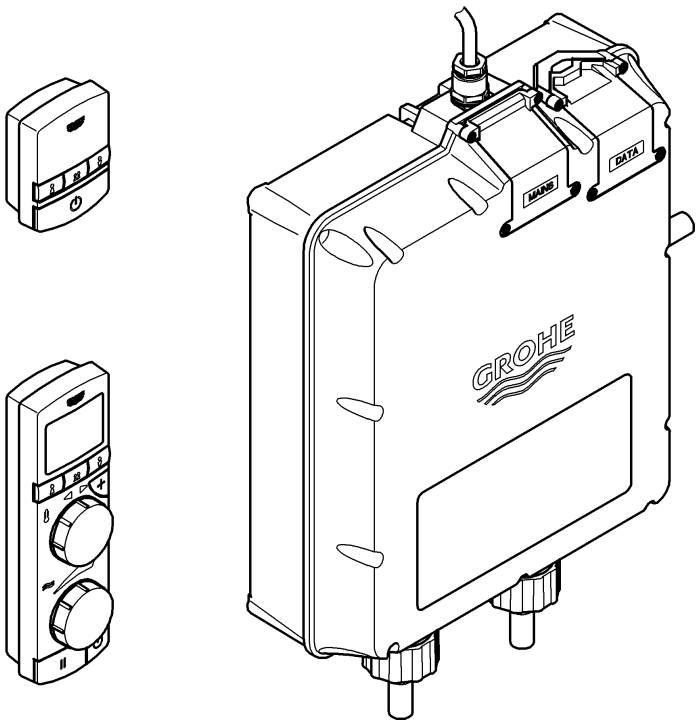
36 022
Pumped



Grohtherm Wireless!

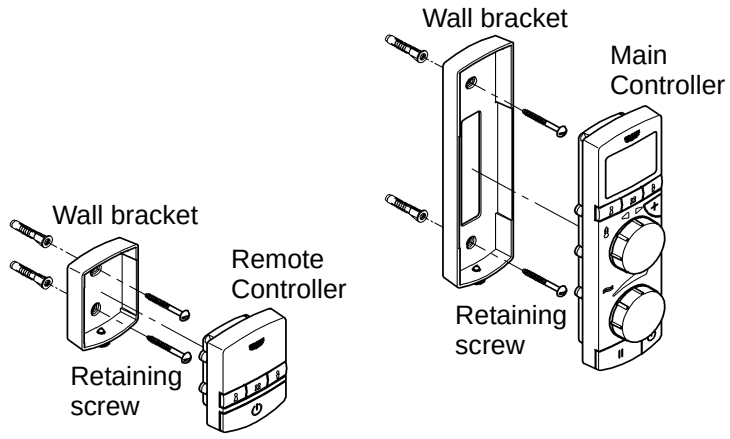
Grohtherm Wireless!

