ADVECO

HOT WATER SPECIALISTS

ADVECO VB RANGE

Glass Lined Steel Tanks for DHW Systems



www.adveco.co

ADVECO VB Range

VBI VBT VBB Hot Water Cylinders

The Adveco VB family of hot water cylinders for commercial vented and unvented hot water (DHW) applications.

Available in three ranges - VBI, VBT and VBB - and offering a wide range of sizes and configurations, VB addresses the bespoke needs of commercial hot water projects including direct electric heating, buffer storage, indirect heating & preheat.

The VB familiy of high-quality hot water cylinders

VBI 200-3000 - calorifiers designed to serve as indirect water heaters or preheat vessels

VBT 200-3000 - twin-coil calorifiers is designed to serve as indirect water heaters

VBB 200-5000 - storage tanks designed to serve as buffer vessels or electric water heaters



Cylinders designed to enable commercial lower-carbon water heating

FEATURES

- Tank working temperatures up to 85°C
- Tank maximum working pressure up to 8 bar (6 bar 2500-5000 litres)
- Tough carbon steel shell
- High-quality, consistent application of corrosion-resistant enamelled inorganic blue glass lining to all inner surfaces in direct water contact for tank, heat exchanger and connection longevity
- Magnesium sacrificial anode included as standard
- Connection heights match older cylinder ranges for easier adaptation to existing pipework. Making replacement installation faster & more cost effective
- Rigid high-density polyurethane foam insulation (200-500 litres) or tough, removeable polyester fibre insulation(750-5000 litres)
- Clean out plates and flanges are shaped to bed into each other, offering an improved fit with reduced chance of a leak developing over time



VBI 200-3000

Glass Lined Single Coil Calorifiers for DHW Systems

The Adveco VBI range of glass lined steel calorifiers is designed to serve as indirect water heaters or preheat vessels for vented and unvented domestic hot water applications.

The VBI range includes tanks from 200 to 3000 litres manufactured from high quality carbon steel with a blue glass protective lining. Each tank features a single fixed heat exchange coil at low level, as well as a cleanout flange compatible with a range of backup immersion heaters.

The VBI range is supplied as standard with a sacrificial magnesium anode for corrosion protection and is suitable for use in systems with maximum working pressure up to 6–8 bar and temperatures up to 85°C.



Features

- Available with 200–3000 litre capacities
- Single internal fixed heat exchange coil
- Produced from high quality steel with blue enamel lining (200–2000L) or epoxy powder lining (2500–3000L)
- Rigid high density polyurethane foam insulation (200–500L) or removeable polyester fibre jacket (750-3000L)
- Suitable for vented or unvented installation
- Includes magnesium sacrificial anodes as standard
- 8 bar maximum working pressure (200L to 2000L)
- 6 bar maximum working pressure (2500L to 3000L)

Options and Ancillaries

- Electric Immersion Heaters
- Control Thermostat
- Overheat thermostat
- Destratification pumps
- Unvented Kits: Contact Adveco for options and details



VBT 200-3000

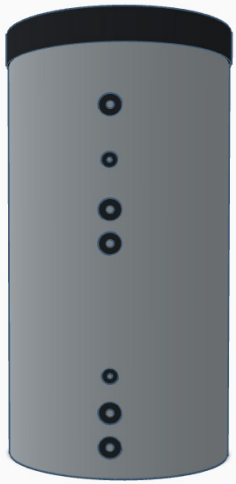
Glass Lined Twin Coil Calorifiers for DHW Systems

The Adveco VBT range of glass lined steel calorifiers is designed to serve as indirect water heaters for vented and unvented domestic hot water applications.

The VBT range includes tanks from 200 to 3000 litres manufactured from high quality carbon steel with a blue enamel protective lining. Each tank features two fixed heat exchange coils and are designed for use with multiple heat sources. All tanks include a cleanout inspection flange compatible with a range of backup immersion heaters.

The VBT range is supplied as standard with a sacrificial magnesium anode for corrosion protection and is suitable for use in systems with maximum working pressure up to 6–8 bar and temperatures up to 85°C.





