

FREEDOM WITH  
COMFORT  
LIKE AT HOME



MADE IN  
GERMANY



**SCHAEER** Top class heating systems

## Top class heating systems

### The Company

The long-established family business SCHEER, based in Schleswig-Holstein, has been an innovative manufacturer of heating technology since 1953 and is renowned far beyond Germany's borders for its blue burner technology.

SCHEER has always embraced the challenge of developing more energy-efficient and environmentally friendly processes and products, while continually improving the comfort of heat generation.

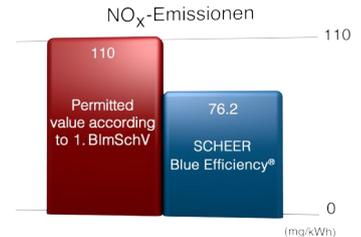


### Outstanding Environmental Performance

Optimal fuel combustion is at the core of our mission.

Our mobile heating units, equipped with our Blautherm® DUO Blue Efficiency® burner, significantly outperform the strict TÜV standards for residential systems.

Automatic altitude adjustment ensures optimal heating performance in every region of the world.



# 72 YEARS

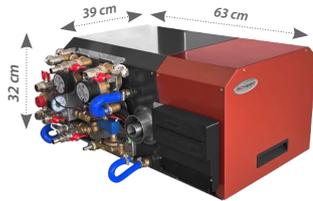
...my journey ...my SCHEER ...my coziness

Environmentally friendly heating with liquid fuel  
On the road without sacrificing anything –  
shower comfortably like at home  
Warmth for your well-being

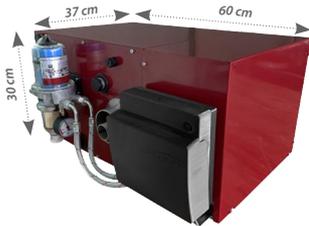
**SCHEER**

# Heating Systems of the highest class

## selection



## micro



## nano



### 1. Diesel Heating Unit

SCHEER's **Blue Efficiency**® burners can operate with all conventional liquid fuels such as diesel, heating oil, or gas oil. They are also sustainably engineered for alternative fuels like GTL (Gas to Liquid) and HVO, making them suitable for fossil-free operation.

### 2. Blue Burner Technology

In the mobile heating market, our **Blue Efficiency**® burner technology is unique, delivering a level of efficiency previously unmatched.

### 3. Soot-Free Operation

Thanks to the **Blue Efficiency**® burner technology, our water heaters achieve complete combustion and are therefore soot-free. This minimizes maintenance costs, as the boiler remains clean without any soot buildup.

### 4. 94% Efficiency with Low Fuel Consumption

With sustainable **Blue Efficiency**® technology and soot-free combustion, our water heaters consistently achieve an efficiency of 94%, ensuring optimal boiler performance. This allows for energy savings of up to 30%.

### 5. Hybrid Heating Capability

All SCHEER mobile heaters come equipped with a 3 kW electric hybrid connection. This allows you to heat your motorhome without fossil fuel combustion and ensures frost protection using electric power alone. The hybrid solution is integrated into the boiler system and requires no additional space.



# Water heating system

## **6. Pleasant, Quiet Warmth**

SCHEER water heaters provide cozy warmth and reliable comfort in your mobile home. When combined with underfloor heating or radiators, they ensure even and silent heat distribution for a comfortable indoor climate.

## **7. Low Exhaust Temperatures**

SCHEER's mobile heaters feature low exhaust gas temperatures, meaning the heat energy remains in the system and is not lost through the exhaust. The high efficiency ensures optimal use of heat.

## **8. Automatic Altitude Adjustment**

Automatic altitude adjustment ensures consistent combustion quality and maintains high efficiency. Whether at sea level or in the mountains, the blue burner continuously and precisely adapts to altitude and oxygen levels.



**HEATING IN EVERY HEIGHT**

# Water heating system selection



## The fully equipped premium solution

Equipped with a two-stage blue burner, our new pressure-resistant water heater SCHEER selection ensures reliable and safe heat supply in your motorhome.

The pre-assembled plug-in solution allows for easy installation, including piping for radiators and underfloor heating – delivering instant warmth in your mobile home.

