CLAGE

Zip WATER

Zip
Instantaneous Hot Water

Electronically controlled instantaneous water heater

CEX9: 27900 - 50 °C model

Instructions for the user

This appliance delivers water not exceeding 50 °C in accordance with AS3498

Contents

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1. Safety instructions

Please read these instructions carefully before installing or using the appliance! Keep the instructions handy with the appliance for future use!

Installation, initial operation and maintenance of this appliance must only be conducted by an authorised professional, who will then be responsible for adherence to applicable standards and installation regulations. We assume no liability for any damages caused by failure to observe these instructions.

- Do not use the appliance until it has been correctly installed and unless it is in perfect working order.
- Do not remove the front cover under any circumstances before switching off the mains electrical supply to the unit.
- Never make technical modifications, either to the appliance itself or the electrical leads and water pipes.
- The appliance must be earthed at all times.
- Pay attention to the fact that water temperatures in excess of approx. 43 °C are perceived as hot, especially by children, and may cause a feeling of burning. Please note that the fittings and taps may be very hot when the appliance has been in use for some time.
- The appliance is only suitable for domestic use and similar applications inside closed rooms, and must only be used to heat incoming water from the mains supply.
- The appliance must never be exposed to frost.
- The values stated on the rating plate must be observed.
- In case of malfunction, disconnect the fuses immediately. In case of leaks, cut off the mains water supply instantly. Repairs must only be carried out by the customer service department or an authorised professional.
- This appliance can be used by children aged 3 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be performed by children without supervision.
- If the appliance is factory equipped with a power supply cable, it must be replaced with an original spare cable from the manufacturer in case of dam-

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age by an authorised technician in order to avoid any hazards.

- For appliances with direct connection, an all-pole disconnecting device with a contact opening width of ≥ 3 mm per phase must be provided at the installation end, according to Australian wiring rules AS/NZ3000.
- The wall bracket must be secured with the supplied screws and dowels. The appliance must be secured to the wall bracket. The appliance may only be operated if it has been properly mounted on the wall bracket.
- The prescribed nominal pressure stated on the rating plate may not be exceeded at any time.
- The required water resistance may not fall below the value stated on the rating plate at any time.

To observe <u>additionally</u> for pressureless installation:

- The water outlet behind the devices must not be blocked, and the water flow must not be restricted.
- The water outlet facilities, such as shower head, jet control and other outlet unit, must be decalcified regularly. Deposits must be removed in regular intervals.
- Only the fittings recommended by the manufacturer may be used.
- If the appliance is exclusively connected to a single shower, only the shower heads recommended by the manufacturer may be used. No other fittings or appliances which decrease the water flow to the shower may be installed.

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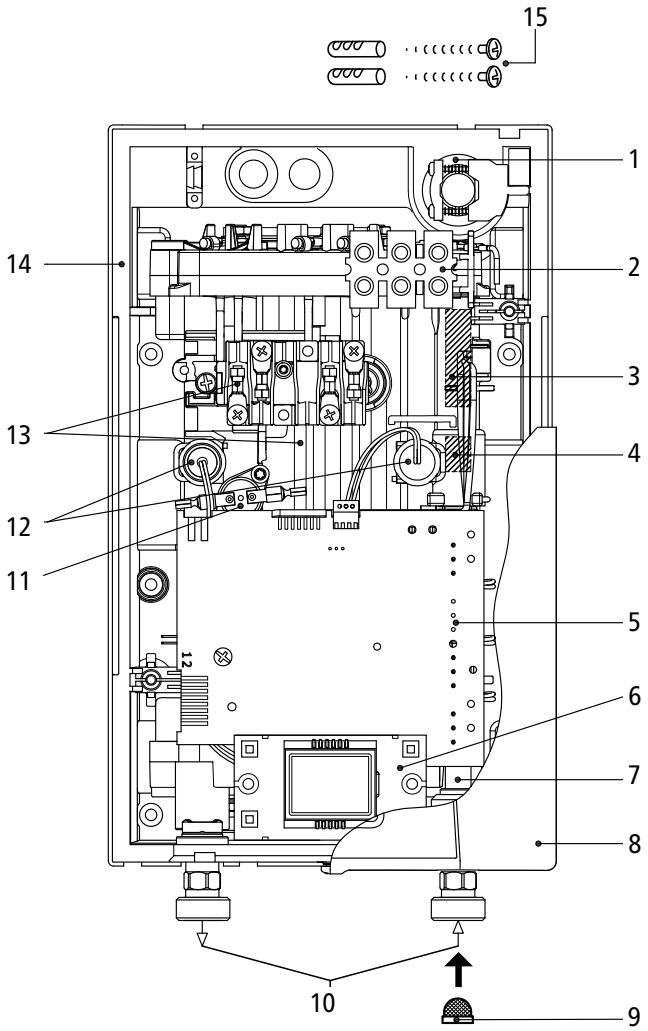
2. Overview

When ordering spare parts, please always specify the appliance model and serial number.