Features

- Available with 200–3000 litre capacities
- Two internal fixed heat exchange coils, at low and high level
- Produced from high quality steel with blue enamel lining (200–2000L) or epoxy powder lining (2500–3000L)
- Rigid high density polyurethane foam insulation (200–500L) or removeable polyester fibre jacket (750-3000L)
- Suitable for vented or unvented installation
- Includes magnesium sacrificial anodes as standard
- 8 bar maximum working pressure (200L to 2000L)

Options and Ancillaries

- Electric Immersion Heaters
- Control Thermostat
- Overheat thermostat
- Destratification pump kit
- Unvented Kits: Contact Adveco for options and details



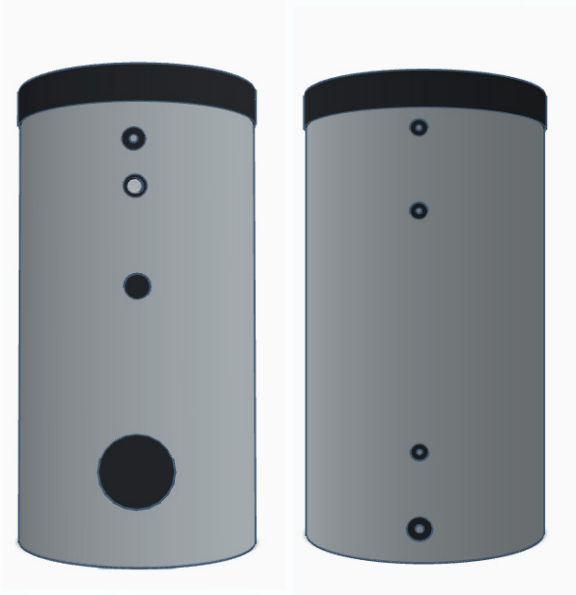
VBB 200-5000

Glass Lined Buffer Vessels and Electric Water Heaters

The Adveco VBB range of glass lined steel storage tanks is designed to serve as buffer vessels or electric water heaters for vented or unvented domestic hot water applications.

The VBB range includes hot water tanks from 200 to 5000 litres, featuring a high quality carbon steel construction with a blue enamel protective lining. Each vessel is supplied as standard with a clean-out inspection flange, a sacrificial magnesium anode for corrosion protection, and a pre-fitted insulation jacket.

The VBB is additionally compatible with a wide range of direct electric immersion heater options on request. The VBB range is suitable for use in systems with a maximum working pressure up to 8 bar and temperatures up to 85°C.



Features

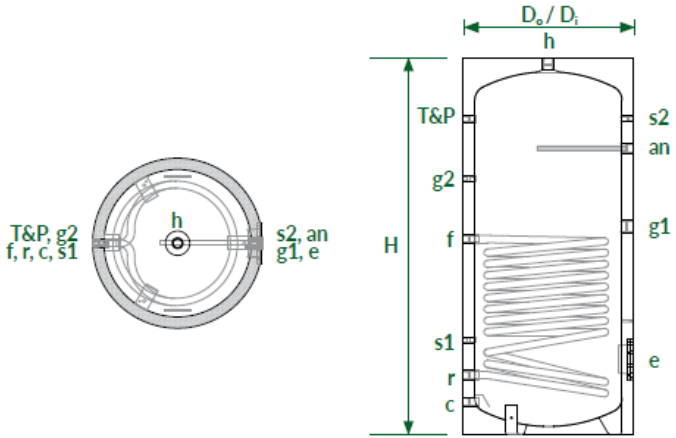
- Available with 200–5000 litre capacities
- Produced from high quality steel with blue enamel lining
- Rigid high density polyurethane foam insulation (200–500L) or removeable polyester fibre jacket insulation (750–5000L)
- Suitable for vented or unvented installations
- Includes magnesium sacrificial anodes as standard
- 8 bar / 85°C max. working temperature and pressure

Options and Ancillaries

- Electric Immersion Heaters
- Control Thermostat
- Overheat thermostat
- Destratification pumps
- Unvented Kits: Contact Adveco for options and details



