



BSPT

GLASSLINED DHW CYLINDERS WITH TWO FIXED EXCHANGERS FOR HEAT PUMPS

271 - 862 litres

INTERNAL GLASSLINING:

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

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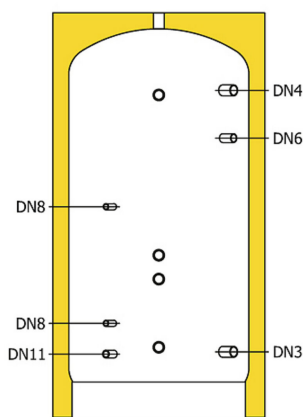
Installations

Heat pumps.
Hybrid systems.
Systems with heat pump and solar integration.

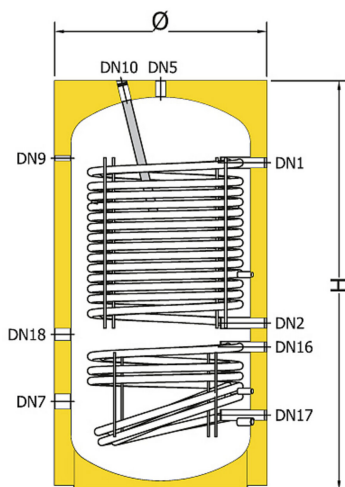
CHARACTERISTICS

MAX TEMPERATURE	95 °C	MAX PRESSURE	10 bar
EXCHANGER MAX TEMPERATURE	110 °C	EXCHANGER MAX PRESSURE	12 bar

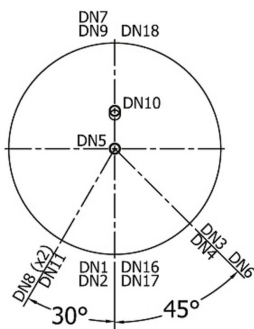
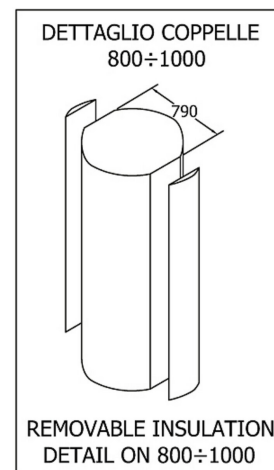
BSPT 300-1000



BSPT 300-1000



BSPT 800 - 1000 CUPS



Keyword

DN	Description
DN1	Inlet from heat pump
DN2	Return to heat pump
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
DN16	Inlet from integration
DN17	Return to integration
DN18	Auxiliary connection

Model	Code	Energy label	St. loss W	Capacity L	EXCHANGER				H mm	Ø skirt mm	Ø mm	Pm mm
					LOW.		UPP.					
					m²	l	m²	l				
BSPT-300	A3T2L51 PGP75	B	65	261	0.9	7	2.2	14	1670	460	650	1800
BSPT-500	A3T2L55 PGP55	C	89	453	1.1	9	4	32	1735	600	760	1900
BSPT-800	A3T2L60 PGP75	C	127	690	1.9	15	5.3	42	1815	760	940	2050
BSPT-1000	A3T2L62 PGP75	C	132	799	3	24	5.7	45	2065	760	940	2270

Pm: pivot measurement

Connection heights (mm)

MODEL	DN1	DN2	DN3	DN4	DN5	DN6	DN7	DN8	DN8	DN9	DN10	DN11	DN16	DN17	DN18
BSPT-300	1345	685	235	1385	-	1095	315	355	875	1385	-	220	565	275	620
BSPT-500	1420	640	280	1430	-	1210	350	390	935	1430	-	265	540	290	590
BSPT-800	1440	735	310	1460	-	1250	390	435	945	1460	-	300	630	330	685
BSPT-1000	1680	930	310	1710	-	1430	400	445	1095	1710	-	300	775	340	855

Connection sizes

MODEL	DN1	DN2	DN3	DN4	DN5	DN6	DN7	DN8	DN9	DN10	DN11	DN16	DN17	DN18
BSPT-300	G1"	G1"	G1"	G1"	G1"1/4	G3/4"	G2"	G1/2"	G1/2"	G1"1/4	G1/2"	G1"	G1"	G1"1/2
BSPT-500	G1"1/4	G1"1/4	G1"	G1"	G1"1/4	G3/4"	G2"	G1/2"	G1/2"	G1"1/4	G1/2"	G1"1/4	G1"1/4	G1"1/2
BSPT-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"1/4	G1"1/4	G1"1/2
BSPT-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"1/4	G1"1/4	G1"1/2