Pos.	Part.-No.	Description
1		Grommet
2		Connecting terminal
3	**99394**	**Flow sensor**
4	**99385**	**Non-return valve**
5	**99398**	**PCB CEX9**
6	**99418**	**CEX control panel**
7		Inlet pipe
8		CEX cover

Pos.	Part.-No.	Description
9		Inlet filter
10		Connection piece 1/2“
11		Safety thermal cut-out
12	**99400**	**Thermal sensor set**
13		Heating element incl. SDB
14		Bottom part
15	**99397**	**Screws and dowels**

Parts in **Bold Type** are available as **Spare Parts**. Other parts are available on request

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3. Technical data

Model	CEX9	
Part no.	27900 - 50 °C model	
Energy efficiency class	A *)	
Rated capacity (Rated current)	6.0 / 9.6 kW (27.3 / 40 A)	
Chosen capacity (Chosen current)	6.6 kW (28.7 A)	8.8 kW (38.3 A)
Electrical connection	1/N/PE 220..240 V AC	
Min. required cable size	see note 1)	
Hot water (l/min) max. at Δt = 25 K	3.8	5.0
Rated volume	0.3 l	
Rated pressure	1.0 MPa (10 bar)	
Connecting type	pressure resistant / pressureless	
Heating system	Bare wire heating system IES®	
Required spec. water resistance @ 15 °C Spec. electrical conductivity	≥ 1100 Ωcm ≤ 90.9 mS/m	
Inlet temperature	≤ 30 °C	
Flow rate to switch on – max. flow rate	2.0 – 5.0 l/min 2)	
Pressure loss	0.2 bar at 2.5 l/min 1.3 bar at 9.0 l/min 3)	
Temperature choice	20 °C – 50 °C	
Water connection	G ½"	
Weight (when filled w. water)	2.7 kg	
VDE class of protection	I	
Type of protection / safety	IP25 CE	

*) The declaration complies with the EU regulation No 812/2013
1) The cross sectional area of the connection cable must be in accordance with the power rating of the appliance and the specific requirements of AS/NZS 3000
2) Flow rate limited to achieve optimum temperature rise
3) Without flow regulator

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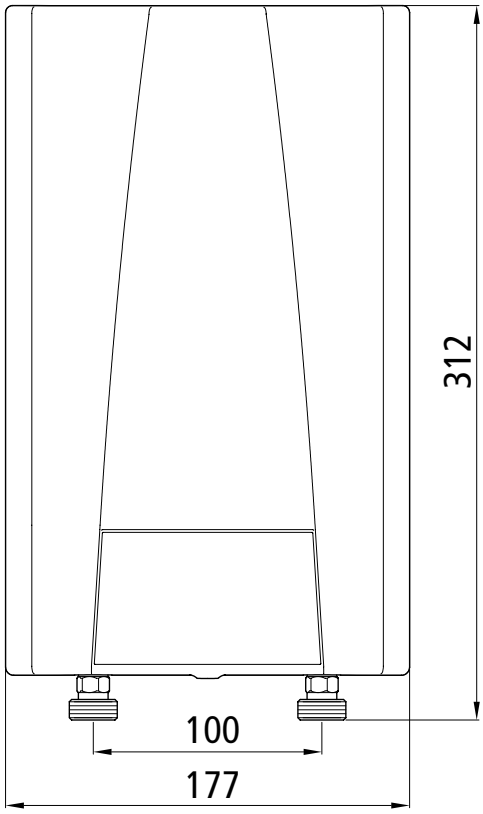
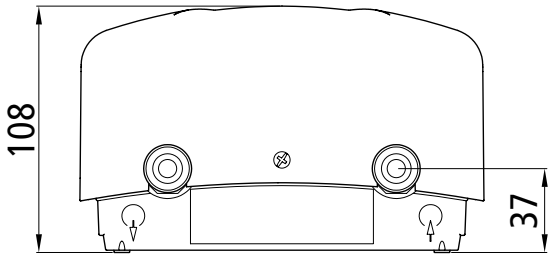
4. Dimensions



Dimensions in mm



5. Description of the appliance

The instantaneous water heater CEX9 is a electronically controlled, pressure-resistant water heater for a decentralised water supply to one or more tap connections.