VBI Specifications, Connections & Dimensions



Dimensions		VBI200	VBI300	VBI400	VBI500	VBI750	VBI1000	VBI1500	VBI2000	VBI2500	VBI3000
H	Height	1320	1610	1408	1660	1765	2060	2060	2350	2615	2815
D_o D_i	Outer diameter with insulation Inner diameter without insulation	550 --	600 --	750 --	750 --	1050 790	1050 790	1260 1000	1360 1100	1400 1200	1450 1250
f	Flow connection to coil	655	795	710	835	907	1055	1110	1280	1350	1530
g1	Additional connection	725	845	765	915	962	1125	1180	1340	1470	1600
g2	Additional connections	915	1050	960	1125	1207	1435	1460	1685	1770	1900
T&P	T&P relief valve connection	1110	1365	1155	1390	1440	1785	1740	1955	2170	2355
e	Inspection flange	300	300	330	330	382	380	475	505	585	575
s1	Sensor pocket	370	410	395	415	447	465	530	550	625	640
s2	Sensor pocket	1110	1365	1155	1390	1440	1785	1740	1955	2170	2355

All threaded connections are BSPP female unless otherwise stated. All dimensions in mm.

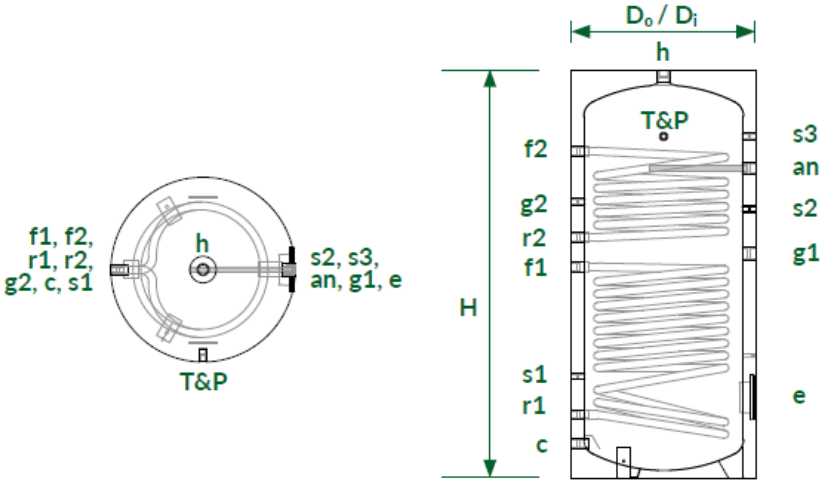
Model VBI		VBI200	VBI300	VBI400	VBI500	VBI750	VBI1000	VBI1500	VBI2000	VBI2500	VBI3000
Storage volume (L)		190	290	414	500	750	932	1474	1952	2500	3000
Standing losses (W) / Energy efficiency class		56.7 / B	68.2 / B	72.0 / B	80.6 / B	125.9 / C	137.9 / C	168.1 / C	181.4 / C	--	--
Maximum working pressure tank/coils (bar)		8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	6 / 10	6 / 10
Coil surface area (m^2)		0.90	1.30	1.60	1.95	2.70	3.00	3.70	4.80	6.00	8.00
Output capacity (kW)		18.6	26.9	33.6	40.8	56.7	63.3	77.7	100.2	129.9	187.2
Nominal primary flow rate (L/s)		0.22	0.32	0.40	0.49	0.68	0.76	0.93	1.20	1.55	2.24
Nominal coil pressure drop (kPa)		0.2	0.6	0.8	1.5	4.1	5.6	8.6	16.7	251.5	705.6
Continuous DHW flow rate (L/h)		319	461	576	700	973	1086	1333	1719	2229	3212
Peak draw off capacity (L)	30 min.	286	426	574	694	1008	1201	1739	2284	2936	3749
	60 min.	445	656	862	1044	1495	1744	2406	3143	4051	5355
	120 min.	764	1118	1439	1744	2468	2831	3739	4863	6280	8568
Insulation type		Rigid high density polyurethane foam				Removable polyester fibre jacket					
Dry weight (kg)		64	83	98	112	177	206	323	452	378	444

Output capacities and DHW flow rates based on 80°C primary and 10/60 secondary temperatures.

