



...the innovative hot water solution.



The energy saver

Mini instantaneous water heaters for hand-wash basins



Ingenious technology

Conserves resources

Protects the environment and saves costs

Water and energy are key resources which we need to use economically. That's something everyone agrees on nowadays. But how can we personally play our part?

Even an everyday activity like hand-washing is an opportunity for saving energy and water. In Germany, for example, each person uses about 10 litres of drinking water every day just for hand-washing. Often the water is heated to 65°C in a central system and pumped long distances through pipes to the wash basin. Then the water that comes out of the tap is too hot, so more cold water has to be added. This system is uneconomical and wastes precious resources. In fact, hand-washing requires only a small amount of water at a temperature of approx. 35°C. Energy-efficient, water-saving mini instantaneous water heaters by CLAGE are an environmentally friendly solution.





MCX 7 with Tara Logic mixer on
the Vero Furniture wash basin
by Duravitt

Efficient hand-washing

It's a deal!

Quick and autonomous

The benefits for you at a glance



- ✓ No waiting for hot water
- ✓ Economizes on energy and water
- ✓ Space-saving
- ✓ Hygienic and convenient
- ✓ Sustainable
- ✓ Easy to install
- ✓ Choice of different models
(also available as a set with appropriate tap)
- ✓ Ideal for wash-hand basins
in homes and commercial buildings

CLAGE mini instantaneous water heaters do what it says on the box. The water is heated at the point of use – the basin. That avoids the energy and water losses that inevitably occur with long pipe runs in central systems.

Instead of being pre-heated and stored, the water is not heated until it is actually needed. So there's no wasteful standby energy use.

Hot water keeps flowing as long as required. Unlike a hot water tank, an instantaneous water heater never 'runs dry'. This is particularly important in buildings where a lot of people wash their hands one after another at busy times. The secret of its efficiency is the innovative IES® heating system. Hot water flows out of the tap straight away. That's a decisive advantage, given that hand-washing usually takes less than 10 seconds.



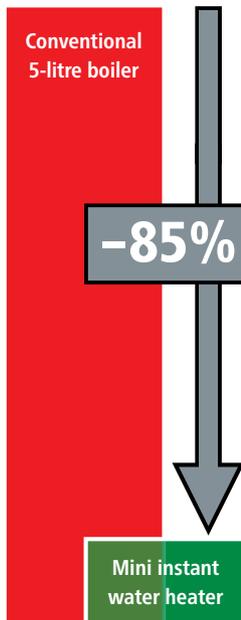
MCX7 with AEN tap on the
Duravit Stark 1 tabletop basin
Perfect complement: WHT hot-air dryer



Mini instantaneous water heaters

Simply top class

Save up to EUR 70 operating costs.



Energy consumption comparison
Source: Appliance efficiency
comparison, CLAGE GmbH

Mini instantaneous water heaters are extremely energy-efficient and already meet the EU requirements for the most energy-efficient class A that apply from September 2015. They only heat up when water flows through. Turn off the tap and the appliance switches off again automatically. That eliminates the standby energy consumption of about 250 Wh per day that's necessary with small hot water tanks.

It also avoids the heat dissipation by mixer fittings that occurs with conventional tanks. And controlling the flow rate at economical levels ensures additional water savings.

All told, operating costs of up to EUR 70 per year can be saved by utilising the benefits of a mini instantaneous water heater at the basin.



MCX BLUE with
Puris vanity unit in the
guest cloakroom

Mini instantaneous water heaters

Take up less room

Much smaller than a tank!



As well as saving energy and water, mini instantaneous water heaters also save room. Their compact dimensions enable these appliances to fit beautifully into any interior and they can even be used with small wash-hand basins.

It's amazing how neatly the unit can be tucked away behind a panel or inside a bathroom cabinet.

A mini instantaneous water heater takes up only one-tenth of the room a small tank would need. The compact dimensions (13.5 × 18.6 × 8.7 cm) are a decisive advantage in design-oriented washrooms in particular. When the mini unit is installed below the basin it is completely out of sight from eye level.