**50%**  
Lower Energy  
Consumption

- Two-stage 10/17 kW blue burner Blue Efficiency®
- Combination version for unlimited domestic hot water supply
- With integrated plate heat exchanger
- Hybrid heating (Diesel / Electric up to 3 kW)
- Plug-and-play solution incl. 2 heating circuits, engine preheating, flushing connection, mixing valve for underfloor heating

- Pressure-resistant, hot water heating system
- Stainless steel boiler
- Compact dimensions – specially designed for mobile use
- Outstanding environmental performance
- Optional: Individual room temperature control via app
- Proven for mobile applications



## The smallest blue burner in the world

The pressure-resistant water heater SCHEER nano is a diesel-powered heating system with an output of 7 kW.

It features automatic altitude adjustment for optimal performance at various elevations. Thanks to its innovative blue burner technology, the heater operates with exceptional efficiency and environmental friendliness.

In addition, it offers a hybrid function with up to 3 kW of electric power, making it even more versatile in its applications.

- 7 kW output
- Pressure-resistant stainless steel boiler
- Compact dimensions
- W/H/D 32 cm \* 25 cm \* 49 cm
- Detachable control unit

- Ideal replacement for gas heaters
- Unlimited shower comfort like at home thanks to integrated hot water heating
- Lightweight – only 32 kg
- Hybrid function (diesel / electric up to 3 kW)
- Optional: Individual room temperature control via app
- Optional: Preheating of the engine section and use of engine heat

**50%**  
Lower Energy  
Consumption



# Technical Data

		selection	micro	nano
Output Power	kW	10/17	10	7
Dimensions (W/H/D)	cm	39 / 32 / 63	37 / 30 / 60	32 / 25 / 49
Weight	kg	53	42	32
Efficiency	%	94	94	94
Boiler Water Volume	l	17	17	8
Rated Voltage (Burner)	V	6,6	6,6	6,4
Current Draw (Burner Operation, 12V)	A	230	230	230
Rated Voltage (Control & Pumps)	V	12 / 24	12 / 24	12 / 24
Normal Heating System Pressure	bar	1,5	1,5	1,5
Max. Fresh Water Pressure	bar	10	10	10
Exhaust Outlet	mm	Ø 35	Ø 35	Ø 35
Exhaust gas temperature (directly at the device)	°C	approx. 170	approx. 160	approx. 150



Soot-free and environment-friendly



operationally safe



Service-friendly and low maintenance



Suitable for extreme altitudes

*Fuel Compatibility: Diesel according to DIN EN 590, heating oil according to DIN 51603-1, and e-fuels such as HVO, GTL, or BTL to DIN EN 15940*

## special equipmant

- preheating of the vehicle's engine and utilization of engine heat
- room thermostat with app connectivity
- tank level monitoring: timely shutdown when tank is empty

# SCHEER HeatMate®



## **Experience the new control for nano, micro, and selection: the SCHEER HeatMate®.**

Enjoy versatile connectivity options, convenient operation of your heater from the living area, and the extensive functions available to you while traveling.

### ***Extensive connectivity***

The HeatMate® is equipped with CAN and Modbus interfaces as well as various volt-free (potential-free) control inputs. This allows your SCHEER heater to be integrated quickly and easily into your motorhome's central control unit and gives you the flexibility to outfit your mobile home exactly the way you want.

### ***Comfortable operation***

The compact HeatMate® control unit is your reliable companion on every trip. Operation is conveniently carried out from the living area, and the control unit can be placed anywhere. In addition, you receive detailed information about the heater's status and can configure and control it precisely to your needs.

At any time, you decide whether and how you want to heat. Choose between the diesel heater, the electric heater, or a hybrid mode to make optimal use of available resources at all times. And if you want absolute quiet for a few hours at night, Night Mode is available.

- New unified control for nano, micro, and selection
- CAN and Modbus interface
- Convenient control unit
- Intelligent energy saving
- New Night Mode

### ***Extensive functions***

The HeatMate® intelligently saves electrical energy. It activates your inverter at exactly the right time, putting an end to unnecessary idle currents.

# SCHEER room thermostat

incl. WLAN und Touch-Display



- SCHEER room thermostats allow you to control radiators, underfloor heating, or fan heaters. The integrated battery safeguards the data even in the event of a power outage.
- They offer both a manual mode and an automatic mode, in which individual time programs can be set for weekdays, Saturday, and Sunday.
- A temperature sensor is integrated into the device to measure room temperature. With the external sensor included in the scope of delivery, the temperature can also be measured at a distance of up to 2.5 m.
- The thermostat is operated via the touch display or by smartphone app. For this purpose, the thermostat can establish an internet connection via the built-in Wi-Fi interface. This allows you to view and adjust the room temperature remotely.

