

FREEDOM WITH  
COMFORT LIKE AT  
HOME

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MADE IN   
GERMANY 



**SCHAEER** First class heating systems

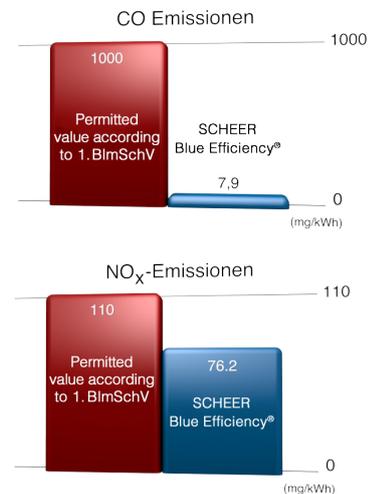
The company SCHEER, based in Schleswig-Holstein, has been an innovative manufacturer of heating systems since 1953 and is known far beyond Germany for its blue flame burner technology.

SCHEER has always risen to the challenge of developing ever more energy-efficient and environment-friendly processes and products, while at the same time constantly improving the comfort of heat generation.

## Best environmental values

Optimum fuel combustion plays a special role in this. Our heaters in mobile homes with the Blautherm® DUO burner, fall below the strict TÜV guidelines for domestic heating systems by far.

The automatic altitude control ensures that in every region of the world, the heating system works perfectly.



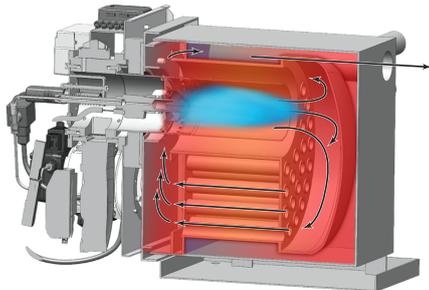
# HEATING IN ALL HEIGHTS



# Water heating system



MH 10/17



KBA



## 1. Diesel heating system

**Blue Efficiency**<sup>®</sup> burners from SCHEER can be operated with all conventional liquid fuels such as diesel, heating oil or gas oil. They are sustainably designed for alternative fuels, such as GTL (Gas to Liquid) and are thus prepared for the fuels of the future.

## 2. Blue burner technology

In the mobile market, our **Blue Efficiency**<sup>®</sup> technology is unique and offers unprecedented efficiency.

## 3. 100% soot-free

Thanks to the **Blue Efficiency**<sup>®</sup> blue burner technology, the MH series has a complete combustion and is therefore 100 % soot-free. This also leads to lower maintenance costs, because the boiler remains permanently clean, even on the inside, without any soot.

## 4. Efficiency of 94% with low fuel consumption

With the sustainable **Blue Efficiency**<sup>®</sup> technology combined with soot-free combustion, the MH series achieves a permanent efficiency of 94 %, which ensures that the efficiency of the boiler is permanently guaranteed. This means a reduction in energy consumption of up to 30 % and fuel savings of up to 15 % are possible.

## 5. Automatic altitude control

The automatic altitude control provides a fully automatic, consistent combustion quality and thus a continuation of high efficiency. Whether by the sea or in the mountains, the blue burner adapts optimally to the conditions of the altitude and thus also to the oxygen content.

# Feel-good warmth like at home

*The best for comfort in your vehicle!*

## **6. Heating with hybrid connection**

The MH series is optionally equipped with a 3 kW electric hybrid connection. This enables your caravan to be heated without fossil combustion. This allows you to guarantee the frost resistance of your system with electrical power. This hybrid solution is integrated on the boiler side. You have no additional space requirement for this option.

## **7. Pleasant, quiet heat**

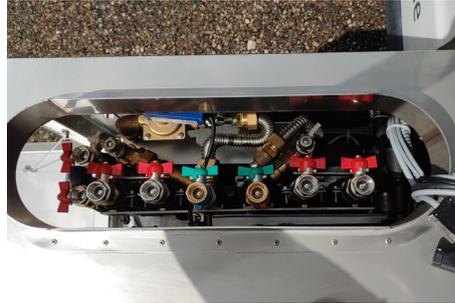
Our hot water heaters from SCHEER provide pleasant warmth and reliable comfort in your mobile home. The combination with underfloor heating or radiators ensures balanced and noiseless heat distribution. This ensures a comfortable indoor climate.