Size comparison between a 5-litre hot tank (left) and a mini instant water heater (right)

Discover our

Models

The new M series

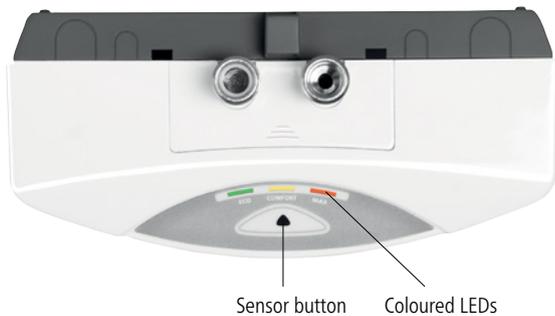




Smart and 'eco friendly'

MCX

for maximum convenience



This range-topping mini instantaneous water heater boasts an impressive range of features and outstanding design. The intelligent electronic system with flow detection automatically adjusts the power consumption for maximum efficiency.

Just touch the sensor button to preset the preferred temperature. There is a choice of three temperature settings: ECO (35 °C), COMFORT (38 °C) or MAX (45 °C). The temperature is indicated by discreet LED lights that also act as an operating and diagnostic display.

Its reliable temperature limiter also makes this appliance suitable for installation with pillar taps without a mixer function. Not only is that extremely convenient, it also saves energy and water.



ecoadapt®

The universal unit

MBH

for upmarket requirements



The MBH mini instantaneous water heater is an energy-efficient standard solution. As soon as water starts to flow through the unit it switches on at full heat output.

The MBH and MCX models are always a good choice as they are suitable for either vented or unvented installation. Both models are supplied with a connection set comprising a T-piece with union nut for a $\frac{3}{8}$ " angle valve and a flexible pressure hose to facilitate unvented installation.

The standard solution

M

with open-outlet tap



The inexpensive, hydraulically controlled model M3..7 is quick and easy to install. The unit requires a special tap for vented water heaters.

This "open-outlet tap" has three water connection hoses and is often already fitted in conjunction with a small storage tank. The M3..7 mini instantaneous water heater is therefore the right choice when replacing conventional small storage tanks combined with low-pressure fittings.

Mini instantaneous water heater

M/Sets

with tap for easy installation



M/SMB

Over-sink instantaneous water heater with two-handle mixer



MBX Lumino

Electronic under-sink instantaneous water heater with contactless sensor tap



MCX BLUE

Electronic under-sink instantaneous water heater with innovative single-lever mixer



M/END

Under-sink instantaneous water heater with standard single-lever mixer



M/SNM

Under-sink instantaneous water heater with standard two-handle mixer

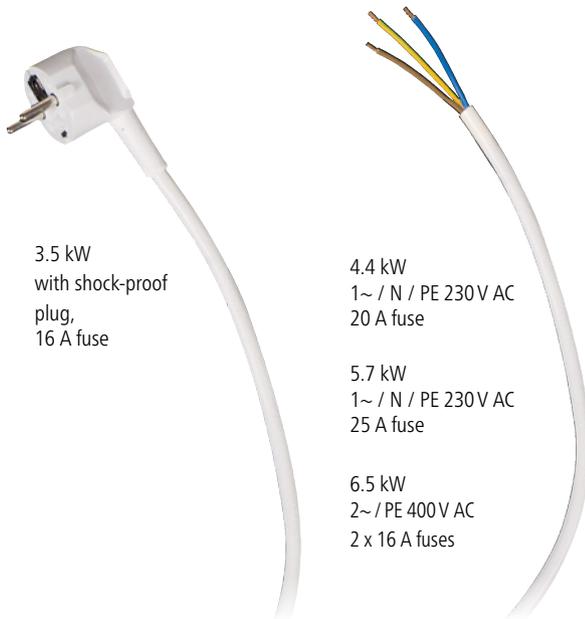


MCX7 with EAK tap
and Zip HydroTap®
in a kitchenette

Various power outputs available

Versatile

Plug-in or wired in



Every mini instantaneous water heater model is available in four different output levels. The higher the power rating of the appliance the more water can be heated as it flows through.

An appliance with a shock-proof plug is generally perfectly sufficient at a wash-hand basin. This delivers two litres of hot water per minute. The innovative flow technology provides an optimum water jet and economical water consumption.

