

BWP 200 - 1000



Heat pump storage tank

BWP 200 - 1000

Application

This hot water storage tank features a double helix heating surface and is thus suitable for high heat pump outputs. It can also be used as a high performance storage tank for oil, gas, solid fuel and similar.

Corrosion protection for parts with drinking water contact

Enamelled as per DIN 4753. A magnesium anode offers additional corrosion protection.

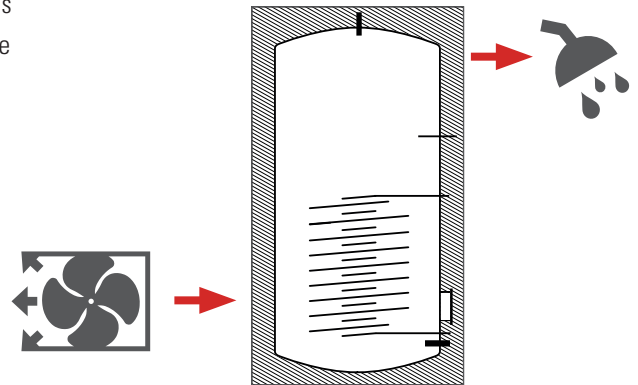
External corrosion protection

Up to 600 l protective enamelled layers and foam encased 800 to 1,000 l powder coated

Heat insulation

Type 200-600: 50 mm PU rigid foam insulation with soft sleeve

Type 800-1000: 95 mm PU rigid foam half-shell with soft sleeve



Model overview BWP 200 - 1000

Type	Article no.	Volume	Height with insulation	Tilt height	Installation diameter	Weight (empty)	Surface HE bottom	Output figure	Efficiency class
Unit	[-]	[l]	[mm]	[mm]	[mm]	[kg]	[m²]	[-]	[-]
BWP 200	STD0200BWP	201	1215	1370	610	127	2,5	2,2	C
BWP 300	STD0300BWP	326	1570	1710	660	149	3,5	4,2	C
BWP 400	STD0400BWP	415	1500	1690	760	182	4,4	6,0	C
BWP 500	STD0500BWP	496	1800	1960	760	209	6	9,1	C
BWP 600	STD0600BWP	559	2000	2150	760	224	6	10,2	C
BWP 800	STD0800BWP	805	1990	2020	790	284	6	12,0	C
BWP 1000	STD1000BWP	910	2190	2220	790	301	6	18,7	C

Heat pump storage tank

Technical specifications BWP 200 - 1000

Type	Unit	BWP 200	BWP 300	BWP 400	BWP 500	BWP 600	BWP 800	BWP 1000
Article no.	[-]	STD0200BWP STD0200BWP.H	STD0300BWP STD0300BWP.H	STD0400BWP STD0400BWP.H	STD0500BWP STD0500BWP.H	STD0600BWP STD0600BWP.H	STD0800BWP	STD1000BWP
Volume	[l]	201	326	415	496	559	805	910
Drinking water content	[l]	187	305	388	464	527	771	876
Content HE bottom	[l]	14,4	21,4	27,2	32,5	32,5	34,5	34,5
Height with insulation	[mm]	1215	1570	1500	1800	2000	1990	2190
Diameter with insulation	[mm]	610	660	760	760	760	990	990
Diameter without insulation	[mm]	-	-	-	-	-	790	790
Tilt height	[mm]	1370	1710	1690	1960	2150	2020	2220
Installation diameter	[mm]	610	660	760	760	760	790	790
Weight (empty)	[kg]	127	149	182	209	224	284	301
Max. operating pressure heating side	[bar]	10	10	10	10	10	10	10
Test pressure heating side	[bar]	15	15	15	15	15	15	15
Max. operating pressure hot drinking water side	[bar]	10	10	10	10	10	10	10
Test pressure hot drinking water side	[bar]	15	15	15	15	15	15	15
Surface HE bottom	[m²]	2,5	3,5	4,4	6	6	6	6
Insulation thickness	[mm]	50	50	50	50	50	95	95
Max. installation length EHP	[mm]	400	450	500	500	500	630	630
Max. output EHP	[kW]	3,5	5,5	7,5	9,5	10	15	17
On-demand heat overhead	[kWh/d]	1,60	1,80	2,40	2,60	2,60	3,10	3,40
Holding losses	[W]	68	75	101	107	110	129	142
Efficiency class	[-]	C	C	C	C	C	C	C
Pressure loss heating side	[mbar]	27	35	53	84	84	67	67
Flow rate heating side	[m³/h]	0,9	1,6	1,3	1,6	1,6	1,5	1,5
Insulation material	[-]	PU rigid foam (λ=0.024 W/mK)					PU rigid foam shell (λ=0.024 W/mK)	
Corrosion protection	[-]	Enamelled as per DIN 4753, magnesium anode						

Output data BWP 200 - 1000

		Continuous output at supply temperature ¹				Values as per DIN4708 (data relative to output figure) ²				Draw-off performance in 60 min ³
		50 °C		60 °C		Output	Max. draw-off performance in 10 min		Draw-off performance after 30 min	
		[kW]	[l/h]	[kW]	[l/h]		[l]	[l/min]	[l]	[l/min]
HE bottom	200	12.6	310	36.0	884	2.2	204	20.4	81	18.5
	300	14.7	361	42.0	1032	4.2	273	27.3	155	23.3
	400	18.5	454	52.8	1297	6.0	326	32.6	221	27.0
	500	25.2	619	72.0	1769	9.1	393	39.3	335	31.7
	600	25.2	619	72.0	1769	10.0	413	41.3	367	33.0
	800	25.2	619	72.0	1769	12.0	455	45.5	439	35.9
	1000	25.2	619	72.0	1769	18.7	586	58.6	676	45.0

