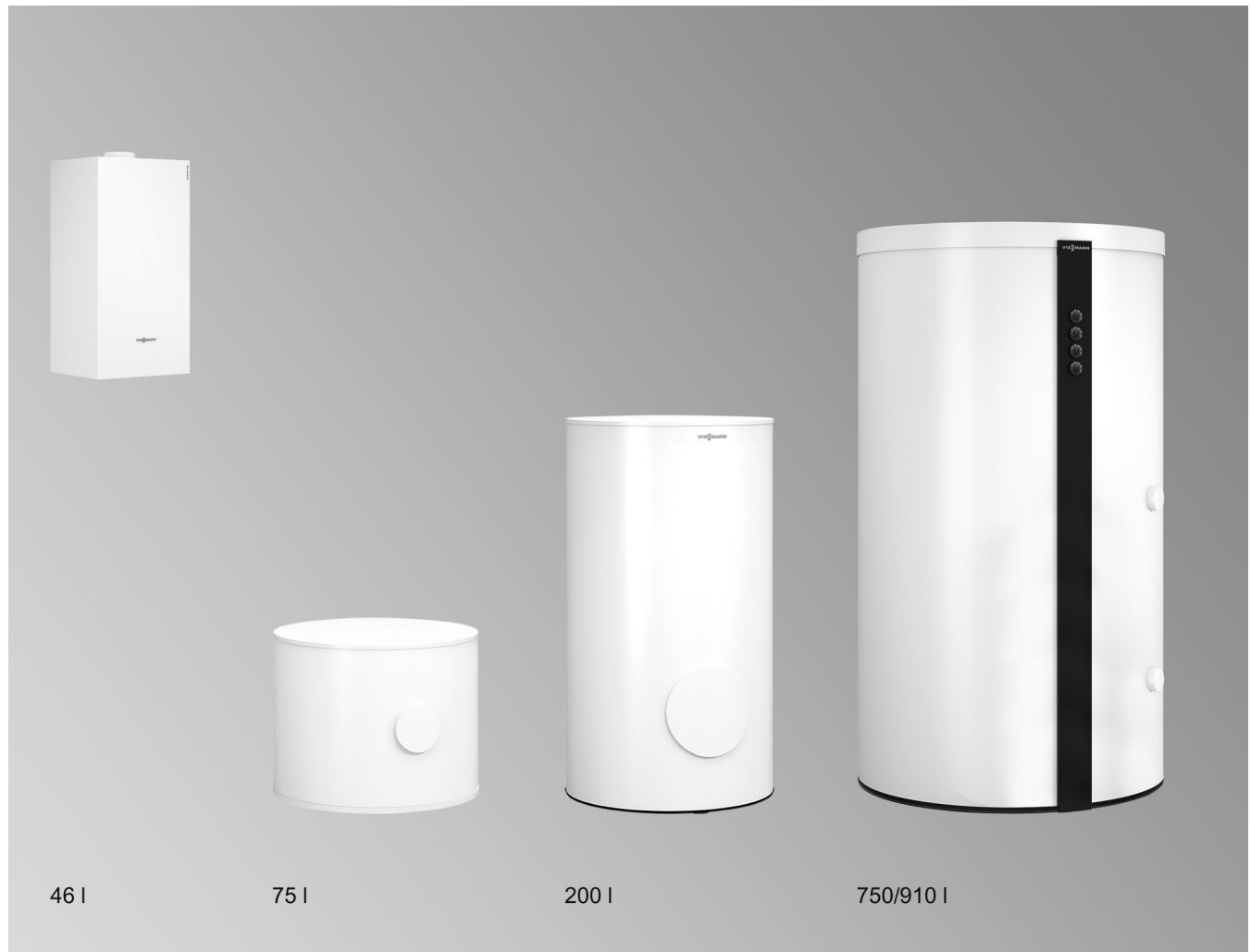


Datasheet

Part no. and prices: See pricelist



For storing heating water in conjunction with solar thermal systems, heat pumps and solid fuel boilers

Version to DIN 4753

VITOCELL 100-E

Vitosilver

Type SVPA: 46 l
Type SVPB: 400 l
Type SVWA: 200 l
Type SVPC: 600, 750 and 910 l

Vitopearlwhite

Type MSCA: 50 and 75 l
Type SVWA: 200 l
Type SVPB: 400 l
Type SVPC: 600, 750 and 910 l

Vitographite

Type SVPB: 400, 1500, 2000 l
Type SVPC: 600, 750, 910 l

VITOCELL 100-W

Vitopearlwhite

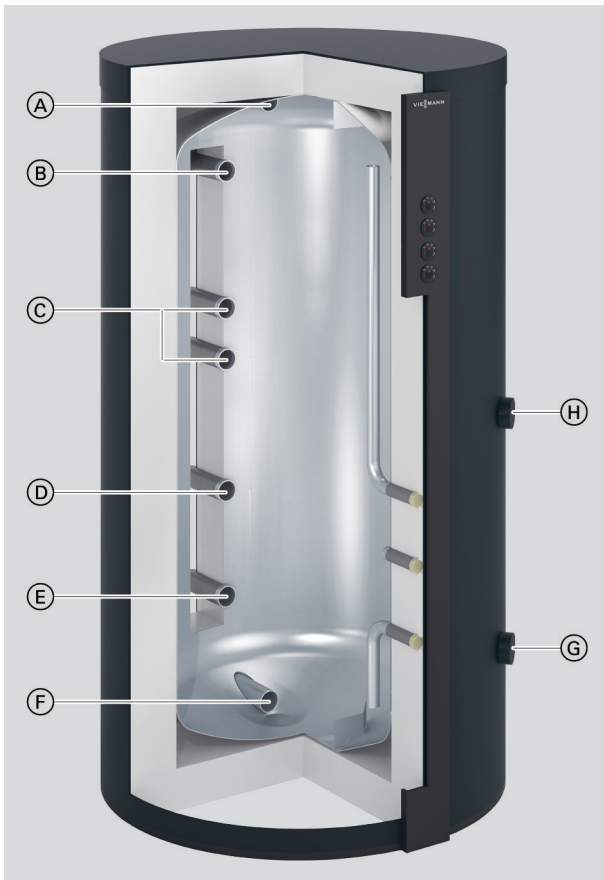
Type SVPA: 46 l

White

Type SVP (only in conjunction with Vitocal 250-S): 46 l
Type SVPA: 46 l

Benefits

Type SVPC, 750 l



- Ⓐ Heating water flow 1/air vent valve
- Ⓑ Heating water flow 2
- Ⓒ Heating water flow 3/heating water return 1
- Ⓓ Heating water return 2
- Ⓔ Heating water return 3
- Ⓕ Heating water return 4/drain outlet
- Ⓖ Sleeve for immersion heater 2
- Ⓗ Sleeve for immersion heater 1

- With a capacity of 46 l (type SVPA), wall mounted as a return buffer to extend capacity in heat pump heating systems
- With a capacity of 50 l/75 l (type MSCA), floorstanding or for installation on Vitocell 100-V, type CVWC as a low loss header or to extend capacity in heating and cooling systems with heat pumps
- With a capacity of 200 l (type SVWA), floorstanding as a low loss header or to extend capacity in heat pump heating systems
- With a capacity of 400 to 2000 l (type SVPB/SVPC), versatile application in heating systems with several heat generators and heat consumers thanks to multiple flow and return connections, plus additional connections for test points. Particularly suitable in conjunction with solar thermal systems, heat pumps, solid fuel boilers and CHP units

Delivered condition

Type SVP, SVPA

Heating water buffer cylinder with **46 l** capacity:

- EPS thermal insulation and sheet steel casing
- Stainless steel cylinder
- Sheet steel casing, epoxy-coated
 - Type SVP: White
 - Type SVPA: Vitopearlwhite, White or Vitosilver
- Wall mounting bracket
- Overflow valve

Type MSCA

Heating water buffer cylinder with **50 and 75 l** capacity:

- Fitted thermal insulation, diffusion-proof
- Sheet steel casing, epoxy-coated: Vitopearlwhite
- Adjustable feet

- Steel cylinder
- Sensor well for cylinder temperature sensors and temperature controllers (internal diameter 16 mm)
 - 50 l: 1 sensor well
 - 75 l: 2 sensor wells

Type SVWA

Heating water buffer cylinder with **200 l** capacity:

- Fitted thermal insulation
- Sheet steel casing, epoxy-coated: Vitopearlwhite or Vitosilver
- Adjustable feet
- Steel cylinder
- 2 sensor wells for cylinder temperature sensors and temperature controllers (internal diameter 16 mm)

Benefits (cont.)