Connections

Label	Description	VBI200	VBI300	VBI400	VBI500	VBI750	VBI1000	VBI1500	VBI2000	VBI2500	VBI3000
c	Cold water inlet	1"	1"	1"	1"	1½"	1½"	2"	2"	2"	3"
h	Hot water outlet	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"	2"	3"
g1	Additional connection	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"
g2	Additional connections	½"	½"	½"	½"	1"	1"	1"	1"	1"	1"
T&P	T&P relief valve connection	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
an	Anode connection	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
f, r	Heat exchanger flow / return	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
s1, s2	Sensor pockets	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
e	Inspection flange (mm)	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø290/220	Ø290/220	Ø290/220	Ø290/220
n	Drain	--	--	--	--	--	--	--	--	1¼"	1¼"

VBT Specifications, Connections & Dimensions



Dimensions		VBT200	VBT300	VBT400	VBT500	VBT750	VBT1000	VBT1500	VBT2000	VBT2500	VBT3000
H	Height	1320	1610	1408	1660	1765	2060	2060	2350	2615	2815
D_o D_i	Outer diameter with insulation Inner diameter without insulation	550 --	600 --	750 --	750 --	1050 790	1050 790	1260 1000	1360 1100	1400 1200	1450 1250
f1–2	Flow connection to lower/upper coil	645 / 1000	795 / 1210	710 / 1050	860 / 1330	907 / 1407	1055 / 1670	1110 / 1675	1280 / 1935	1350 / 1970	1530 / 2150
g1	Additional connection	705	845	755	915	962	1125	1180	1340	1470	1600
g2	Additional connections	895	1050	940	1125	1207	1435	1460	1685	1770	1900
T&P	T&P relief valve connection	1110	1365	1155	1390	1440	1785	1740	1955	2170	2355
e	Inspection flange	300	300	330	330	382	380	475	505	585	575
s1	Sensor pocket	370	410	395	415	447	465	530	550	625	640
s2	Sensor pocket	825	1050	885	1095	1117	1305	1345	1545	1770	1900
s3	Sensor pocket	1110	1365	1155	1390	1440	1785	1740	1955	2170	2355

All threaded connections are BSPP female unless otherwise stated. All dimensions in mm.

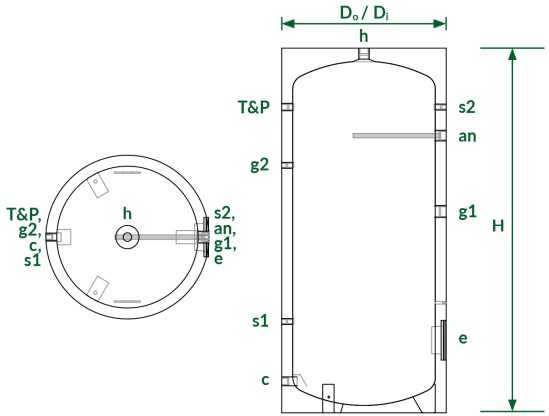
Model VBT		VBT200	VBT300	VBT400	VBT500	VBT750	VBT1000	VBT1500	VBT2000	VBT2500	VBT3000
Storage volume (L)		190	290	414	500	750	932	1474	1952	2500	3000
Standing losses (W)/Energy efficiency class		56.7 / B	68.2 / B	72.0 / B	80.6 / B	125.9 / C	137.9 / C	168.1 / C	181.4 / C	--	--
Maximum working pressure tank/coils (bar)		8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	6 / 10	6 / 10
Coil surface area lower/upper (m^2)		0.90 / 0.50	1.30 / 0.85	1.60 / 0.90	1.95 / 1.10	2.70 / 1.50	3.00 / 1.90	3.70 / 2.30	4.80 / 3.00	6.00 / 3.00	8.00 / 4.00
Coil output capacity lower/upper (kW)		18.6 / 10.5	26.9 / 17.6	33.6 / 19.2	40.8 / 23.1	56.7 / 31.6	63.3 / 39.9	77.7 / 46.3	100.2 / 62.7	129.9 / 63.3	187.2 / 83.8
Nominal primary flow rate lower/upper (L/s)		0.22 / 0.13	0.32 / 0.21	0.40 / 0.23	0.49 / 0.28	0.68 / 0.38	0.76 / 0.48	0.93 / 0.55	1.20 / 0.75	1.55 / 0.76	2.24 / 1.00
Nominal coil pressure drop lower/upper (kPa)		0.2 / 0.1	0.6 / 0.1	0.8 / 0.3	1.5 / 0.3	4.1 / 0.7	5.6 / 1.4	8.6 / 1.1	16.7 / 4.2	251.5 / 31.6	705.6 / 71.9
Continuous DHW flow rate (L/h)	Lower coil	319	461	576	700	973	1086	1333	1719	2229	3212
	Upper coil	180	302	329	394	542	684	794	1076	1086	1438
	Combined coils	499	763	906	1096	1515	1771	2128	2795	3315	4650
Peak draw off capacity (L) 30min	Lower coil	210	310	408	494	708	829	1150	1503	1936	2549
	Upper coil	227	359	470	566	827	1033	1513	2013	2456	3004
	Combined coils	437	669	878	1061	1536	1861	2663	3516	4392	5553
Peak draw off capacity (L) 60min	Lower coil	369	541	696	844	1195	1372	1816	2362	3051	4155
	Upper coil	317	510	635	765	1099	1375	1910	2551	2999	3723
	Combined coils	687	1051	1331	1609	2294	2747	3727	4914	6050	7878
Peak draw off capacity (L) 120min	Lower coil	688	1002	1273	1544	2168	2458	3149	4082	5280	7367
	Upper coil	498	812	964	1161	1641	2060	2705	3627	4085	5161
	Combined coils	1186	1814	2237	2706	3809	4518	5854	7709	9365	12528
Insulation type		Rigid high density polyurethane foam				Removable polyester fibre jacket					
Dry weight (kg)		70	93	109	125	195	229	351	488	398	464

