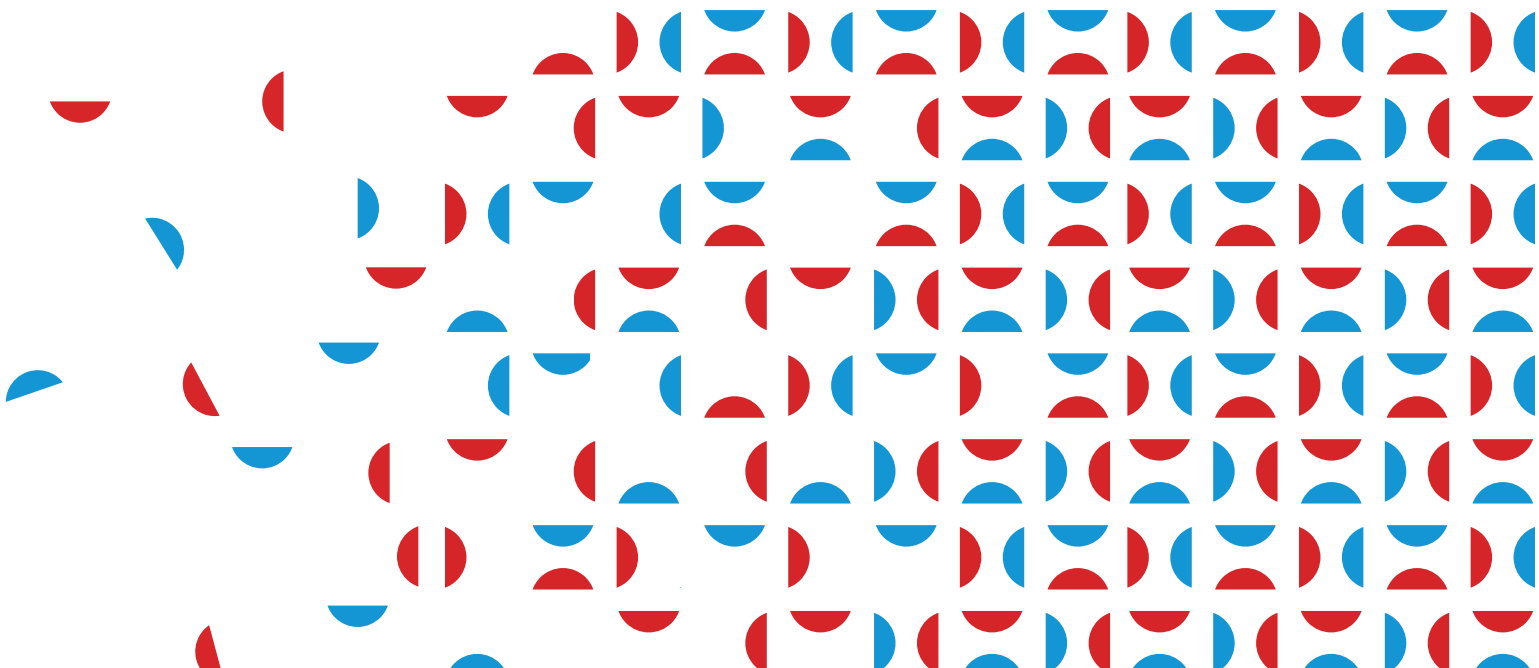


DHW STORAGE TANKS

WATER HEATERS WITH FIXED COIL
VERTINOX 1



Water heater with fixed heat exchanger VERTINOX 1



PRICES

The VERTINOX 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 Insulation table), PVC outer jacket, magnesium anode for protection against galvanic currents, inspection flange for easy access during inspection and maintenance.

Material: AISI 316 stainless steel

Internal protective treatment: pickling and passivation

Insulation

Capacity (l)	Type
from 200 to 3,000	Polyester Fibre

Limit of use

Tank side		Primary circuit	
Temperature max.	Pressure max.	Temperature max.	Pressure max.
95°C	6 bar	110°C	12 bar



Accessories Included: Magnesium sacrificial anode for all sizes.