Type SVPB

Heating water buffer cylinder with **400, 1500 and 2000 l** capacity:

- Removable thermal insulation
- Polystyrene casing
 - 400 l: Vitoppearlwhite, Vitosilver or Vitographite
 - 1500, 2000 l: Vitographite
- Adjustable feet
- Steel cylinder
- Clamping devices for securing immersion temperature sensors to the cylinder jacket, each with fixing points for 3 immersion temperature sensors
 - 400 l: 3 clamping devices
 - 1500, 2000 l: 4 clamping devices
- Clamping brackets for thermometer sensors or additional temperature sensors
 - 400 l: 1 clamping bracket
 - 1500, 2000 l: 3 clamping brackets

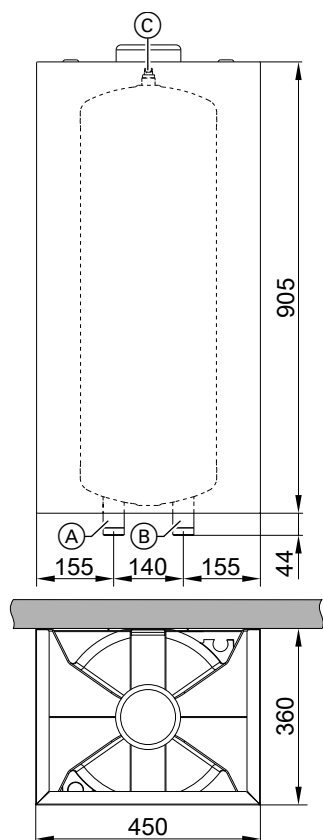
Type SVPC

Heating water buffer cylinder with **600, 750, 910 l** capacity:

- Removable thermal insulation
- Polystyrene casing: Vitoppearlwhite, Vitosilver or Vitographite
- Adjustable feet
- Steel cylinder
- 5 clamping devices for securing immersion temperature sensors to the cylinder jacket, each with fixing points for 3 immersion temperature sensors
- 3 clamping bracket for thermometer sensor or additional temperature sensors

Specification for type SVP, 46 I

Dimensions

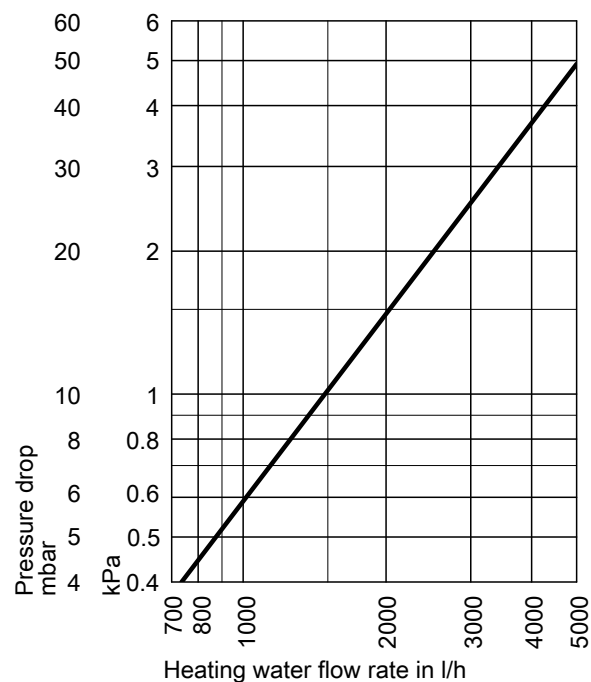


- (A) Heating water flow or heating water return, as required
- (B) Heating water return or heating water flow, as required
- (C) Air vent valve

Specification

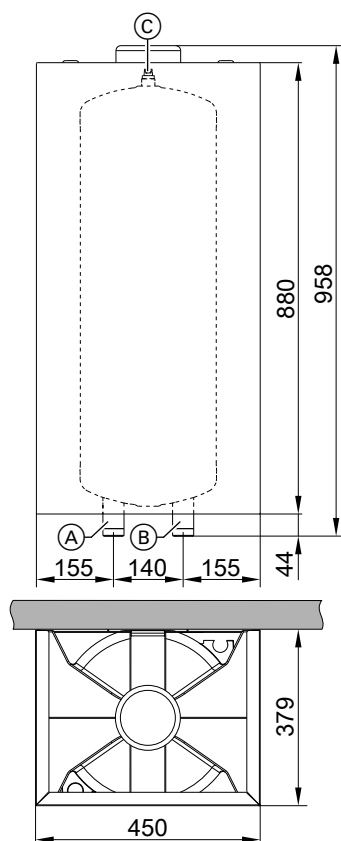
Type		SVP
Cylinder capacity	I	46
(AT: Actual water capacity)		
Max. flow temperature	°C	110
Max. operating pressure	bar	3
	MPa	0.3
Weight (incl. thermal insulation)	kg	18
Connections (male thread)		
Heating water flow and return	G	1¼
Standby heat loss	kWh/24 h	0.94
Energy efficiency class		B
Colour		White

Pressure drop on the heating water side



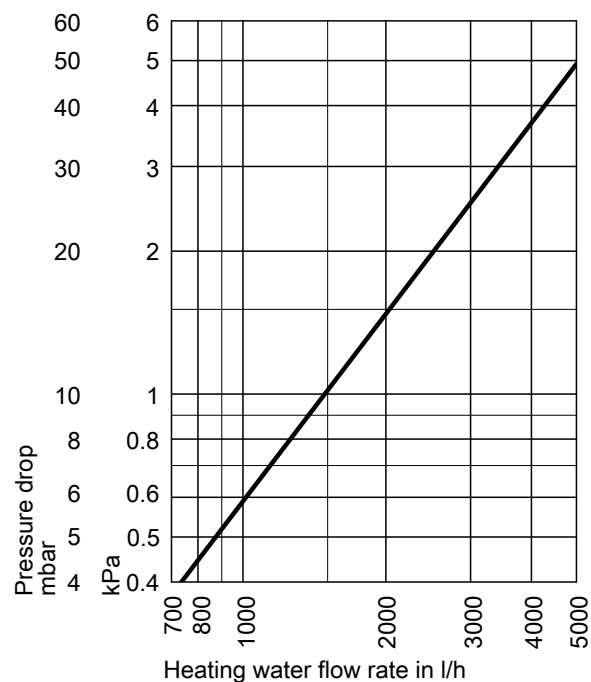
Specification for type SVPA, 46 I

Dimensions



- (A) Heating water flow or heating water return, as required
- (B) Heating water return or heating water flow, as required
- (C) Air vent valve

Pressure drop on the heating water side



Specification

Type		SVPA
Cylinder capacity	l	46
(AT: Actual water capacity)		
Max. flow temperature	°C	110
Max. operating pressure	bar	3
	MPa	0.3
Weight	kg	18
Connections (male thread)		
Heating water flow and return	G	1½
Standby heat loss	kWh/24 h	0.94
Energy efficiency class		B
Colour		
– Vitocell 100-E		Vitosilver
– Vitocell 100-W		Vitopearlwhite
		or
		White

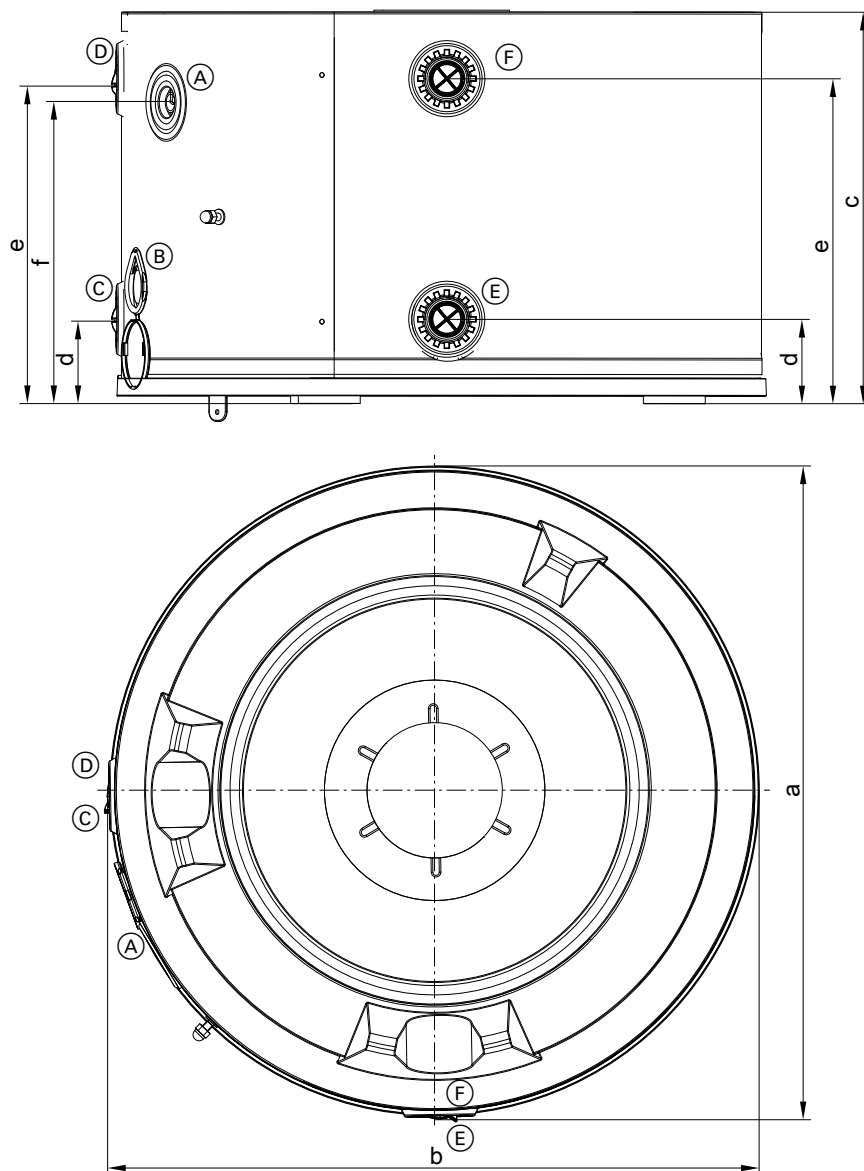
Specification for type MSCA, 50 and 75 l

Specification

Type		MSCA	
Cylinder capacity (AT: Actual water capacity)	l	50	75
Max. flow rate	l/h	2700	2700
Permissible temperatures on the heating water side			
– Max. temperature, heating mode	°C	110	110
– Min. temperature, cooling mode	°C	7	7
Permissible operating pressure	bar MPa	3 0.3	3 0.3
Dimensions			
Length a (Ø)	mm	668	668
Total width b	mm	675	675
Height c	mm	415	533
Total weight	kg	40	50
Connections (female thread)			
Heating water flow and return, heat generator 2	R	1	1
Heating water flow and return, heat generator	R	1	1
Immersion heater	Rp	—	1½
Standby heat loss	kWh/24 h	0.67	0.83
Energy efficiency class		B	B
Colour		Vitopearlwhite	

Specification for type MSCA, 50 and 75 l (cont.)