## **8. Low exhaust gas temperatures**

The heating systems in the MH series have low flue gas temperatures below 220 °C. The heating energy remains in the system and is not lost via the exhaust system. The high efficiency ensures that the heat is used optimally.



The MH series optionally available as a plug-and-play solution pre-assembled in a compact stainless



*Optional with hybrid connection*

### Your advantages

- Hot-water leading heater with **Blue Efficiency**<sup>®</sup> blue burner technology
- Pre-assembled plug-in solution for connection in your vehicle
- Combi version for unlimited heating of fresh water
- Suitable for radiators, underfloor heating, air heaters, engine heaters
- Automatic altitude adjustment according to the location of your vehicle
- Smallest dimensions especially for mobile use
- Low-noise operation
- Room thermostat, telemonitoring and tank level control (option)



Soot-free and therefore environment-friendly



24/7 operating safety

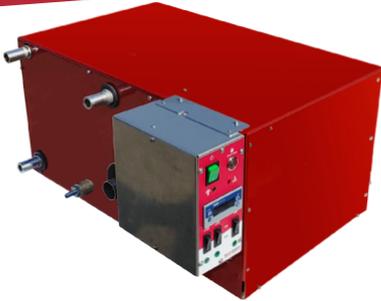


Service-friendly and low-maintenance



Approved for extreme altitudes

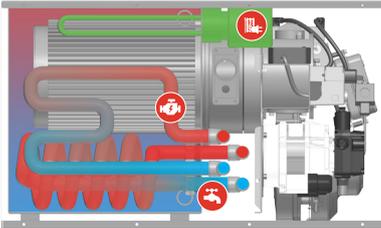
# Water heating system MH micro



Like all our water heaters in the MH series, the MH micro is also equipped with our **Blue Efficiency**® blue burner. The complete combustion ensures a permanently clean boiler without any soot. The central heating system works with an open, pressureless system.

The diesel heating is equipped with 10 or 20 kW output.

The MH 10 micro convinces with its small dimensions (W: 46 cm, H: 30 cm, D: 60 cm) and low weight of only 38 kg.

