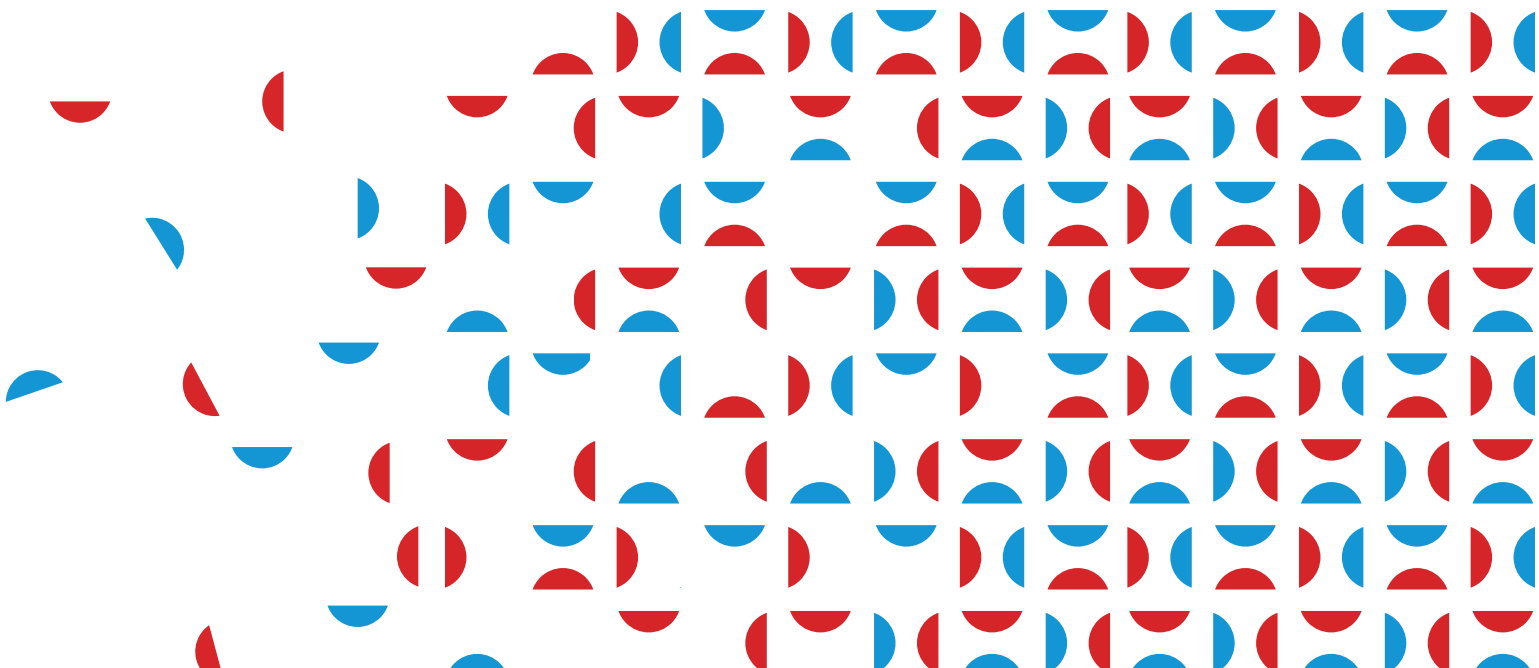


DHW STORAGE TANKS

WATER HEATERS WITH FIXED COIL

BSFV 1



Water heater with fixed heat exchanger - BSFV 1



PRICES

The BSFV 1 range consists of domestic hot water boilers, equipped with a single fixed coil, available in different capacities, from 200 to 3000 litres. They are equipped with different types of insulation according to capacity (see table Insulation), PVC outer jacket, magnesium anode for protection against galvanic currents, inspection flange for easy access during inspection and maintenance.