Dimensions, 50 l capacity



- (A) Sensor well Ø 16 mm for immersion temperature sensor
- (B) Injection process plug: Do not connect anything here!
- (C) Heating water return, heating circuits

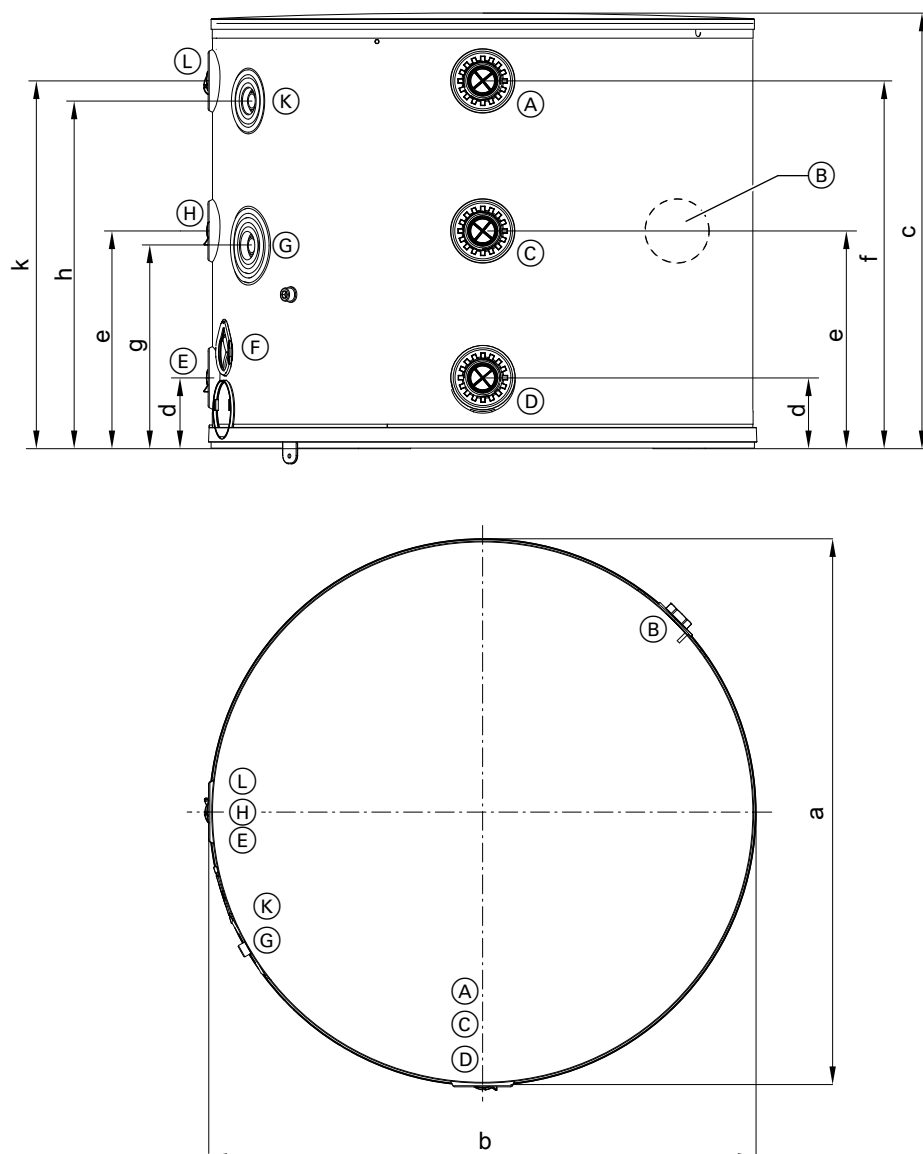
- (D) Heating water flow, heating circuits, air vent valve
- (E) Heating water return, heat generator, drain
- (F) Heating water flow, heat generator

Dimensions

Cylinder capacity		I	50
Length (Ø)	a	mm	668
Width	b	mm	675
Height	c	mm	415
	d	mm	87
	e	mm	336
	f	mm	311

Specification for type MSCA, 50 and 75 l (cont.)

Dimensions, 75 l capacity



- (A) Heating water flow, heat generator 2
- (B) Immersion heater (EHE)
- (C) Heating water flow, heat generator
- (D) Heating water return, heat generator, drain
- (E) Heating water return, heating circuits

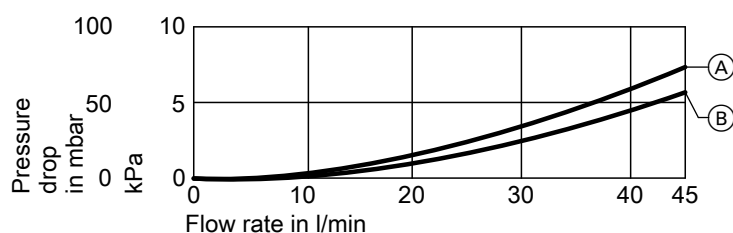
- (F) Injection process plug: Do not connect anything here!
- (G) Sensor well Ø 16 mm for immersion temperature sensor, bottom
- (H) Heating water return, heat generator 2
- (K) Sensor well Ø 16 mm for immersion temperature sensor, top
- (L) Heating water flow, heating circuits, air vent valve

Dimensions

Cylinder capacity		I	75
Length (Ø)	a	mm	668
Width	b	mm	675
Height	c	mm	533
	d	mm	95
	e	mm	267
	f	mm	465
	g	mm	251
	h	mm	429
	k	mm	465

Specification for type MSCA, 50 and 75 l (cont.)

Pressure drop on the heating water side



Ⓐ Cylinder capacity 75 l

Ⓑ Cylinder capacity 50 l

Vitocell 100-E, type MSCA, 75 l with immersion heater EHE

Part no. Z012684

- Use the immersion heater only with very soft to medium hard water up to 14 °dH (hardness level 2, up to 2.5 mol/m³).
- The heating output can be selected: 2, 4 or 6 kW

Components:

- High limit safety cut-out
- Temperature controller

Specification for immersion heater EHE

Max. output range	kW	6		
Rated consumption standard mode/quick heat-up	kW	2	4	6
Rated voltage		1/N/PE 230 V/50 Hz		3/PE 400 V/50 Hz
Rated current	A	8.7	17.4	8.7
Weight	kg	2	2	2
IP rating		IP 45		

Specification for immersion heater EHE in conjunction with Vitocell 100-E, type MSCA, 75 l

Cylinder capacity	l	75
Content that can be heated by the immersion heater	l	38
Heat-up time from 10 to 60 °C with immersion heater EHE:		
– 2 kW	h	1.10
– 4 kW	h	0.55
– 6 kW	h	0.37
Minimum wall clearance for installation of the immersion heater	mm	650

Vitocell Modular 100-VE – overview

Vitocell Modular 100-VE comprises a Vitocell 100-V DHW cylinder, type CVWC and a Vitocell 100-E heating water buffer cylinder, type MSCA.

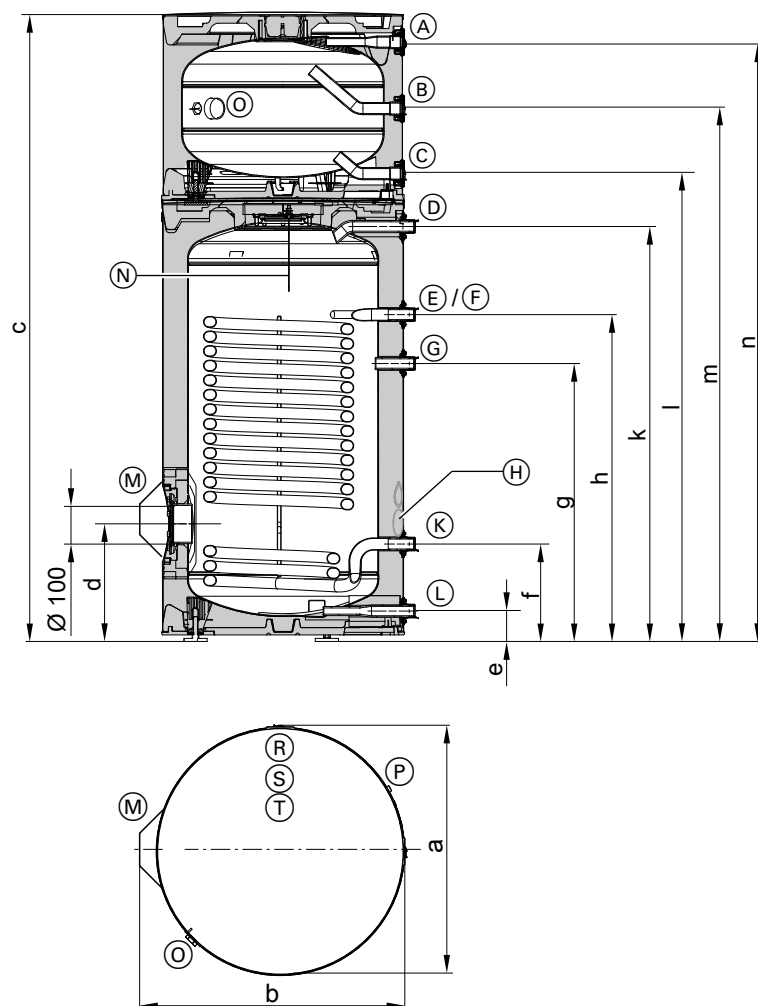
Possible combinations

Vitocell 100-E	Vitocell 100-V		
	200 l	250 l	300 l
50 l	X	X	X
75 l	X	X	X

Note

- If installing the Vitocell 100-E, type MSCA on top of the Vitocell 100-V, type CVWC, you will need an additional 25 mm of room height.
- The connections for the Vitocell 100-E, type MSCA heating water buffer cylinder can be rotated (360°) to position them as required.