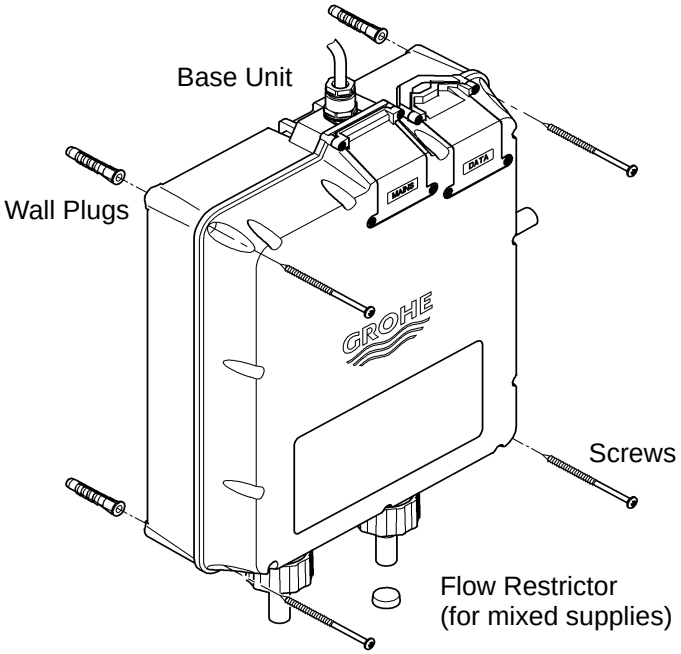
Installation Instructions

95.662.031/ÄM 206499/05.07

GROHE
ENJOY WATER®

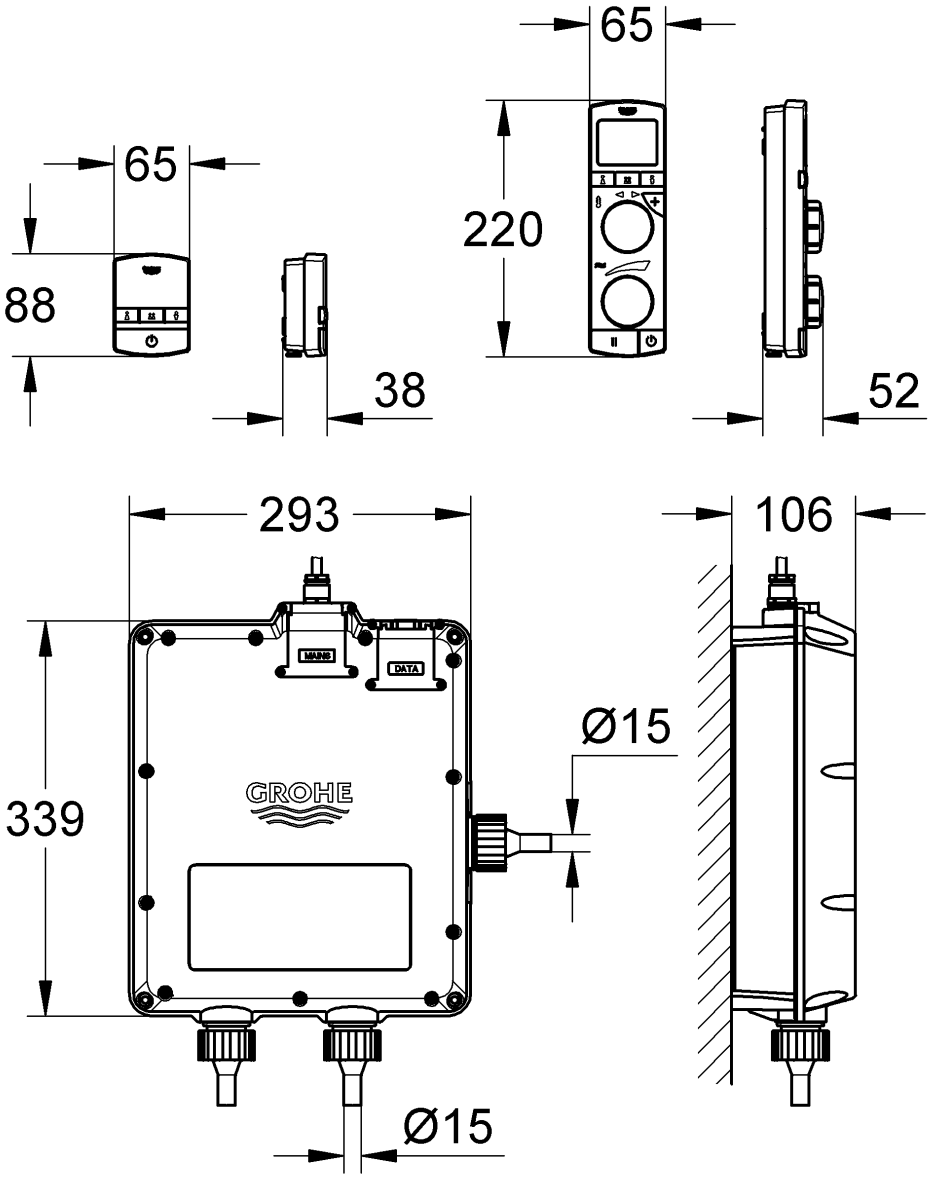
Contents