Material: carbon steel S 235 JR

Internal protective treatment: Tanks with capacities up to 1000 l are treated with food-safe inorganic vitreous enamel according to DIN 4753.3, those with capacities from 1500 to 3000 l are enamelled with Bluetech.



Insulation

Capacity (l)	Type
from 200 to 1000	High-density rigid polyurethane foam
from 1500	Polyester Fibre

Limit of use

Capacity (l)	Tank side		Primary circuit	
	Temp. max.	Pressure max.	Temp. max.	Pressure max.
from 200 to 1000	95°C	10 bar	110°C	12 bar
from 1500 to 3000	80°C	6 bar	110°C	12 bar

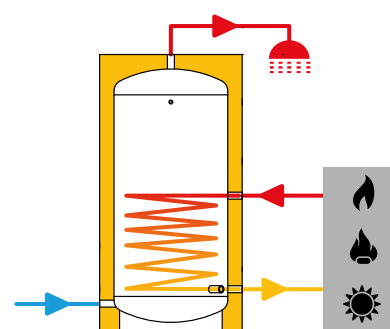
Accessories Included: safety valve and thermometer for sizes up to 1000 l, magnesium sacrificial anode for all sizes.

Standard accessories: see page 163

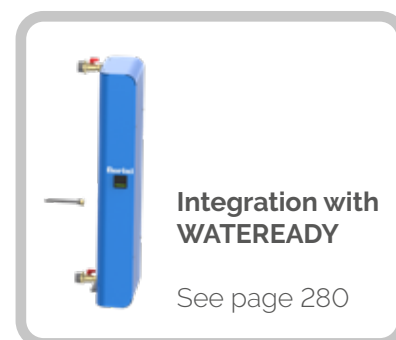
Special executions: see page 165



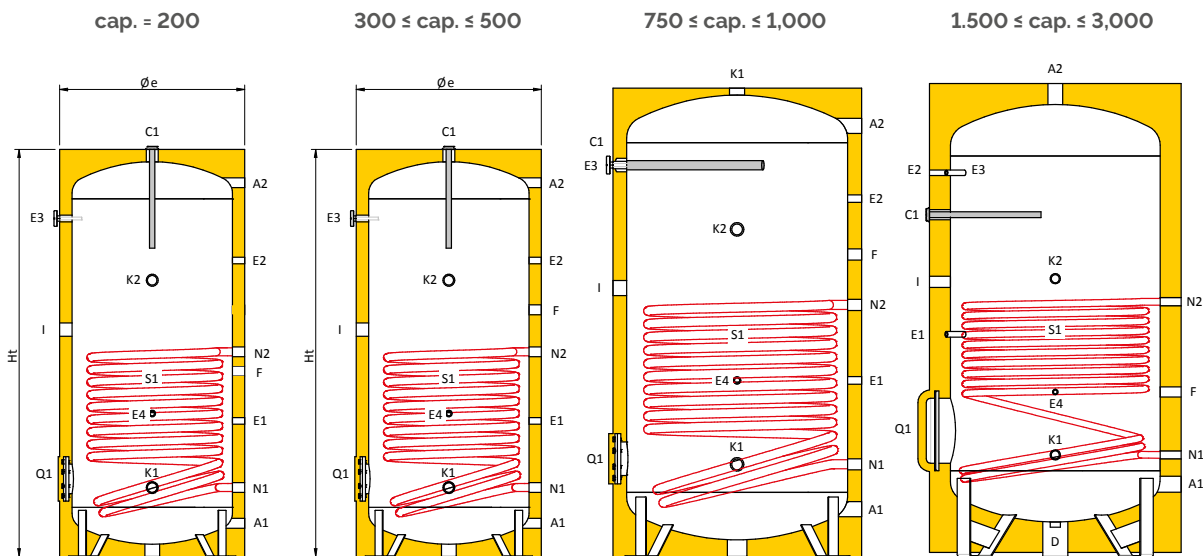
TESTED



Capacity l	Code	Price	Energy class	With vertical packaging	
				Dimensions cm	Weight kg
200	319060318X	1.350,00 €	B	60X60X150	74
300	319060319X	1.570,00 €	B	70X70X150	103
500	319060320X	2.083,00 €	C	80X80X180	143
750	319060321X	3.169,00 €	C	95X95X185	213
1000	319060322X	3.442,00 €	C	110X110X210	251
1500	319080001X	4.847,00 €	C	130X130X240	295
2000	319080002X	5.750,00 €	C	140X140X275	380
3000	319080005X	7.000,00 €		150X150X300	469