Cylinder capacity, type CVWC 200 l and type MSCA 50 l/75 l



- | | |
|---|--|
| (A) Heating water flow, heating circuits, air vent valve | (L) Cold water/drain outlet |
| (B) Heating water return, heat generator 2 | (M) Inspection and cleaning aperture with flange cover, also for installation of an immersion heater |
| (C) Heating water return, heating circuits | (N) Impressed current anode |
| (D) DHW | (O) Only for 75 l cylinder capacity: Immersion heater (EHE) |
| (E) Heating water flow, heat generator | (P) Position of electronic unit for impressed current anode |
| (F) Sensor well for cylinder temperature sensor or temperature controller (Ø 16 mm) | (R) Heating water flow, heat generator 2 |
| (G) DHW circulation | (S) Heating water flow, heat generator |
| (H) Injection process plug: Do not connect anything here! | (T) Heating water return, heat generator, drain |
| (K) Heating water return, heat generator | |

Vitocell Modular 100-VE – overview (cont.)

Dimensions

Cylinder capacity, Vitocell 100-V, type CVWC		I	200	
Cylinder capacity, Vitocell 100-E, type MSCA		I	50	75
Length (Ø)	a	mm	668	668
Width	b	mm	714	714
Height	c	mm	1610	1728
	d	mm	323	323
	e	mm	763	763
	f	mm	898	898
	g	mm	268	268
	h	mm	83	83
	k	mm	361	361
	l	mm	1278	1277
	m	mm	—	1457
	n	mm	1526	1641

Cylinder capacity, type CVWC 250 I/300 I and type MSCA 50 I/75 I

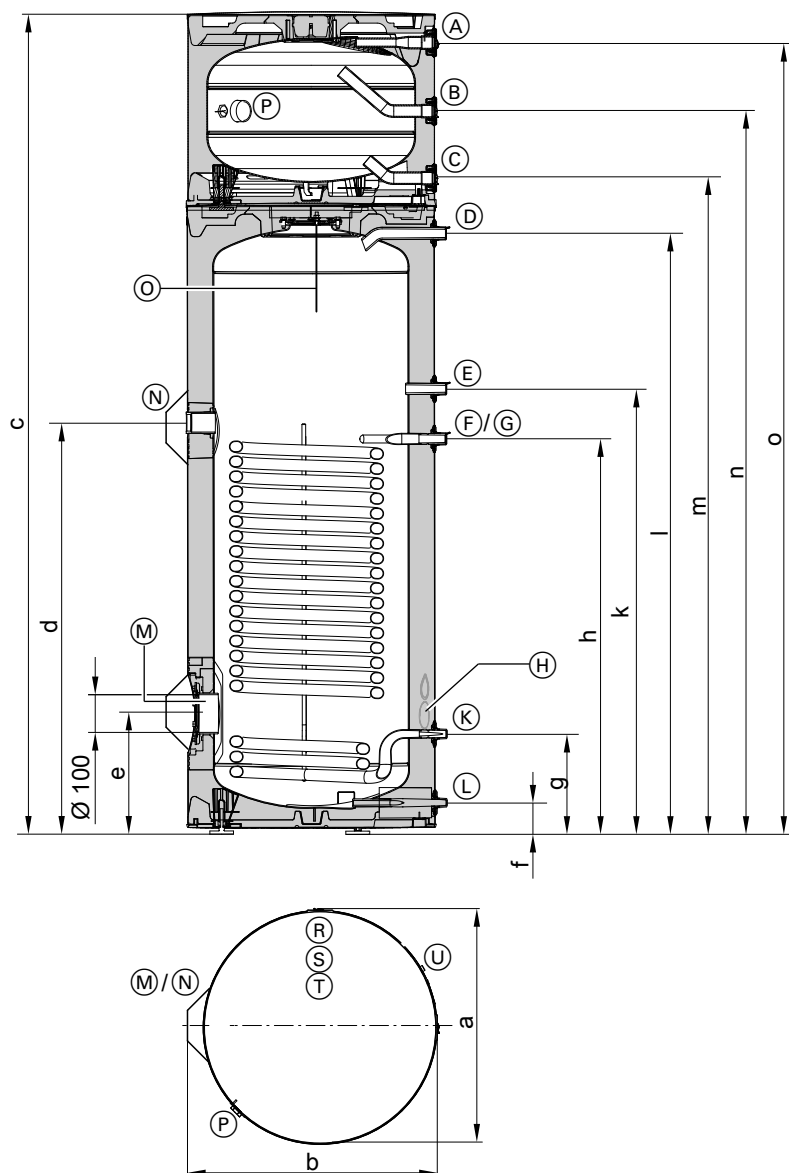


Illustration of type CVWC 300 I and type MSCA 75 I

6226257
 (A) Heating water flow, heating circuits, air vent valve
 (B) Heating water return, heat generator 2

(C) Heating water return, heating circuits
 (D) DHW

Vitocell Modular 100-VE – overview (cont.)

- | | |
|--|--|
| Ⓔ DHW circulation | Ⓐ Female connection for immersion heater |
| Ⓕ Sensor well for cylinder temperature sensor or temperature controller (Ø 16 mm) | Ⓞ Impressed current anode |
| Ⓖ Heating water flow, heat generator | Ⓟ Only for 75 l cylinder capacity:
Immersion heater (EHE) |
| Ⓗ Injection process plug: Do not connect anything here! | Ⓡ Heating water flow, heat generator 2 |
| Ⓚ Heating water return, heat generator | Ⓢ Heating water flow, heat generator |
| Ⓛ Cold water/drain outlet | Ⓣ Heating water return, heat generator, drain |
| Ⓜ Inspection and cleaning aperture with flange cover, also for installation of an immersion heater | Ⓤ Position of electronic unit for impressed current anode |

Dimensions

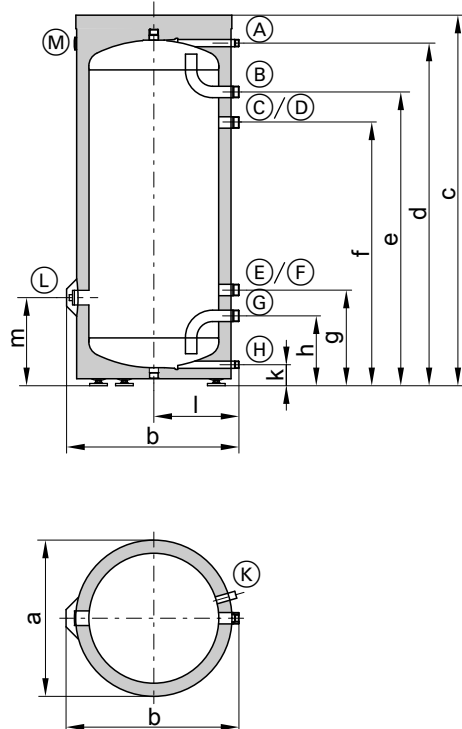
Cylinder capacity, Vitocell 100-V, type CVWC		I	250		300	
Cylinder capacity, Vitocell 100-E, type MSCA		I	50	75	50	75
Length (Ø)	a	mm	668	668	668	668
Width	b	mm	714	714	714	714
Height	c	mm	1811	1929	2078	2196
	d	mm	1022	1022	1101	1101
	e	mm	323	323	323	323
	f	mm	83	83	83	83
	g	mm	268	268	267	267
	h	mm	978	978	1057	1057
	k	mm	1085	1085	1191	1191
	l	mm	1345	1345	1607	1607
	m	mm	1488	1488	1754	1754
	n	mm	—	1667	—	1934
	o	mm	1736	1851	2002	2118

Specification for type SVWA, 200 I

Sizing entry points

The actual dimensions of the DHW cylinder may vary slightly due to manufacturing tolerances.

Dimensions



- (A) Air vent valve
- (B) Heating water flow 1
- (C) Heating water flow 2
- (D) Clamping device 1 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors
- (E) Heating water return 2
- (F) Clamping device 2 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors
- (G) Heating water return 1
- (H) Drain
- (K) Clamping devices for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors
- (L) Female connection Rp 1 1/2 for immersion heater EHE
- (M) Thermometer

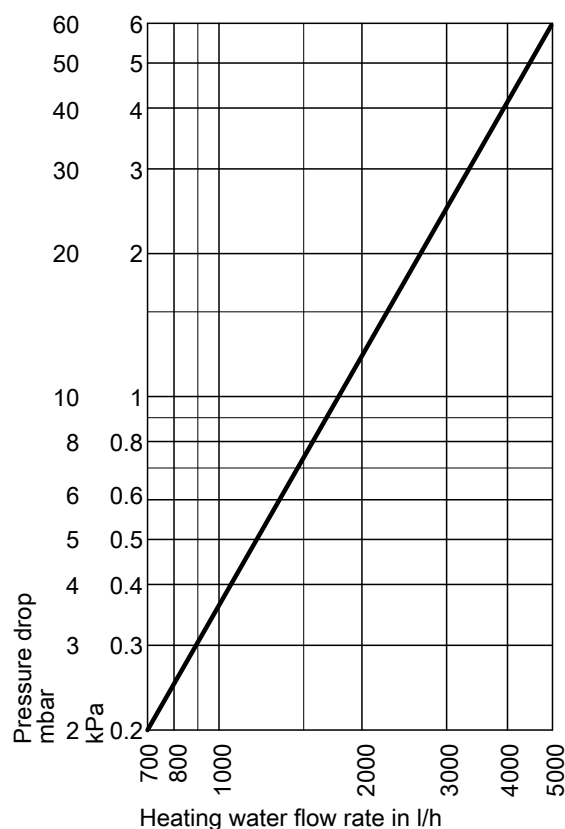
Dimensions

Cylinder capacity	I	200
Length (Ø)	a	mm
Width	b	mm
Height	c	mm
	d	mm
	e	mm
	f	mm
	g	mm
	h	mm
	k	mm
	l	mm
	m	mm

Specification

Type	SVWA
Cylinder capacity (AT: Actual water capacity)	200
Permissible heating water flow temperature	110
Permissible operating pressure on the heating water side	3 bar 0.3 MPa
Dimensions	
Length a (Ø)	mm
Width b	mm
Height c	mm
Height when tilted	mm
Weight (incl. thermal insulation)	kg
Connections (male thread)	
Heating water flow and return	R
Drain/air vent valve	R
Standby heat loss	kWh/24 h
Energy efficiency class	B
Colour	Vitosilver Vitopearlwhite

Pressure drop on the heating water side



Specification for type SVWA, 200 l (cont.)

