Please pass these instructions on to the end user of the fitting!
Application
Can be used in conjunction with:
• Pressurised storage heaters
• Thermally-controlled instantaneous heaters
• Hydraulically-controlled instantaneous heaters
Operation with unpressurised storage heaters (displacement water heaters) is not possible.

Safety notes
• Installation is only possible in frost-free rooms.
• The transformer is only suitable for indoor use.
• In the case of damage to the external transformer connection cable, this must be replaced by the manufacturer or his customer service department or an equally qualified person, in order to prevent a hazard.
• For cleaning purposes, the transformer plug must not be directly or indirectly sprayed with water.
• The voltage supply must be separately switchable.
• Use only genuine replacement parts and accessories.
  The use of other parts will result in voiding of the warranty and the CE identification.

Technical data
• Flow pressure min. 0.5 bar - recommended 1 - 5 bar
• Operating pressure max. 10 bar
• Test pressure 16 bar
If static pressure exceeds 5 bar, a pressure-reducing valve must be fitted.

Avoid major pressure differences between hot and cold water supply.
• Flow rate at 3 bar flow pressure: approx. 6 l/min
• Temperature: Hot water supply max. 70 °C
  Recommended (energy saving): 60 °C
• Supply voltage (transformer 230 V AC/12 V AC): 230 V
• Power consumption: 3.2 VA
• Automatic safety shut-off (factory setting): 60 s
• Run-on time (factory setting): 1 s
• Reception range with Kodak Gray Card, grey side, 8 x 10", landscape, 5cm below the spout (factory setting): approx. 15cm
• Type of protection: - Fitting IP 59 K
  - Transformer IP 44
• Water connection cold - right
  hot - left

The test for electromagnetic compatibility (interference emission test) was performed at the rated voltage and rated current.

Special accessory
• Infrared remote control (Prod. no. 36 407) for changing the factory settings and selecting special functions.

Approval and conformity

This product conforms to the requirements of the relevant EU guidelines.

The conformity declarations can be obtained from the following address:
GROHE Deutschland Vertriebs GmbH
Zur Porta 9
D-32457 Porta Westfalica

Installation
Flush pipes thoroughly before and after installation (observe EN 806).

Fitting
Refer to the dimensional drawings on fold-out page I.
Lift rod (A) must be inserted into the mixer body during installation, see fold-out page II, Fig. [2].
Fasten fitting to wash basin, see Figs. [1] to [4].

Connection, see Fig.5
The cold water supply must be connected on the right, hot water supply on the left.

Open hot and cold water supply and check connections for-watertightness.

Connecting the voltage supply
Connect control electronics with plug-in connector (D) to transformer (E), see Fig. [6].
Connect voltage supply via transformer (E).

Setting temperature limiter
1. Remove screw (F), see Fig. [7].
2. Turn mixer lever (G) clockwise until the desired maximum temperature is reached.
3. Detach mixer lever (G), see Fig. [8].
4. Detach stop ring (I) and reattach with notch (I1) pointing vertically upwards.
5. Turn mixer spindle (H) anti-clockwise to the stop.
6. Attach mixer lever (G) in horizontal position and fasten with screw (F).

Operation
The infrared electronics emit invisible, pulsed light.
The infrared-electronics are adjusted so that water flow is initiated when the hands approach the vicinity of the spout.
When the hands are withdrawn from the vicinity of the spout, water flow is stopped after 1 s (factory setting).

The range of the sensor system is dependent upon the reflective properties of the detected object.

Automatic safety shut-off
After 60 s (factory setting) of continuous detection of an object, the infrared electronics automatically stop the water flow.

Automatic flushing (factory setting: not activated)
Automatic flushing serves to ensure water hygiene in the event of long-term non-utilisation of the fitting, and activates water flow for 1 - 10 minutes, 1 or 3 days after the last use.

Safety notes:
• Ensure free draining in the case of activated automatic flushing.
  - For automatic flushing of the hot and cold water lines, the fitting must be in the mixed water setting.
Cleaning
For cleaning purposes, the fitting can be switched off by attaching the enclosed cleaning clip (M), see Fig. [9].

Maintenance
Shut off the hot and cold water supplies and switch off the voltage supply.
Inspect, clean and, if necessary, replace parts.

I. Transformer
1. Interrupt the voltage supply via transformer (E), see Fig. [10].
2. Detach plug-in connector (D).
Assemble in reverse order.

II. Solenoid valve (12 V DC)
1. Remove screw (N) and detach housing (O), see Fig. [11].
2. Remove screws (P1) and detach retaining plate (P).
3. Detach plug-in connection (Q) and remove solenoid valve (R) by turning clockwise using a 5mm allen key, see Fig. [12].
4. Remove filter (T).
Install in the reverse order observing the installation position.

III. filter, see Fig.13
Assemble in reverse order.

IV. Remove and clean mousseur (13 943)
Assemble in reverse order.

V. Mixer spindle
1. Disconnect fitting from connections.
2. Remove fitting from wash basin. Disassembly is as described in section "Setting temperature limiter", see Figs. [7] to [8].
3. Remove screw (U) from housing using a 2.5mm allen key, see Fig. [14].
Assemble in reverse order.

Screw (U) must engage in groove (H1, L1) of mixer spindle (H, L).

Replacement parts, see fold-out page I (* = special accessories).

Care
For directions on the care of this fitting, please refer to the accompanying Care Instructions.

Fault/ Cause/ Remedy

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause</th>
<th>Remedy</th>
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</thead>
<tbody>
<tr>
<td>Water not flowing</td>
<td>• Water supply interrupted</td>
<td>- Open shut-off valves, service valves</td>
</tr>
<tr>
<td></td>
<td>• Filter upstream of solenoid valve blocked</td>
<td>- Clean, see Maintenance, Solenoid valve</td>
</tr>
<tr>
<td></td>
<td>• Solenoid valve defective</td>
<td>- Replace, see Maintenance, Solenoid valve</td>
</tr>
<tr>
<td></td>
<td>• Plug-in connector of solenoid valve without contact</td>
<td>- Attach plug-in connector</td>
</tr>
<tr>
<td></td>
<td>• No voltage</td>
<td>- Switch on power supply, check plug-in connectors</td>
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<tr>
<td></td>
<td>• Hands not in reception range</td>
<td>- Hold hands directly under the spout</td>
</tr>
<tr>
<td>Water flowing continuously</td>
<td>• Solenoid valve defective</td>
<td>- Replace, see Maintenance, Solenoid valve</td>
</tr>
<tr>
<td>Undesired water flow</td>
<td>• Sensor system detection zone set too high for local conditions</td>
<td>- Reduce range using remote control (special accessory, Prod. no.: 36 407)</td>
</tr>
<tr>
<td>Flow rate too low</td>
<td>• Filter or mousseur dirty</td>
<td>- Replace, see Maintenance, Filter and Mousseur</td>
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<tr>
<td></td>
<td>• Service valves not fully open</td>
<td>- Fully open shut-off valves, service valves</td>
</tr>
<tr>
<td></td>
<td>• Water supply restricted</td>
<td>- Check supply lines, open service valves</td>
</tr>
<tr>
<td>Incorrect mixed temperature</td>
<td>• See “Flow rate too low”</td>
<td>- Clean, see Maintenance, Mixer spindle</td>
</tr>
<tr>
<td></td>
<td>• Limescale on mixer spindle</td>
<td>- Adjust, see description</td>
</tr>
<tr>
<td></td>
<td>• Temperature limiter incorrectly set</td>
<td></td>
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</table>