Water heater with fixed heat exchanger BSFV 1



Connection legend

A1	Domestic water inlet	F	Recirculation
A2	Domestic water outlet	I	Electrical Resistance
C1	Anode	K1	Auxiliary
D	Drain	K2	Auxiliary
E1	Probe/Thermometer	N1	Exchanger outlet
E2	Probe/Thermometer	N2	Exchanger inlet
E3	Probe/Thermometer	Q1	Inspection port
E4	Probe/Thermometer	S1	Lower Exchanger

Connection table

Cap. l	A1 inches	A2 inches	C1 inches	D inches	E1 inches	E2 inches	E3 inches	E4 inches	F inches	I inches	K1 inches	K2 inches	N1 inches	N2 inches	Q (Øext/Øint) mm
200	1"	1"	1 1/4	-	1/2"	1/2"	1/2"	1/2"	1"	1 1/2	1 1/4	1 1/4	1"	1"	Ø180/Ø120
300	1"	1"	1 1/4	-	1/2"	1/2"	1/2"	1/2"	1"	1 1/2	1 1/4	1 1/4	1"	1"	Ø180/Ø120
500	1"	1"	1 1/4	-	1/2"	1/2"	1/2"	1/2"	1"	1 1/2	1 1/4	1 1/4	1"	1"	Ø180/Ø120
750	1 1/2	1 1/2	1 1/4	-	1/2"	1/2"	1/2"	1/2"	1"	1 1/2	1 1/4	1 1/4	1"	1"	Ø180/Ø120
1000	1 1/2	1 1/2	1 1/4	-	1/2"	1/2"	1/2"	1/2"	1"	1 1/2	1 1/4	1 1/4	1"	1"	Ø180/Ø120
1500	2"	2"	1 1/4	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1"	1"	Ø380/Ø300
2000	2"	2"	1 1/4	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1"	1"	Ø380/Ø300
3000	3"	3"	1 1/4	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1"	1"	Ø380/Ø300

Size table

Cap. l	Øe mm	Ht mm	R' mm	A1 mm	A2 mm	C1 mm	D mm	E1 mm	E2 mm	E3 mm	E4 mm	F mm	I mm	K1 mm	K2 mm	N1 mm	N2 mm	Q1** mm
200	560	1325	1440	120	1220	1325	-	385	970	1115	525	555	840	225	1065	225	705	270
300	660	1380	1530	130	1260	1380	-	500	1095	1145	555	925	855	255	1095	255	800	305
500	760	1650	1820	135	1515	1650	-	550	1200	1370	580	1000	920	280	1120	280	830	315
750	910	1675	1910	170	1540	1400	-	630	1280	1400	630	1080	960	330	1170	330	900	350
1000	1010	1965	2210	190	1810	1670	-	660	1300	1670	650	1100	980	350	1190	350	920	370
1500	1250	2280	2605	345	-	1630	165	1060	1830	1830	785	785	1310	485	1325	485	1215	600
2000	1350	2600	2930	345	-	1965	155	1165	2150	2150	780	815	1495	490	1320	490	1325	605
3000	1450	2870	3220	400	-	2120	180	1375	2410	2410	850	875	1625	550	1390	550	1540	665