Vitocell 100-V, type SVWA with immersion heater EHE

Part no. Z014468

- With high limit safety cut-out and temperature controller
- Only for use with soft to medium hard drinking water up to 14 °dH (average hardness level up to 2.5 mol/m³)

Specification for immersion heater EHE in conjunction with Vitocell 100-E, type SVWA

Cylinder capacity	l	200
Content that can be heated by the immersion heater	l	163
Width incl. immersion heater EHE	mm	773
Minimum wall clearance for installation of the immersion heater EHE	mm	650
Heat-up time from 10 to 60 °C		
– 2 kW	h	4.7
– 4 kW	h	2.4
– 6 kW	h	1.6

Specification – immersion heater EHE

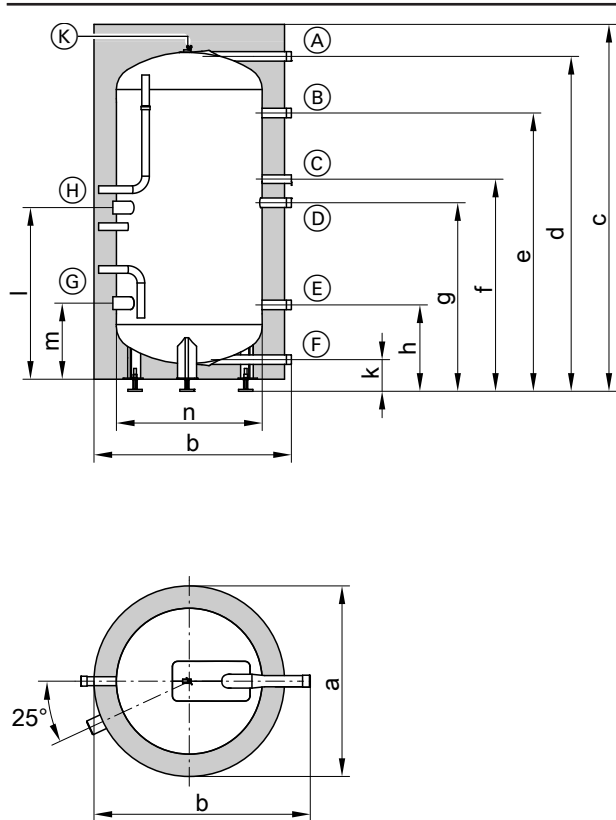
Max. output range	kW	6		
Rated consumption stand-ard mode/quick heat-up	kW	2	4	6
Rated voltage		1/N/PE 230 V/ 50 Hz		3/PE 400 V/ 50 Hz
Rated current	A	8.7	17.4	8.7
Weight	kg	2		
IP rating		IP 45		

Specification for type SVPB, 400 I

Sizing entry points

The actual dimensions of the DHW cylinder may vary slightly due to manufacturing tolerances.

Dimensions



- (A) Heating water flow 1 and air vent valve
- (B) Heating water flow 2 and clamping device 1 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- (C) Heating water flow 3, heating water return 1 and clamping device 2 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- (D) Heating water flow 3, heating water return 1 and clamping device 3 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- (E) Heating water return 2 and clamping device 4 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- (F) Heating water return 3 and drain
- (G) Sleeve for immersion heater EHE 2
- (H) Sleeve for immersion heater EHE 1
- (K) Retainer for thermometer sensor or additional sensors (clamping bracket)

Dimensions

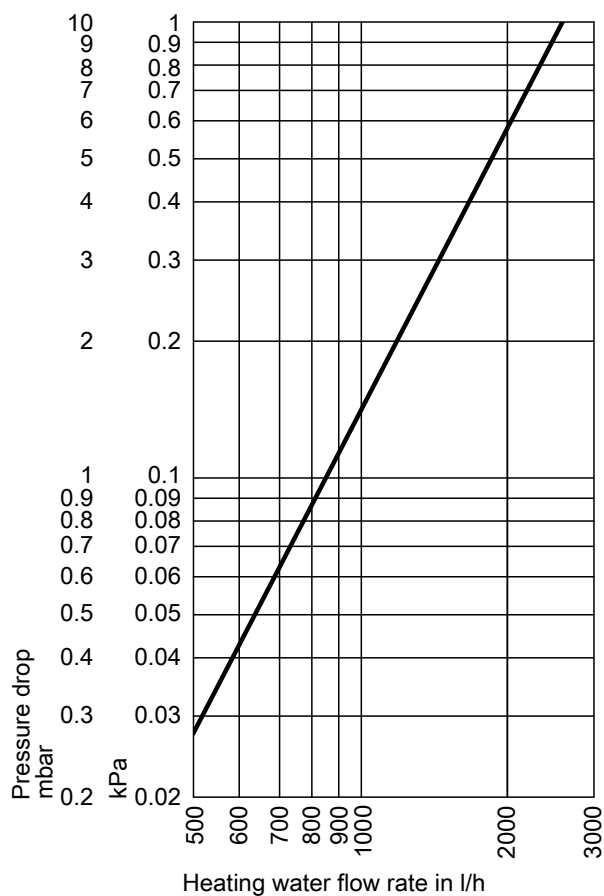
Type	SVPB	
Cylinder capacity	400	
Thermal insulation		
– Standard	X	
– High efficiency		X
Length (Ø)	a mm	860
Width	b mm	900
Height	c mm	1620
	d mm	1457
	e mm	1205
	f mm	946
	g mm	805
	h mm	370
	k mm	106
	l mm	783
	m mm	357
Length (Ø) excl. thermal insulation	n mm	650

Specification

Type	SVPB	
Cylinder capacity	400	
(AT: Actual water capacity)		
Thermal insulation		
– Standard	X	
– High efficiency		X
Permissible heating water flow temperature	°C	110
Permissible operating pressure on the heating water side	bar MPa	6 0.6
Dimensions		
Length a (Ø)		
– Incl. thermal insulation	mm	860
– Excl. thermal insulation	mm	650
Width b (Ø)	mm	900
– Excl. thermal insulation	mm	862
Height c		
– Incl. thermal insulation	mm	1620
– Excl. thermal insulation	mm	1500
Height when tilted excl. thermal insulation and adjustable feet	mm	1520
Weight		
– Incl. thermal insulation	kg	105
– Excl. thermal insulation	kg	85
Connections (male thread)		
Heating water flow and return	R	1¼
Standby heat loss	kWh/24 h	2.08
Energy efficiency class		
	C	B
Colour		
– Vitographite	X	X
– Vitosilver	X	X
– Vitopearlwhite	X	X

Specification for type SVPB, 400 I (cont.)

Pressure drop on the heating water side



Vitocell 100-E, type SVPB with immersion heater EHE

- With high limit safety cut-out and temperature controller
- Only for use with soft to medium hard drinking water up to 14 °dH (average hardness level up to 2.5 mol/m³)

Output range	Part no.
2/4/6 kW	Z012684
4/8/12 kW	Z012687

Specification – immersion heater EHE

Specification immersion heater line							
Max. output range	kW	6			12		
Rated consumption standard mode/quick heat-up	kW	2	4	6	4	8	12
Rated voltage		1/N/PE 230 V/50 Hz		3/PE 400 V/50 Hz	2/PE 400 V/50 Hz		3/PE 400 V/50 Hz
Rated current	A	8.7	17.4	8.7	10	20	17.3
Weight	kg	2			2		
IP rating		IP 45					

Specification for type SVPB, 400 I (cont.)

