

SCHEER Top class heating systems

SCHEER

75 YEARS

Top class heating systems

The Company

SCHEER Heizsysteme, a family-owned company with a long-standing tradition based in Schleswig-Holstein, Germany, has stood for innovation, quality and expertise in heating technology since 1953. Our blue-flame burner technology has earned us recognition far beyond Germany's borders.

We develop, manufacture and distribute high-quality burner technology for demanding marine applications. Practical experience and customer feedback are continuously incorporated into our development processes.

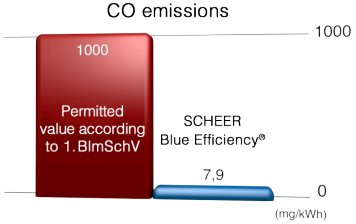
This enables us to create innovative solutions characterised by reliability, outstanding performance and the highest quality standards.

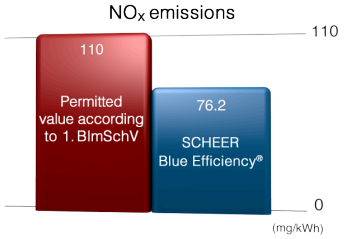
SCHEER has always embraced the challenge of developing energy-efficient and environmentally friendly technologies and products, while continuously improving heating comfort.

Outstanding Environmental Performance

Optimal fuel combustion is always our top priority. Equipped with our Blautherm® DUO Blue Efficiency® burner, our onboard heating systems achieve emission levels well below the stringent TÜV standards for domestic heating installations.







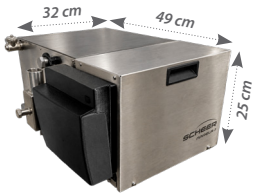
MADE IN GERMANY


...my course
...my SCHEER
...my warmth
• Eco-Friendly Heating
• Enjoy Every Comfort on Board
• Feel-Good Warmth
SCHEER

MARELA® – Marine Heating.

Smarter by Design.

MARELA® 7



MARELA® 10 | 15 | 20



MARELA® 30



Maximum Installation Flexibility. Less Weight. Compact Dimensions. Lower Power Consumption.

The MARELA® series has been developed to meet the demands of modern marine and yacht installations. Compact dimensions, low electrical power consumption and a weight-optimised design are combined with intelligent interfaces and flexible installation options.

The two-stage blue flame burner enables stepped heat output. Thanks to Modbus and CAN bus connectivity, the heating system can be integrated into compatible onboard control systems. The freely positionable control panel offers additional flexibility in interior design and technical installation.

MARELA® also offers flexible domestic hot water solutions: In addition to the optional combi version with a plate heat exchanger, an external hot water tank can be connected as an alternative.

The integration of waste heat from the main engines and dedicated preheating functions provide further opportunities for a fully integrated onboard heating concept.

MARELA® – intelligent heating technology for greater efficiency, enhanced flexibility and modern onboard system designs.

Why Choose MARELA®?

- TÜV and DNV EMC Certification
- 94% Efficiency
- 20 Years of In-House Burner Manufacturing for the Marine Market
- 100% Soot-Free Combustion
- Up to 15% Fuel Savings
- Up to 30% Lower Electrical Power Consumption
- Stainless Steel Housing
- User-Friendly and Easy to Service
- Environmentally Friendly and Climate-Conscious

Product Page

Water heating system

Compact and Lightweight
Less space required and reduced weight for demanding installation conditions.
More space on board. Compact heating technology designed for challenging installations on ships and yachts.

Lower Power Consumption
Intelligent heating technology with reduced electrical power consumption minimises the load on the onboard electrical system and enables energy-efficient operation – even during extended periods without shore power.

Consistently soot-free combustion keeps the inside of the boiler clean, reducing maintenance requirements and operating costs. When necessary, spare parts can be replaced quickly and easily.

Intelligent System Integration
Modbus, CAN bus and a flexibly positionable control panel.
Ready for modern onboard electronics. Designed for seamless integration into digital control systems.

Two-Stage Blue-Flame Burner Technology
The two-stage blue-flame burner adjusts its output to match the actual heating demand, ensuring efficient, demand-based heat generation.

Flexible Hot Water Solutions
Heating and domestic hot water in one system. Choose between integrated hot water production via a plate heat exchanger or connection to an external hot water tank – offering maximum flexibility in system integration.

Intelligent Heat Utilisation
Making efficient use of available energy. Waste heat from the main engine can be integrated into the heating system and utilised for targeted preheating applications.

This can reduce additional heating demand and improve the overall energy efficiency of the system, depending on the specific system configuration.

High-Quality Construction
Premium burner components combined with a stainless steel boiler and stainless steel housing.