R': Tipping height

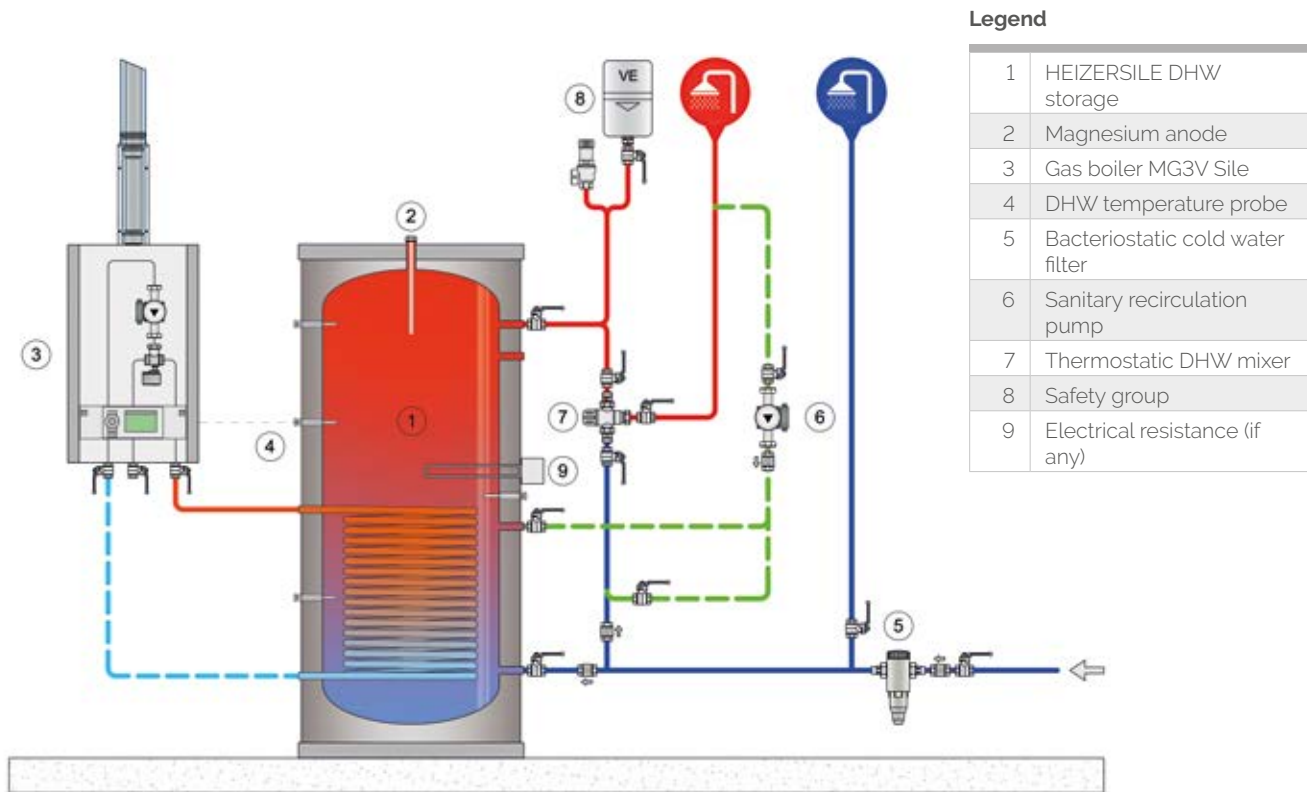
Q1'': height from the centre of the hatch to the ground