Specification for immersion heater EHE in conjunction with Vitocell 100-E standard and high efficiency thermal insulation

Type		SVPB
Cylinder capacity	I	400
Minimum wall clearance for installation of immersion heater EHE		
2/4/6 kW	mm	650
4/8/12 kW	mm	950
Content that can be heated by the immersion heater EHE at the top	I	182
Heat-up time from 10 to 60 °C with immersion heater EHE at the top		
2 kW	h	5.3
4 kW	h	2.6
6 kW	h	1.8
Heat-up time from 10 to 60 °C with immersion heater EHE at the top		
4 kW	h	—
8 kW	h	—
12 kW	h	—
Content that can be heated by the immersion heater EHE at the bottom	I	348
Heat-up time from 10 to 60 °C with immersion heater EHE at the top		
2 kW	h	10.1
4 kW	h	5.1
6 kW	h	3.4
Heat-up time from 10 to 60 °C with immersion heater EHE at the top		
4 kW	h	—
8 kW	h	—
12 kW	h	—

Specification for type SVPC, 600, 750 and 910 I

Sizing entry points

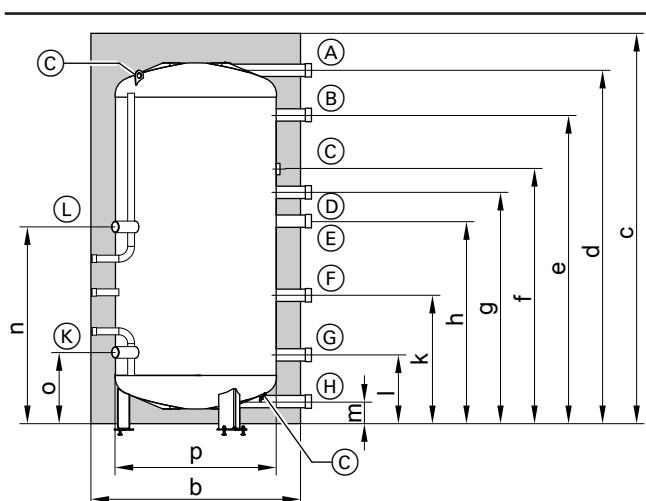
The actual dimensions of the DHW cylinder may vary slightly due to manufacturing tolerances.

Specification

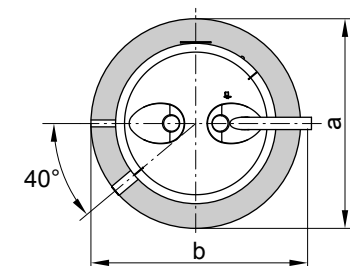
Type		SVPC					
Cylinder capacity (AT: Actual water capacity)		600		750		910	
Thermal insulation							
– Standard		X		X		X	
– High efficiency			X		X		X
Permissible heating water flow temperature	°C	110	110	110	110	110	110
Permissible operating pressure on the heating water side	bar	6	6	6	6	6	6
	MPa	0.6	0.6	0.6	0.6	0.6	0.6
Dimensions							
Length a (∅)							
– Incl. thermal insulation	mm	1065	1065	1065	1065	1065	1065
– Excl. thermal insulation	mm	790	790	790	790	790	790
Width b							
– Incl. thermal insulation	mm	1110	1110	1110	1110	1110	1110
– Excl. thermal insulation	mm	1042	1042	1042	1042	1042	1042
Height c							
– Incl. thermal insulation	mm	1645	1720	1900	1970	2200	2280
– Excl. thermal insulation	mm	1535	1535	1815	1815	2120	2120
Height when tilted							
– Excl. thermal insulation and adjustable feet	mm	1630	1630	1890	1890	2195	2195
Weight							
– Incl. thermal insulation	kg	115	120	135	140	155	160
– Excl. thermal insulation	kg	95	95	110	110	125	125
Connections (male thread)							
Heating water flow and return	R	2	2	2	2	2	2
Standby heat loss	kWh/24 h	2.68	2.12	2.74	2.23	2.81	2.4
Energy efficiency class		—	—	—	—	—	—
Colour							
– Vitographite		X	X	X	X	X	X
– Vitosilver		X		X		X	
– Vitopearlwhite		X	X	X	X	X	X

Specification for type SVPC, 600, 750 and 910 I (cont.)

Dimensions



- Ⓒ Retainer for thermometer sensor or additional sensors (clamping bracket)
- Ⓓ Heating water flow 3, heating water return 1 and clamping device 2 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- Ⓔ Heating water flow 3, heating water return 1 and clamping device 3 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- Ⓕ Heating water return 2 and clamping device 4 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- Ⓖ Heating water return 3 and clamping device 5 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- Ⓗ Heating water return 4 and drain
- Ⓚ Sleeve for immersion heater EHE 2
- Ⓛ Sleeve for immersion heater EHE 1



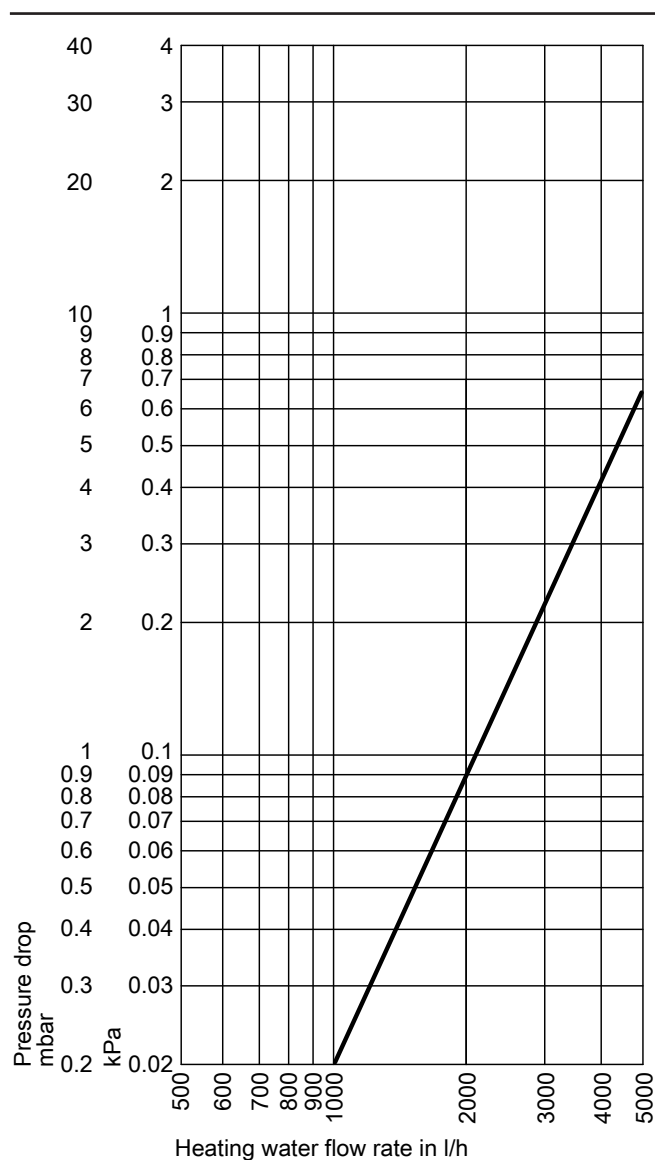
- Ⓐ Heating water flow 1 and air vent valve
- Ⓑ Heating water flow 2 and clamping device 1 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device

Dimensions

Type			SVPC					
Cylinder capacity			600		750		910	
(AT: Actual water capacity)								
Thermal insulation								
– Standard			X		X		X	
– High efficiency					X			
Length (∅)	a	mm	1065	1065	1065	1065	1065	1065
Width	b	mm	1110	1110	1110	1110	1110	1110
Height	c	mm	1645	1720	1900	1970	2200	2280
	d	mm	1497	1497	1777	1777	2083	2083
	e	mm	1296	1296	1558	1558	1863	1863
	f	mm	1012	1012	1306	1306	1532	1532
	g	mm	926	926	1179	1179	1299	1299
	h	mm	785	785	1038	1038	1159	1159
	k	mm	596	596	675	675	751	751
	l	mm	355	355	383	383	383	383
	m	mm	155	155	155	155	155	155
	n	mm	930	930	1001	1001	1135	1135
	o	mm	395	395	395	395	395	395
Length (∅) excl. thermal insulation	p	mm	790	790	790	790	790	790

Specification for type SVPC, 600, 750 and 910 I (cont.)

Pressure drop on the heating water side



Vitocell 100-E, type SVPC with immersion heater EHE

- With high limit safety cut-out and temperature controller
- Only for use with soft to medium hard drinking water up to 14 °dH (average hardness level up to 2.5 mol/m³)

Output range	Part no.
2/4/6 kW	Z012684
4/8/12 kW	Z012687

Specification – immersion heater EHE

Max. output range	kW	6			12		
Rated consumption	kW	2	4	6	4	8	12
Standard mode/quick heat-up							
Rated voltage		1/N/PE 230 V/50 Hz		3/PE 400 V/50 Hz	2/PE 400 V/50 Hz		3/PE 400 V/50 Hz
Rated current	A	8.7	17.4	8.7	10	20	17.3
Weight	kg	2			2		
IP rating		IP 45					

Specification for type SVPC, 600, 750 and 910 I (cont.)

Specification for immersion heater EHE in conjunction with Vitocell 100-E standard and high efficiency thermal insulation

Type		SVPC		
Cylinder capacity	I	600	750	910
Minimum wall clearance for installation of immersion heater EHE				
2/4/6 kW	mm	650	650	650
4/8/12 kW	mm	950	950	950
Content that can be heated by the immersion heater EHE at the top	I	265	346	435
Heat-up time from 10 to 60 °C with immersion heater EHE at the top				
2 kW	h	7.7	10.1	12.6
4 kW	h	3.9	5.0	6.3
6 kW	h	2.6	3.4	4.2
Heat-up time from 10 to 60 °C with immersion heater EHE at the top				
4 kW	h	3.9	5.0	6.3
8 kW	h	1.9	2.5	3.2
12 kW	h	1.3	1.7	2.1
Content that can be heated by the immersion heater EHE at the bottom	I	523	625	770
Heat-up time from 10 to 60 °C with immersion heater EHE at the bottom				
2 kW	h	15.2	18.2	22.4
4 kW	h	7.6	9.1	11.2
6 kW	h	5.1	6.1	7.5
Heat-up time from 10 to 60 °C with immersion heater EHE at the bottom				
4 kW	h	7.6	9.1	11.2
8 kW	h	3.8	4.5	5.6
12 kW	h	2.5	3.0	3.7

Specification for type SVPB, 1500 and 2000 I

Sizing entry points

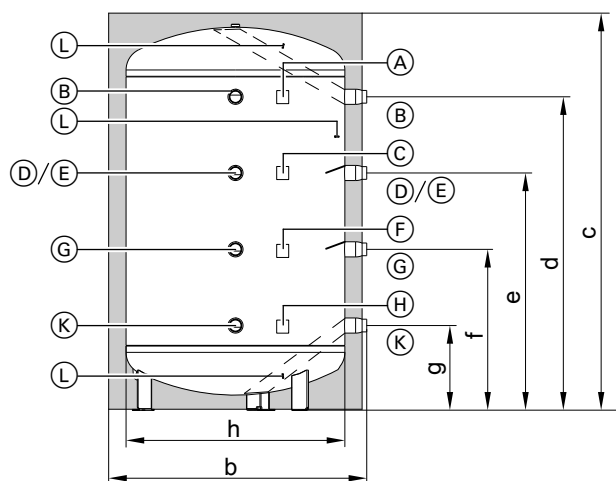
The actual dimensions of the DHW cylinder may vary slightly due to manufacturing tolerances.