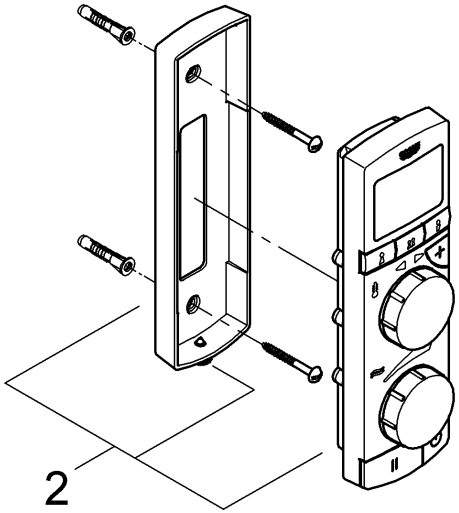


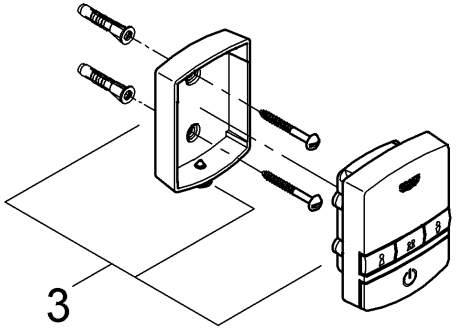


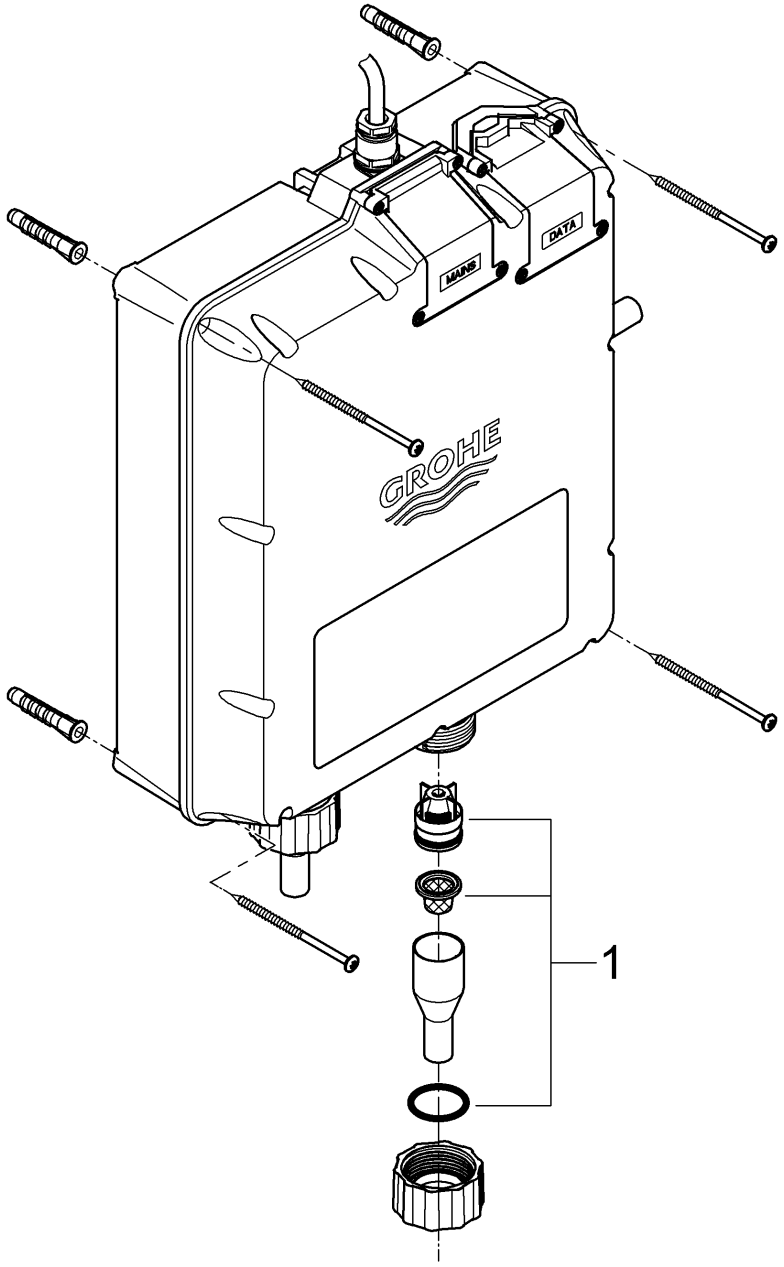
Please pass these instructions on to the end user!