Technical Specifications

		MARELA® 7	MARELA® 10	MARELA® 15	MARELA® 20	MARELA® 30	MARELA® 40	MARELA® 70
Heating Output	kW	7/10	10/15	15/20	20/25	30/35	40/45	70/80
Dimensions (W/H/D)	cm	32* / 25 / 49	36* / 30 / 60			37* / 40 / 73	43* / 50 / 74	48* / 62 / 114
Weight	kg	32	45	45	45	67	78	160
Electrical Power Consumption	W	135	135	145	145	215	225	250
Blue-Flame Burner Technology		Two-Stage						
Efficiency	%	94 %						
Boiler Water Capacity	l	8	17	17	17	23	38	108
Fuel Type		Diesel according to EN 590, e-fuels, fossil-free HVO, GTL or BTL according to DIN EN 15940, as well as heating oil according to DIN 51603-1 and bio-heating oil according to DIN 51603						
Controls		Freely Positionable Control Panel						
System Integration		Modbus / CAN-Bus						
Domestic Hot Water Production		Optional Combi Version or Connection to an External Hot Water Tank						
Rated Voltage	V	230						
Flue Gas Temperature	°C	150 - 200						
Maximum Operating Pressure	bar	1.5						
Flue Gas Outlet	mm	35	35	35	35	80	80	100

** Additional 10 cm of clearance required for the attached HeatMate control unit.*

Optional Equipment

- Main Engine Preheating and Engine Waste Heat Utilisation
- Room Thermostat with App Connectivity

SCHEER HeatMate®



Discover the new control system for the SCHEER MARELA®: the SCHEER HeatMate®.

Enjoy a wide range of connectivity options, convenient control of your heating system from the comfort of your living area, and a host of advanced features designed to enhance your experience on board.

Extensive Connectivity

The HeatMate® is equipped with CAN bus and Modbus interfaces, as well as various potential-free control options. This allows your SCHEER heating system to be quickly and easily integrated into your yacht's central control system, giving you the freedom to equip your home on the water exactly as you wish.

Convenient Operation

The compact HeatMate® control panel is your reliable companion on every journey. Conveniently operate your heating system from your living area, with the freedom to position the control unit wherever it suits you best. The system also provides detailed information about the heating system's status, allowing you to monitor and adjust its settings precisely to your needs.

You decide when and how you want to heat your yacht. Choose between diesel heating, electric heating or hybrid mode to make optimal use of the available energy resources at all times. And when you want a few hours of peace and quiet at night, simply activate night mode.

- New Standardised Control System for the MARELA® Series
- CAN Bus and Modbus Connectivity
- User-Friendly Control Unit
- Intelligent Energy Savings
- New Night Mode

Advanced Features

The HeatMate® intelligently reduces electrical energy consumption. By activating your inverter precisely when needed, it eliminates unnecessary standby power consumption.

SCHEER Room Thermostat



12–50 V



230V

with Wi-Fi and Touchscreen Display

- SCHEER room thermostats allow you to control radiators, underfloor heating and fan heaters. The integrated battery ensures that your settings are retained even in the event of a power interruption.
- The thermostats offer both manual and automatic operating modes. In automatic mode, individual heating schedules can be programmed for weekdays, Saturdays and Sundays.
- An integrated temperature sensor measures the room temperature directly at the thermostat. Alternatively, the external sensor included in the scope of delivery allows temperature measurement at a distance of up to 2.5 metres.
- The thermostat can be operated via its touchscreen display or a smartphone app. Thanks to the integrated Wi-Fi interface, the thermostat can connect to the internet, allowing you to monitor and adjust the room temperature remotely at any time.