Protective devices

Model	Magnesium anode code	Nr. installed magnesium anode	Diam.Ø	Conn.	Length	Reccomended sanitary expansion tank(*)
BSPT-300	8560060 00002	1	32	G1.1/4"	520	DP-18
BSPT-500	8560080 00002	1	32	G1.1/4"	700	DP-24
BSPT-800	8560080 00002	1	32	G1.1/4"	700	DP-35
BSPT-1000	8560080 00002	1	32	G1.1/4"	700	DPV-50

(*) 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
BSPT-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
BSPT-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
BSPT-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
BSPT-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

Reference standards

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

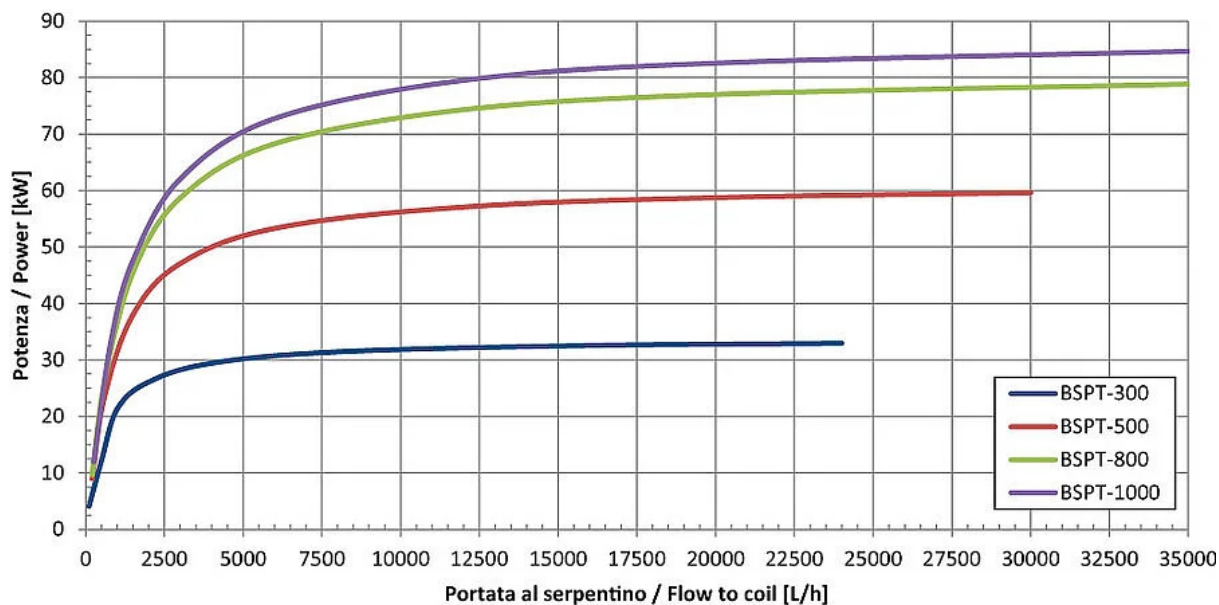
Immersion heaters

Code	Power	Source	Connection	Length	Applicable to			
					300	500	800	1000
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	237	✓	✓	✓
8603300	3.3	220	G1.1/4"	825	✗	✗	✗	✗
8603301	3.3	220	G1.1/4"	435	✗	324	✓	✓
8604001	4	220	G1.1/4"	510	✗	267	✓	✓
8705000	5	400	G1.1/2"	445	✗	214	✓	✓
8706000	6	400	G1.1/2"	510	✗	178	✓	314
8708000	8	400	G1.1/2"	670	✗	✗	✗	✗
8710000	10	400	G1.1/2"	820	✗	✗	✗	✗
8712000	12	400	G1.1/2"	970	✗	✗	✗	✗
IMMERSION HEATERS WITH THERMOSTAT								
8T01500	1.5	230	G1.1/2"	320	✓	✓	✓	✓
8T02000	2	230	G1.1/2"	320	308	✓	✓	✓
8T02200	2.2	230	G1.1/2"	320	280	✓	✓	✓
8T02500	2.5	230	G1.1/2"	320	247	✓	✓	✓
8T03000	3	230	G1.1/2"	320	205	357	✓	✓
8T04000	4	400	G1.1/2"	400	✗	267	✓	✓
8T05000	5	400	G1.1/2"	500	✗	214	✓	✓
8T06000	6	400	G1.1/2"	600	✗	✗	✓	314
8T09000	9	400	G1.1/2"	700	✗	✗	✗	✗
8T12000	12	400	G1.1/2"	850	✗	✗	✗	✗

