



I-BOLL

SANITARY GLASSLINED BUFFER TANK WITH SINGLE EXCHANGER FOR PRODUCTION AND STORAGE OF DOMESTIC HOT WATER

269 - 460 litres

INTERNAL GLASSLINING:

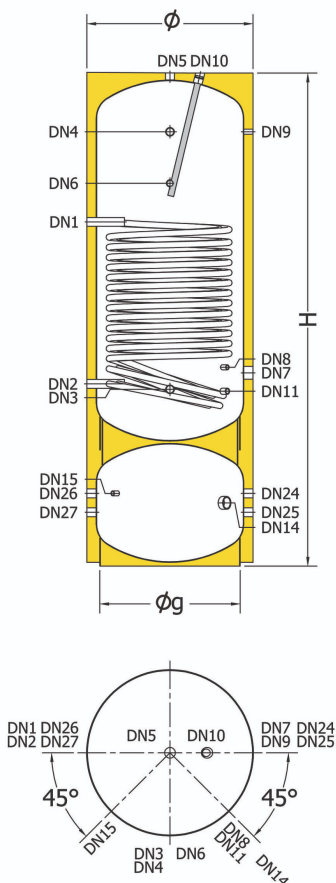
The glasslining treatment according to DIN 4753 makes the cylinder suitable to contain hot water for sanitary use and resistant to corrosive phenomena.

Installations

Heat pumps.

MAX TEMPERATURE	95 °C	MAX PRESSURE (buffer)	10 bar
EXCHANGER MAX TEMPERATURE	110 °C	INERTIAL MAX PRESSURE (inertial)	3 bar
		EXCHANGER MAX PRESSURE	12 bar

I-BOLL 300 - 500



Keyword

DN	Description
DN1	Flow to heat exchanger
DN2	Flow from heat exchanger
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
DN14	Predisposition for immersion heater
DN15	Probe
DN24	To heating system
DN25	From heating system
DN26	From heat pump
DN27	To heat pump

Model	Code	Energy label	St. loss W	Cap. L	DHW cap. L	Inert. cap. L	T _{MAX}	EXCHANGER		H mm	Øg mm	Ø mm	Pm mm
								m ²	l				
I-BOLL 300	A3K0L51 PGP40	C	91	370	269	101	95°C	3.4	20	1970	510	650	2075
I-BOLL 500	A3K0L55 PGP40	C	108	621	460	161	95°C	5.5	33	2280	600	750	2405

Pm: pivot measurement

Connection heights (mm)

MODEL	DN1	DN2	DN3	DN4	DN5	DN6	DN7	DN8	DN9	DN10	DN11	DN14	DN15	DN24	DN25	DN26	DN27
I-BOLL 300	1650	825	795	1695	-	1530	885	915	1695	-	780	265	345	345	235	345	235
I-BOLL 500	1915	870	840	1990	-	1770	930	960	1990	-	825	270	380	380	230	380	230

Connection sizes

MODEL	DN1	DN2	DN3	DN4	DN5	DN6	DN7	DN8	DN9	DN10	DN11	DN14	DN15	DN24	DN25	DN26	DN27
I-BOLL 300	G1.1/4"	G1.1/4"	G1"	G1"	G1.1/4"	G3/4"	G2"	G1/2"	G1/2"	G1.1/4"	G1/2"	G1.1/2"	G1/2"	G1"	G1"	G1"	G1"
I-BOLL 500	G1.1/4"	G1.1/4"	G1"	G1"	G1.1/4"	G3/4"	G2"	G1/2"	G1/2"	G1.1/4"	G1/2"	G1.1/2"	G1/2"	G1"	G1"	G1"	G1"

Protective devices

Model	Magnesium anode code	Nr. installed magnesium anode	Diam.Ø	Conn.	Length	Recommened sanitary expansion tank(*)
I-BOLL 300	8560060 00002	1	32	G1.1/4"	520	DP-18
I-BOLL 500	8560080 00002	1	32	G1.1/4"	700	DP-24

(*) 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
I-BOLL 300	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	50	Grey PVC RAL 9006
I-BOLL 500	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	50	Grey PVC RAL 9006

Reference standards

Directive 2014/68/EU – ART. 4.3, with exemption from CE markings.