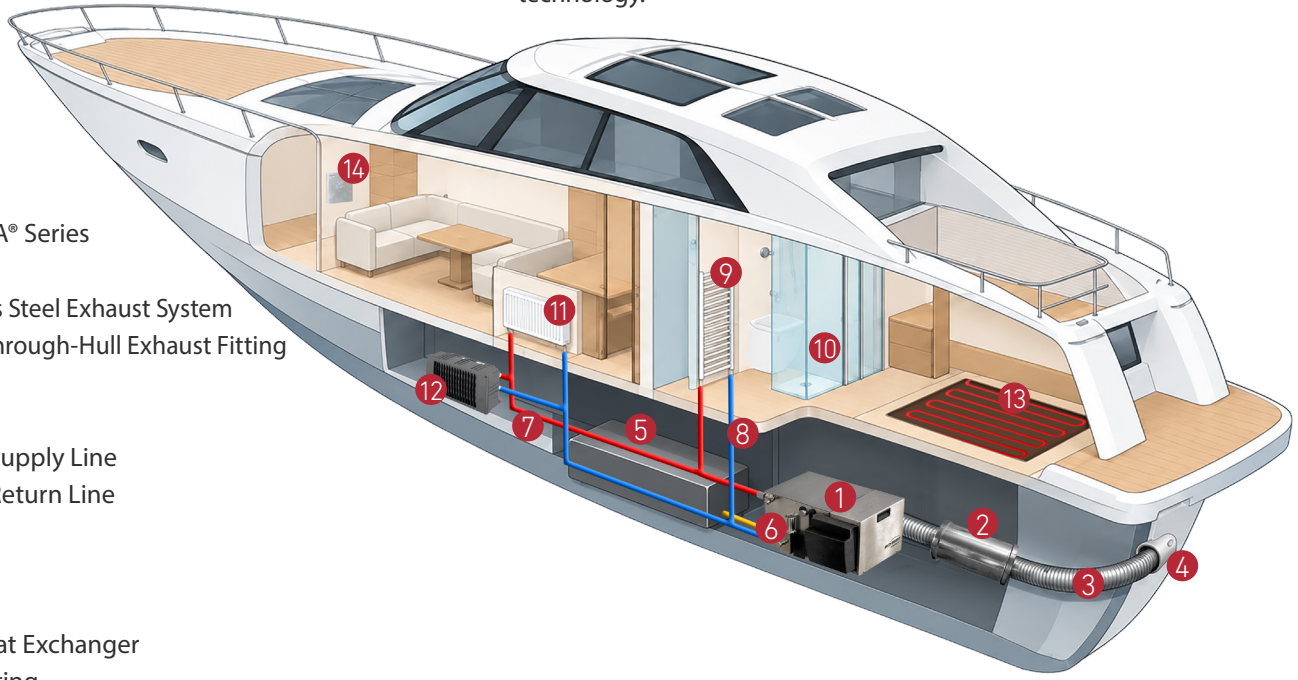


Installation of a Combi Boiler

Tailored Consultation

For us, customised solutions mean thinking ahead and providing expert advice. Every customer's individual requirements and specific applications call for creative, practical solutions to ensure an optimal heating system.

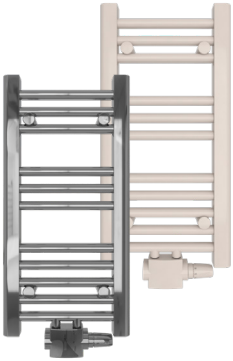
Contact us for a free, no-obligation consultation to explore the possibilities and find the best solution for your marine heating requirements. We know our craft. Our expertise combines boatbuilding and shipbuilding with professional heating and installation technology.



1. SCHEER MARELA® Series
2. Silencer
3. Flexible Stainless Steel Exhaust System
4. Stainless Steel Through-Hull Exhaust Fitting
5. Fuel Tank
6. Fuel Line
7. Heating Water Supply Line
8. Heating Water Return Line
9. Towel Radiator
10. Shower
11. Radiator
12. Water-to-Air Heat Exchanger
13. Underfloor Heating
14. Room Thermostat

Peripherals

Towel warmer, white / chrome

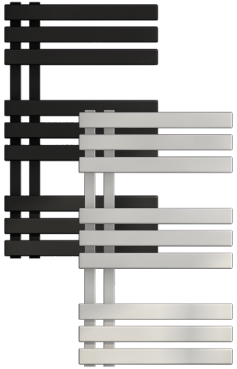


The SCHEER towel radiator has been specially designed for use in onboard bathrooms.

With its high heat output and exceptionally compact dimensions, it is ideally suited for installation on your yacht.

The SCHEER towel radiator is also designed for use in pressurised heating systems.

Design Straight



The Design Straight bathroom radiator is a stylish addition to any bathroom. Its elegant design adds a sophisticated touch to your yacht's interior.

For maximum installation flexibility, the radiator can be rotated 180°, allowing installation in either orientation.

Designed for use in pressurised heating systems.

Convectors made of copper and aluminium, including brackets Ø 18 mm



SCHEER convectors provide highly efficient heating of the surrounding air.

Their specially curved fins ensure optimal heat transfer and efficient heat distribution. SCHEER convectors are designed for use in pressurised heating systems.

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

Antifreeze



- 50% Lower CO_2 Emissions During Glycol Production
- Particularly Environmentally Friendly
- Minimum Frost Protection: –24 °C
- Temperature Stability: Up to +214 °C
- Ready-to-Use Mixture for Long-Term Filling
- High-Quality Additives with 1,3-Propanediol as the Antifreeze Agent
- Antifreeze Base Made from 100% Plant-Based Raw Materials (Bio-Glycol)
- Resistant to Evaporation, No Crystallisation
- Also Suitable for Aluminium Collectors
- Not Classified as Dangerous Goods, Water Hazard Class WGK 1
- Free from Nitrites, Silicates, Borates, Phosphates and 2-Ethylhexanoic Acid

Water-to-air heat exchanger

Silencio 1



Silencio 2



Compact EVO 1 ED4



Designation		Silencio 1	Silencio 2	Compact EVO 1
Heating output	kW	1.7	5.5	4.3
Airflow	m^3/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

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



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