E-mini instant water heater
MBH

Application areas

Single point supply:

- > Washbasin
- > Sanitary facilities in commercial buildings
- > Kitchenette (MBH 6 or MBH 7)

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Product information

Energy efficiency class A (Scale: A+ to F)	MBH 3	MBH 4	MBH 6	MBH 7
Part number:	1500-16003	1500-16004	1500-16006	1500-16007
Type:	closed-outlet			
Maximum operating pressure [MPa (bar)]:	1 (10)			
Water connections (thread connections):	G ⅜"			
Hot water output at Δt = 25 K [1)] [l/min]:	2.0	2.5	3.3	3.7
Switch-on flow rate / max. flow rate [2)] [l/min]:	1.3 / 2.0	1.8 / 2.5	2.2 / 3.3	2.4 / 3.7
Nominal power rating [kW]:	3.5	4.4	5.7	6.5
Supply voltage [1~ / N / PE 230 V AC]:	with plug [3)]	permanent connection	permanent connection	
Supply voltage [2~ / PE 400 V AC]:				permanent connection
Nominal current [A]:	15	19	25	16
Required cable diameter [mm²]:	1.5	2.5	4.0	2.5
Bare wire heating system IES®:	✓			
VDE approved / Protection class:	✓ / IP 25			
Specific water resistance at 15 °C [Ωcm] ≥ :	1100			
Nominal volume [litres]:	0.2			
Weight filled with water [kg]:	approx. 1.5			
Dimensions (height × width × depth) [cm]:	13.5 × 18.6 × 8.8			

1) Temperature increase e.g. from 15 °C to 40 °C 2) Limited flow amount for optimal temperature increase. Can be adjusted via water amount adjustment. 3) Also available as MBH 3 (E) [part no.: 1500-160032] with power supply cable for permanent connection

Description

- Hydraulically controlled instant water heater (undersink model) with compact design for the energy-efficient hot water supply for a washbasin or a kitchenette
- The full heating capacity turns on automatically
- Efficient flow technology for an optimum water jet and economical water consumption
- The efficient bare wire heating system IES® with replaceable heating cartridge provides an extended service life and easy maintenance
- Unvented design
- Connection kit (T-piece and flexible pressure hose) for an angle valve is included
- Aerator insert for tap adapter M 22/24 at the tap is included

Saves up to 85 % energy

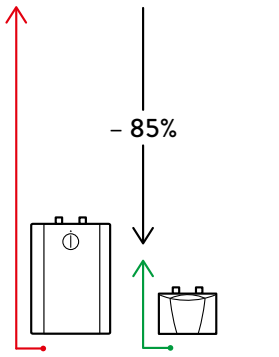
compared to 5 litre storage heaters

The water is heated instantaneously as it flows through the appliance. No hot water is stored, which eliminates the standby energy consumption otherwise required.

A comparison was made between an M3 small instantaneous water heater (3.5 kW output at a flow rate of 2 l/min) and a 5-litre storage water heater (standby energy consumption: 0.25 kWh/day at a flow rate of 5 l/min) installed in the washroom of an office building, based on the following parameters:

Daily frequency of use: 10 times
Duration of each use: 20 seconds
Temperature of use: approx. 38 °C
Number of days of use: 230 days
Electricity price per kWh: €0.35
Water and wastewater costs: €4.30 per m³

Under the stated assumptions, the lower water consumption and the elimination of standby energy losses can result in annual savings of up to €70.