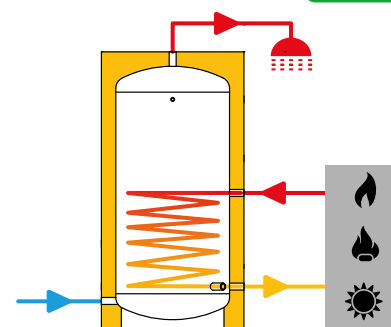
Standard accessories: see page 163



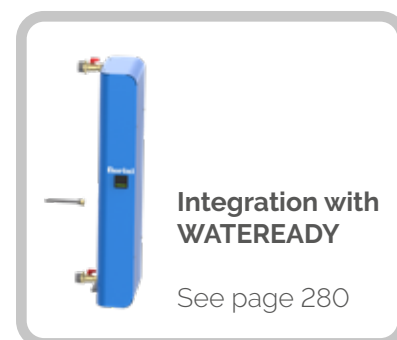
Special executions: see page 165



TESTED

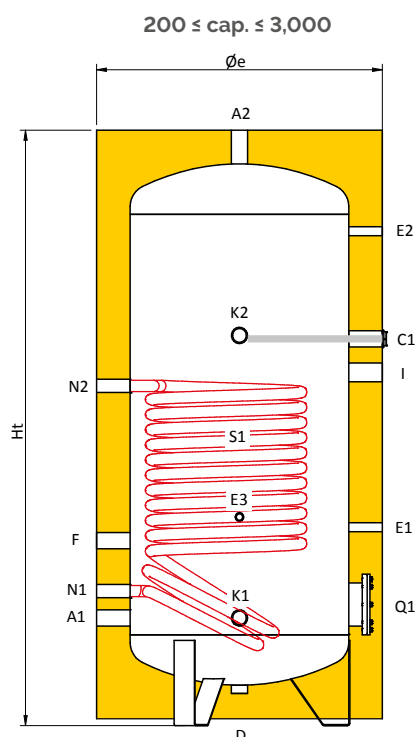


Capacity l	Code	Price	Energy class	With vert. packaging
				Dimensions cm
200	319040114X	2.605,00 €	B	70x70x165
300	319040115X	2.964,00 €	B	80x80x170
500	319040116X	3.531,00 €	C	90x90x190
750	319040117X	4.389,00 €	C	100x100x210
1000	319040118X	5.701,00 €	C	110x110x230
1500	319040119X	8.707,00 €	C	130x130x240
2000	319040120X	10.517,00 €	C	150x150x250
2500	319040121X	13.248,00 €		150x150x275
3000	319040122X	14.713,00 €		150x150x300



Water heater with fixed heat exchanger

VERTINOX 1



Connection legend

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

Connection table

Cap. l	A1 inches	A2 inches	C1 inches	D inches	E1 inches	E2 inches	E3 inches	F inches	I inches	K1 inches	K2 inches	N1 inches	N2 inches	Q1 (Øext/Øint) mm
200	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	3/4"	3/4"	Ø180/Ø120
300	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	3/4"	3/4"	Ø180/Ø120
500	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1"	1"	Ø180/Ø120
750	1 1/2	1 1/2	1 1/4	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	Ø180/Ø120
1000	1 1/2	1 1/2	1 1/4	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	Ø180/Ø120
1500	1 1/2	1 1/2	1 1/4	1 1/2	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	Ø300/Ø220
2000	1 1/2	1 1/2	1 1/4	2"	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	Ø300/Ø220
2500	1 1/2	1 1/2	1 1/4	2"	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	Ø300/Ø220
3000	1 1/2	1 1/2	1 1/4	2"	1/2"	1/2"	1/2"	1 1/4	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	Ø300/Ø220

Size table

Cap. l	Øe mm	Ht mm	R* mm	A1 mm	C1 mm	D mm	E1 mm	E2 mm	E3 mm	F mm	I mm	N1 mm	N2 mm	K1 mm	K2 mm	Q1 mm
200	650	1410	1535	265	880	120	535	1165	565	495	800	345	775	265	1105	305
300	750	1490	1650	305	920	120	575	1205	605	535	840	385	815	305	1145	345
500	850	1770	1945	320	1150	120	590	1470	620	550	1050	400	1010	320	1160	360
750	990	1810	2045	340	1090	120	610	1490	640	570	1010	420	970	340	1180	380
1000	1050	2100	2350	390	1320	120	630	1760	690	620	1220	470	1180	390	1230	400
1500	1250	2235	2560	480	1400	165	840	1850	780	710	1300	560	1210	480	1320	560
2000	1450	2315	2735	515	1455	155	875	1885	815	765	1355	615	1275	515	1355	595
2500	1400	2615	2970	515	1555	155	875	2155	815	765	1455	615	1385	515	1355	595
3000	1450	2850	3200	545	1715	180	905	2385	845	805	1615	655	1480	545	1385	625