Specification

Type		SVPB			
Cylinder capacity (AT: Actual water capacity)	l	1500		2000	
Thermal insulation		Standard (2-part)	Highly efficient (3-part)	Standard (2-part)	Highly efficient (3-part)
Permissible heating water flow temperature	°C	110	110	110	110
Permissible operating pressure on the heating water side	bar MPa	6 0.6	6 0.6	6 0.6	6 0.6
Dimensions					
Length a (Ø)					
– Incl. thermal insulation	mm	1310	1400	1310	1400
– Excl. thermal insulation	mm	1100	1100	1100	1100
Width b					
– Incl. thermal insulation	mm	1385	1430	1385	1430
– Excl. thermal insulation	mm	1280	1280	1280	1280
Height c					
– Incl. thermal insulation	mm	2051	2096	2479	2546
– Excl. thermal insulation	mm	1939	1939	2378	2378
Height when tilted excl. thermal insulation and adjustable feet	mm	1967	1967	2402	2402
Weight					
– Incl. thermal insulation	kg	217	224	253	265
– Excl. thermal insulation	kg	170	170	201	201
Connections (male thread)					
Air vent valve	R	1	1	1	1
Heating water flow and return	R/G	2	2	2	2
Standby heat loss	kWh/24 h	3.7	2.9	4.55	3.2
Colour		Vitographite			

Specification for type SVPB, 1500 and 2000 I (cont.)

Dimensions



- Ⓒ Clamping device 2 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- Ⓓ Heating water flow 2 (2 on each level)
- Ⓔ Heating water return 1 (2 on each level)
- Ⓕ Clamping device 3 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- Ⓖ Heating water return 2 (2 on each level)
- Ⓗ Clamping device 4 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- Ⓚ Heating water return 3 (2 on each level)
- Ⓛ Retainer for thermometer sensor or additional sensor (clamping bracket)

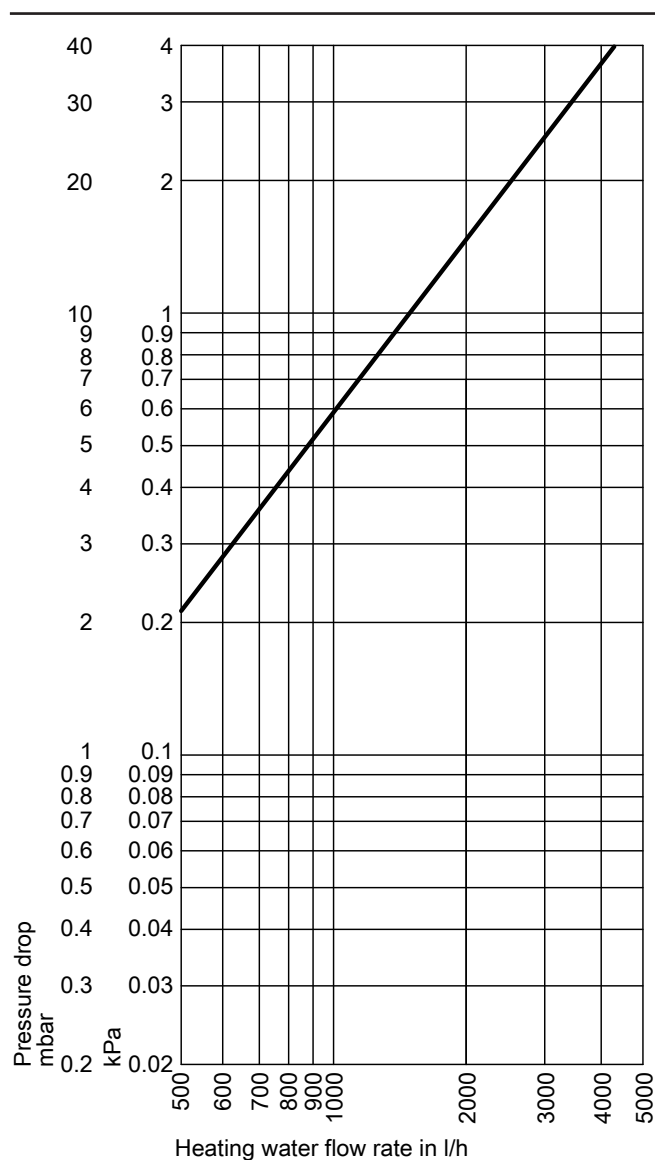
- Ⓐ Clamping device 1 for securing immersion temperature sensors to the cylinder jacket, with fixing points for 3 immersion temperature sensors per clamping device
- Ⓑ Heating water flow 1 (2 on each level)

Dimensions

Cylinder capacity			1500		2000	
Thermal insulation			Standard (2-part)	Highly efficient (3-part)	Standard (2-part)	Highly efficient (3-part)
Length (∅)	a	mm	1310	1400	1310	1400
Width	b	mm	1385	1430	1385	1430
Height	c	mm	2051	2096	2479	2546
	d	mm	1513	1513	1953	1953
	e	mm	1165	1165	1460	1460
	f	mm	816	816	962	962
	g	mm	468	468	467	467
∅ excl. thermal insulation	h	mm	1100	1100	1100	1100

Specification for type SVPB, 1500 and 2000 I (cont.)

Pressure drop on the heating water side

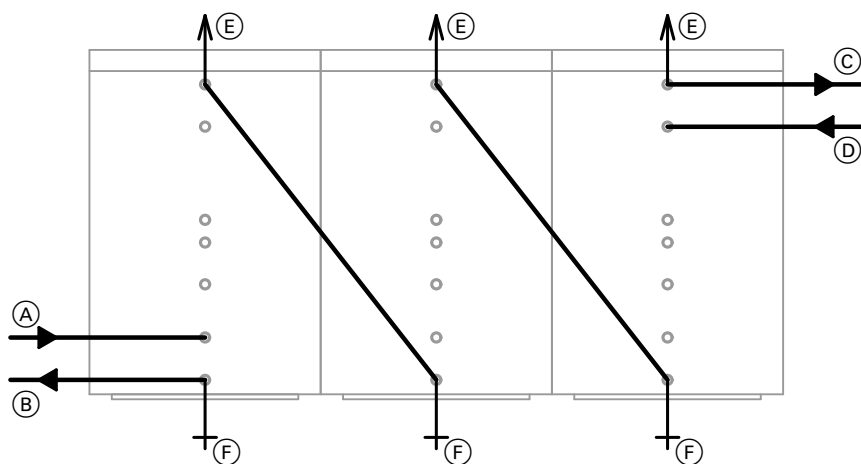


Design information

Cylinder bank

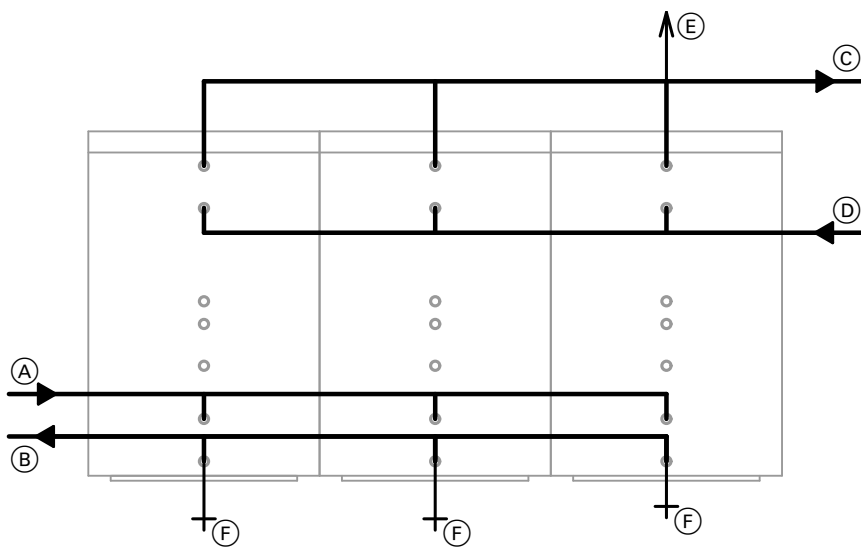
Any number of Vitocell 100-E heating water buffer cylinders can be connected in series or in parallel. The connection pipes and air vent valves are to be provided on site (shown: Type SVPC 600/750/910 I).

Design information (cont.)