EN 12897:2020 standard.

Designed and built in accordance with the requirements of 2009/125/EC.

Labeling in accordance with the requirements of the European Regulation 2017/1369.

Warranty: 5 years

Immersion heaters

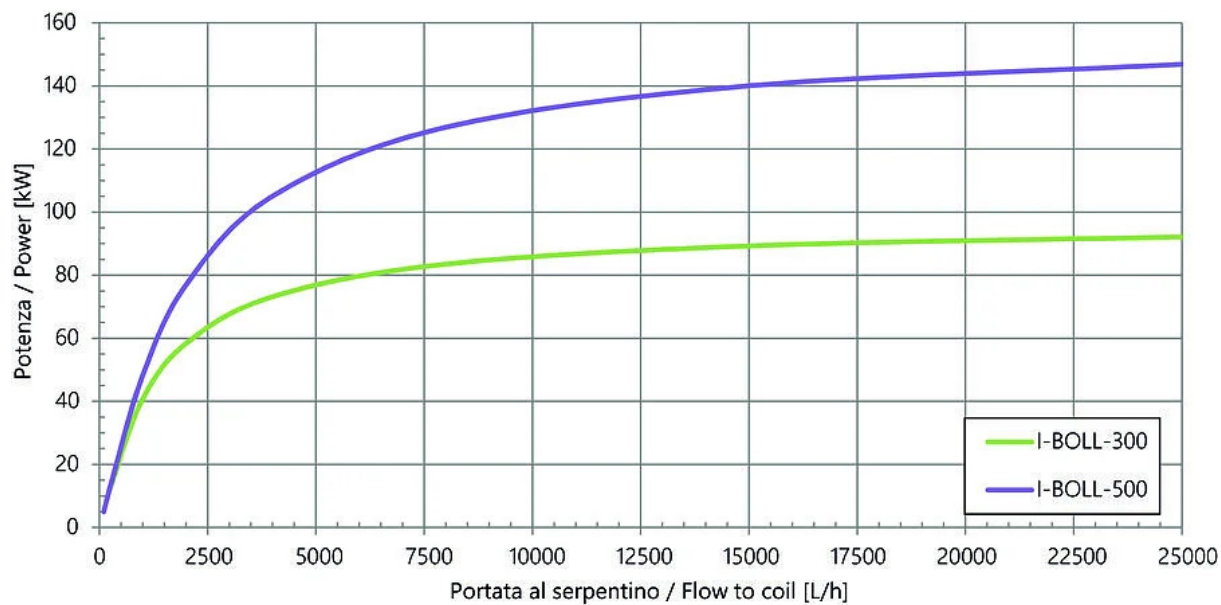
Code	Power Kw	Source V	Connection	Length mm	Applicable to	
					300	500
IMMERSION HEATERS WITHOUT THERMOSTAT						
8601000	1	230	G1.1/4"	295	✓	✓
8601650	1.65	230	G1.1/4"	450	✗	✓
8602000	2	230	G1.1/4"	515	✗	✓
8602600	2.6	230	G1.1/4"	675	✗	✗
8602601	2.6	230	G1.1/4"	360	237	✓
8603300	3.3	230	G1.1/4"	825	✗	✗
8603301	3.3	230	G1.1/4"	435	✗	324
8604001	4	230	G1.1/4"	510	✗	267
8705000	5	400	G1.1/2"	445	✗	214
8706000	6	400	G1.1/2"	510	✗	178
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	154	267
8T05000	5	400	G1.1/2"	500	✗	214
8T06000	6	400	G1.1/2"	600	✗	✗
8T09000	9	400	G1.1/2"	700	✗	✗
8T12000	12	400	G1.1/2"	850	✗	✗