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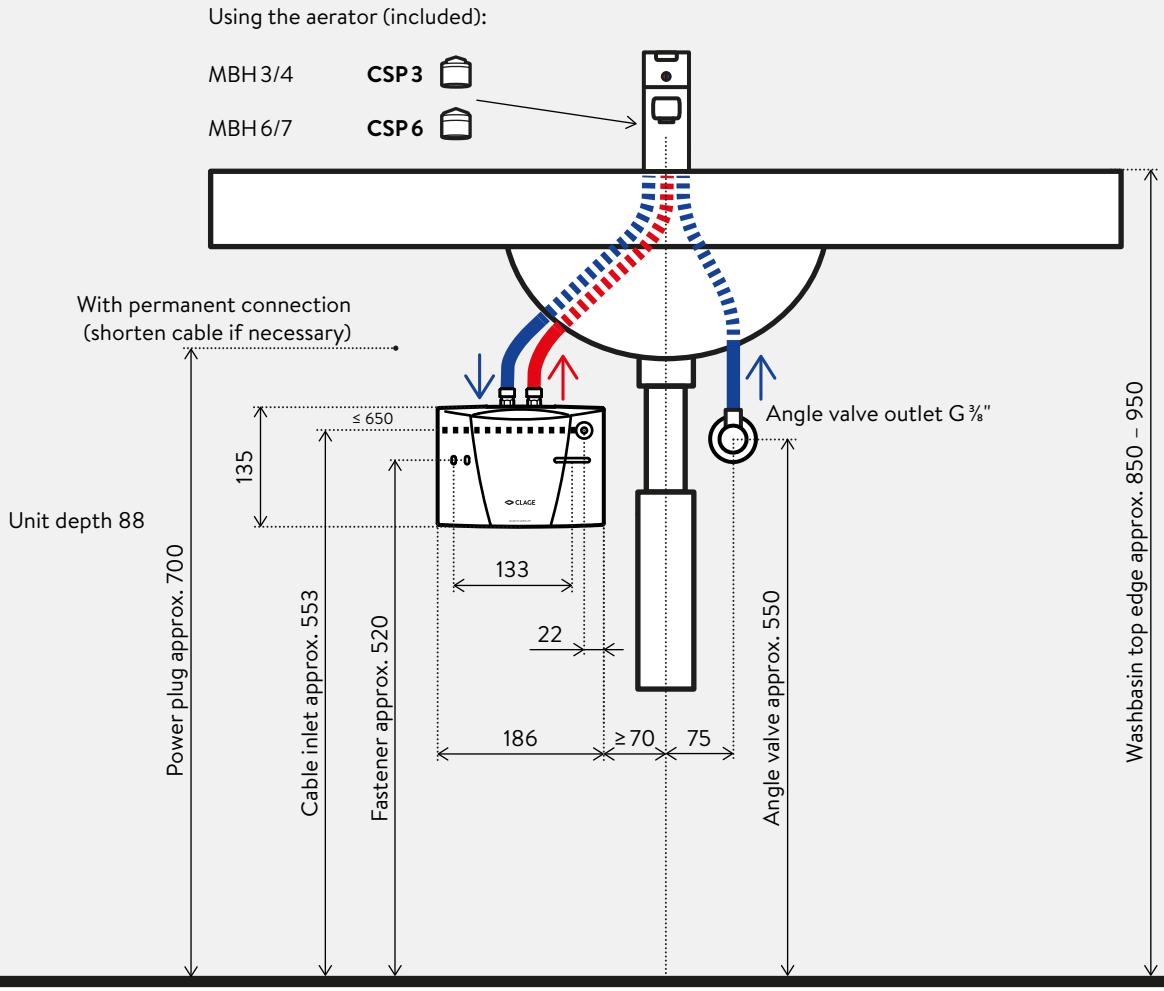
Installation

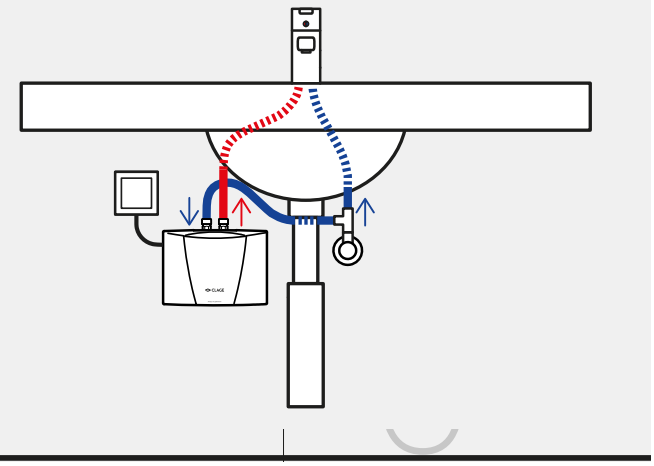
Example of an **open-outlet** installation

Assembly and operating instructions must be observed upon installation.

Measurements in mm



Alternative installation with **closed-outlet** tap.



Accessory for undersink installation (included)

FVS

Flexible connecting hose ⅜ inch cap nut × ⅜ inch cap nut, length 50 cm

Part no. 89620

T-piece

Special T-connector ⅜ inch cap nut × ⅜ inch angle valve 10 mm

Part no. 89610

Aerator CSP 3 or CSP 6 (included)

The aerator at the tap supports the energy- and water-saving operation of the compact instant water heater. The new special CSP aerators mix air into the water and thus create a uniform water stream that does not splatter but softly cascades down.

Aerator insert for tap adapter M 22/24 at the tap

CSP 3 (< 2 l / min): Part no. 0010-00421

CSP 6 (< 3.5 l / min): Part no. 0010-00461

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