Typical performances

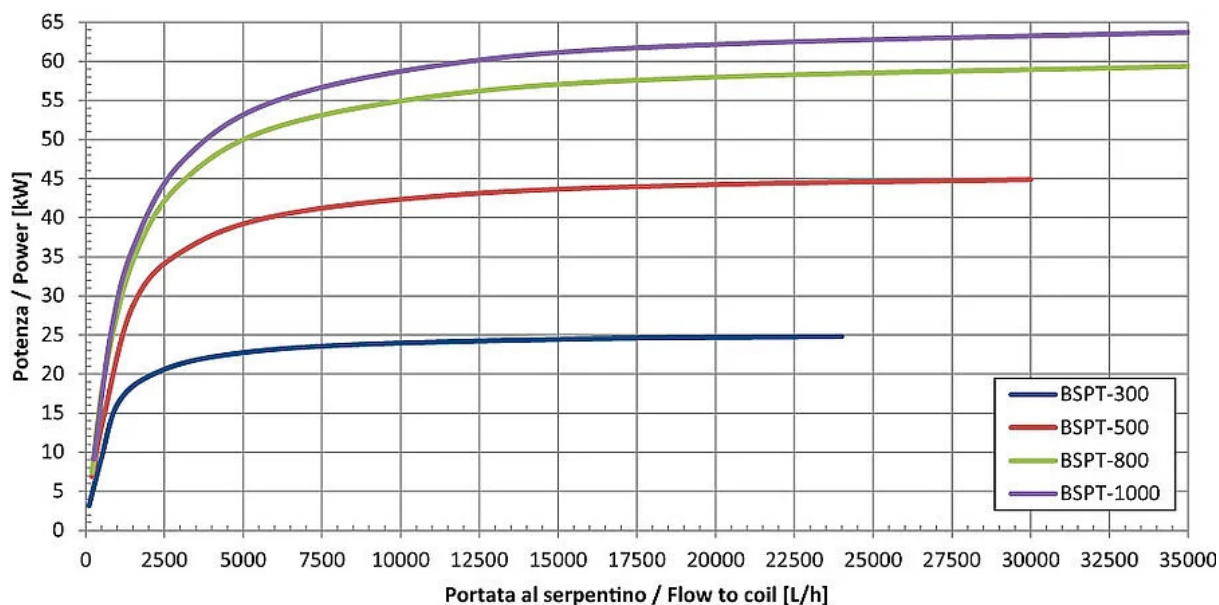
Exch. power, heat p. coil

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



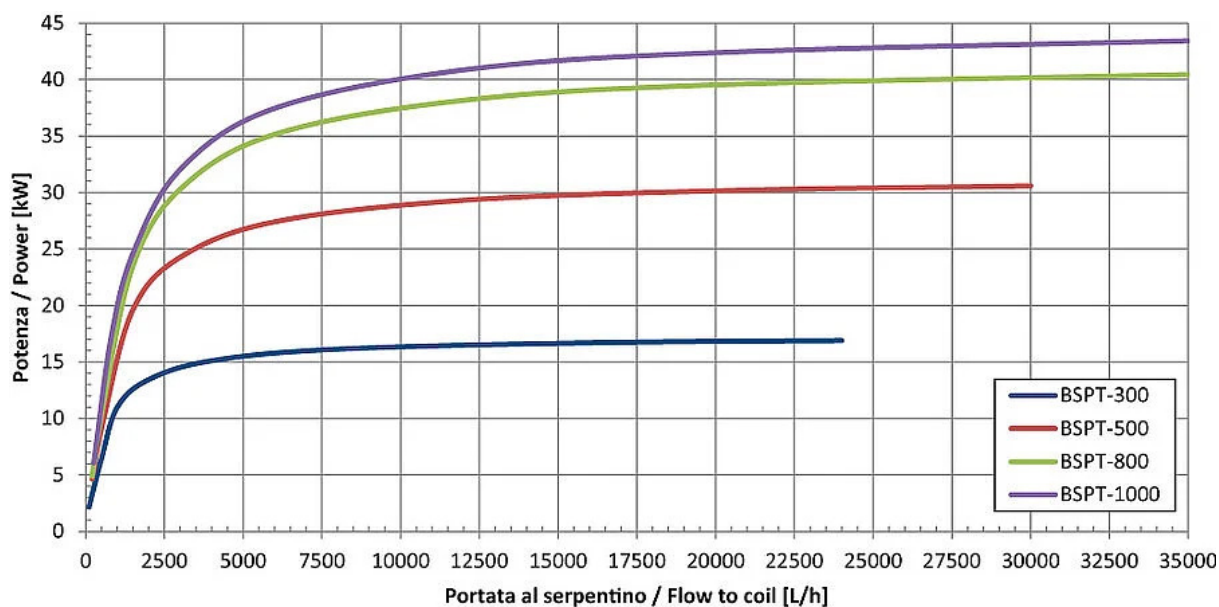