Applicable to both DHW side and heating system side

Typical performances

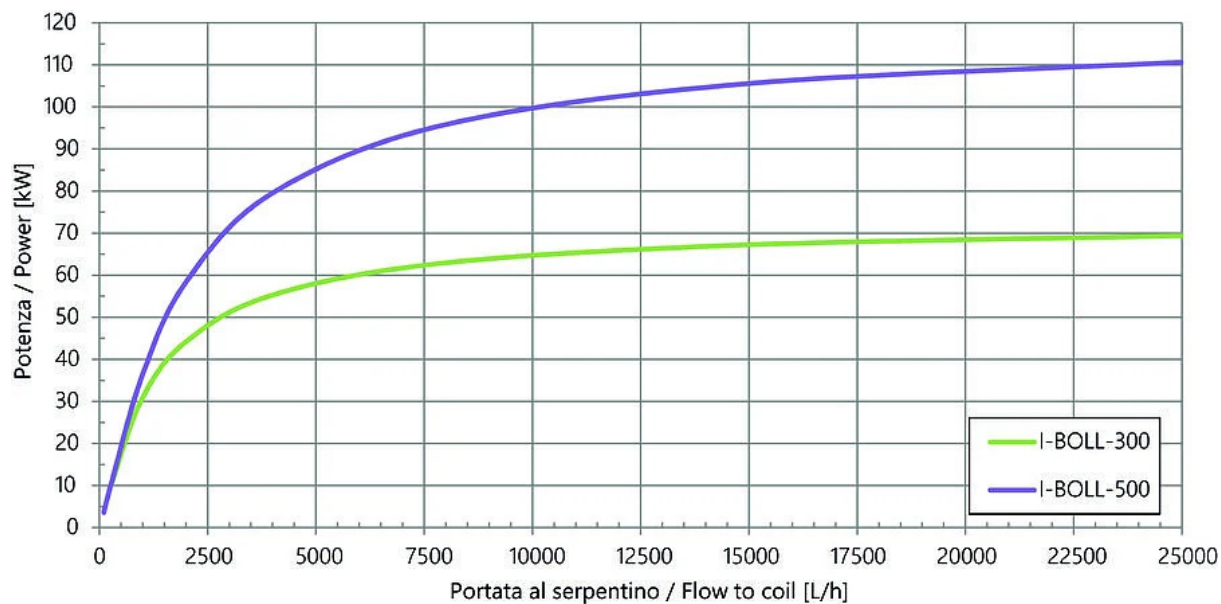
Exch. power

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



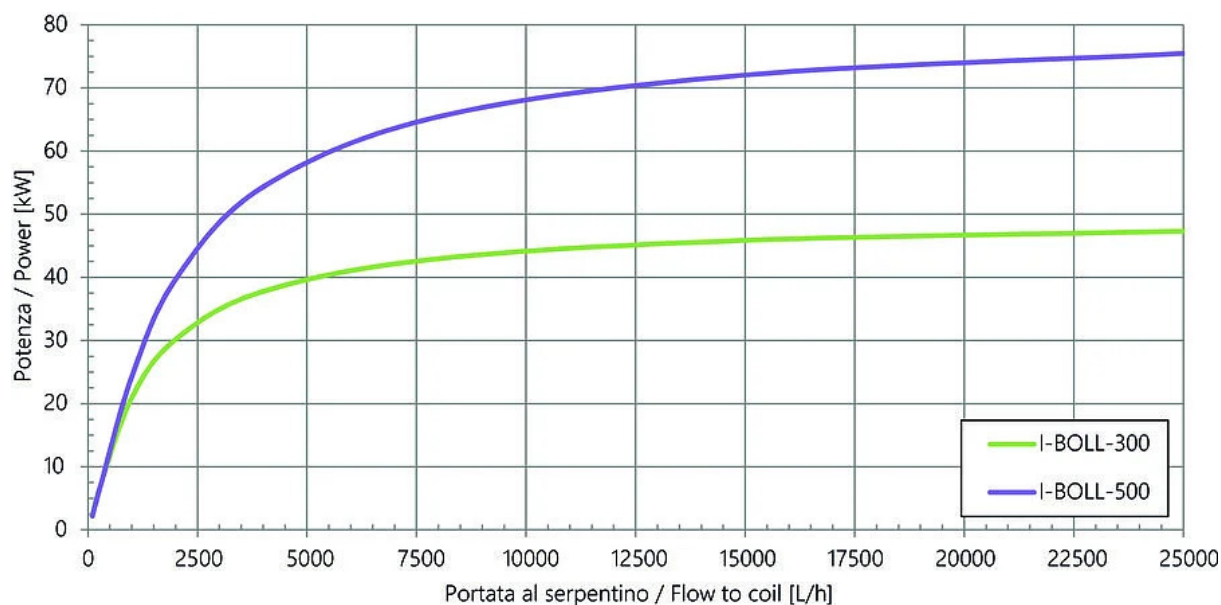