If more hot water is needed, for instance in a kitchenette where dishes are sometimes washed as well, a higher power rating is necessary, preferably 6.5 kW. This requires a 400 V connection which can be provided without any problem in new buildings and can often be implemented in existing buildings too.



MCX installation video

MBH3 with the
Alape WT GR 800
basin

Straightforward

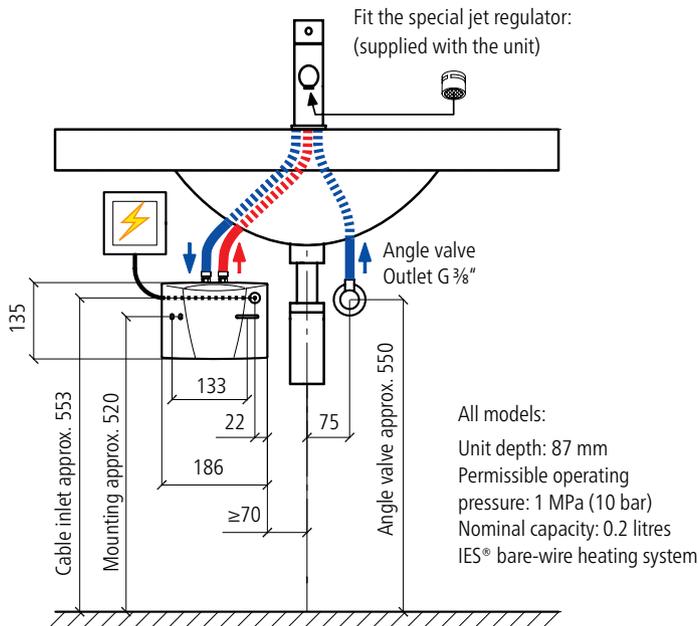
Easy to install

Well thought-out, down to the details

Vented installation

M, MBH, MCX

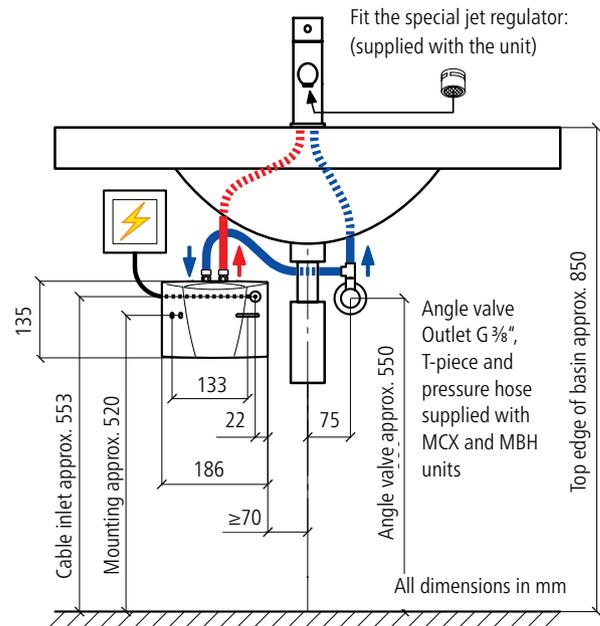
with open-outlet tap
(three connecting hoses)



Unvented installation

MBH, MCX

with standard tap
(two connecting hoses)



Electronically controlled mini instantaneous water heater MCX



For use with standard taps (with two or three connecting hoses).

