BST-1500 + FI EXP	A3E1H67 VV050			1587	3.6	36	1.6	18	2465		1100	2700
BST-2000 + FI EXP	A3E1H70 VV050			1886	4.3	48	2.1	24	2445		1200	2725

FI: Flange Version | Pm: pivot measurement

Connection heights (mm)

MODEL	DN1	DN2	DN3	DN4	DN5	DN6	DN7	DN8	DN8	DN9	DN10	DN11	DN12	DN12	DN13	DN14	DN16	DN17	DN19
BST-200	585	235	235	935	-	760	250	350	-	935	-	220	-	-	-	635	930	680	-
BST-300	835	235	235	1385	-	1095	250	380	-	1385	-	220	-	-	-	875	1315	930	-
BST-500	820	280	280	1430	-	1115	295	495	-	1430	-	265	-	-	-	905	1250	980	-
BST-800	950	430	320	1450	-	1175	345	635	-	1450	-	300	-	-	-	965	1400	1100	-
BST-1000	1070	430	320	1700	-	1395	345	635	-	1700	-	300	-	-	-	1160	1520	1220	-
BST-800 + FI	950	430	320	1450	-	1175	-	635	-	1450	-	300	-	-	-	965	1400	1100	415
BST-1000 + FI	1070	430	320	1700	-	1395	-	635	-	1700	-	300	-	-	-	1160	1520	1220	415
BST-1500 + FI	1345	545	455	2035	-	1795	-	760	1820	2035	1445	80	895	895	2035	1565	1995	1645	550
BST-2000 + FI	1425	535	445	2025	-	1785	-	760	1780	2025	1455	80	885	885	2025	1565	2025	1605	540
BST-800 EXP	970	450	340	1470	-	1195	365	655	-	1470	-	320	-	-	-	985	1420	1120	-
BST-1000 EXP	1090	450	340	1720	-	1415	365	655	-	1720	-	320	-	-	-	1180	1540	1240	-
BST-800 + FI EXP	970	450	340	1470	-	1195	-	655	-	1470	-	320	-	-	-	985	1420	1120	435
BST-1000 + FI EXP	1090	450	340	1720	-	1415	-	655	-	1720	-	320	-	-	-	1180	1540	1240	435
BST-1500 + FI EXP	1345	545	455	2035	-	1795	-	760	1820	2035	1445	80	895	895	2035	1565	1995	1645	550
BST-2000 + FI EXP	1425	400	445	2025	-	1785	-	760	1780	2025	1455	80	885	885	2025	1565	2025	1605	540

Connection sizes

MODEL	DN1	DN2	DN3	DN4	DN5	DN6	DN7	DN8	DN9	DN10	DN11	DN12	DN12	DN13	DN14	DN16	DN17	DN19
BST-200	G1"	G1"	G1"	G1"	G1.1/4"	G3/4"	G2"	G1/2"	G1/2"	G1.1/4"	G1/2"	-	-	-	G1.1/2"	G1"	G1"	-
BST-300	G1"	G1"	G1"	G1"	G1.1/4"	G3/4"	G2"	G1/2"	G1/2"	G1.1/4"	G1/2"	-	-	-	G1.1/2"	G1"	G1"	-
BST-500	G1"	G1"	G1"	G1"	G1.1/4"	G3/4"	G2"	G1/2"	G1/2"	G1.1/4"	G1/2"	-	-	-	G1.1/2"	G1"	G1"	-
BST-800	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1"	G2"	G1/2"	G1/2"	G1.1/4"	G3/4"	-	-	-	G1.1/2"	G1.1/4"	G1.1/4"	-
BST-1000	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1"	G2"	G1/2"	G1/2"	G1.1/4"	G3/4"	-	-	-	G1.1/2"	G1.1/4"	G1.1/4"	-
BST-800 + FI	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1"	-	G1/2"	G1/2"	G1.1/4"	G3/4"	-	-	-	G1.1/2"	G1.1/4"	G1.1/4"	Ø, 220
BST-1000 + FI	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1"	-	G1/2"	G1/2"	G1.1/4"	G3/4"	-	-	-	G1.1/2"	G1.1/4"	G1.1/4"	Ø, 220
BST-1500 + FI	G1.1/4"	G1.1/4"	G1.1/2"	G1.1/2"	G3"	G1.1/4"	-	G1/2"	G1/2"	G1.1/4"	G1"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/2"	G1.1/4"	G1.1/4"	Ø, 220
BST-2000 + FI	G1.1/4"	G1.1/4"	G1.1/2"	G1.1/2"	G3"	G1.1/4"	-	G1/2"	G1/2"	G1.1/4"	G1"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/2"	G1.1/4"	G1.1/4"	Ø, 220
BST-800 EXP	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1"	G2"	G1/2"	G1/2"	G1.1/4"	G3/4"	-	-	-	G1.1/2"	G1.1/4"	G1.1/4"	-
BST-1000 EXP	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1"	G2"	G1/2"	G1/2"	G1.1/4"	G3/4"	-	-	-	G1.1/2"	G1.1/4"	G1.1/4"	-
BST-800 + FI EXP	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1"	-	G1/2"	G1/2"	G1.1/4"	G3/4"	-	-	-	G1.1/2"	G1.1/4"	G1.1/4"	Ø, 220
BST-1000 + FI EXP	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1"	-	G1/2"	G1/2"	G1.1/4"	G3/4"	-	-	-	G1.1/2"	G1.1/4"	G1.1/4"	Ø, 220
BST-1500 + FI EXP	G1.1/4"	G1.1/4"	G1.1/2"	G1.1/2"	G3"	G1.1/4"	-	G1/2"	G1/2"	G1.1/4"	G1"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/2"	G1.1/4"	G1.1/4"	Ø, 220
BST-2000 + FI EXP	G1.1/4"	G1.1/4"	G1.1/2"	G1.1/2"	G3"	G1.1/4"	-	G1/2"	G1/2"	G1.1/4"	G1"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/2"	G1.1/4"	G1.1/4"	Ø, 220

