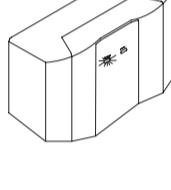
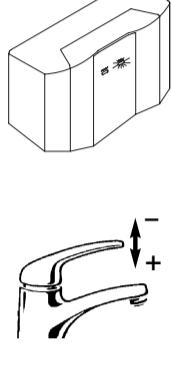


**Operating Instructions**

Please read these instructions carefully before using the appliance!

**For your own safety**

- Installation, commissioning and maintenance of this appliance may only be undertaken by an authorized professional who will then be responsible for adherence to the applicable standards and installation regulations.
- The appliance may only be used when correctly installed and in perfect working order!
- The appliance must be installed in a frost-free room!
- The appliance must be completely filled with water before being switched on!
- The appliance and its wiring and piping must not be modified in any way!
- The front cover of the appliance must never be opened before disconnecting the appliance from the mains power supply!
- Be careful! When the appliance has been in use for some time, the fittings may be very hot!
- The appliance must be earthed!

**Description of appliance**

This appliance is a pressure-type, hydraulically controlled instantaneous water heater for decentral water heating at one or two taps situated in close proximity to one another.  
Technical specifications: → overleaf!

**Use**

The instantaneous water heater heats the water as it flows through the appliance. The appliance only consumes power during this period. The heating power is switched on automatically in the event of the minimum flow rate being exceeded. The "Power" light indicates that the heating system is switched on.

The temperature of the hot water depends on the rate of flow and the temperature of the main water supply. By opening the tap more or less you can adjust the desired water temperature between approx. 40 °C and 60 °C:

**less flow = more hot • more flow = less hot**

If the heater supplies two outlets the water from the unit will be shared between the outlets. Therefore you should use only one outlet at the time to have a sufficient flow and to avoid variation in temperature.

**Temperature monitor**

If the temperature rises too high, the temperature monitor will reduce the power supply until the water has cooled back to the permissible level. This is indicated by the "Overheat" light. If the water overheats frequently, the cause of the fault must be remedied and may be due, for example, to dirt in the filter, an excessive reduction in the rate of flow or an impossibly high inflow temperature.

**Venting**

To prevent damage to the appliance, the instantaneous water heater must be vented before using it for the first time. Each time it 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 appliance from the mains by removing the fuses.
- 2 Next, open and close the hot water tap valve several times until no more air emerges from the pipe and all air has been eliminated from the water heater (approx. 1 minute).
- 3 Only then should you re-connect the power supply to the unit.

**How to save energy to protect the environment**

The heat lost via the water pipes is very low when installed directly alongside the pipes leading to the taps (open-outlet taps are recommended) and the hot water is rapidly supplied without drawing a great deal of cold water first.

**Care**

- Plastic surfaces and fittings may only be wiped with a damp cloth. Never use abrasive cleaning agents or solvents.
- For a good water supply, the perlators and shower heads should be unscrewed and cleaned or renewed at regular intervals.
- The electrical and plumbing components should be inspected by an authorized professional at least every three years to ensure proper functioning and operational safety at all times.

**Cleaning the filter**

In case of malfunctions, the filter in the cold water connecting piece should be inspected and cleaned or replaced if necessary.

**Troubleshooting**

If you experience a malfunction, please try to rectify the fault yourself first with the help of this table. If a fault in your appliance cannot be rectified with the aid of this table, please contact CLAGE who will either assist you directly or put you in touch with a customer service contract partner in your area. Always specify the appliance model and serial number, please!