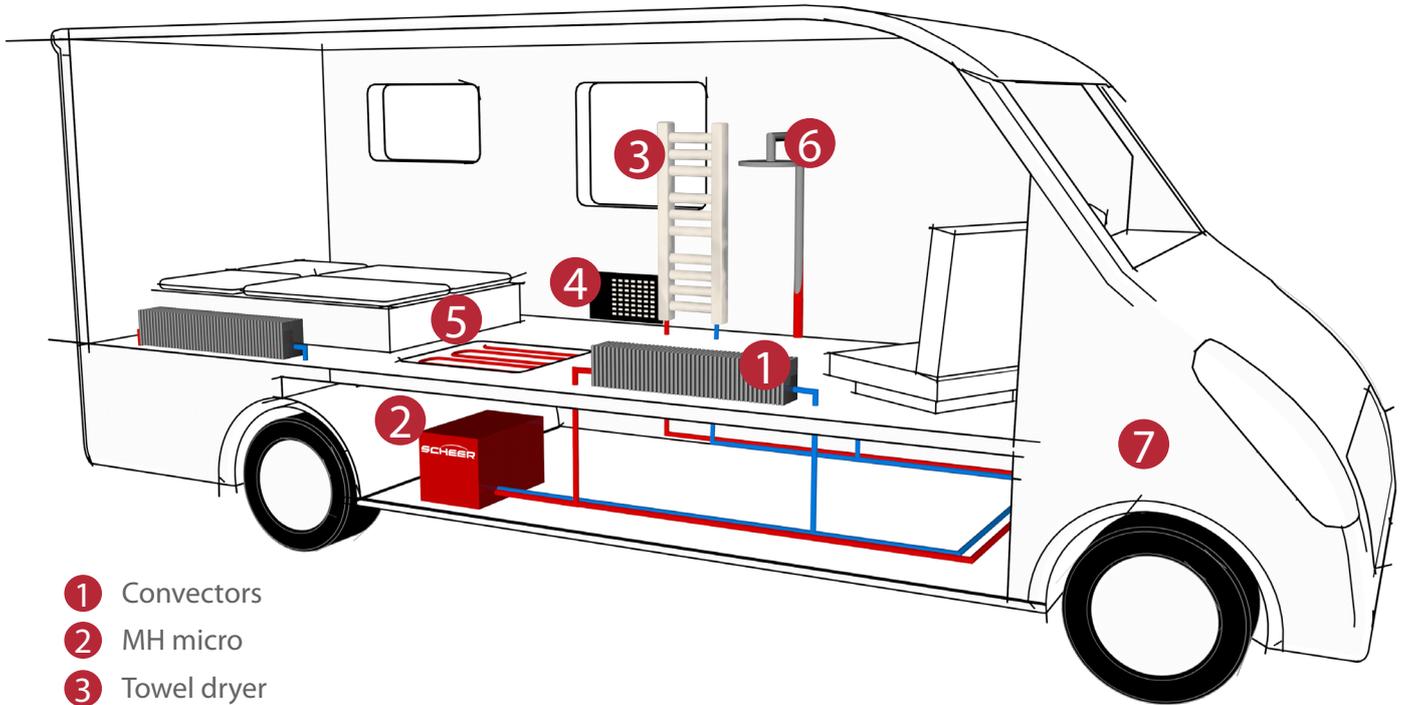


For unlimited showers, the fresh water is heated by means of an integrated plate heat exchanger. You can choose how to provide your mobile home with soothing warmth. Whether with radiator heaters, underfloor heating or with air heaters, everything is possible.



***Shower comfort like at home. Don't miss out on anything while travelling!***

# Comfort without compromise



- 1 Convector
- 2 MH micro
- 3 Towel dryer
- 4 Water-air heat exchanger
- 5 Underfloor heating
- 6 Hot water supply
- 7 Engine heating /using engine heat

# Water-air heat exchanger

*Silencio 1*



- Silent fan with low power consumption
- Can also be switched directly without fan controller
- Equipped with a noiseless energy-saving fan

*Silencio 2*



*Compact EVO 1 ED4*



- central Water-air heat exchanger
- Ideal for warm air supply at several positions of the vehicle
- The outlets can be easily fitted to the heater using the two side sliders on the side of the heater, with a clip holding them securely in place.

| description       |                   | Silencio 1                   | Silencio 2 | Compact EVO 1 |
|-------------------|-------------------|------------------------------|------------|---------------|
| Heating capacity  | kW                | 1,7                          | 5,5        | 4,3           |
| Air stream        | m <sup>3</sup> /h | 110                          | 250        | 230           |
| Power consumption | W                 | 7                            | 16         | 70            |
| Noise level       | dB                | 48                           | 48         | 63            |
| Weight            | kg                | 1                            | 2          | 2,2           |
| Water connection  | Ø mm              | 1/2", 3/4", Ø 16 mm, Ø 22 mm |            |               |

**variants**

Voltage: 12 V / 24 V

## Room thermostat incl. Wifi and touchscreen



- The SCHEER room thermostat offers you the possibility to control radiators, underfloor heating or water-air heat exchangers.
- It has a manual and an automatic mode in which individual time programmes can be set for weekdays, Saturday and Sunday.
- A temperature sensor is integrated in the unit for measuring the room temperature. However, with the external sensor included in the scope of delivery, the temperature can also be measured at a distance of up to 2.5m.
- The thermostat is operated via the touch display or the smartphone app. For this purpose, the thermostat can establish an internet connection via the existing WLAN interface. In this way, the room temperature can also be called up and adjusted remotely.