Exch. power, heat p. coil

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



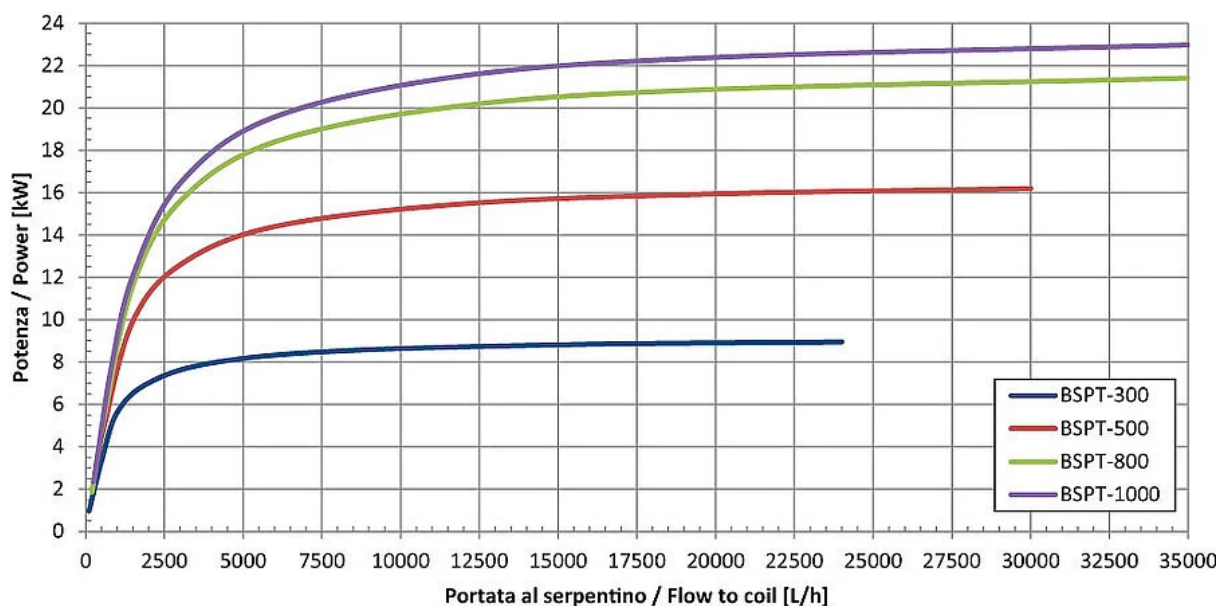
Exch. power, heat p. coil

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