Protective devices

Model	Magnesium anode code	Nr. installed magnesium anode	Diam.Ø	Conn.	Length	Reccomended sanitary expansion tank(*)
BST-200	8560040 00002	1	32	G1.1/4"	320	DP-11
BST-300	8560060 00002	1	32	G1.1/4"	520	DP-18
BST-500	8560080 00002	1	32	G1.1/4"	700	DP-24
BST-800	8560080 00002	1	32	G1.1/4"	700	DP-35
BST-1000	8560080 00002	1	32	G1.1/4"	700	DPV-50
BST-800 + FI	8560080 00002	1	32	G1.1/4"	700	DP-35
BST-1000 + FI	8560080 00002	1	32	G1.1/4"	700	DPV-50
BST-1500 + FI	8560080 00002	2	32	G1.1/4"	700	DPV-80
BST-2000 + FI	8560070 00002	2	32	G1.1/4"	670	DPV-100

(*) The expansion tank must always be sized by an expert thermotechnical designer on the basis of the actual data

Insulation characteristics

Model	Insulation type	Thickness (mm)	Finish
BST-200	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	55	Grey polystyrene RAL 9006
BST-300	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	75	Grey polystyrene RAL 9006
BST-500	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	55	Grey polystyrene RAL 9006
BST-800	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	75	Grey PVC RAL 9006
BST-1000	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	75	Grey PVC RAL 9006
BST-800 + FI	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	75	Grey PVC RAL 9006
BST-1000 + FI	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	75	Grey PVC RAL 9006
BST-1500 + FI	100% recyclable polyester fibre, fire resistance class B1 acc. to DIN 4102-1	135	Grey PVC RAL 9006
BST-2000 + FI	100% recyclable polyester fibre, fire resistance class B1 acc. to DIN 4102-1	135	Grey PVC RAL 9006

Reference standards

CYLINDER: | Directive 2014/68/EU – ART. 4.3, with exemption from CE marking. EN 12897:2020 standard. Designed and built in accordance with the requirements of 2009/125/EC and Regulation 814/2013 (EU). Labeling in accordance with the requirements of 2017/1369/EU and Delegated Regulation 812/2013 (EU).