Output capacities and DHW flow rates based on 80°C primary and 10/60 secondary temperatures.

Connections

Label	Description	VBT200	VBT300	VBT400	VBT500	VBT750	VBT1000	VBT1500	VBT2000	VBT2500	VBT3000
c	Cold water inlet	1"	1"	1"	1"	1½"	1½"	2"	2"	2"	3"
h	Hot water outlet	1¼"	1¼"	1¼"	1¼"	1½"	1½"	2"	2"	2"	3"
g1	Additional connection	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"
g2	Additional connections	½"	½"	½"	½"	1"	1"	1"	1"	1"	1"
T&P	T&P relief valve connection	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
an	Anode connection	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
f1–2, r1–2	Heat exchanger flow/return	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
s1, s2, s3	Sensor pockets	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
e	Inspection flange (mm)	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø290/220	Ø290/220	Ø290/220	Ø290/220
n	Drain	--	--	--	--	--	--	--	--	1¼"	1¼"

VBB Specifications, Connections & Dimensions



VBB 200–1000

Dimensions

Label	Description	VBB200	VBB300	VBB400	VBB500	VBB750	VBB1000
H	Height	1320	1610	1408	1660	1765	2100
D_o D_i	Outer diameter with insulation Inner diameter without insulation	550 --	600 --	750 --	750 --	1050 790	1050 790
g1	Additional connection	725	845	765	915	962	1125
g2	Additional connection	915	1050	950	1125	1207	1435
T&P	T&P relief valve connection	1095	1365	1155	1390	1447	1785
an	Anode	980	1250	1015	1260	1272	1475
e	Inspection flange	262	300	330	330	382	380
s1	Sensor pocket	370	410	395	415	447	465
s2	Sensor pocket	1095	1365	1155	1390	1447	1785

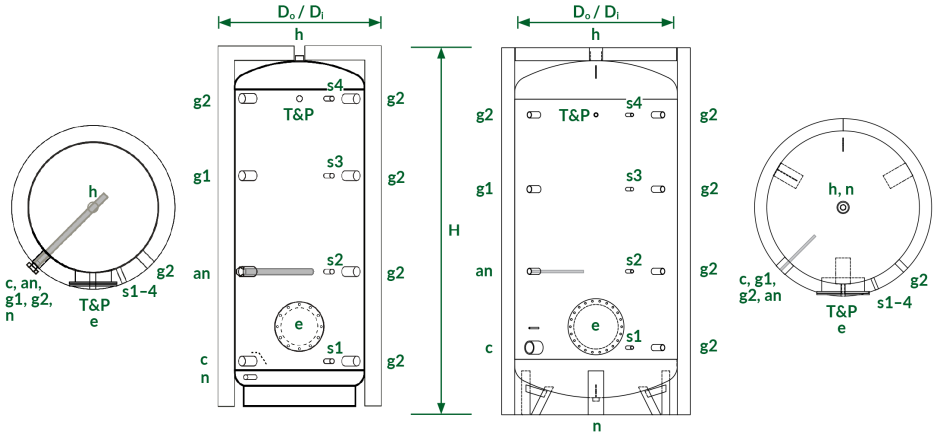
Model VBB	VBB200	VBB300	VBB400	VBB500	VBB750	VBB1000
Storage volume (L)	190	290	414	500	750	932
Standing losses (W) / Energy efficiency class	56.7 / B	68.2 / B	72.0 / B	80.6 / B	125.9 / C	137.9 / C
Maximum working pressure tank (bar)	8	8	8	8	8	8
Insulation type	Rigid high density polyurethane foam				Removable polyester fibre jacket	
Dry weight (kg)	55	68	80	90	146	171