Exch. power

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



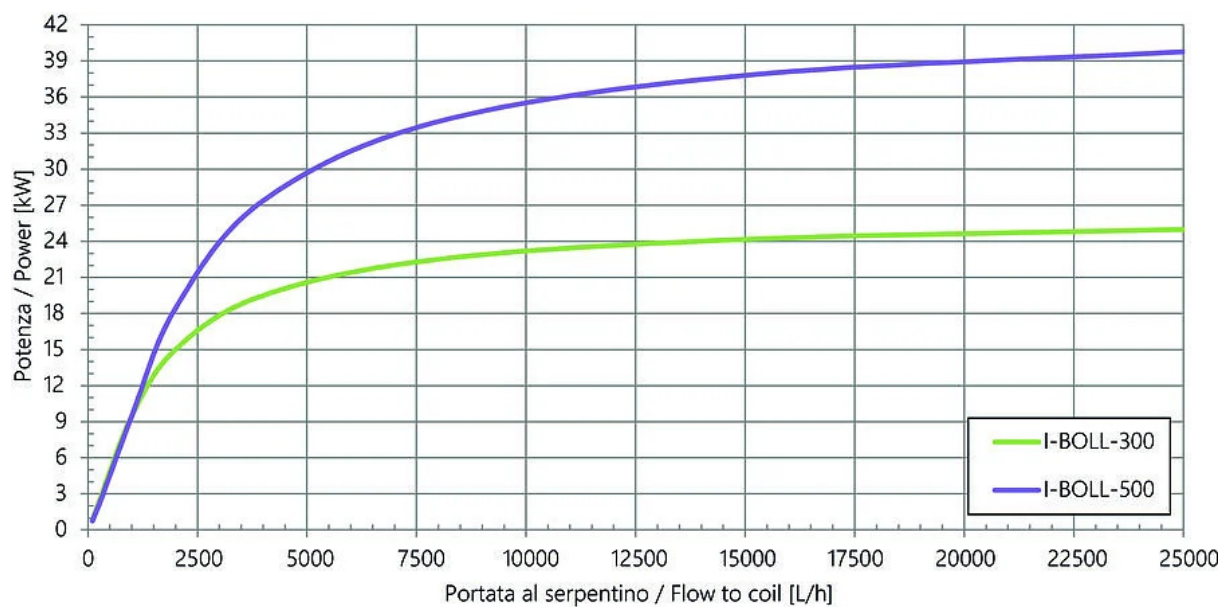
Exch. power

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

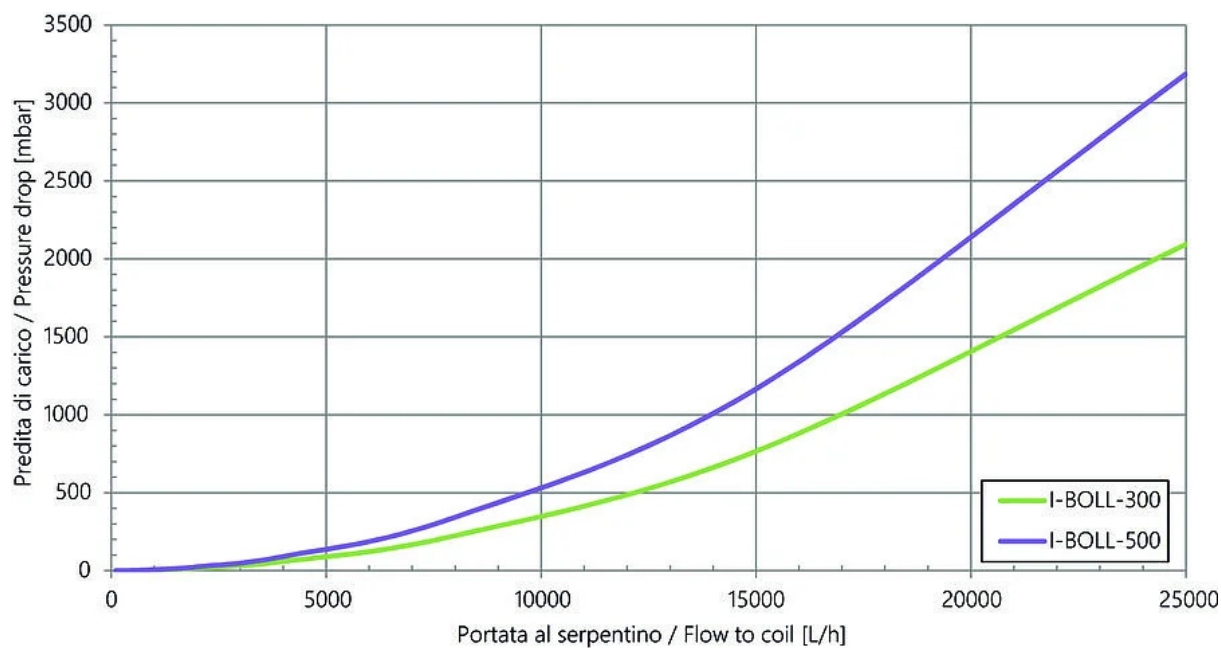