Warranty: 5 years

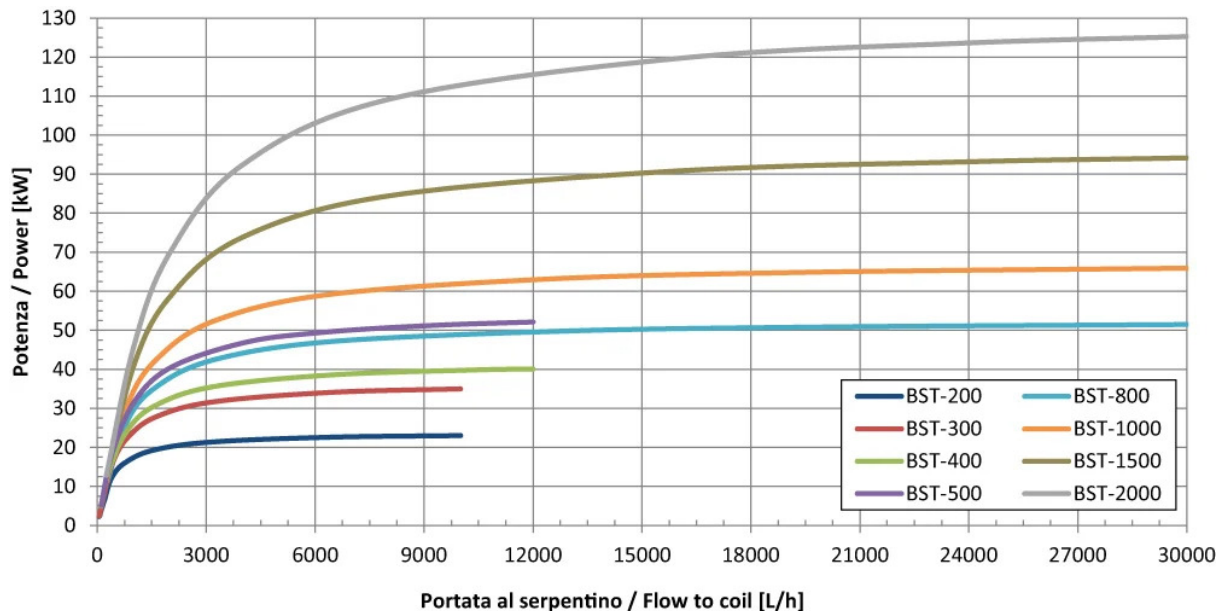
Immersion heaters

Code	Power	Source	Connection	Length	Applicable to							
					200	300	400	500	800	1000	1500	2000
IMMERSION HEATERS WITHOUT THERMOSTAT												
8601000	1	220	G1.1/4"	295	✓	✓	✓	✓	✓	✓	✓	✓
8601650	1.65	220	G1.1/4"	450	✓	✓	✓	✓	✓	✓	✓	✓
8602000	2	220	G1.1/4"	515	✗	✗	✓	✓	✓	✓	✓	✓
8602600	2.6	220	G1.1/4"	675	✗	✗	✗	✗	✓	✓	✓	✓
8602601	2.6	220	G1.1/4"	360	✓	✓	✓	✓	✓	✓	✓	✓
8603300	3.3	220	G1.1/4"	825	✗	✗	✗	✗	✗	✗	✓	✓
8603301	3.3	220	G1.1/4"	435	✓	✓	✓	✓	✓	✓	✓	✓
8604001	4	220	G1.1/4"	510	✗	✗	✓	✓	✓	✓	✓	✓
8705000	5	380	G1.1/2"	445	✓	✓	✓	✓	✓	✓	✓	✓
8706000	6	380	G1.1/2"	510	✗	✗	✓	✓	✓	✓	✓	✓
8708000	8	380	G1.1/2"	670	✗	✗	✗	✗	✓	✓	✓	✓
8710000	10	380	G1.1/2"	820	✗	✗	✗	✗	✗	✗	✓	✓
8712000	12	380	G1.1/2"	970	✗	✗	✗	✗	✗	✗	✓	✓
IMMERSION HEATERS WITH THERMOSTAT												
8T01500	1.5	230	G1.1/2"	320	✓	✓	✓	✓	✓	✓	✓	✓
8T02000	2	230	G1.1/2"	320	✓	✓	✓	✓	✓	✓	✓	✓
8T02200	2.2	230	G1.1/2"	320	✓	✓	✓	✓	✓	✓	✓	✓
8T02500	2.5	230	G1.1/2"	320	✓	✓	✓	✓	✓	✓	✓	✓
8T03000	3	230	G1.1/2"	320	✓	✓	✓	✓	✓	✓	✓	✓
8T04000	4	400	G1.1/2"	400	✓	✓	✓	✓	✓	✓	✓	✓
8T05000	5	400	G1.1/2"	500	✗	✓	✓	✓	✓	✓	✓	✓
8T06000	6	400	G1.1/2"	600	✗	✗	✓	✓	✓	✓	✓	✓
8T09000	9	400	G1.1/2"	700	✗	✗	✗	✗	✓	✓	✓	✓
8T12000	12	400	G1.1/2"	850	✗	✗	✗	✗	✗	✗	✓	✓

Typical performances

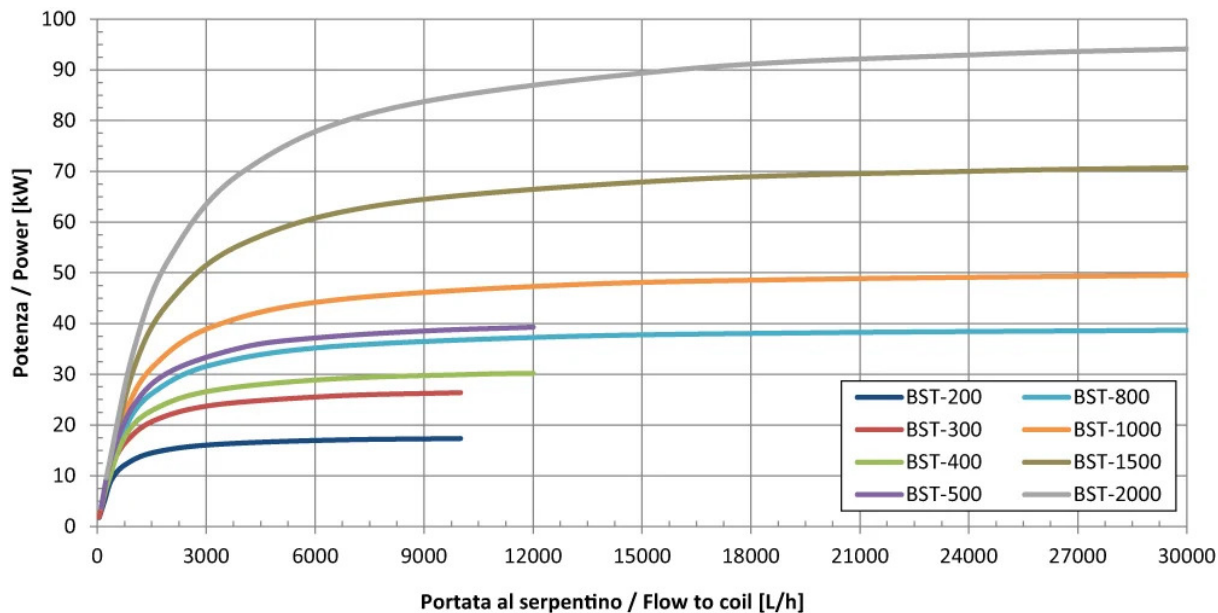
Potenza scambiata, scamb. solare / Exch. power, solar coil

$$T_{in,coil} = 80\text{ }^{\circ}\text{C}; T_{serb,in} = 10\text{ }^{\circ}\text{C}, T_{serb,out} = 45\text{ }^{\circ}\text{C}$$