Its electronic control regulates the power consumption depending on the selected outlet temperature, the respective inlet temperature and the flow rate, thus reaching the set temperature exactly to the degree and keeping it constant in case of pressure fluctuations. The required outlet temperature can be entered on a keypad within a range between 20 °C and 50 °C and can be read off the digital display.

This appliance delivers water not exceeding 50 °C in accordance with AS3498.

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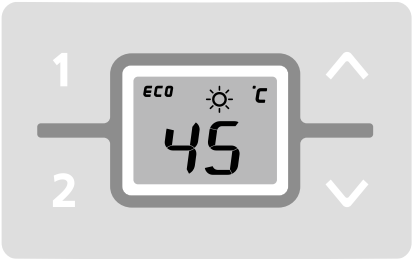


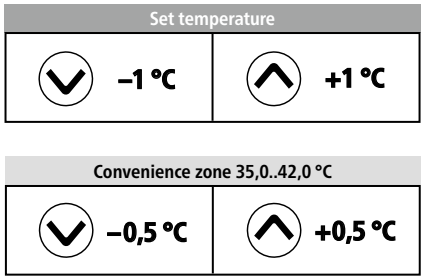
As soon as you open the hot water tap, the instantaneous water heater switches on automatically. When the tap is closed, the appliance automatically switches off.

Temperature setting

You can set the required temperature gradually to a lower or higher value with the arrow keys ⌄ and ⌃.

The temperature changes by 1 °C, in the convenience zone between 35 °C and 42 °C by 0.5 °C, if key is pressed shortly one time. Pressing a key for a longer time changes the temperature continuously.

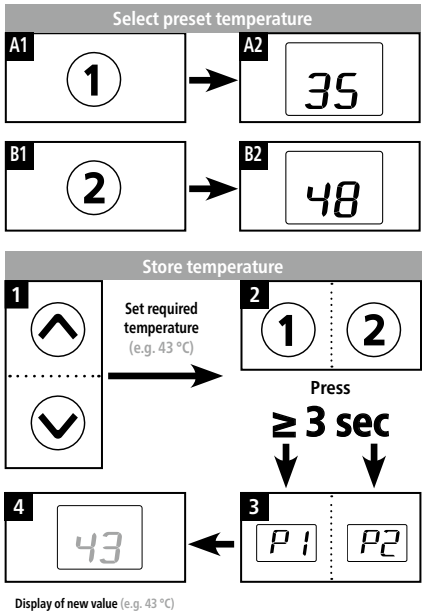
Note: If temperature is set below 20 °C with arrow key ⌄ the display shows "- - " and the appliance switches off the heating function.



Programme buttons

The two programme buttons allow to quickly select the preset temperature. When pressing a programme key, the preset temperature is selected and displayed. The factory setting for programme ① is 35 °C and for programme ② it is 48 °C. You can assign your own settings for the programme keys:

- Prolonged pressing of the programme key stores the previously selected temperature. The display changes from "P 1" or "P2" to the newly stored temperature value. This newly set temperature is now available to you each time you press the corresponding program key.



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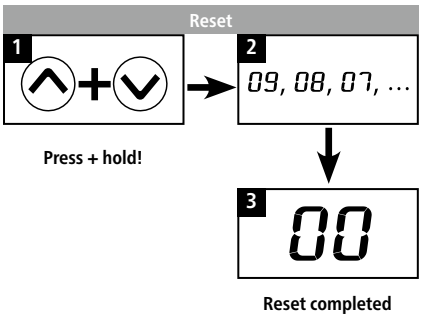
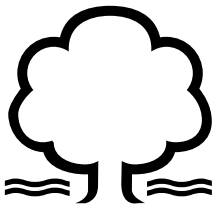


Reset to factory setting

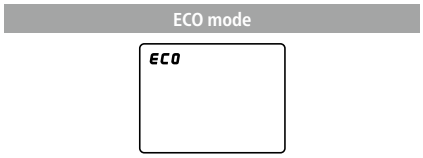
All factory settings can be recalled:

- Press ⌃ and ⌄ simultaneously. The display now counts backwards from " 10" to "00" in second intervals. The appliance is reset at value "00" - if you stop pressing the keys earlier, you will cancel the process.