R*: Tipping height

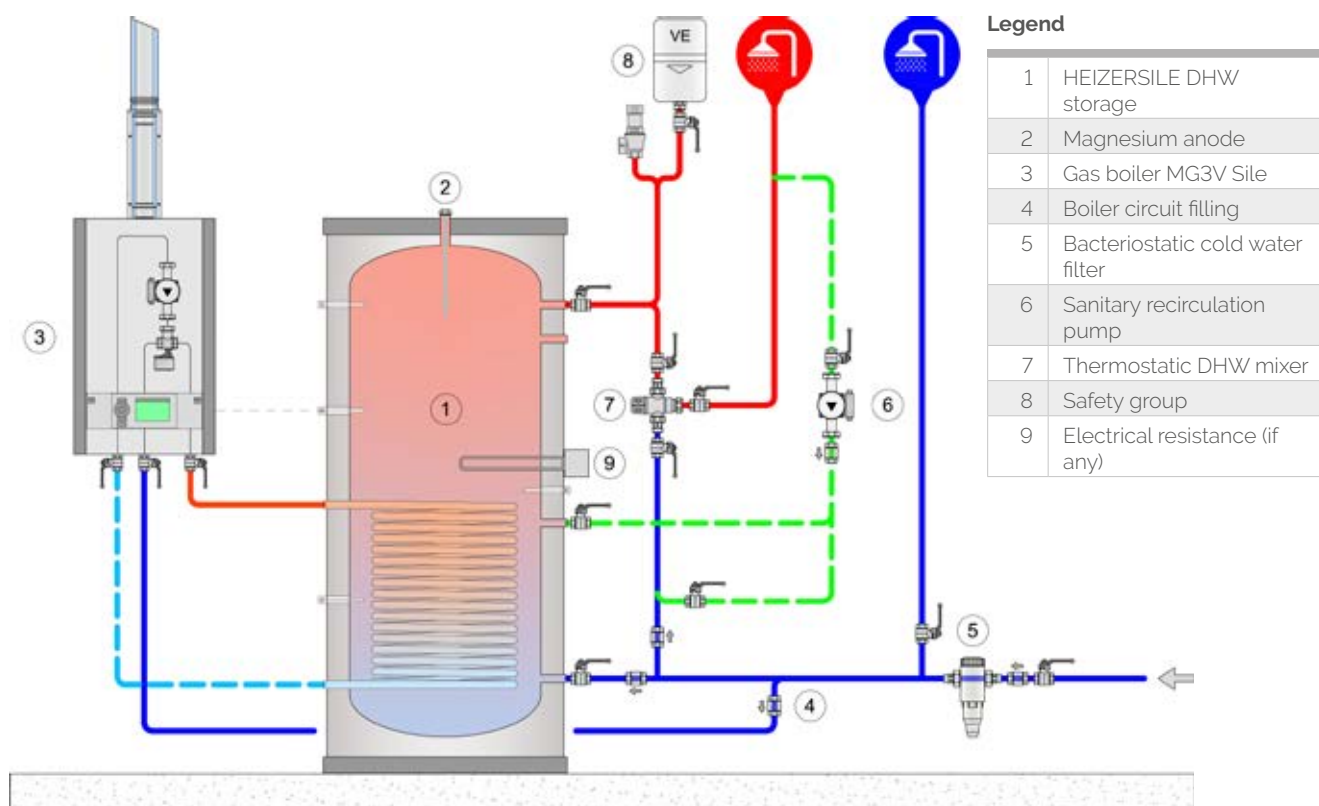
Q1*: height from the centre of the hatch to the ground