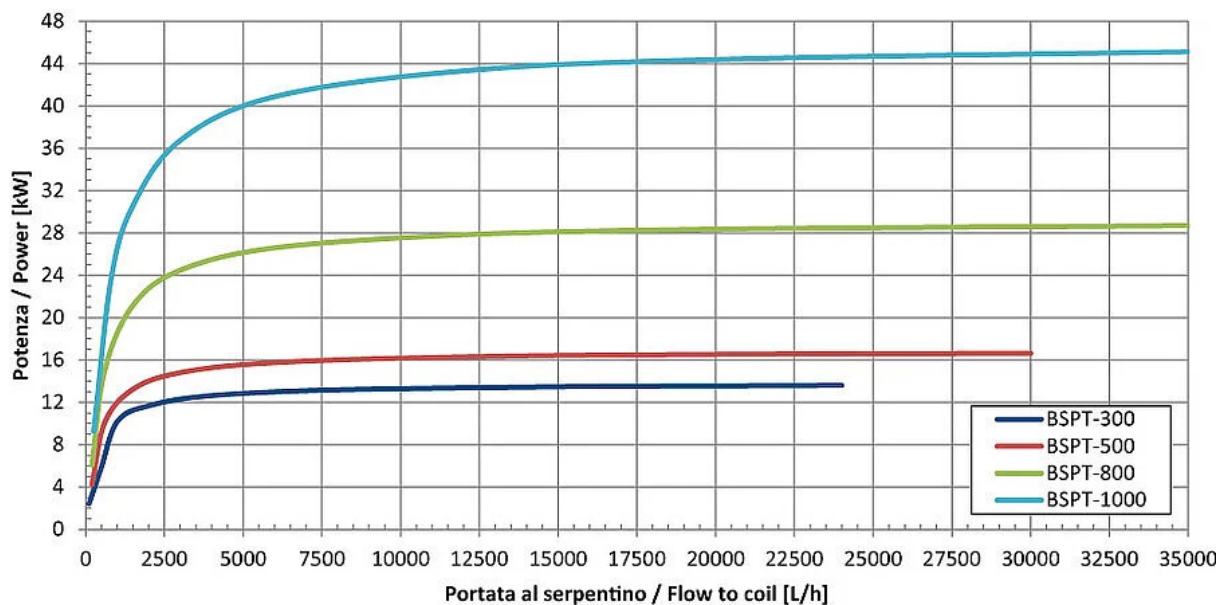
Exch. power, heat p. coil

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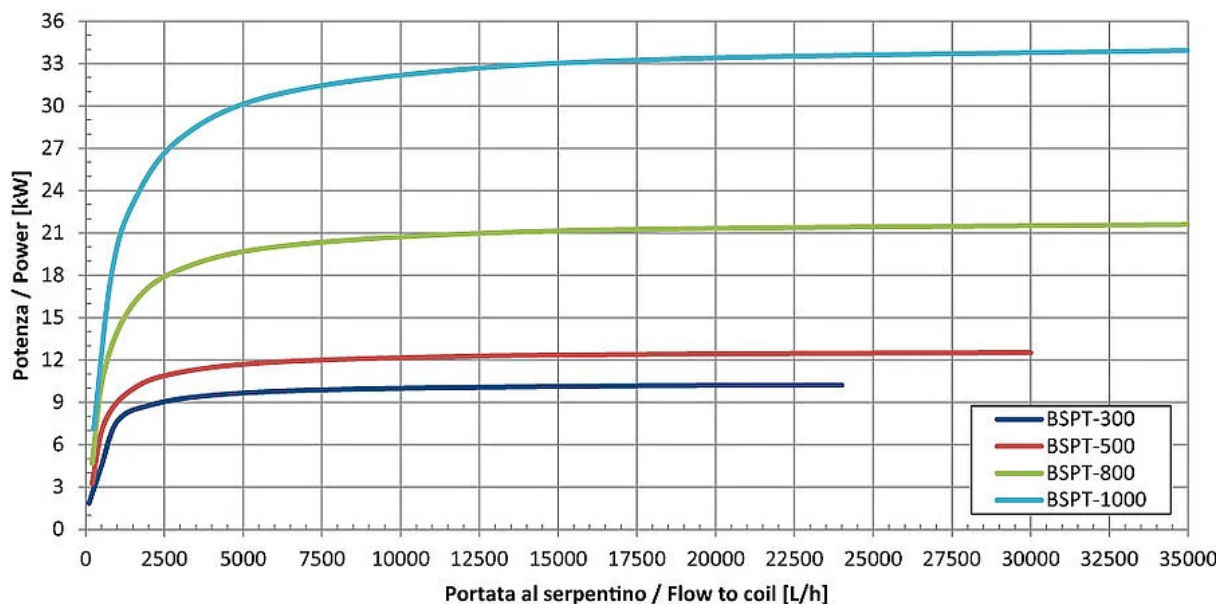