How to save energy

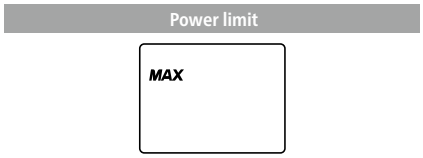


Set the exact temperature you need on the appliance and open the hot water tap. Once you feel that the water is too hot, do not add any cold water and, instead, enter a lower temperature on the appliance. If you were to add cold water, the water already heated would cool down again and valuable energy would be wasted. Moreover, the cold water added in the tap is not covered by the control range of the electronic circuitry, with the result that temperature constancy is no longer guaranteed.



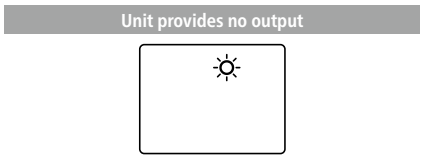
ECO mode

The symbol **ECO** shows that the appliance works in an energy saving mode (i.e. the momentary energy consumption is subject to the selected temperature and to the flow rate in the energy saving mode.



Power limit

If the full output of the instantaneous water heater does not suffice to heat the tapped quantity of water, this will be indicated by **MAX** on the LCD (e.g. in winter time, when opening several taps at once). When you reduce the hot water flow rate, **MAX** stops lighting because the output of the appliance is sufficient to reach the set temperature again.



Top-up heating

When operating with preheated water (e.g. with solar systems), ensure that the maximum inlet temperature is not exceed.

If the inlet temperature exceeds the setpoint, the icon ☼ on the digital display indicates that the heating power is switched off.

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N.B. Maintenance work must only be carried out by a qualified tradesperson familiar with instantaneous water heaters.

Venting after maintenance work

This instantaneous water heater features an automatic air bubble protection to prevent it from inadvertently running dry. Nevertheless, the appliance must be vented before using it for the first time. Each time the appliance is emptied (e.g. after work on the plumbing system, if there is a risk of frost or following repair work), the appliance must be re-vented before it is used again.

1. ⚠ Disconnect the instantaneous water heater from the mains (e.g. via deactivating the fuses).
2. Unscrew the jet regulator on the outlet fitting and open the cold water tap valve to rinse out the water pipe and avoid contaminating the appliance or the jet regulator.
3. Open and close the hot water tap until no more air emerges from the pipe and all air has been eliminated from the water heater.
4. Only then should you re-connect the power supply again (e.g. via activating the fuses) to the instantaneous water heater and screw the jet regulator back in.
5. The appliance activates the heater after approx. 10 seconds of continuous water flow.

Cleaning and maintenance

- Plastic surfaces and fittings should only be wiped with a damp cloth. Do not use abrasive or chlorine-based cleaning agents or solvents.
- For a good water supply, the outlet fittings (e.g. jet regulators and shower heads) should be unscrewed and cleaned at regular intervals. Every three years, the electrical and plumbing components should be inspected by an authorised professional in order to ensure proper functioning and operational safety at all times.

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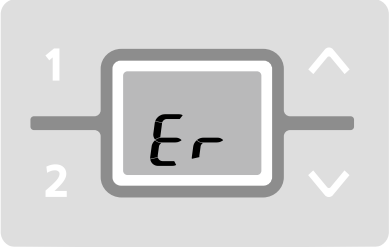
8. Troubleshooting and service

This instantaneous water heater was manufactured conscientiously and checked several times before delivery. First attempt to switch the house fuses off and on again in order to reset the electronics. Next, try to remedy the problem with reference to the following table. In doing so, you will avoid unnecessary expense of customer service assistance.

Repairs must only be carried out by authorised professionals.

If a fault in your appliance cannot be rectified with the aid of this table, please contact the service organisation of your importer or the Central Customer Service Department. Please have the details of the typeplate at hand.



Problem	Cause	Solution
Water stays cold, digital display does not light up	Master fuse tripped	Renew or activate fuse
	Safety pressure cut-out tripped	Contact customer service
Water stays cold, digital display does light up	Safety thermal cut-out tripped	Contact customer service
Display flashes error message "Er"	Control system has switched off	Switch fuse off and on. If "Er" still flashes contact customer service
Flow rate of hot water too weak	Outlet fitting dirty or calcified	Clean shower head, jet regulator or sieves
	Fine filter dirty or calcified	Let clean fine filter by a specialist
Selected temperature is not reached, "MAX" lights	Water flow rate too high	Reduce water flow rate at the tap
Selected temp. is not reached, "MAX" does not light	Cold water has been added via the tap	Tap hot water only; set temperature for use
Symbol "sun" lights up	Inlet temperature exceeding nominal temperature	Reduce inlet temperature
Appliance heats, the display does not light	Display plug not properly connected	Let fix correct position of display plug by customer service

If the connection cable is damaged, it must be replaced with an original spare cable from the manufacturer by an authorised technician in order to avoid any hazards.

