

Vitocell 300-B
Type EVBA-A
DHW cylinder, 300 and 500 l
Vitocell 300-V/W
Type EVIA-A
DHW cylinder, 160 to 500 l

VITOCCELL 300-B **VITOCCELL 300-V/W**



Safety instructions



Please follow these safety instructions closely to prevent accidents and material losses.

Safety instructions explained



Danger

This symbol warns against the risk of injury.

Note

Details identified by the word "Note" contain additional information.



Please note

This symbol warns against the risk of material losses and environmental pollution.

Target group

These instructions are exclusively intended for qualified contractors.

- Work on electrical equipment may only be carried out by a qualified electrician.
- The system must be commissioned by the system installer or a qualified person authorised by the installer.

Regulations to be observed

- National installation regulations
- Statutory regulations for the prevention of accidents
- Statutory regulations for environmental protection
- Codes of practice of the relevant trade associations
- Relevant country-specific safety regulations

Working on the system

- Isolate the system from the power supply (e.g. by removing the separate fuse or by means of a mains isolator) and check that it is no longer live.
- Safeguard the system against reconnection.



Danger

Hot surfaces can cause burns.

- Before maintenance and service work, switch OFF the appliance and let it cool down.
- Never touch the hot surfaces of uninsulated pipes and fittings.



Please note

Electronic assemblies can be damaged by electrostatic discharge. Prior to commencing any work, touch earthed objects such as heating or water pipes to discharge static loads.

Safety instructions (cont.)**Danger**

Floors that are wet or damp with water or glycol based liquids can cause injury due to slipping and falling.

- Keep the floor clean and dry during installation and maintenance work.
- Wear non-slip shoes.

**Danger**

Broken-off fragments of insulation material can cause death by suffocation if inhaled or swallowed.

- Do not let children play in the installation room.
- Keep the installation room clean after installation and maintenance work.

Repair work**Please note**

Repairing components that fulfil a safety function can compromise the safe operation of the system. Replace faulty components only with genuine Viessmann spare parts.










Auxiliary components, spare and wearing parts**Please note**

Spare and wearing parts that have not been tested together with the system can compromise its function. Installing non-authorised components and making non-approved modifications or conversions can compromise safety and may invalidate our warranty. For replacements, use only original spare parts supplied or approved by Viessmann.







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Symbols

Symbol	Meaning
	Reference to other document containing further information
	Step in a diagram: The numbers correspond to the order in which the steps are carried out.
	Warning of material losses and environmental pollution
	Live electrical area
	Pay particular attention.
	<ul style="list-style-type: none"> Component must audibly click into place. or Acoustic signal
	<ul style="list-style-type: none"> Fit new component. or In conjunction with a tool: Clean the surface.
	Dispose of component correctly.
	Dispose of component at a suitable collection point. Do not dispose of component in domestic waste.

The steps in connection with commissioning, inspection and maintenance are found in the "Commissioning, inspection and maintenance" section and identified as follows:

Symbol	Meaning
	Steps required during commissioning
	Not required during commissioning
	Steps required during inspection
	Not required during inspection
	Steps required during maintenance
	Not required during maintenance

Intended use

The appliance is only intended to be installed and operated 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 only designed to store and heat water of potable water quality. Heating water buffer cylinders are only designed to hold fill water of potable water quality. Only operate solar collectors with the 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 a purpose other than heating the building or DHW shall be deemed inappropriate.

Any usage beyond this must be approved by the manufacturer for the 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 occurs 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.

Product information

Vitocell 300-B, type EVBA-A

Stainless steel DHW cylinder with internal indirect coil for DHW heating in conjunction with solar thermal systems, floorstanding and wall mounted boilers and/or heat pumps for dual mode operation.
Capacity: 300 and 500 l

Vitocell 300-B and Vitocell 300-V/W

- An immersion heater can be used for 300 and 500 l cylinder capacities.
- Suitable for systems to DIN 1988, EN 12 828 and DIN 4753

Vitocell 300-V/W, type EVIA-A

Stainless steel DHW cylinder with internal indirect coil for DHW heating in conjunction with floorstanding and wall mounted boilers.
Capacity: 160, 200, 300 and 500 l

Inspection and maintenance

DIN 1988 requires a visual inspection and (if necessary) cleaning no later than 2 years after the cylinder has been commissioned, and thereafter according to requirements.

System examples

Available system examples: See www.viessmann-schemes.com.

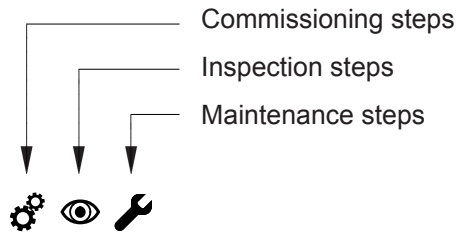
Spare parts lists

Information about spare parts can be found on the Viessmann spare parts app.