1 - Heating from CW 10 °C to WW 45 °C

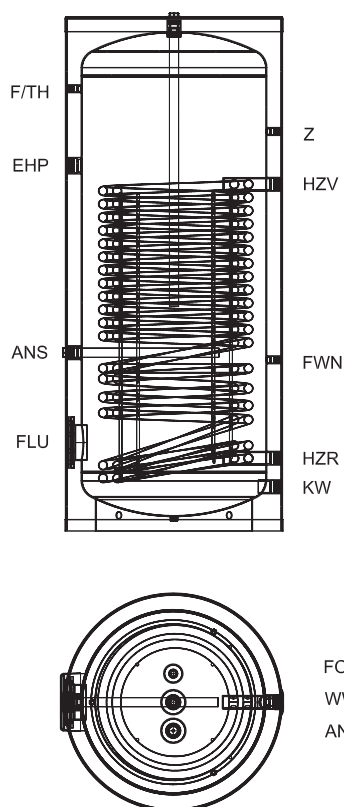
2 - Heating from CW 10 °C to WW 45 °C; supply 70 °C; storage tank temperature CW + 50 K

3 - Computed data at maximum output; CW 10 °C to WW 45 °C; storage tank temperature 60 °C

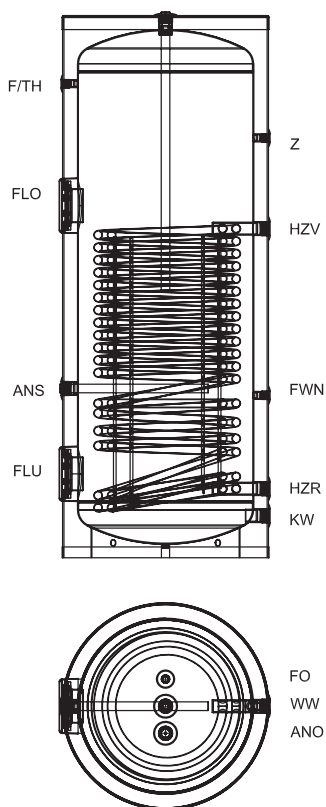
Connections and dimensions BWP 200 - 1000

Connections			BWP 200	BWP 300	BWP 400	BWP 500	BWP 600	BWP 800	BWP 1000
FO	Top sensor	[mm]	1215 ½" IT	1570 ½" IT	1500 ½" IT	1800 ½" IT	2000 ½" IT	1940 ½" IT	2140 ½" IT
ENT	Ventilation	[mm]	-	-	-	-	-	1940 1¼" IT	2140 1¼" IT
WW	Hot water	[mm]	1215 1¼" IT	1570 1¼" IT	1500 1¼" IT	1800 1¼" IT	2000 1¼" IT	1765 2" IT	1965 2" IT
ANO	Anode top	[mm]	1215 1¼" IT	1570 1¼" IT	1500 1¼" IT	1800 1¼" IT	2000 1¼" IT	1940 1¼" IT	2140 1¼" IT
ANS	Anode side	[mm]	-	-	-	625 1¼" IT	625 1¼" IT	690 1¼" IT	690 1¼" IT
F/TH	Sensor/Thermometer	[mm]	990 ½" IT	1350 ½" IT	1250 ½" IT	1550 ½" IT	1750 ½" IT	1650 ½" IT	1850 ½" IT
EHP	Flange top	[mm]	840 1½" IT	990 1½" IT	1075 1½" IT	1280 1½" IT	-	-	-
FLO	Electric heating cartridge	[mm]	-	-	-	-	1300 Ø 180 mm	1400 Ø 180 mm	1400 Ø 180 mm
FLU	Flange bottom	[mm]	285 Ø 180 mm	295 Ø 180 mm	310 Ø 180 mm	310 Ø 180 mm	310 Ø 180 mm	350 Ø 290 mm	350 Ø 290 mm
Z	Circulation	[mm]	910 ½" IT	1200 ½" IT	1150 ½" IT	1400 ½" IT	1550 ½" IT	1400 1" IT	1600 1" IT
HZV	Heating supply	[mm]	795 1¼" IT	920 1¼" IT	1005 1¼" IT	1215 1¼" IT	1215 1¼" IT	1195 1¼" IT	1195 1¼" IT
FWN	Hot water post-heating sensor	[mm]	-	-	-	600 ½" IT	600 ½" IT	660 ½" IT	660 ½" IT
HZR	Heating return	[mm]	240 1¼" IT	240 1¼" IT	255 1¼" IT	255 1¼" IT	255 1¼" IT	275 1¼" IT	275 1¼" IT
KW	Cold water	[mm]	130 1¼" IT	140 1¼" IT	155 1¼" IT	155 1¼" IT	155 1¼" IT	175 2" IT	175 2" IT

BWP 200 / 300 / 400 / 500



BWP 600



BWP 800 / 1000