# Convectors and bath radiators

## Towel radiator 300 x 600 mm



The SCHEER towel dryer is specially designed for use in the bathroom. Due to a high heat output and particularly compact installation dimensions it is suitable for mobile homes and caravans. The SCHEER towel dryer is suitable for use in unpressurised systems as well as pressurised systems.

### Technical Data

Power: 250 W  
Height: 600 mm  
Width: 300 mm  
Weight: 4,0 kg  
Connection: 1/2" , 3/4" , Ø 22 mm

## Radiators



Radiator made of beautifully shaped aluminium profile. Suitable for rooms with little space, e.g. bathroom or cupboards, where it is difficult to install convectors.

Convectors out of copper and aluminium incl. mounting 18mm

### Technical Data

Power: 110 / 150 W  
Height: 500 / 700 mm  
Width: 220 mm  
Weight: 1,7 / 2,4 kg  
Connection: 1/2" , 3/4" , Ø 22 mm

## Convectors out of copper and aluminium incl. mounting Ø 18 mm



### Technical Data

Height incl. mounting: 78 mm  
Width incl. mounting: 35, 56 mm  
Power: 550 W/m  
Weight: 0,4 kg/m  
Connection: 1/2" , 3/4" , Ø 22 mm

SCHEER convectors heat the room highly efficiently. The curved fins provide the best heat transfer. The SCHEER convectors are designed for use in systems as well as pressurised systems.

# Comfort like at home



## Special equipment:

- Heating with hybrid connection (electric heating)
- Fresh water heating by means of
- plate heat exchanger
- Preheating of the vehicle's drive section and use of engine heat
- Room thermostat, telemonitoring and Tank level control

Top class heating systems

# Technical Data

|                                    |     | MH 10 micro   | MH 20 micro L | MH 10/17                              | MH 15/23          | MH 30/40          |
|------------------------------------|-----|---|---------------|---------------------------------------|-------------------|-------------------|
|                                    |     | open (unpressurised) system                             |               | closed (pressurised) system           |                   |                   |
| Heating capacity                   | kW  | 10  | 20            | 10/17                                 | 15/23             | 30/40             |
| Max. operating pressure            | bar | 0,5   | 0,5           | 3                                     | 3                 | 3                 |
| Dimensions (W / H / D)             | cm  | 46 / 30 / 60  | 46 / 30 / 74  | 38 / 44 / 59 (**)                     | 41 / 38 / 64 (**) | 49 / 44 / 70 (**) |
| Weight                             | kg  | 38  | 41            | 55                                    | 60                | 95                |
| Efficiency                         | %   | 94  | 94            | 93                                    | 93                | 94                |
| Fresh water heating                |     | integrated water heating                                |               | optional (combi) plate heat exchanger |                   |                   |
| Boiler volume                      | l   | 20  | 32            | 18                                    | 23                | 37                |
| Fuel                               |     | Diesel / fuel oil and GTL/BTL according to DIN EN 15940 |               |                                       |                   |                   |
| Oil nozzle                         |     | 0.18 / 80°SCD   | 0.25 / 80°SCD | 0.30 / 60°SCD                         | 0.35 / 60°SCD     | 0.65 / 60°SCD     |
| Nominal voltage                    | V   | 230   | 230           | 230                                   | 230               | 230               |
| Power consumption (in operation) * | A   | 0,89  | 0,89          | 0,94                                  | 0,94              | 0,94              |
| Exhaust temperature                | °C  | 170 - 210   | 180 - 220     | 150 - 210                             | 145 - 205         | 145 - 205         |

\* Assumption: 220V power supply, 10 min. burner operation per hour of heating operation including boiler circulation pump. Without pumps for heating circuits

\*\* Dimensions without control box / pipe group / expansion vessel



**SCHEER Heizsysteme & Produktionstechnik GmbH**

Chausseestraße 16

D-25797 Wöhrden

Tel. +49 (0) 48 39 905-0

E-Mail [info@scheer-heizsysteme.de](mailto:info@scheer-heizsysteme.de)

Web [www.scheer-heizsysteme.de](http://www.scheer-heizsysteme.de)



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