If you cannot rectify the fault with the aid of the troubleshooting table, please contact customer service.

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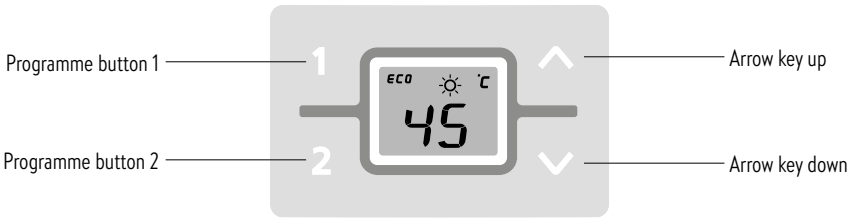
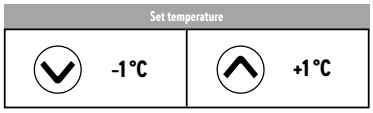
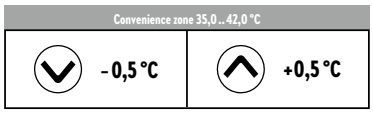
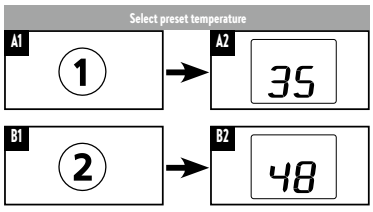
As Zip's policy is one of continuous product improvement, changes to specifications may be made without prior notice. Images in this booklet have been modified and may not be true representations of the finished goods.

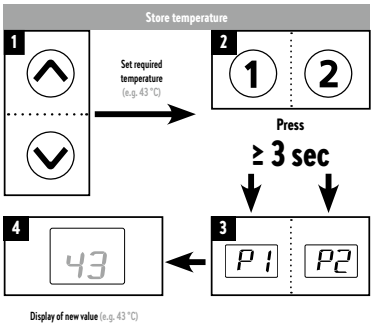
Quick reference guide

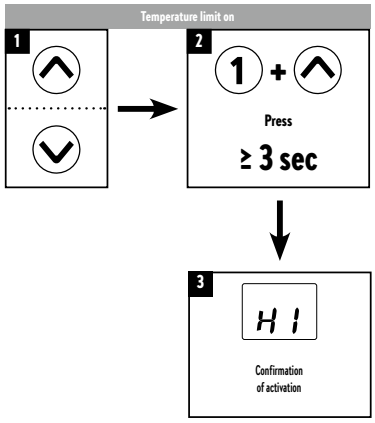


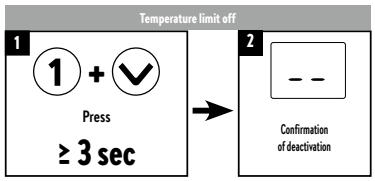


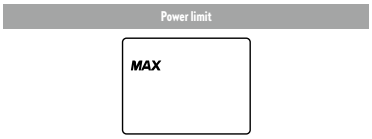


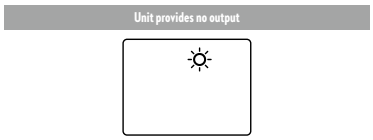


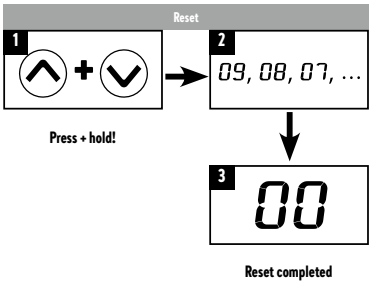


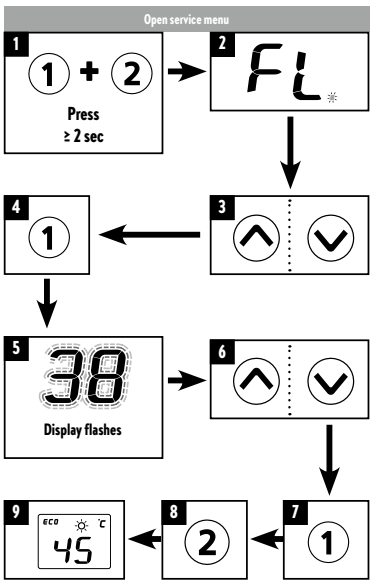












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