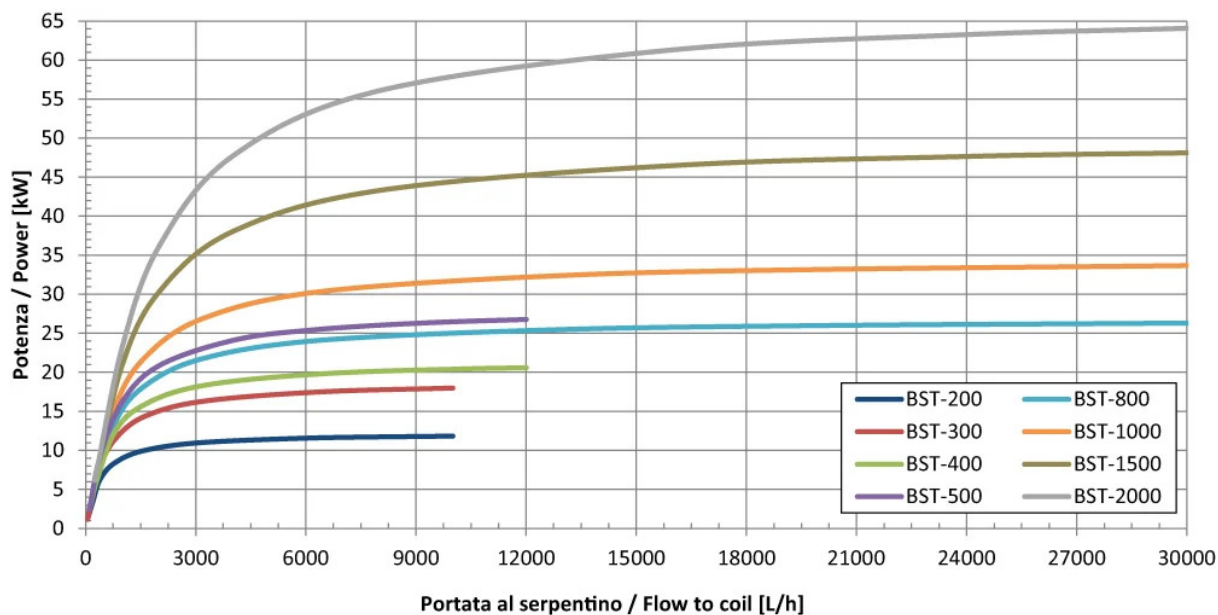
Potenza scambiata, scamb. solare / Exch. power, solar coil

$$T_{in,coil} = 70\text{ }^{\circ}\text{C}; T_{serb,in} = 10\text{ }^{\circ}\text{C}, T_{serb,out} = 45\text{ }^{\circ}\text{C}$$



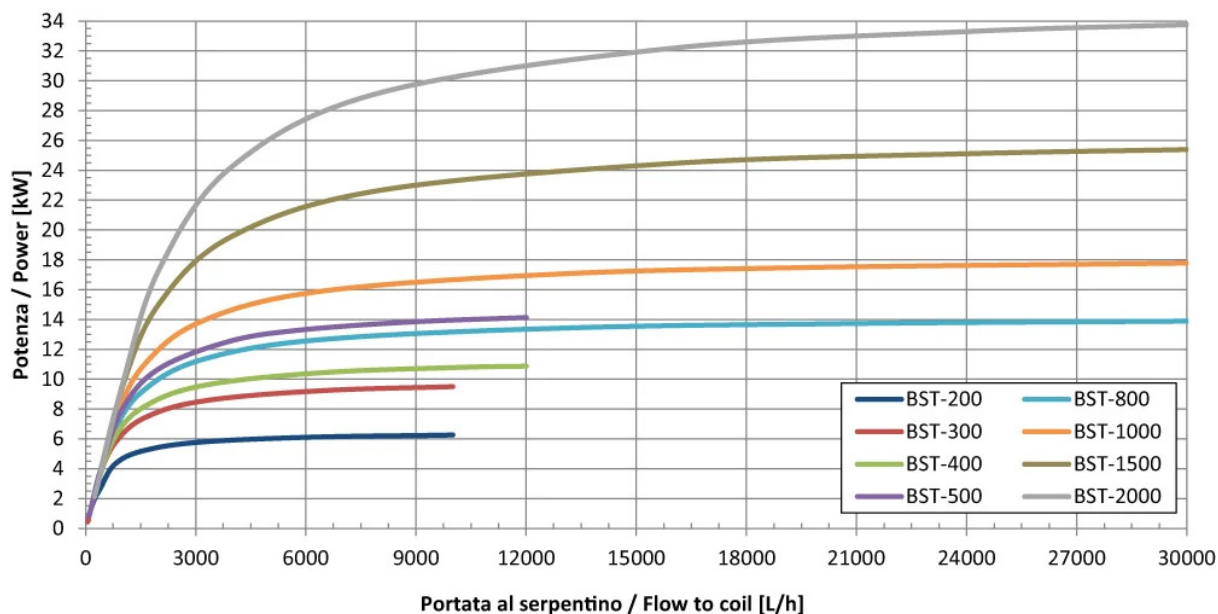
Potenza scambiata, scamb. solare / Exch. power, solar coil