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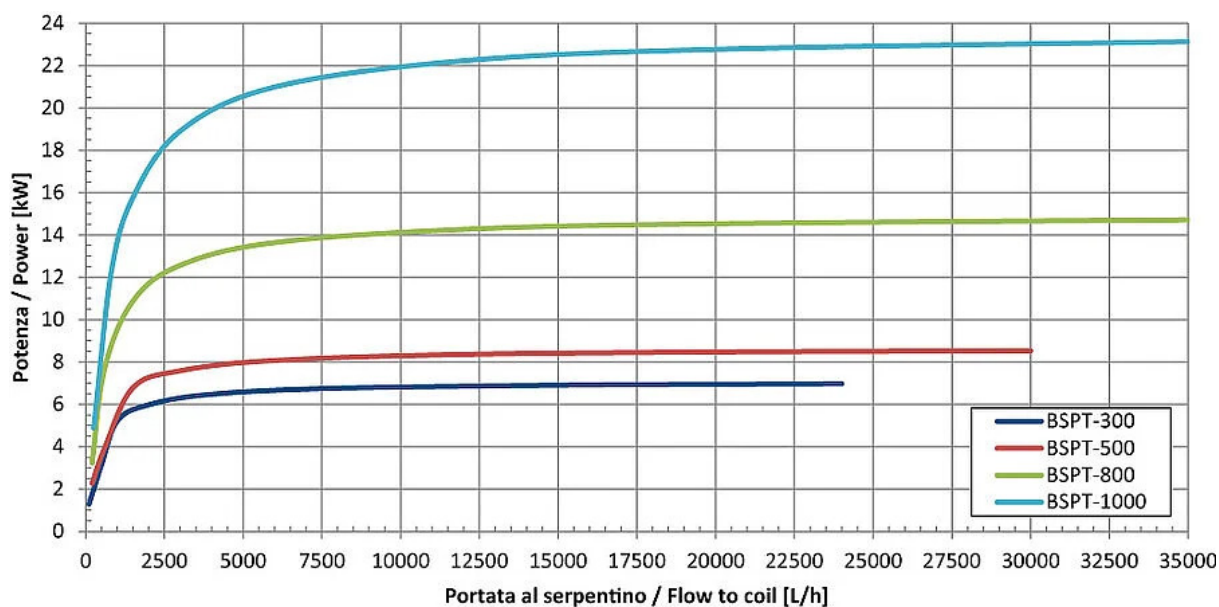
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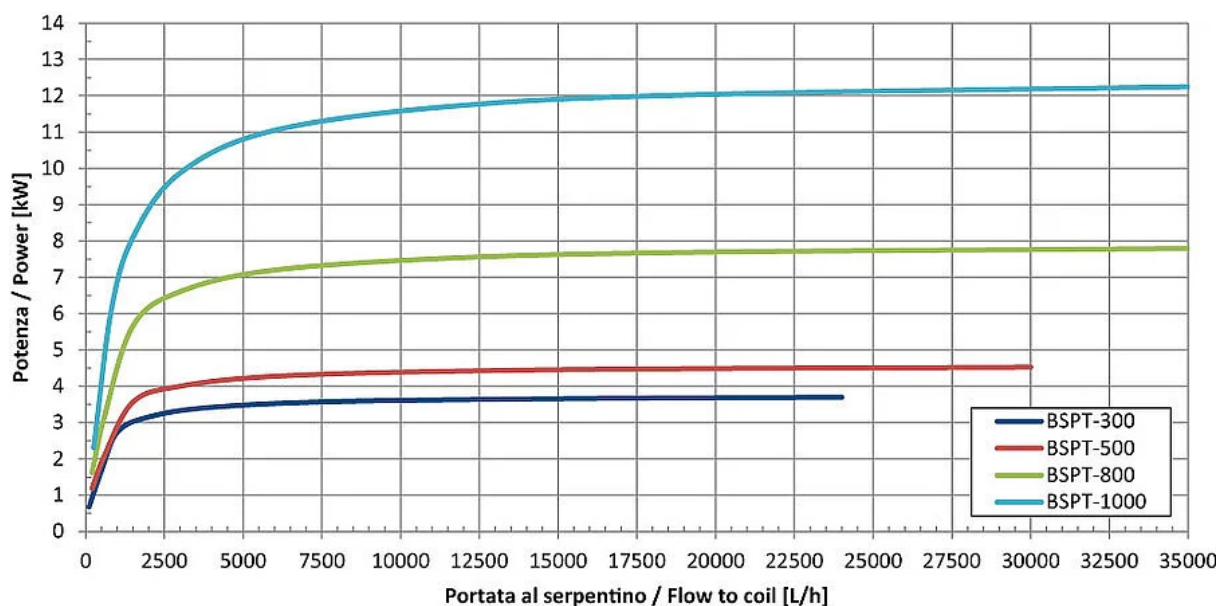
Exch. power, heat p. coil