Exch. power

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

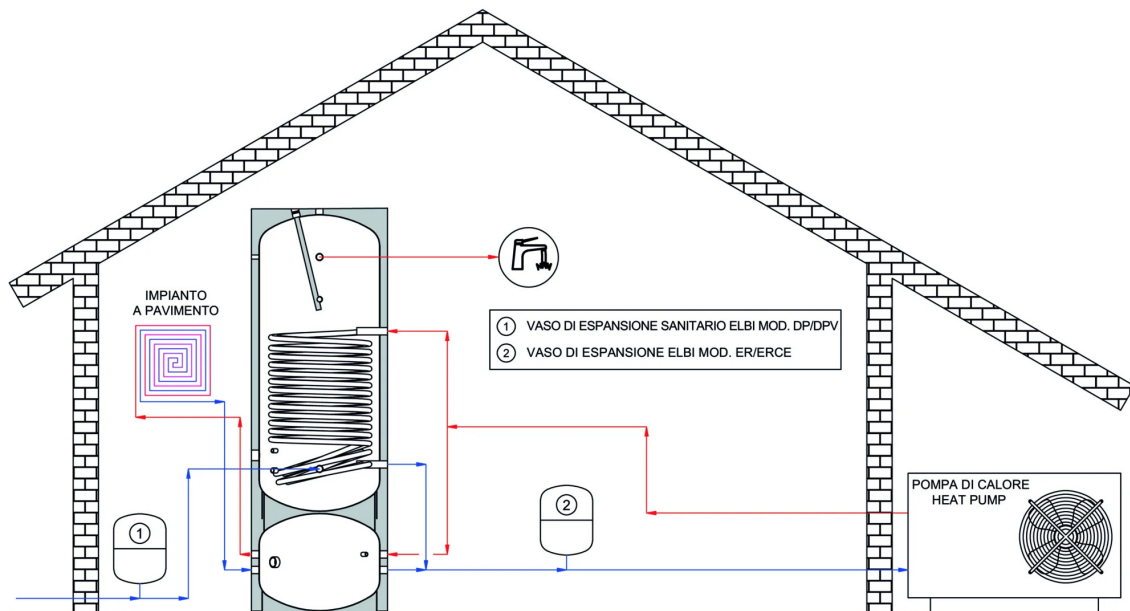


Coil pressure drop



Example of installation

I-BOLL



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