Technical Insights for VERTINOX 1 Series

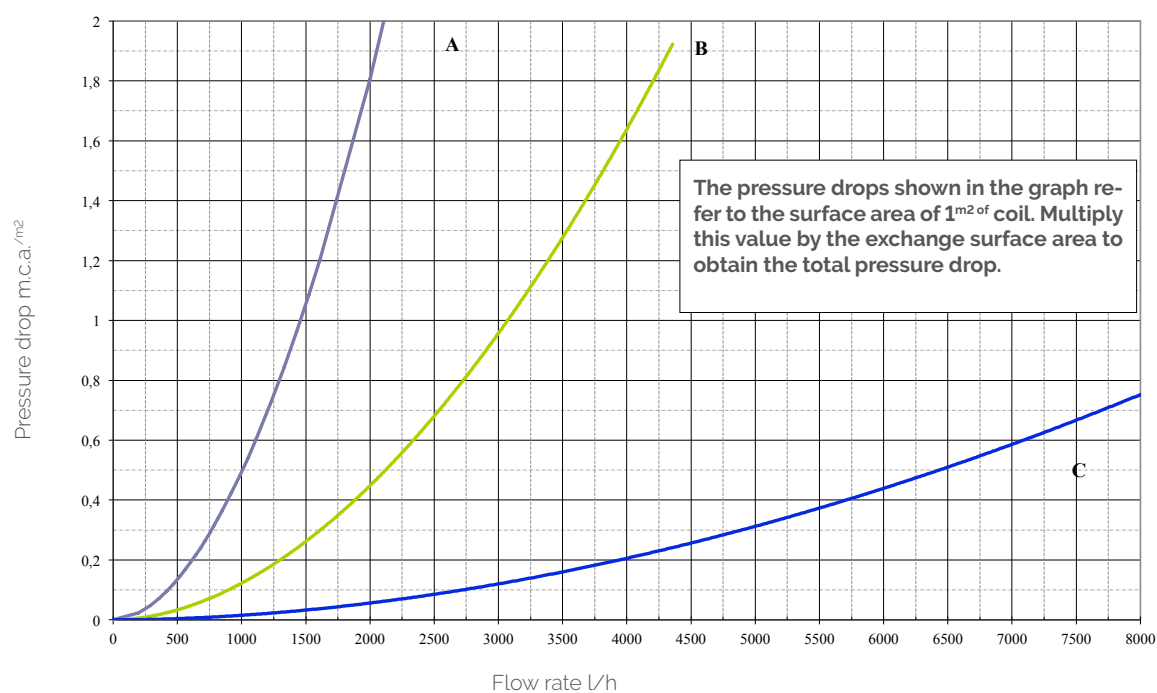
Capacity	Ti	Hot Water Production TiACS = 10°C						Exchanger	
		TuACS= 45°C		TuACS = 60°C		Ta = 50°C TuACS = 45°C	Ta = 60°C TuACS = 45°C	Surface	Nominal flow rate
		L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	m²	mc/h
200	70	565	23	275	16	306	349	0,8	3,0
	80	761	31	430	25	339	382		
	90	884	36	516	30	360	402		
300	70	737	30	361	21	441	505	1,2	3,0
	80	982	40	550	32	482	546		
	90	1154	47	670	39	511	575		
500	70	1105	45	550	32	716	822	1,8	3,0
	80	1474	60	825	48	777	883		
	90	1744	71	1014	59	822	928		
800	70	1400	57	688	40	1084	1254	2,7	4,0
	80	1867	76	1032	60	1162	1332		
	90	2186	89	1290	75	1215	1385		
1000	70	1842	75	911	53	1370	1583	3,5	6,0
	80	2481	101	1376	80	1477	1690		
	90	2924	119	1720	100	1551	1763		
1500	70	2309	94	1135	66	1980	2299	4,0	6,0
	80	3120	127	1720	100	2115	2434		
	90	3661	149	2150	125	2205	2525		
2000	70	2801	114	1376	80	2594	3020	4,8	8,0
	80	3734	152	2064	120	2749	3175		
	90	4373	178	2562	149	2856	3282		
2500	70	3292	134	1634	95	3208	3740	5,6	8,0
	80	4398	179	2442	142	3392	3924		
	90	5160	210	3027	176	3519	4051		
3000	70	3734	152	1823	106	3813	4452	6,4	8,0
	80	4963	202	2752	160	4018	4656		
	90	5823	237	3440	200	4161	4800		

- 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 VERTINOX 1 Series



Fixed exchanger pressure losses



A) 200 l storage B) 300 to 500 l storage included C) 800 to 3000 l storage

Wenkel S.r.l

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