Model	MCX3 SMARTRONIC®	MCX4 SMARTRONIC®	MCX6 SMARTRONIC®	MCX7 SMARTRONIC®
Article number	15003	15004	15006	15007
Energy efficiency class *)	A	A	A	A
Application	Washbasin / kitchenette			
Siting	Under-sink unit			
Type	unvented ¹⁾			
Water connections (screwed connections)	G 3/8" ²⁾	G 3/8" ²⁾	G 3/8" ²⁾	G 3/8" ²⁾
Factory set temperature	°C	35, 38, 45 ³⁾	35, 38, 45 ³⁾	35, 38, 45 ³⁾
Hot water output at Δt = 25 K ⁴⁾	l/min	2.0	2.5	3.3
Switch-on flow – maximum flow rate ⁵⁾	l/min	1.2 – 2.0	1.5 – 2.5	1.5 – 3.3
Nominal output ⁶⁾	kW	3.5	4.4	5.7
Voltage		1~ / N / PE 220–240 V AC		2~ / PE 400 V AC
Nominal current	A	15	19	25
Required min. cable cross-section	mm ²	1.5	2.5	4.0
VDE approval / protection class		• / IP 25	• / IP 25	• / IP 25
Control		Electronically regulated, i.e., output is automatically adjusted to demand		
Min. water resistance at 15°C	Ωcm	1100	800	800
Electronics with temperature and flow sensors		•	•	•
Replaceable heater cartridge		•	•	•
Mains lead ⁷⁾ with plug / for permanent connection		• / –	– / •	– / •
T-piece with pressure hose / special jet regulator		• / •	• / •	• / •
Compatible with solar systems (inlet temperature < 70°C)		•	•	•
Smart Control capability / remote control		• / as an accessory	• / as an accessory	• / as an accessory
Approx. weight when filled with water	kg	1.5	1.5	1.5
Set with innovative single-lever mixer, Easy-Fix mounting (see page 14)		MCX BLUE Art No. 15133		
Set with contactless sensor tap, with LED ring and hygienic rinse (see page 14)		MBX3 Lumino Art No. 15113		MBX7 Lumino Art No. 15117

• = Present or yes *) Information corresponds to provisional requirements for EU Directive 812/2013 which comes into force in September 2015 ¹⁾ Also suitable for vented installation
²⁾ 1/2" water connections upon request ³⁾ Maximum delivery temperature depends on the rated power, inlet temperature and flow rate. If necessary reduce the flow rate at the tap. Restricted function for reduced power of MCX 3. ⁴⁾ Temperature increase from e.g. 15°C to 40°C ⁵⁾ Factory setting: limited flow in order to achieve optimum temperature increase. Can be altered by adjusting the water flow. ⁶⁾ Note local power supply company's specifications

Mini instantaneous water heater MBH

For use with standard taps (with two or three connecting hoses).



Typ		MBH 3	MBH 4	MBH 6	MBH 7
Article number		16003	16004	16006	16007
Energy efficiency class *)		A	A	A	A
Application	Washbasin / kitchenette	• / –	• / –	• / •	• / •
Siting	Under-sink unit	•	•	•	•
Type	unvented ¹⁾	• / •	• / •	• / •	• / •
Water connections (screwed connections)		G 3/8" ²⁾	G 3/8" ²⁾	G 3/8" ²⁾	G 3/8" ²⁾
Hot water output at $\Delta t = 25 \text{ K}$ ³⁾	l/min	2.0	2.5	3.3	3.7
Switch-on flow – maximum flow rate ⁴⁾	l/min	1.3 – 2.0	1.8 – 2.5	2.2 – 3.3	2.4 – 3.7
Nominal output ⁵⁾	kW	3.5	4.4	5.7	6.5
Voltage		1~ / N / PE 230V AC			2~ / PE 400V AC
Nominal current	A	15	19	25	2 × 16
Required min. cable cross-section	mm ²	1.5	2.5	4.0	2.5
VDE approval / protection class		• / IP 25			
Control		Hydraulic, i.e. unit heats up at full heat output when in use			
Min. water resistance at 15°C	Ωcm	1100	1100	1100	1100
Replaceable heater cartridge		•	•	•	•
Power supply cable with plug / for permanent connection		• / –	– / •	– / •	– / •
T-piece with pressure hose / special jet regulator		• / •	• / •	• / •	• / •
Approx. weight when filled with water	kg	1.5	1.5	1.5	1.5

• = Present or yes *) Information corresponds to provisional requirements for EU Directive 812/2013 which comes into force in September 2015 ¹⁾ Also suitable for vented installation
²⁾ 1/2" water connections upon request ³⁾ Temperature increase from e. g. 15 °C to 40 °C ⁴⁾ Factory setting: limited flow in order to achieve optimum temperature increase. Can be altered by adjusting the water flow. ⁵⁾ Note local power supply company's specifications



Removable rating plate cover on all models

The rating plate is concealed behind a removable cover. This improves the look whilst at the same time ensuring that all important information is right there for the tradesman. The main bolt securing the hood and a screw for adjusting the flow rate are located under this cover.