Steps - commissioning, inspection and maintenance



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Filling the DHW cylinder

1. Fill the DHW cylinder on the DHW side.

Note

If the DHW cylinder is pressurised, retighten the flange cover with a torque of 40 Nm.
The cylinder cap does **not** need to be retightened.

2. Check the fittings on the heating water and DHW sides for leaks and retighten if required.
3. Check the function of the safety valves according to the manufacturer's instructions.



Shutting down the system



Checking the sensor wells for leaks



Checking the safety valve function



Cleaning the inside of the DHW cylinder

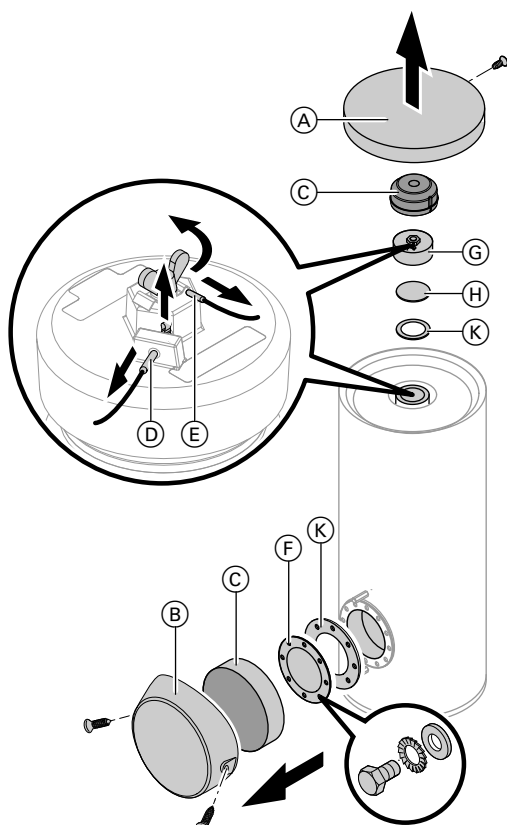


Fig. 1

1. Drain the DHW cylinder on the DHW side.
2. Remove top panel (A) and cover (B) (for 300 and 500 l).
3. Remove thermal insulation (C).
For 160 to 300 l: Flange insulation
For 500 l: Upper thermal insulation mat
4. Pull out thermometer sensor (D) (where installed), disconnecting the spring clip to do so.
5. Pull out high limit safety cut-out sensor (E), removing the clamping bracket with wing screw to do so.
6. Remove flange cover (F) (for 300 and 500 l) and cylinder cap (G) with stainless steel circular blank (H) and gaskets (K).
7. To prevent cleaning agents and contaminants entering the pipework, separate the DHW cylinder from the pipework.
8. Remove loose deposits with a high pressure cleaner.



Please note

Pointed or sharp cleaning tools will damage the cylinder interior.
Only use plastic tools to clean the inside.



Cleaning the inside of the DHW cylinder (cont.)

9. Use a chemical cleaning agent to remove hard deposits that cannot be removed with a high pressure cleaner.



Please note

Cleaning agents containing hydrochloric acid will attack the DHW cylinder material. Use cleaning agents suitable for stainless steel only.



Danger

Cleaning agent residues can result in **poisoning**.

Always observe the information provided by the cleaning agent manufacturer.

10. **Fully** drain all cleaning agent.
11. Flush the DHW cylinder **thoroughly** after cleaning.



Returning the DHW cylinder to use

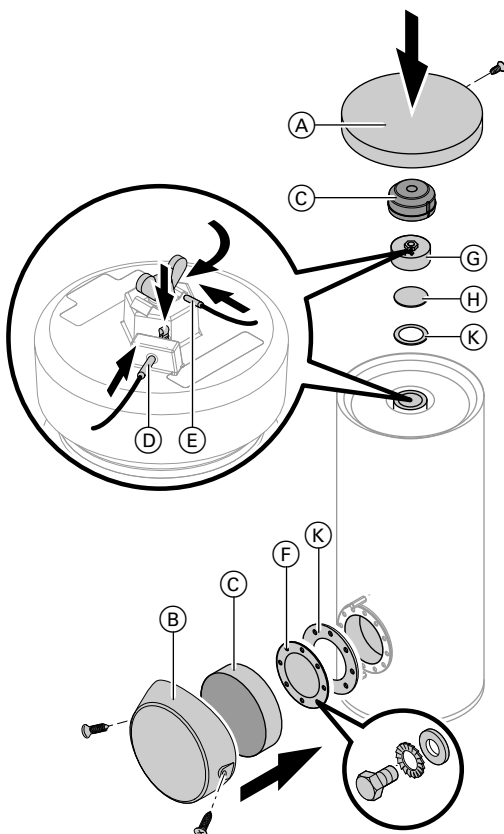


Fig. 2

1. Reconnect the DHW cylinder to the pipework.
2. Insert **new** gaskets (K) to flange cover (F) (for 300 and 500 l) and on cylinder cap (G).
3. Mount flange cover (F) (for 300 and 500 l) and cylinder cap (G) with stainless steel circular blank (H) and tighten to required torque.
 - Cylinder cap: 160 Nm
 - Flange cover: 40 Nm
4. Fill the DHW cylinder on the DHW side.
5. When the DHW cylinder is pressurised, retighten the screws on flange cover (F) to a torque of 40 Nm.
6. Mount thermometer sensor (D) (where installed) and high limit safety cut-out sensor (E), thermal insulation (C), cover (B), and top panel (A).