$T_{in,coil} = 60\text{ }^{\circ}\text{C}$; $T_{serb,in} = 10\text{ }^{\circ}\text{C}$, $T_{serb,out} = 45\text{ }^{\circ}\text{C}$



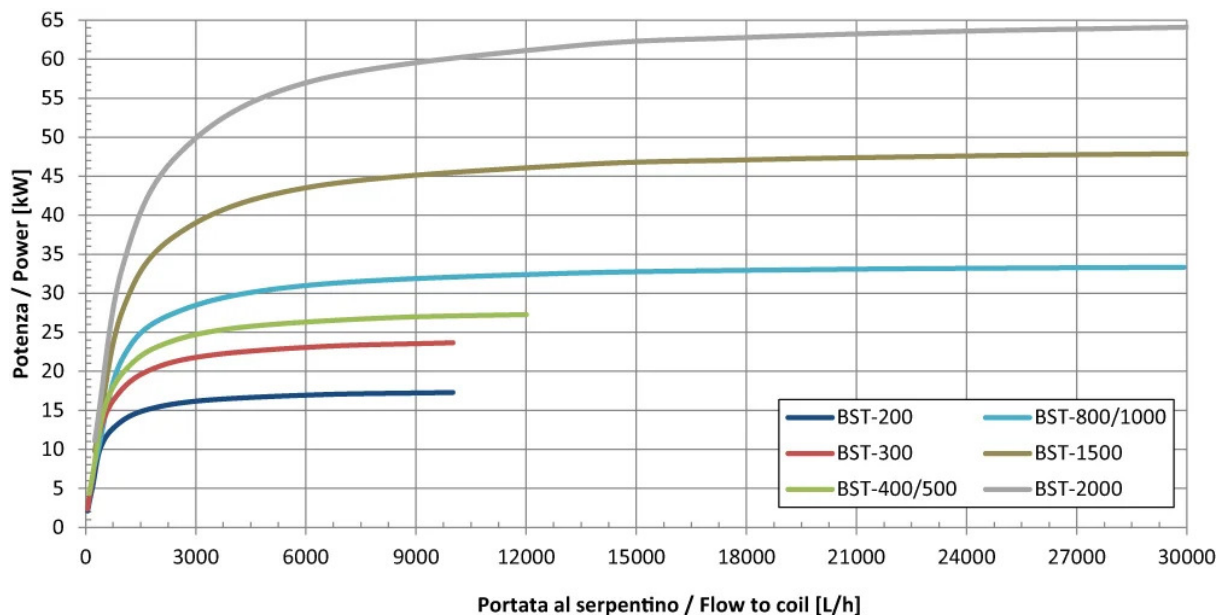
Potenza scambiata, scamb. solare / Exch. power, solar coil

$T_{in,coil} = 50\text{ }^{\circ}\text{C}$; $T_{serb,in} = 10\text{ }^{\circ}\text{C}$, $T_{serb,out} = 45\text{ }^{\circ}\text{C}$



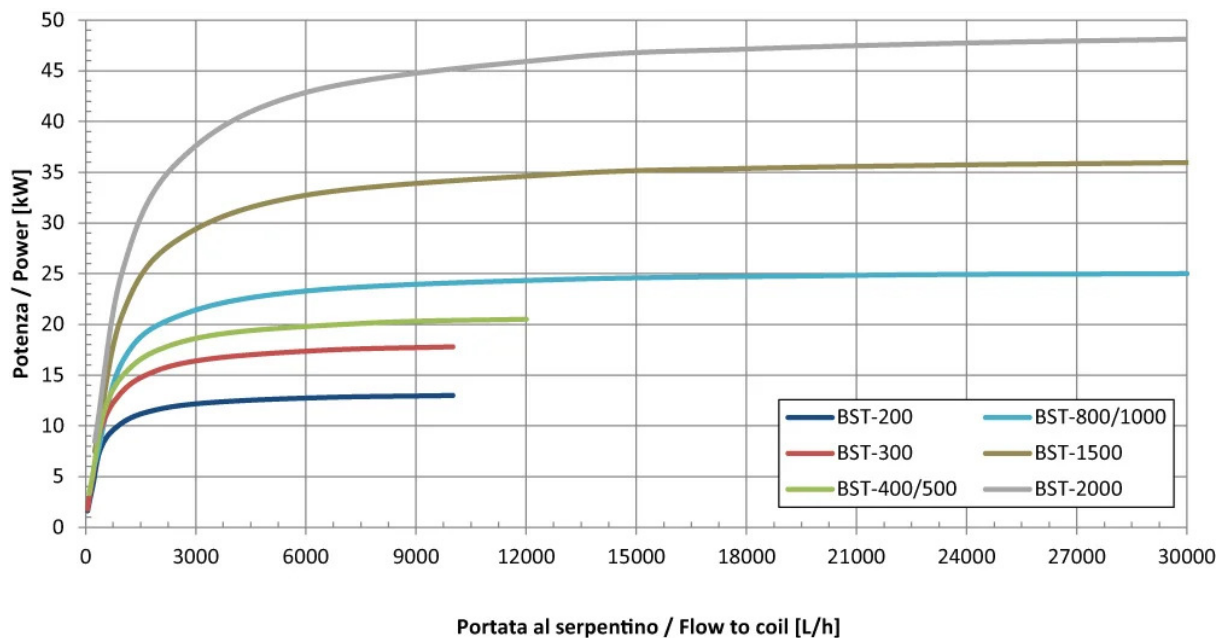
Potenza scambiata, scamb. solare / Exch. power, solar coil