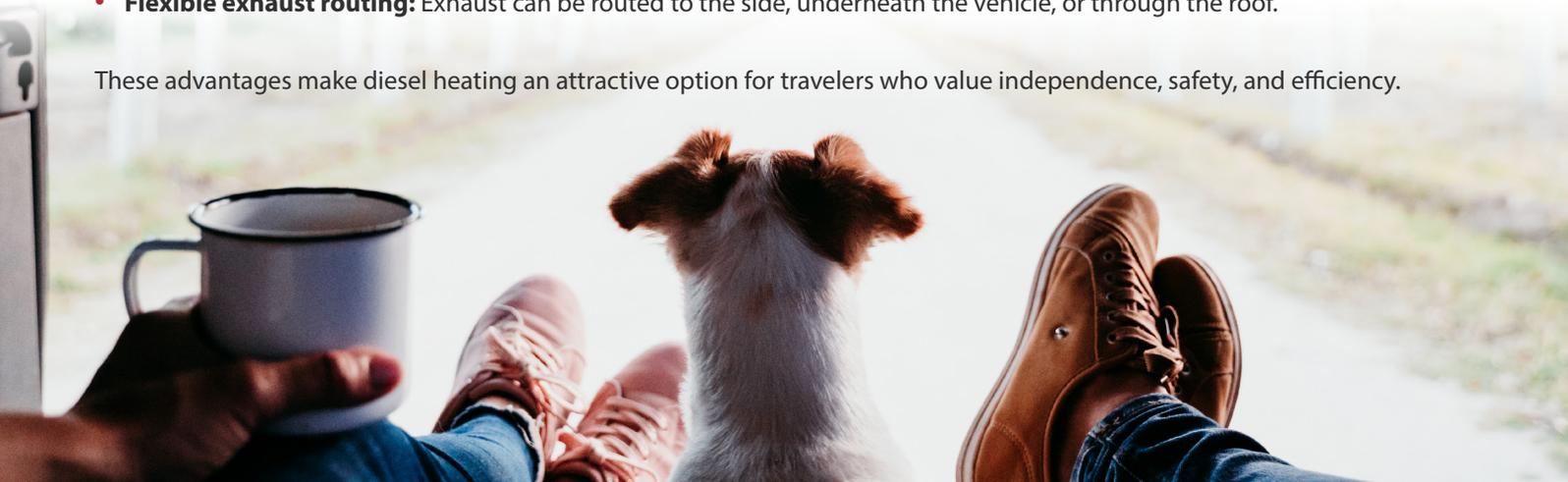


# Your advantages

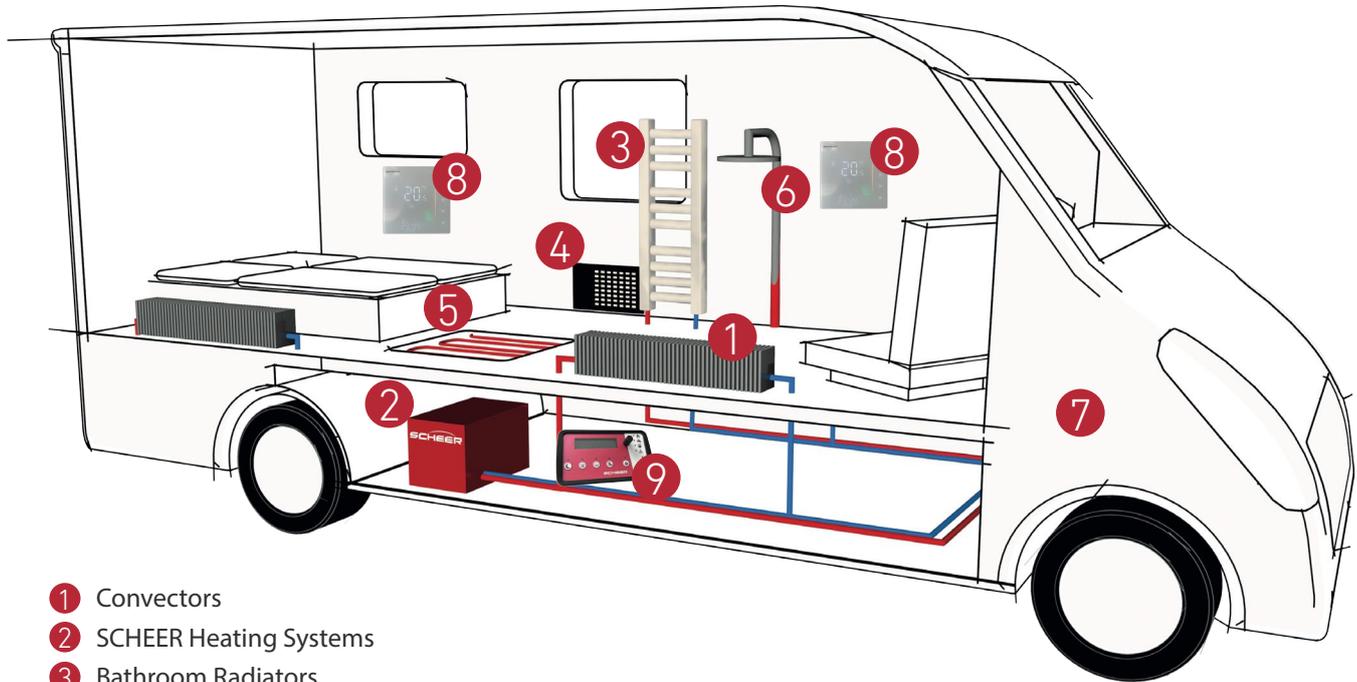
A diesel heater in a motorhome offers clear advantages over a gas heater:

- **Weight savings:** Eliminating gas cylinders significantly reduces the overall weight of the motorhome. Diesel heaters use the vehicle's existing fuel tank, so no additional gas cylinders are needed.
- **Self-sufficient operation:** Diesel is available almost everywhere, making a diesel heater independent of regional regulations and gas availability.
- **Space savings:** Without gas cylinders, you gain additional storage space in the motorhome.
- **Safety:** Diesel is less explosive than gas, reducing safety risks.
- **Cost-effectiveness:** Since diesel heaters use the same fuel as the vehicle, you don't have to worry about refilling separate gas cylinders, which can save costs in the long run. It also eliminates the risk of not finding a compatible gas cylinder abroad.
- **Flexible exhaust routing:** Exhaust can be routed to the side, underneath the vehicle, or through the roof.

These advantages make diesel heating an attractive option for travelers who value independence, safety, and efficiency.



# Comfort without compromise



- 1 Convectors
- 2 SCHEER Heating Systems
- 3 Bathroom Radiators
- 4 Water-to-Air Heat Exchangers
- 5 Underfloor Heating
- 6 Hot Water Supply
- 7 Engine Preheating / Heating with Engine Waste Heat
- 8 Room Thermostats
- 9 HeatMate® Control Unit

# Peripherals

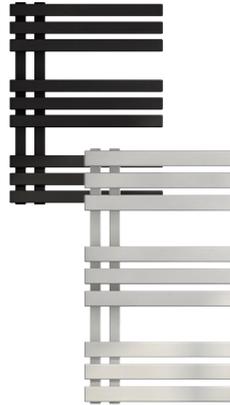
## Towel warmer, white / chrome



The SCHEER towel warmer is specifically designed for use in bathrooms. With high heat output and particularly compact installation dimensions, it is ideal for motorhomes and caravans.

In addition, the SCHEER towel warmer is suitable for use in both non-pressurized and pressurized systems.

## Design Straight



The Design Straight bathroom radiators are real eye-catchers in your bathroom. The radiator gives your bathroom an elegant look.

Feel free to rotate this bathroom radiator by 180°; thanks to the connection options at the top and bottom of the radiator, installation can be carried out in either direction. Suitable for use in both non-pressurized and pressurized systems.

## Convectors made of copper and aluminum, including brackets Ø 18 mm



SCHEER convectors heat the room air with high efficiency. The curved fins ensure optimal heat transfer.

SCHEER convectors are suitable for use in both non-pressurized and pressurized systems.

- Height incl. brackets: 78 mm
- Width incl. brackets: 35, 56 mm
- Weight: 0.4 kg/m
- Connections: 1/2" female thread

# Antifreeze



- 50% less CO<sub>2</sub> in glycol production
- Especially environmentally friendly
- Bio-glycol from renewable raw materials
- Minimum frost protection: -24 °C
- Temperature stability: max. +214 °C
- Ready-mix for long-term filling
- High-quality additives with 1,3-propanediol as the antifreeze carrier
- Frost protection base made 100% from plants (bio-glycol)
- Vapor-proof, no crystallization
- Also suitable for aluminum collectors
- Not classified as hazardous goods, water hazard class WGK 1
- Free from nitrite, silicate, borate, phosphate, and 2-ethylhexanoic acid