Checking connections and sensor wells for tightness on the water side

Commissioning/service reports

	Commissioning	Maintenance/service	Maintenance/service
Date:			
By:			

	Maintenance/service	Maintenance/service	Maintenance/service
Date:			
By:			

	Maintenance/service	Maintenance/service	Maintenance/service
Date:			
By:			

	Maintenance/service	Maintenance/service	Maintenance/service
Date:			
By:			

	Maintenance/service	Maintenance/service	Maintenance/service
Date:			
By:			

Specification

Vitocell 300-B, type EVBA-A

Cylinder capacity	I	300	500
DIN registration number		Applied for	
Standby heat loss	kWh/24 h	1.06	1.37
Dimensions			
Length a (Ø)			
▪ Incl. thermal insulation	mm	667	1022
▪ Excl. thermal insulation	mm	–	715
Width b			
▪ Incl. thermal insulation	mm	744	1084
▪ Excl. thermal insulation	mm	–	954
Height c			
▪ Incl. thermal insulation	mm	1734	1852
▪ Excl. thermal insulation	mm	–	1667
Height when tilted			
▪ Incl. thermal insulation	mm	1825	–
▪ Excl. thermal insulation	mm	–	1690
Weight incl. thermal insulation	kg	112.4	122.2
Connections (male thread)			
Indirect coils	G	1	1
Cold water, DHW	G	1	1¼
DHW circulation	G	1	1

Vitocell 300-V/W, type EVIA-A

Cylinder capacity	I	160	200	300	500
DIN registration number		Applied for			
Standby heat loss	kWh/24 h	0.90	0.91	1.06	1.37
Dimensions					
Length (Ø) a					
▪ Incl. thermal insulation	mm	581	581	667	1022
▪ Excl. thermal insulation	mm	–	–	–	715
Width b					
▪ Incl. thermal insulation	mm	605	605	744	1084
▪ Excl. thermal insulation	mm	–	–	–	954
Height d					
▪ Incl. thermal insulation	mm	1189	1409	1734	1852
▪ Excl. thermal insulation	mm	–	–	–	1667
Height when tilted					
▪ Incl. thermal insulation	mm	1260	1460	1825	–
▪ Excl. thermal insulation	mm	–	–	–	1690
Weight incl. thermal insulation	kg	59.3	70.0	104.5	110.1
Connections (male thread)					
Heating water flow and return	G	¾	¾	1	1
Cold water, DHW	G	¾	¾	1	1¼
DHW circulation	G	¾	¾	1	1

Specification

Specification (cont.)

Immersion heater

Rated output in standard mode/quick heat-up	kW	2	4	6
Only for use with soft to medium hard water up to 14 °dH (hardness level 2).				
Current type and rated voltage		3/N/400 V/50 Hz		
Rated current	A	8.7	17.4	8.7
Heat-up time from 10 to 60 °C				
Vitocell 300-B				
300 l	h	7.1	3.6	2.4
500 l	h	11.0	5.5	3.7
Vitocell 300-V/W				
300 l	h	7.3	3.6	2.4
500 l	h	11.4	5.7	3.8
Content that can be heated by the immersion heater				
Vitocell 300-B				
300 l	l		245	
500 l	l		379	
Vitocell 300-V/W				
300 l	l		256	
500 l	l		390	

Final decommissioning and disposal

Viessmann products can be recycled. Components and substances from the system are not part of ordinary household waste.

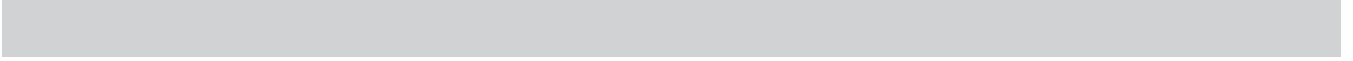
For decommissioning the system, isolate the system from the power supply and allow components to cool down where appropriate.
All components must be disposed of correctly.

Declaration of Conformity

Declaration of Conformity

We, Viessmann Werke GmbH & Co. KG, D-35107 Allendorf, declare as sole responsible body that the named product complies with the European directives and supplementary national requirements in terms of its design and operational characteristics.

Using the serial number, the full Declaration of Conformity can be found on the following website:
www.viessmann.co.uk/eu-conformity



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