Installation Dimensions (mm)




2


3


GROHE
MAINS
DATA
1

Index

Contents 1
Installation Dimensions. 2
Spare Parts Drawing . . . . . .3 + 4
Technical Data . . . . . .5 + 6
Installation . . . . . . 7 - 9
Base Unit Installation . . . . . .7 + 8
Main and Remote Controller. 9
Maintenance 10
Replacement Parts List 10
Guarantee 11

Dear Customer,

Thank you for choosing a GROHE product. Please follow these instructions carefully and you will enjoy many years of reliable service from this shower.

Technical Data

Functioning Principle

Grohtherm Wireless! is a wireless controlled thermostatic mixer with wax cartridge. Water flow and temperature can be changed and set using the Main and Remote Controllers.

Application

Safe limitation of the maximum outlet temperature is achieved via pre-set temperature limits which can be changed using the Main Controller. There is a protective user ope-rated override (set at default 38°C) and a maximum system temperature (set at default 43°C).

This product is supplied with Ø15mm inlets and outlet suitable for push fit connections.
The product is preassembled.

Electrical Supply

- Supply voltage: 220 - 240 V AC / 50 Hz

The electrical supply must be from a switched 3A fused spur which incorporates a disconnection device in the electrical circuit having a contact separation in all poles and the means of disconnection must be incorporated in the fixed wiring in accordance with the national wiring rules.

It is important that the unit is **not** wired to a user operated isolation switch (typically pull cord) or a supply that is frequently turned on/off (e.g. wall switch or hotel room card system).

The product is supplied with 2 metres of cable fitted to the Base Unit.

If the supply cord requires replacement due to damage, it must be replaced by the manufacturer, its service agent or similar qualified persons to avoid a hazard.

Technical Data

Plumbing Systems

- Gravity-fed plumbing systems with an open vented hot water cylinder
- Cold water storage cistern
- Concealed Base Unit
- Inlet Pressure
  - maximum: 100 kPa (1 bar)
  - minimum (recommended): 10 kPa (0.1 bar)
  - minimum (priming of pump needed, see later): 1 kPa (0.01 bar)
- Maximum total head (for pump to work against): 0 m
  This means that the shower head should always be below the water level available at the supply tanks.
- Type of protection (Base Unit): IP X4
- Maximum ratio of cold to hot (or hot to cold) pressure: 1 : 5
- Mixed water flow rate open outlet (no shower connected) at 10 kPa (0.1 bar): approx. 18 l/min
- Temperature
  - Maximum (hot water inlet) 70 °C
  - Recommended (for economy) 60 °C
- Water connection
  - Inlet Hot water marked **HOT**
  - Inlet Cold water marked **COLD**
- Operational rating: 30 minutes on max., 30 minutes off

Mixed supplies:

- The pumped system can be used in cases of mixed supply (high pressure cold and low pressure hot, or low pressure cold and high pressure hot). In these cases, a PRV (not included) must be used to limit pressure to 100 kPa (1 bar) and a flow restrictor (included) must be fitted to the inlet connected to the mains pressure supply.

  See Installation for details on flow restrictor fitting.

Supply Pipework

Ensure the supply pipework is thoroughly flushed before installing the Base Unit.

GROHE recommends installing isolating valves upstream of the Base Unit to aid servicing.

Approval and conformity

CE 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

Base Unit

The Base Unit of the system can be installed in any orientation (e. g. vertically, horizontally front side up, on inclines) outlet down is not recommended if inlet pressures are lower than 10 kPa (0.1bar / 1 metre head).

Location suggestions:

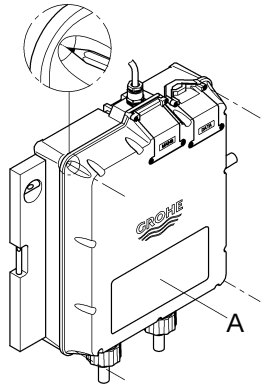
1. Under the bath
2. Above the ceiling
3. In the next room

The Base Unit must be screwed down.