$T_{in,coil} = 80\text{ }^{\circ}\text{C}$; $T_{serb,in} = 10\text{ }^{\circ}\text{C}$, $T_{serb,out} = 45\text{ }^{\circ}\text{C}$



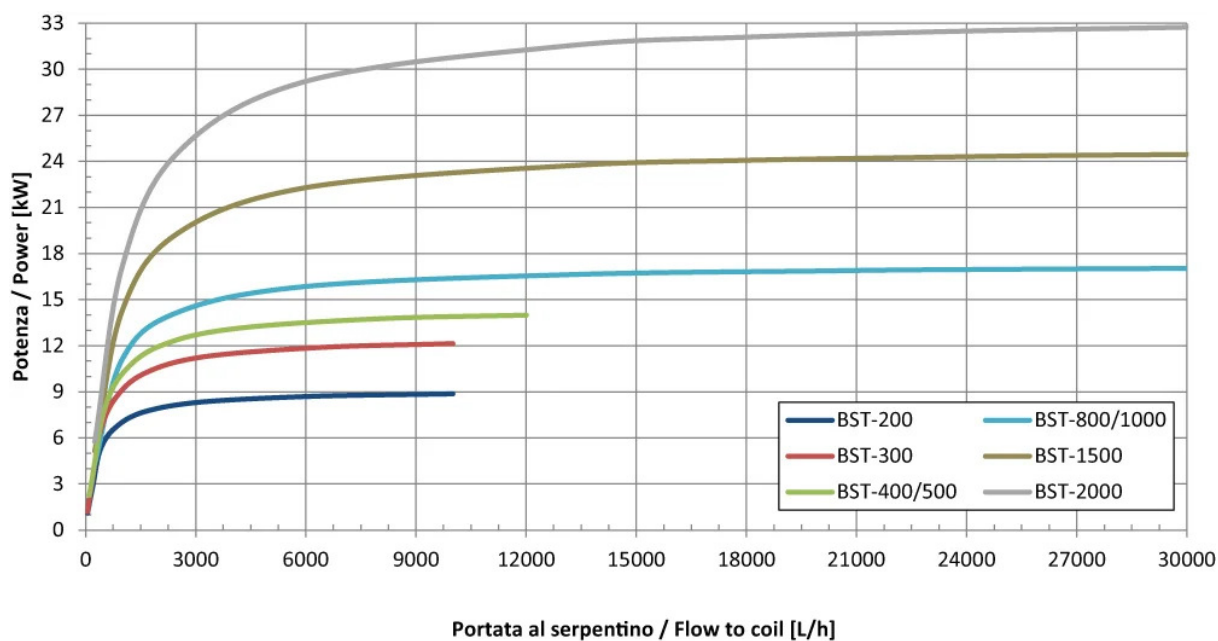
Potenza scambiata, scamb. solare / Exch. power, solar coil

$T_{in,coil} = 70\text{ }^{\circ}\text{C}$; $T_{serb,in} = 10\text{ }^{\circ}\text{C}$, $T_{serb,out} = 45\text{ }^{\circ}\text{C}$