Cylinder bank connected in series

- | | |
|---|---|
| (A) Heating water return 3 (HR3, from the heating circuits) | (D) Heating water flow 2 (HV2, from the heat generator) |
| (B) Heating water return 4 (HR4, to the heat generator) | (E) Air vent valve (EL) |
| (C) Heating water flow 1 (HV1, to the heating circuits) | (F) Drain outlet (E) |

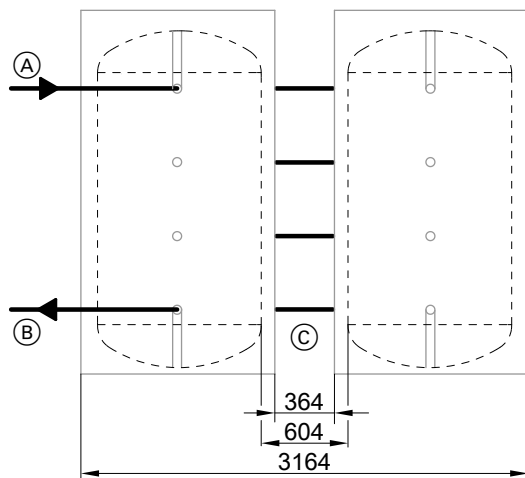


Cylinder bank connected in parallel (Tichelmann principle)

- | | |
|---|---|
| (A) Heating water return 3 (HR3, from the heating circuits) | (D) Heating water flow 2 (HV2, from the heat generator) |
| (B) Heating water return 4 (HR4, to the heat generator) | (E) Air vent valve (EL) |
| (C) Heating water flow 1 (HV1, to the heating circuits) | (F) Drain outlet (E) |

Design information (cont.)

Twin cylinder



- (A) Heating water flow
- (B) Heating water return
- (C) Prefabricated connection pipes ("cascade connector", accessories)

Vitocell 100-E, type SVPB, 1500 and 2000 l capacity can be combined by means of cascade connectors (accessories) to form a twin cylinder (max. 2 cylinders).
When assembling a twin cylinder, use the 3-part thermal insulation for ease of installation.

Intended use

The appliance is intended to be installed and operated only in sealed unvented systems that comply with EN 12828 / DIN 1988, or solar thermal systems that comply with EN 12977, with due attention paid to the associated installation, service and operating instructions. DHW cylinders are designed to store and heat only water of potable quality. Heating water buffer cylinders are designed to hold only water of potable quality.

If using the Vitotrans 353: The Vitotrans 353 is intended exclusively for potable water quality according to our specifications in the Viessmann brochure "TopTechnik Vitotrans 353 freshwater modules".

Operate solar collectors only with heat transfer medium approved by the manufacturer.

Intended use presupposes that a fixed installation in conjunction with permissible, system-specific components has been carried out.

Commercial or industrial usage for purposes other than heating a building or DHW shall be deemed inappropriate.

Any usage beyond this must be approved by the manufacturer in each individual case.

Incorrect usage or operation of the appliance (e.g. the appliance being opened by the system user) is prohibited and results in an exclusion of liability.

Incorrect usage also applies if the components in the system are modified from their intended use (e.g. through direct DHW heating in the collector).

Adhere to statutory regulations, especially concerning the hygiene of potable water.

Accessories

Overview

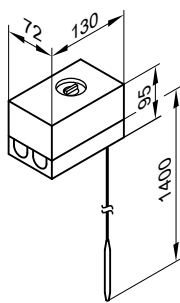
Accessories	Part no.	SVP/ SVPA 46 l	MSCA		Vitocal 100-E, type					Page
			50 l	75 l	SVWA 200 l	SVPB 400 l	SVPC		SVPB 1500, 2000 l	
Temperature controller	7151989		X	X	X	X	X	X	X	
Cascade connector	ZK01322								X	
Thermometer										
– Analogue	7595765 ZK01323					X	X	X	X	
– Digital	ZK05265		X	X	X					
Thermal insulation caps	ZK01545						X	X	X	
Automatic air vent valve	7984135		X	X						
Transport aid	ZK01793					X	X	X	X	
Immersion heater EHE	Z012684			X	X	X	X	X		Type MSCA: Type SVWA:
Vitotrans 353										
– Type PZSA	Z021868 Z021866					X	X	X		
– Type PZMA	Z021867						X	X		
– Type PZMA-S	Z021871						X	X		
Heat meter	ZK02916					X	X	X		
Sampling valve	ZK02909					X	X	X		

Temperature controller

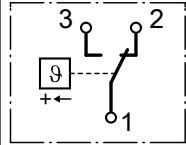
Part no. 7151989

For installation in cylinders with 200 to 2000 l capacity

- With a thermostatic system
- With selector on the outside of the casing
- Without sensor well
- With top-hat rail to be fitted to the DHW cylinder or the wall



Specification

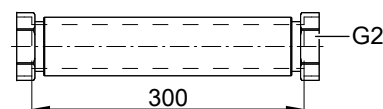
Connection	3-core lead with a cross-section of 1.5 mm ²
IP rating	IP 41 to EN 60529
Setting range	30 to 60 °C, adjustable up to 110 °C
Switching differential	Max. 11 K
Breaking capacity	6 (1.5) A 250 V~
Switching function	With rising temperature from 2 to 3 
DIN registration number	DIN TR 1168

Cascade connectors

Part no. ZK01322

- For heating water buffer cylinders with capacity 1500 l and 2000 l
- 4 pce

Prefabricated and thermally insulated stainless steel corrugated connection pipe for easy assembly of a twin cylinder consisting of 2 heating water buffer cylinders



Thermometer, analogue

To be fitted in the thermal insulation

- **Part no. 7595765**
Cylinder capacity: 750 and 910 l
- **Part no. ZK01323**
Cylinder capacity: 1500 and 2000 l

Note

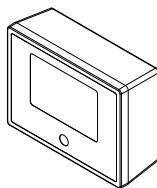
Up to 4 thermometers can be fitted to check the temperature profile in the cylinder (e.g. in conjunction with solid fuel boilers).

Accessories (cont.)

Thermometer, digital

Part no. ZK05265

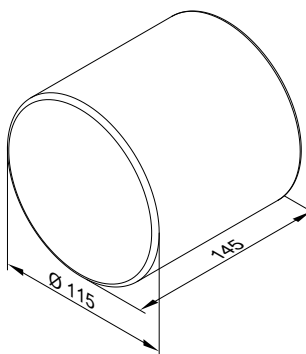
- For wall mounting
- Digital display of two temperatures



Thermal insulation caps

Part no. ZK01545

- 6 pce
- For unused cylinder connections R 2



Automatic air vent valve

Part no. 7984135

- For Vitocell 100-E, type MSCA
- For installation on one of the cylinder connections
- With 1 in. tee

Transport aid

Part no. ZK01793

For easier handling of vertical DHW cylinders.

- For cylinder capacity 400 to 2000 litres
- For DHW cylinders with removable thermal insulation



Vitotrans 353

For cylinders from 400 to 910 l capacity

Freshwater module with DHW circulation pump

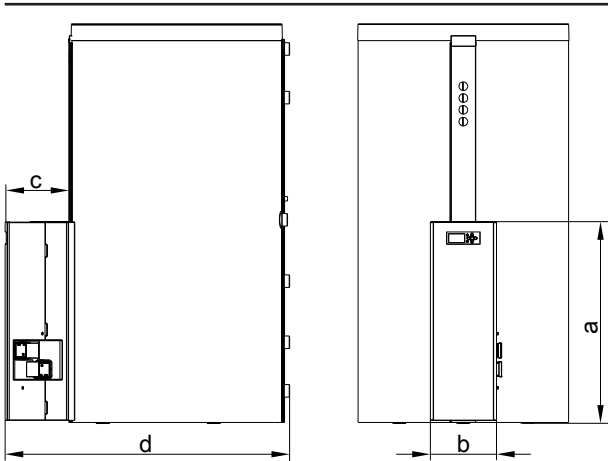
Part no.	Z021868	Z021866	Z021867	Z021871
Type	PZSA	PZSA	PZMA	PZMA-S
Cylinder capacity	400 l	600, 750, 910 l	600, 750, 910 l	600, 750, 910 l

Compact and fully pre-assembled module for installation on cylinders, for convenient DHW heating using the instantaneous water heating principle:

- With integral, pre-wired and preset control unit for setting the required DHW temperature
- With large, highly efficient plate heat exchanger for a low return temperature
- With return distribution set for temperature-dependent stratification of the return in the heating water buffer cylinder by means of a temperature control function
- With flow rate transducer for exact flow measurement in the DHW circuit
- With variable speed high efficiency circulation pump for the primary and secondary circuits

- With shut-off valves with integral non-return valve
- With pre-assembled mounting panel, pipework and connection pieces for connecting to the cylinder

Accessories (cont.)



Type		PZSA	PZSA	PZMA/PZMA-S
Cylinder capacity	l	400	600, 750, 910	600, 750, 910
a	mm	960	960	960
b	mm	250	250	250
c	mm	346	346	346
d	mm	1247	1457	1457
Weight Vitotrans 353	kg	24	24	31
Draw-off rate	l/min	25	25	48

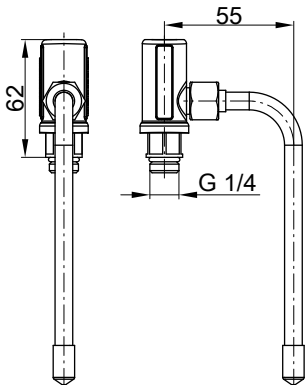
Note
 For detailed information, see the "Vitotrans 353" datasheet.

Heat meter

- Part no. ZK02916**
- Measurement of the heating water flow temperature, heating water return temperature and flow rate (primary side)
 - With display showing the heating output, energy amounts, cumulative consumption, etc.
 - For installation in the Vitotrans 353, type PZSA and PZMA/PZMA-S

Sampling valve

- Part no. ZK02909**
- Heat-resistant valve for taking water samples in line with the Drinking Water Ordinance [Germany]
 - For installation in the Vitotrans 353, type PBMA/PBMA-S, PBLA/PBLA-S and PZMA/PZMA-S



Subject to technical modifications.

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