Refer to the installation dimensions given on Page 2.

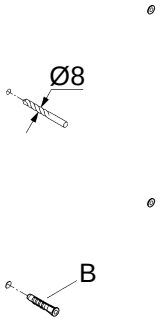
1. Align the Base Unit (A) horizontally, vertically and lay out the holes for screws, see Fig. [1].

1



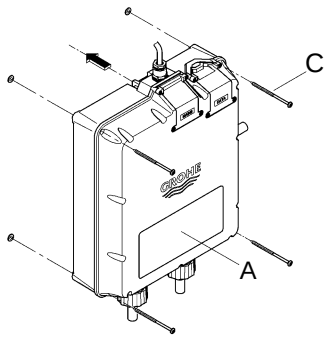
2. Drill holes for Base Unit and insert wall plugs (B) if necessary, see Fig. [2].

2



3. Fasten Base Unit (A) to wall or floor with screws (C), see Fig. [3].

3

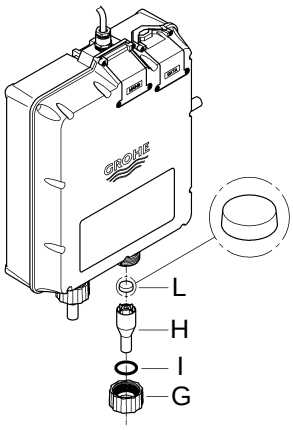


Fitting a flow restrictor

If using the pumped system on mixed supplies, a flow restrictor is needed on the mains water fed line.

1. Unscrew connection nut (G), see Fig. [4].

4



2. Take out the copper reducer (H) and the O-ring (I).
3. Insert the flow restrictor (L) in the position and orientation shown.

Assemble in reverse order, take care not to damage the O-ring.

Installation

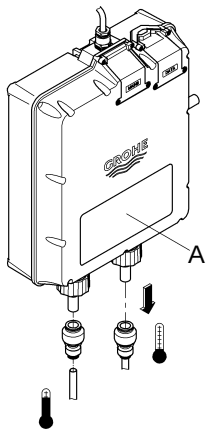
Hot water plumbing of pumped product

In order to avoid entrainment of air, good plumbing practice should be used in connecting up the hot water supply. The following are recommended ways of drawing water off a vented hot water cylinder:

- Off the underside of a 45 degree inclined pipe from the top of the cylinder.
- Off the underside of a horizontal pipe from the top of the cylinder.
- Off the lower stretch of a vertical pipe after the horizontal pipe from the top of the cylinder (i.e. below the T junction)

Connect the hot and cold supply pipes to the Ø15mm connections of the Base Unit (A), see Fig. [5].

5



Use push fit connectors (not included).

The hot water supply must be connected to the inlet marked HOT, the cold water to the inlet marked COLD.

Connect mixed water outlet to the shower set.

For mounting the shower set, refer to the related installation instructions.

Electrical installation

Electrical installation work must only be performed by a qualified electrician! This work must be carried out in accordance with the regulations to IEC 364-7-701-1984 as well as all national wiring rules!

Connecting to the power supply

Always switch off the power supply before making electrical connections.

Open cold and hot water supply.

Check the pipework and connections to the shower system for leaks.

Priming of pump

The pump cannot be allowed to run dry and the system will stop this from happening for longer than 10 seconds by switching off the system and displaying Service 20. Therefore, in cases of water supply below 10 kPa (0.1bar / 1 metre head), assistance to the priming of the pump may be necessary.

The simplest way to achieve this is by applying suction to the outlet of the Base Unit by:

- Using a hand-operated suction pump on the shower hose, or
- Sucking on the shower hose.

Where a head shower is fitted, this should first be removed and a suitable length of rubber hose temporarily fitted.

If the above does not work, the following should be checked before re-attempting the application of suction:

- Make sure that the inlet check valves are not sticking (remove temporarily).
- Make sure that the inlet filters are free from blockage.
- Make sure that the inlet service valves (if fitted) are open.

Once the system is running, temperature setting should be varied between hot and cold several times so as to help clear any air pockets from both inlet sides.