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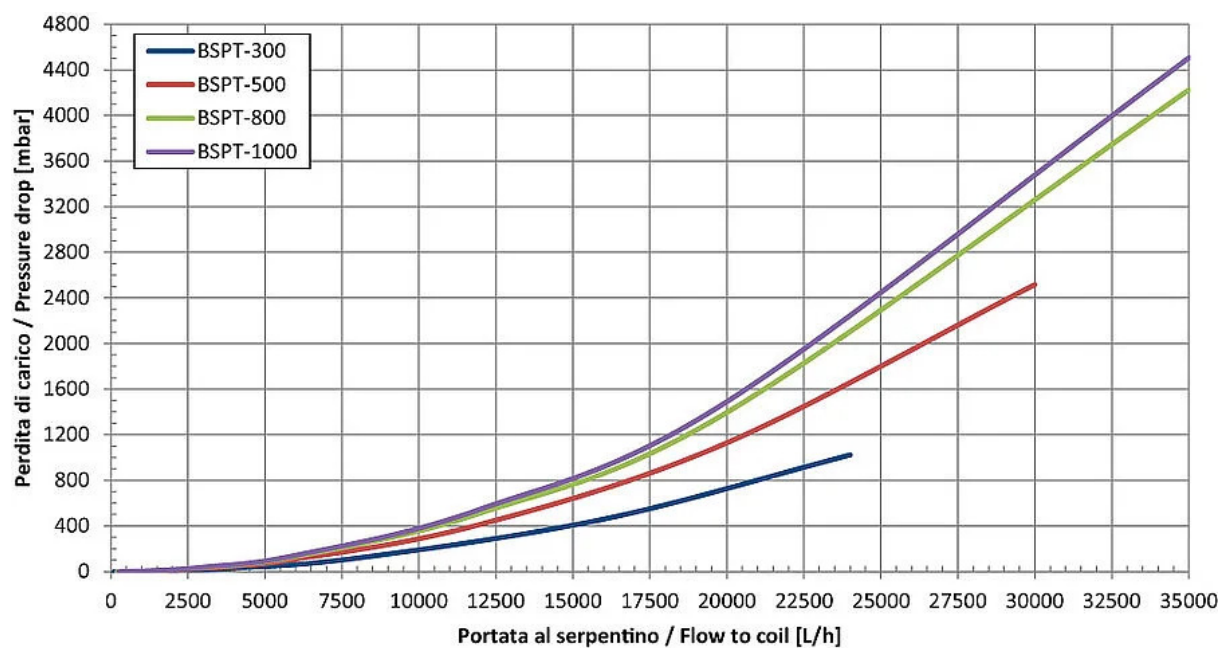