Connections

Label	Description	VBB200	VBB300	VBB400	VBB500	VBB750	VBB1000
c	Cold water inlet	1"	1"	1"	1"	1½"	1½"
h	Hot water outlet	1¼"	1¼"	1¼"	1¼"	1½"	1½"
g1	Additional connection	1½"	1½"	1½"	1½"	1½"	1½"
g2	Additional connection	½"	½"	½"	½"	½"	½"
T&P	T&P relief valve connection	¾"	¾"	¾"	¾"	¾"	¾"
an	Anode connection	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"
s1, s2	Sensor pockets	½"	½"	½"	½"	½"	½"
e	Inspection flange (mm)	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø180/120
n	Drain	--	--	--	--	--	--
Compatible immersion heater installation positions Contact Adveco for options		e, g1	e, g1	e, g1	e, g1	e, g1	e, g1

All threaded connections are BSPP female unless otherwise stated. All dimensions in mm.

VBB Specifications, Connections & Dimensions



Dimensions

Label	Description	VBB1500	VBB2000	VBB2500	VBB3000	VBB4000	VBB5000
H	Height	2060	2350	2615	2815	2940	2965
D_o D_i	Outer diameter with insulation Inner diameter without insulation	1200 1000	1300 1100	1400 1200	1450 1250	1400 1600	1600 1800
e	Inspection flange	520	575	715	665	755	725
c, g2, s1	Cold inlet, addtl. connection, sensor pocket	330	410	505	515	745	600
g2, an, s2	Addtl. connection, anode, sensor pocket	765	930	1040	1100	1190	1185
g1, g2, s3	Addtl. connections, sensor pocket	1400	1435	1600	1730	1815	1815
T&P, g2, g2, s4	T&P relief, addtl. connections, sensor pocket	1725	1945	2106	2300	2380	2385

Model VBB	VBB1500	VBB2000	VBB2500	VBB3000	VBB4000	VBB5000
Storage volume (L)	1478	1959	2500	3000	4000	5000
Standing losses (W) / Energy efficiency class	169.2 / C	182.7 / C	--	--	--	--
Maximum working pressure tank (bar)	8	8	6	6	6	6
Insulation type	Removable polyester fibre jacket					
Dry weight (kg)	323	439	377	417	515	612

Label	Description	VBB1500	VBB2000	VBB2500	VBB3000	VBB4000	VBB5000
c	Cold water inlet	2”	2”	2”	3”	3”	3”
h	Hot water outlet	2”	2”	2”	3”	3”	3”
g1	Additional connection	1½”	1½”	1½”	1½”	1½”	1½”
g2	Additional connections	1¼”	1¼”	1¼”	1¼”	1¼”	1¼”
T&P	T&P relief valve connection	¾”	¾”	¾”	¾”	¾”	¾”
an	Anode connection(s)	1¼”	1¼”	1¼”	1¼”	1¼”	1¼”
s1, s2, s3, s4	Sensor pockets	½”	½”	½”	½”	½”	½”
e	Inspection flange (mm)	Ø380/300	Ø380/300	Ø430/350	Ø430/350	Ø430/350	Ø430/350
n	Drain	1”	1”	1¼”	1¼”	1¼”	1¼”
Compatible immersion heater installation positions Contact Adveco for options		e, g1	e, g1	e, g1	e, g1	e, g1	e, g1

All threaded connections are BSPP female unless otherwise stated. All dimensions in mm.

ADVECO
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Adveco VB Commercial Glass Lined Water Cylinders Range 2026

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