Technical Insights for BSFV 1 Series

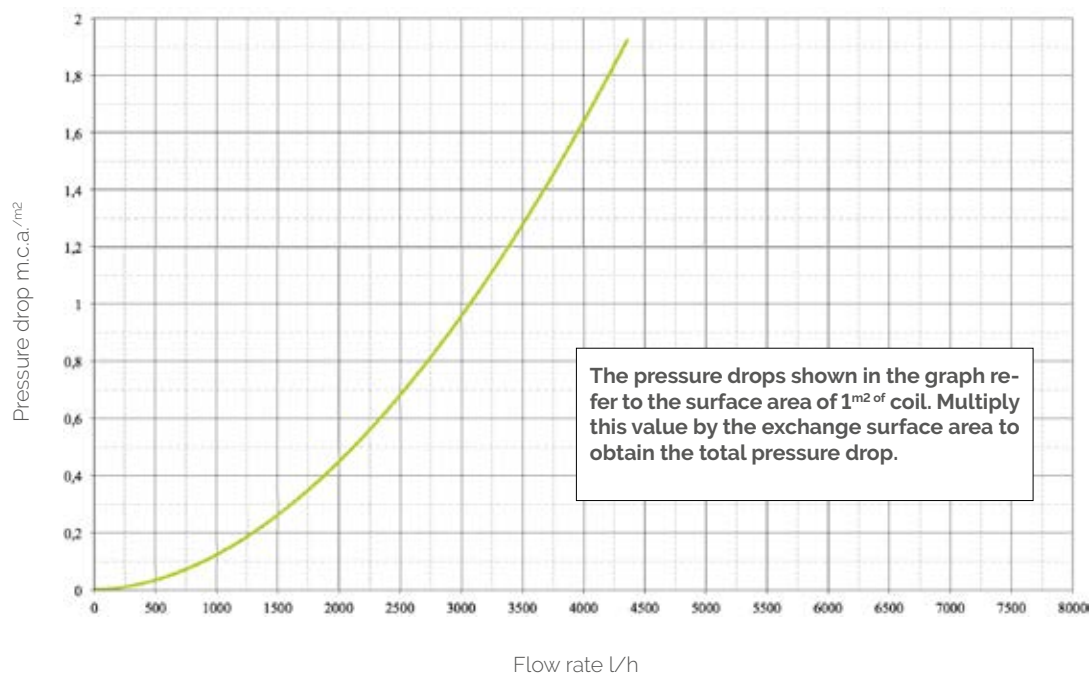
Capacity	Ti	Hot Water Production TiACS = 10°C						Exchanger	
		TuACS= 45°C		TuACS = 60°C		Ta = 50°C TuACS = 45°C	Ta = 60°C TuACS = 45°C	Surface	Nominal flow rate
		L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	m²	mc/h
200	70	810	33	395	23	347	390	1	3
	80	1081	44	602	35	392	435		
	90	1253	51	739	43	421	464		
300	70	810	33	395	23	454	517	1,3	3
	80	1081	44	602	35	499	563		
	90	1253	51	739	43	527	591		
500	70	1179	48	584	34	728	834	1,8	3
	80	1572	64	877	51	793	900		
	90	1842	75	1083	63	838	945		
750	70	1400	57	688	40	1031	1190	2,5	3
	80	1867	76	1032	60	1109	1268		
	90	2186	89	1290	75	1162	1321		
1000	70	1572	64	774	45	1325	1538	2,7	3
	80	2113	86	1169	68	1415	1628		
	90	2481	101	1462	85	1477	1690		
1500	70	2137	87	1049	61	1951	2271	3,7	4
	80	2874	117	1599	93	2074	2393		
	90	3390	138	1995	116	2160	2479		
2000	70	2506	102	1221	71	2545	2970	4,3	4
	80	3341	136	1840	107	2684	3110		
	90	3931	160	2287	133	2782	3208		
3000	70	3022	123	1479	86	3695	4333	5,2	4
	80	4029	164	2236	130	3862	4501		
	90	4717	192	2786	162	3977	4615		

- at continuous DHW flow rate with TuACS= 45°C
- b exchanger power with TuACS=45°C
- c continuous DHW flow rate with TuACS= 60°C
- d exchanger power with TuACS=60°C
- and quantity of DHW delivered at 45°C in the first 10 min with storage at 50°C
- f quantity of DHW delivered at 45°C in the first 10 min. with storage at 60°C
- Exchanger capacity: 6.40 L/m²

Technical Insights for BSFV 1 Series



Fixed exchanger pressure losses



Wenkel S.r.l

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