Exch. power, heat p. coil

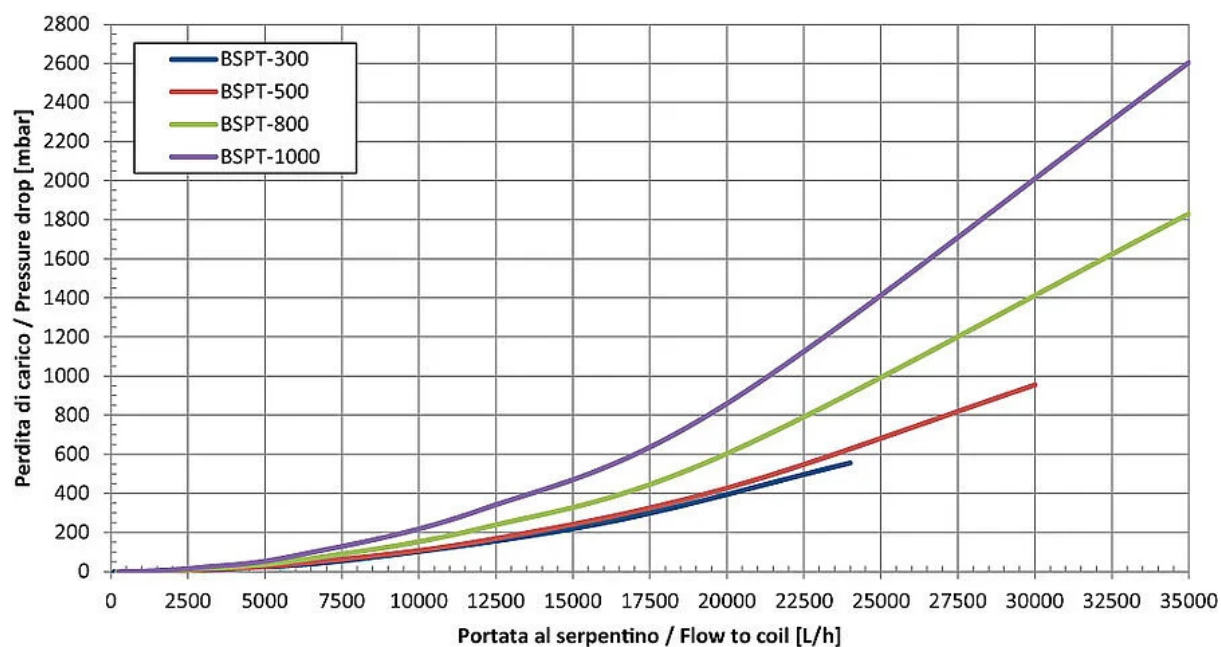
$T_{in,coil} = 50\text{ }^{\circ}\text{C}$; $T_{serb,in} = 10\text{ }^{\circ}\text{C}$, $T_{serb,out} = 45\text{ }^{\circ}\text{C}$



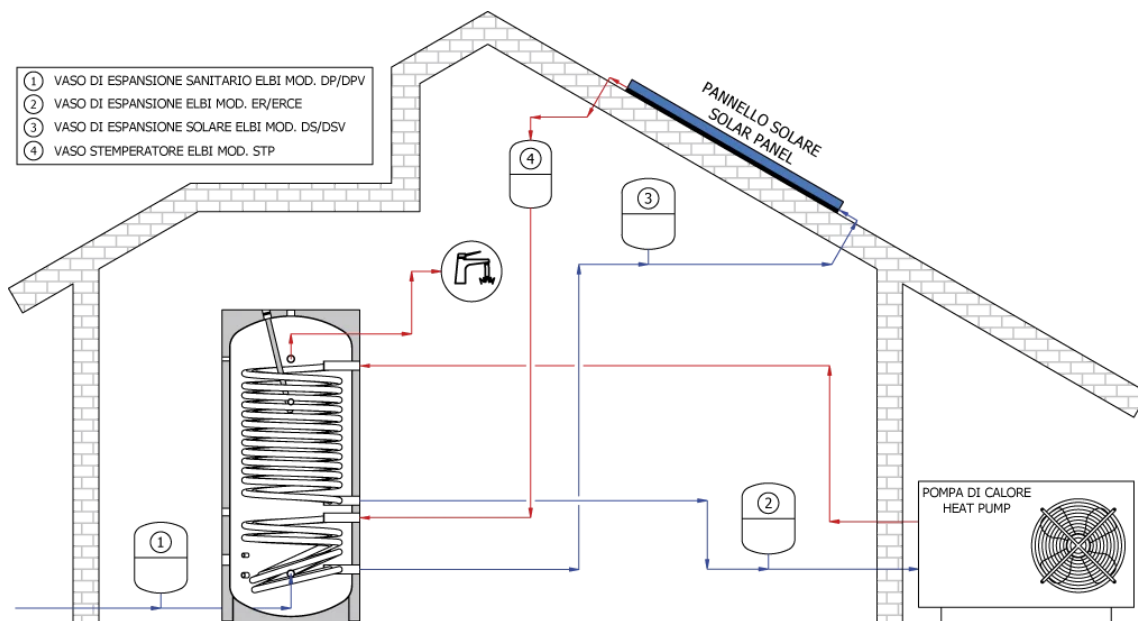
Heat pump coil press.drop



Integr. coil press. drop BSPT-



Example of installation



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

Rev. date 01/03/2024