Mini instantaneous water heater M

Only for use with open-outlet taps (with three connecting hoses)



Model		M3	M4	M6	M7
Article number		17003	17004	17006	17007
Energy efficiency class *)		A	A	A	A
Application	Washbasin / kitchenette	• / –	• / –	• / •	• / •
Siting	Under-sink unit	•	•	•	•
	Over-sink unit	M3-0	M4-0	M6-0	M7-0
Type	Vented	•	•	•	•
Maximum static pressure	MPa (bar)	Vented	Vented	Vented	Vented
Water connections (screwed connections)		G 3/8" 1)	G 3/8" 1)	G 3/8" 1)	G 3/8" 1)
Hot water output at $\Delta t = 25 \text{ K}$ 2)	l/min	2.0	2.5	3.3	3.7
Switch-on flow – maximum flow rate 3)	l/min	1.3 – 2.0	1.8 – 2.5	2.2 – 3.3	2.4 – 3.7
Nominal output 4)	kW	3.5	4.4	5.7	6.5
Voltage		1~ / N / PE 230V AC			2~ / PE 400V AC
Nominal current	A	15	19	25	2×16
Required min. cable cross-section	mm ²	1.5	2.5	4.0	2.5
VDE approval / protection class		• / IP 25			
Control		Hydraulic, i.e. unit heats up at full heat output when in use			
Min. water resistance at 15°C	Ωcm	1100	1100	1100	1100
Replaceable heater cartridge		•	•	•	•
Power supply cable with plug / for permanent connection		• / –	– / •	– / •	– / •
T-piece with pressure hose / special jet regulator		– / •	– / •	– / •	– / •
approx. weight when filled with water	kg	1,5	1,5	1,5	1,5
Sets (see page 14)	With single-lever mixer	M3 / END Art. No. 17243			
	With two-handle mixer	M3 / SNM Art. No. 17203	M4 / SNM Art. No. 17204		
	With over-sink tap	M3 / SMB Art. No. 17103	M4 / SMB Art. No. 17104		M7 / SMB Art. No. 17107

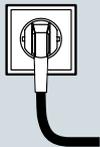
- = Present or yes *) Information corresponds to provisional requirements for EU Directive 812/2013 which comes into force in September 2015.....1) 1/2" water connections upon request
 2) Temperature increase from e. g. 15 °C to 40 °C 3) Factory setting: limited flow in order to achieve optimum temperature increase. Can be altered by adjusting the water flow.
 4) Note local power supply company's specifications

Checklist to help select the right unit

To find the appropriate mini instantaneous water heater model for a particular application, it is helpful to answer the following questions first:



- ✓ Do you want the option of temperature preselection or scald protection?
- If so, you should select the MCX 3..7.



- ✓ Can rewiring be carried out, or do you only have a shock-proof socket available?
- If using a socket you should select a unit with a 3.5 kW power rating (MCX 3 or MBH 3 or M3).



- ✓ Do you want to use an existing tap?
- If so, check whether that tap has an M22 / M24 thread on the outlet for the jet regulator supplied with the unit. Select model M 3..7 for vented taps (with 3 connecting hoses) and an MBH 3..7 or MCX 3..7 for unvented taps (with 2 connecting hoses).



- ✓ Don't have a tap yet, or not sure which tap is best with the unit?
- Select a set which includes the optimum tap for use with the particular unit. We recommend MBX 3 / 7 Lumino or MCX BLUE (see page 14).

If you have any other questions just give us a call on (04131) 89 01-38.

We will be happy to advise you.

Your CLAGE team



...the innovative hot water solution.

CLAGE – leading technology for individual water heating on demand

As well as mini instantaneous water heaters for wash-hand basins
CLAGE can also supply on-demand instantaneous water heaters
characterised by attractive design, superior quality and economical
operation for any application.



CFX-U under-sink
instantaneous water heater
at kitchen sink



DSX SERVOTRONIC MPS®
electronic instantaneous water
heater in bathroom



ZIP HydroTap®
potable water system
in the kitchenette

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