## Water-to-air heat exchanger

*Silencio 1*



*Silencio 2*



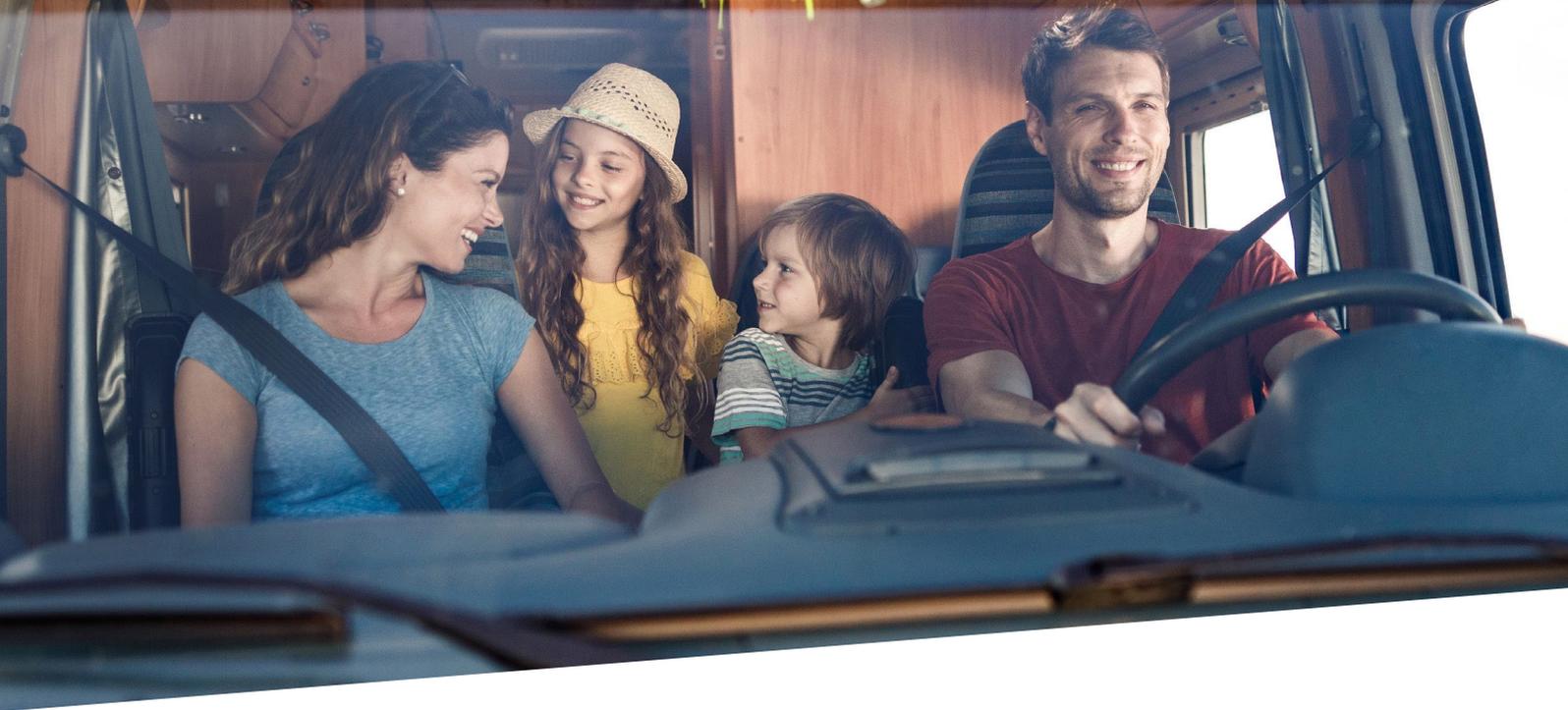
*Compact EVO 1 ED4*



- Low-noise fan with low power consumption
- Can be switched directly even without a fan controller
- Equipped with a quiet, energy-saving fan
- Central water-to-air heat exchanger
- Ideal for supplying warm air to multiple locations in the vehicle
- The outlets can be easily mounted to the heater using the two side sliders, with a clip holding them securely in place

Designation		Silencio 1	Silencio 2	Compact EVO 1
Heating output	kW	1,7	5.5	4,3
Airflow	m <sup>3</sup> /h	110	250	230
Power consumption	W	7	16	70
Sound 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:** 12 V / 24 V



**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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