

Operating Instructions

for the system user

VIESSMANN

Vitocell-V 100

Type CVA

Vitocell-B 100

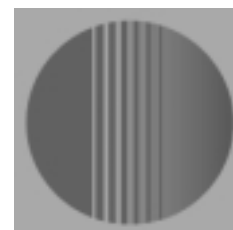
Type CVB

Domestic hot water cylinder

Vitocell-L 100

Type CVL

DHW cylinder for domestic hot water applications
with cylinder loading system



VITOCCELL 100



Type CVA

Type CVB

Type CVL

For your safety



Please follow these safety instructions closely to avoid the risk of injury to persons and damage to property. The safety instructions also apply in conjunction with heat generators.

If you smell gas

- Don't smoke! Don't use naked flames or cause sparks (e.g. by switching lights or electrical appliances on and off)
- Open windows and doors
- Close the gas shut-off valve
- Inform your heating engineers/service contractors from outside the building
- Observe the safety regulations of your gas supply company (see gas meter) and those of your heating engineers (see start-up or instruction report).

In emergencies

- Immediately switch off the mains voltage, e.g. at the separate fuse or mains electrical isolator switch (unless there is a smell of gas).
- Close the shut-off valves in the fuel lines.
- Use suitable extinguishers in the event of fire.

Work on the equipment

Installation, initial start-up, maintenance and repairs must be carried out by a competent person (heating engineer/service contractor) (see EN 50 110, Part 1, and VDE 1000, Part 10, (GB): registered with C.O.R.G.I.).

Before work is undertaken on the equipment/heating system, switch off the mains voltage and take steps to prevent it from being switched on again.

On gas-fired systems, also close the gas shut-off valve and make secure to prevent unauthorized use.

Installation of additional components

The installation of additional components which have not been tested together with the DHW cylinder can adversely affect the function and performance of the cylinder.

Our warranty does not cover and we accept no liability for damage attributable to the installation of such components.

Boiler room conditions

- Do not use a room in which the air is polluted by halogenated hydrocarbons (e.g. as contained in aerosols, paints, solvents and cleaning agents)
- Do not use a room subject to high levels of dust
- Do not use a room subject to permanently high humidity
- The room should be frost-protected
- Max. ambient temperature 35 °C
- Provide good ventilation and do not close or obstruct vents (if installed)

Domestic hot water



Please refer also to the operating instructions of the boiler control unit and any additional equipment installed.

Vitocell-V 100 and Vitocell-B 100

The domestic hot water can be heated by the boiler, a district heating system or by a modulating flow temperature heating system for dual operation.

The maximum flow temperature is 160 °C and the maximum working pressure on the heating water side is

- 25 bar with the Vitocell-V 100, Type CVA,
- 10 bar with the Vitocell-B 100, Type CVB.

The maximum working pressure on the domestic hot water side is 10 bar.

Vitocell-L 100

The domestic hot water is provided by the cylinder loading system in conjunction with a heat generator (boiler, condensing boiler and district/local heating system) and a Vitocell-L.

The maximum flow temperature of the heat generator is 110 °C (75 °C in systems with constant flow temperatures) and the maximum working pressure on the heating water side is 10 bar.

The maximum working pressure on the domestic hot water side is 10 bar.

Domestic hot water (continued)

Domestic hot water heating by the boiler

1. Set the desired domestic hot water temperature (e.g. 60 °C) with either the cylinder control unit on the boiler or with the control thermostat on the cylinder itself.
2. Set the boiler water temperature for domestic hot water heating on the boiler control unit. It should be at least 15 °C above the selected domestic hot water temperature.

Please note:

The maximum domestic hot water temperature is 95 °C.

Domestic hot water heating by solar heating system/heat pump

Only with Vitocell-B 100, Type CVB

Set the desired domestic hot water temperature on the control thermostat of the cylinder control unit of the modulating flow temperature heating system.

Please note:

Depending on the amount of energy generated and the temperature level, the domestic hot water can be pre-heated or heated to temperatures over 45 °C.

Domestic hot water heating by the electrical immersion heater (if installed)

Please note:

Operation in conjunction with an electrical immersion heater is only possible with:

- Vitocell-V 100, Type CVA, 300 and 500 litres storage capacity,
- Vitocell-B 100, Type CVB



Please refer to the operating instructions for the electrical immersion heater

Domestic hot water heating by a Vitotrans 222 external heat exchanger

Only with Vitocell-L 100, Type CVL

The desired domestic hot water temperature is set:

- by adjusting the flow rates on the Vitotrans 222 in the case of systems with constant flow temperatures
- on the boiler control unit in the case of systems with modulating flow temperatures.

Please note:

The maximum domestic hot water temperature is 95 °C.



Please refer to the operating instructions for the Vitotrans 222

Shutdown

If the domestic hot water cylinder is not in use during periods when there is a risk of freezing, please contact your heating contractor.

Safety valve

- The blow-off line of the safety valve must not be closed off or fitted with any shut-off devices, but must exit freely over a drain. The outlet of the blow-off line must be positioned at a visible point where any water released by the safety valve can be safely discharged.
- For safety reasons, water may be released via the safety valve during the heating-up process.
- Every six months, the safety valve must be tested by venting by the user or the heating contractor to ensure that it is fully operational.

Please note:

There is a risk of dirt collecting at the valve seat. Please contact your heating contractor in the event of a malfunction.



See valve manufacturer's instructions

Maintenance and cleaning

According to DIN 1988-8 domestic hot water cylinders should be serviced or cleaned at the latest two years after start-up and at regular intervals thereafter.

Cleaning of the inside of the hot water cylinder including the domestic hot water connections should only be carried out by an approved heating contractor.

Furthermore, according to DIN 4753, the built-in magnesium anode should be inspected at least every 2 years (we recommend annually). This check must be carried out by the heating contractor.

Please note:

If the cold water supply to the hot water cylinder incorporates a water treatment device (e.g. a sluice or inoculation unit), it must be refilled and serviced regularly. The same applies if a dirt trap or a filter is installed in the cold water supply. These must be flushed out and serviced at regular intervals.