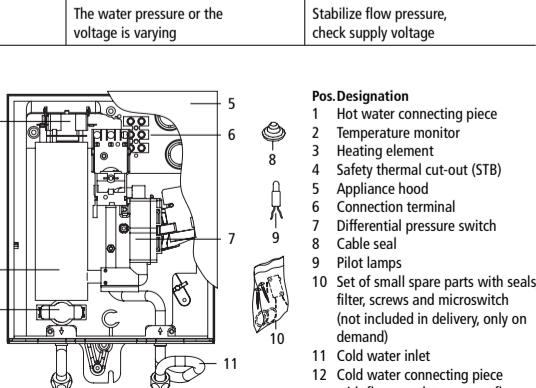
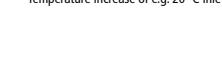
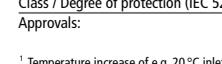
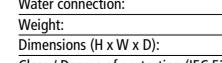
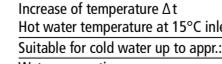
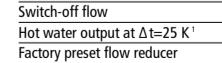
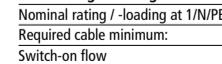
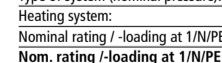
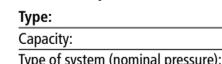
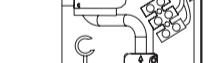
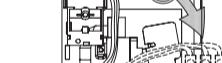
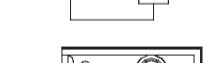
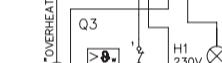
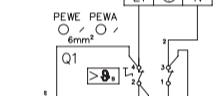
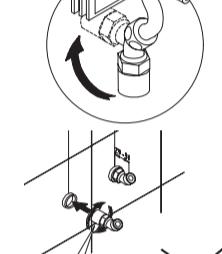
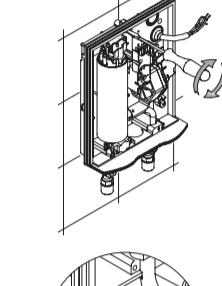
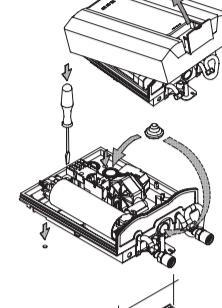
**Repairs may only be carried out by authorized professionals.**

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Problem	possible cause	Solution
The pilot lamp "Power" does not light and the water is cold	Circuit breaker tripped	Have the fault rectified and reset
	Flow pressure switch is not working	Increase flow pressure
	Safety thermal cut-out tripped	Contact customer service
The pilot lamp "Power" lights, but the water is cold	Heating element is faulty	Replace the element by customer service
The pilot lamp "Overheat" lights	Overtemperature	Increase flow, check cold water temp.
	Dirt in tap or filter	Cleaning, Customer service
Water flows lower as expected	Depends on the heater	Check technical specifications
	Outlet fitting dirty or calcified	Clean tap fitting or shower head
	Filter dirty or calcified	Clean or renew the filter
	No suitable tap	Use CLAGE shower head or tap
The hot water is not hot enough	Flow rate is too high (winter?)	Reduce the water flow slightly
	Heating element defect	Contact customer service
Flow and temperature of the hot water varies	The water pressure or the voltage is varying	Stabilize flow pressure, check supply voltage

**Layout of appliance and spares**

When ordering, please always specify the appliance model and serial number!

**Installation instructions for the authorized technician****The following must be observed:**

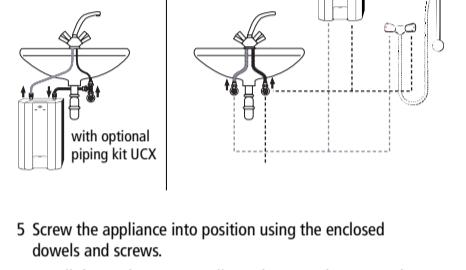
- The statutory regulations of the respective country, as well as those of the local electricity and water supply companies.
- The specifications on the rating plate and the technical specifications.

**Installation site**

- The installation site must be free from frost at all times.
- The appliance complies with protection type IP25 and may be installed in zone 1 acc. IEC.
- In order to avoid thermal losses, the distance between the heater and the tapping point should be as small as possible (< 2 m).
- Best performance is guaranteed at a flow pressure of ≥ 3 bar, avoiding pressures exceeding 6 bar.
- Water installation material:  
Cold water pipe: Steel or copper, Hot water pipe: Copper.

**Installing the appliance:**

- 1 Rinse water supply pipes thoroughly and turn off for installation.
- 2 Remove the front cover by unscrewing the locking screw behind the small lid.
- 3 Locate and break out the required holes and cable inlets. Mark the drilling holes with the appliance and drill them with a 6 mm drill bit.
- 4 Fit the rubber grommet supplied and insert the connecting lead. The lead must be secured with the cable clamp when using a flexible power cord.