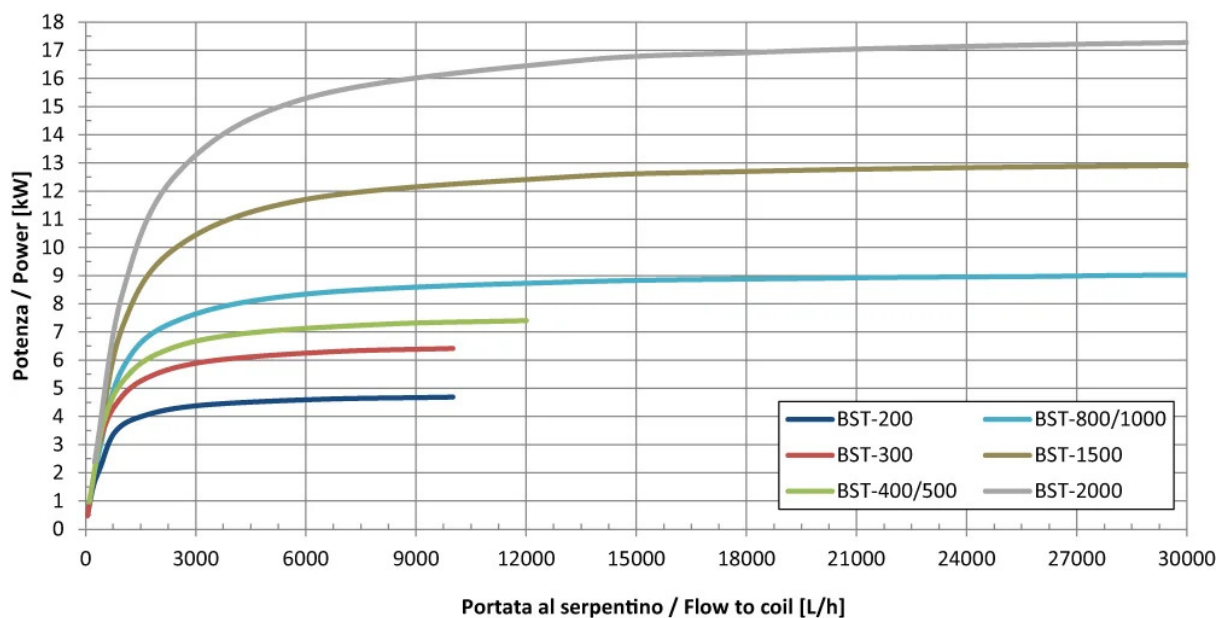
Potenza scambiata, scamb. solare / Exch. power, solar coil

$T_{in,coil} = 60\text{ }^{\circ}\text{C}$; $T_{serb,in} = 10\text{ }^{\circ}\text{C}$, $T_{serb,out} = 45\text{ }^{\circ}\text{C}$