Output temperature synchronisation

In the cases where there are many metres of pipework between the Base Unit output and the shower head, compensation for cooling of water can be carried out using the SYNCHRO function.

1. Run the shower at 38 °C for a few minutes.
2. Measure the actual water temperature at shower output.

3. Switch off, enter the setup mode and select SYNCHRO.
4. Adjust the indicated temperature to the same as that actually measured,
5. Press pause to confirm,
6. Exit the setup mode correctly.

Frost damage

Keep the Base Unit free from frost to avoid damaging internal components.

Main and Remote Controllers

The Main Controller should be installed e. g. inside cubicle or over the bath.

The Remote Controller can be installed e. g. inside / outside bathroom or in the bedroom.

Both controllers can be installed maximum 10 metres from the Base Unit (depending on the wall type, thickness and construction).

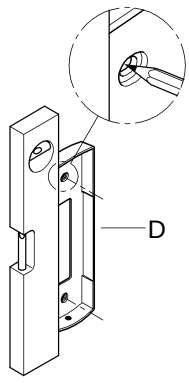
The Main and Remote Controllers are not intended as hand held devices - they must be fitted to the wall using the brackets supplied.

Refer to the installation dimensions given on Page 2.

Decide the best position. Pay attention to electrical wiring and water lines.

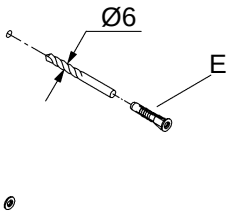
1. Align the wall bracket (D) vertically and lay out the holes for screws, see Fig. [6].

6



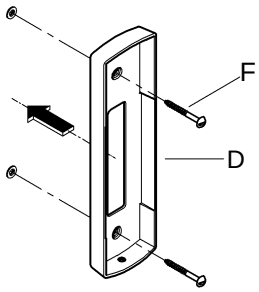
2. Drill holes for wall bracket and insert wall plugs (E), see Fig. [7].

7



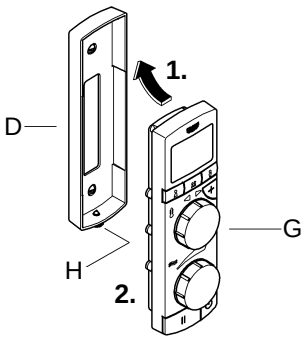
3. Fasten wall bracket (D) to wall with screws (F), see Fig. [8].

8



4. Place controller (G) in the wall bracket (D), see Fig. [9].

9



5. Secure controller (G) with retaining screw (H).

Maintenance

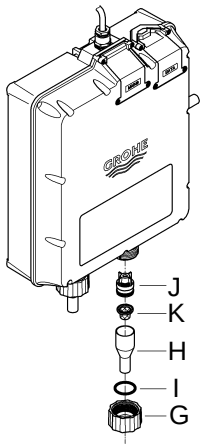
Check, clean and, if necessary, replace parts.

Non-Return Valve and filter

Shut off cold and hot water supply!

1. Unscrew connection nut (G), see Fig. [10].

10



2. Take out the copper reducer (H) and the O-ring (I).
3. Push out the non-return valve (J) and filter (K).

Assemble in reverse order.

Only genuine GROHE replacement parts must be used.

Replacement Parts

No.	Description	Cat.-No.	Packing unit	No.	Description	Cat.-No.	Packing unit
1	Non-Return Valve, Filter	45 558	1	2	Main Controller	45 441	1
	and Seal			3	Remote Controller	45 440	1

Guarantee

Guarantee declaration

Our products correspond to the valid technical and water supply standards as well as the relevant approvals requirements. We guarantee them to be free of design and production faults at the time of delivery and that with correct use and care in accordance with our printed instructions they will function reliably.

Please enter date of purchase and installation here.

GROHE

ENJOY WATER®

Our address

GROHE Limited
Blays House, Wick Road
Englefield Green,
Egham, Surrey, TW20 0HJ
GB
Tel.: +44 871 200 3414
Fax: +44 871 200 3415

GROHE Deutschland
Vertriebs GmbH
D-32457 Porta Westfalica
Tel.: +49 571 3989-333
Fax.: +49 571 3989-999