- 5 Screw the appliance into position using the enclosed dowels and screws.

- 6 Install the appliance vertically as shown in the principal examples above. The inlet and outlet are marked with arrows.

- 7 The water connections are designed for surface-mounted or flush-mounted installation. They must be carefully sealed with a little P.T.F.E. Tape when screwed into the wall connections.

- 8 The front cover must be cleanly broken at the specified points for surface-mounted installation or for direct connection to the pipes of the sanitary fitting using the optional piping kit UCX.

- 9 Open the water supply to the appliance and the tap to check all connections for leaks.

- 10 Next, open and close the hot water tap several times until no more air emerges from the line and all air has been eliminated from the heater.

**Electrical connection:**

**The instantaneous water heater is an appliance of protection class I and must be connected to the protective earth conductor!**

- 1 Check that the power supply is switched off prior to the electrical connection!

- The appliance must be connected to the supply by means of permanent wiring through suitable circuit breaker having a contact separation of at least 3 mm in all poles.

- The cross sectional area of the connection cable must be in accordance to the power rating.

- To protect the appliance, a fuse element must be fitted with a tripping current commensurate with the nominal current of the appliance.

- 2 The connection cable should be sealed with the cable seal and carefully connected to the terminal block using leads L, N as well as the earth conductor.

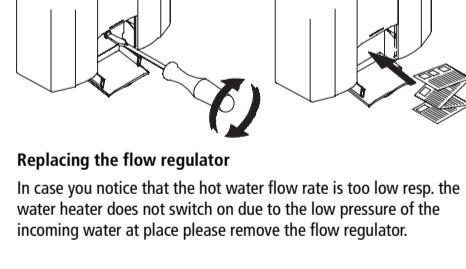
- If necessary, the connecting terminal can be moved to the lower part of the appliance.

- The connecting cable must not be subjected to tensile stress when fitted without cable clamp. The cable clamp can only be used with CRH6 and CRH6/30.

- 3 Mount the front cover and secure with the fixing screw.

- 4 Fill the appliance with water completely, switch on the power supply to the appliance.

- 5 Explain to the user how the instantaneous water heater works and fold these instructions so that they fit behind the front panel.

**Replacing the flow regulator**

In case you notice that the hot water flow rate is too low resp. the water heater does not switch on due to the low pressure of the incoming water at place please remove the flow regulator.

**Technical specifications**

Type:	CRH 6	CRH 6 / 30	CRH 9
Capacity:	0.2 liter		
Type of system (nominal pressure):	pressure-type, 6 bar	tubular heating element	
Heating system:			
Nominal rating / loading at 1/N/PE ~ 220 V:	6.0 kW / 27.3 A	6.0 kW / 27.3 A	8.0 kW / 36.4 A
Nom. rating / loading at 1/N/PE ~ 230 V:	6.6 kW / 28.7 A	6.6 kW / 28.7 A	8.8 kW / 38.3 A
Nominal rating / loading at 1/N/PE ~ 240 V:	7.2 kW / 30 A	7.2 kW / 30 A	9.6 kW / 40 A
Required cable minimum:	3 x 4.0 mm <sup>2</sup>	3 x 4.0 mm <sup>2</sup>	3 x 6.0 mm <sup>2</sup>
Switch-on flow:	2.9 l/min	3.6 l/min	3.5 l/min
Switch-off flow:	1.9 l/min	2.7 l/min	2.5 l/min
Hot water output at Δt=25 K <sup>1</sup> :	3.8 l/min	3.8 l/min	5.0 l/min
Factory preset flow reducer:	3.5 l/min	5.0 l/min	5.0 l/min
Increase of temperature Δt:	27 K	19 K	25 K
Hot water temperature at 15°C inlet temp.:	42°C	34°C	40°C
Suitable for cold water up to appr.:	15 °C	30 °C	15 °C
Water connection:	G 1/2" for concealed or above work surface		
Weight:	2.1 kg		
Dimensions (H x W x D):	33 x 21 x 9 cm		
Class / Degree of protection (IEC 529):		1 / IP25	
Approvals:		see typeplate	

<sup>1</sup> Temperature increase of e.g. 20 °C inlet temperature to 45 °C outlet temperature at 230 V