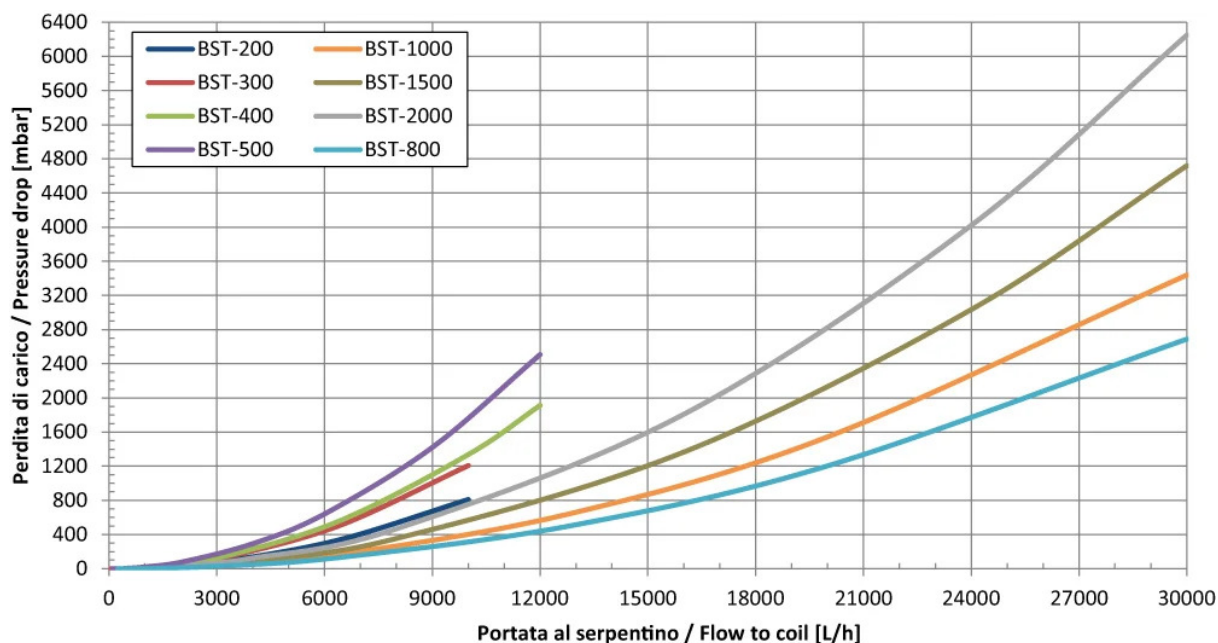


Potenza scambiata, scamb. solare / Exch. power, solar coil

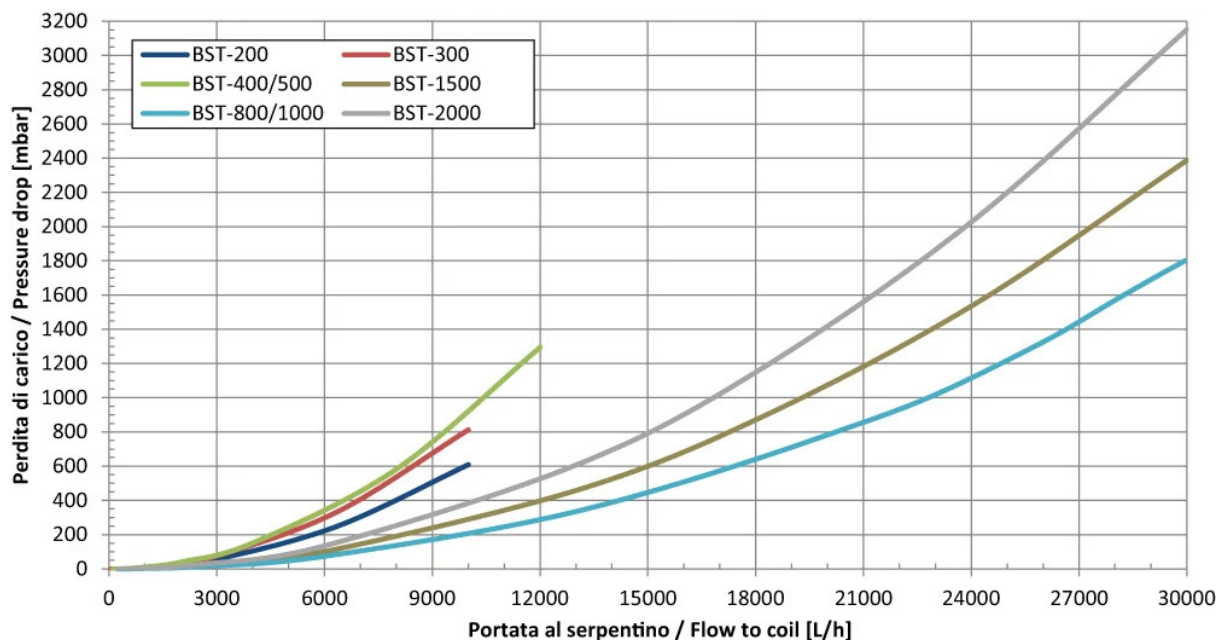
$T_{in,coil} = 50\text{ }^{\circ}\text{C}$; $T_{serb,in} = 10\text{ }^{\circ}\text{C}$, $T_{serb,out} = 45\text{ }^{\circ}\text{C}$



Perdite di carico sul serp. solare / Solar coil press. drop

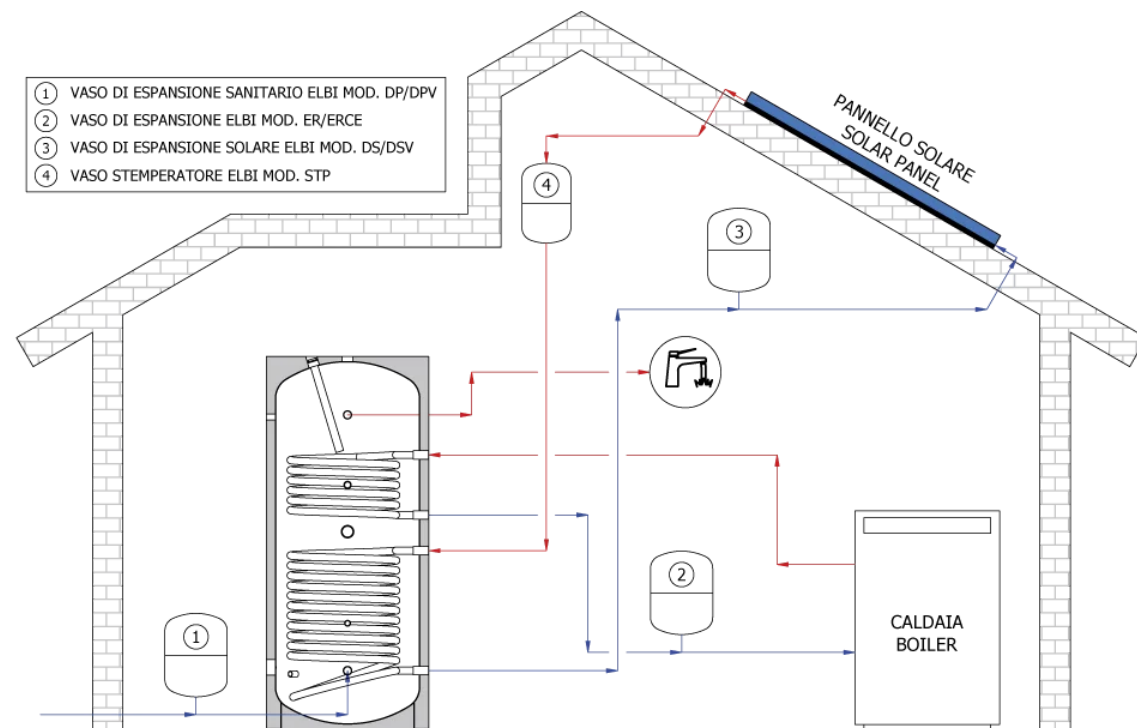


Perdite di carico sul serp. integr. / Integr. coil press. drop



Example of installation

BST



Illustrative diagram; always refer to a qualified technician for the realization of the systems.

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