



HEATMASTER



THE ART OF
HEAT
SYSTEM
DESIGN

ORC

HEATMASTER YOUR HEAT, POWER THE FUTURE!

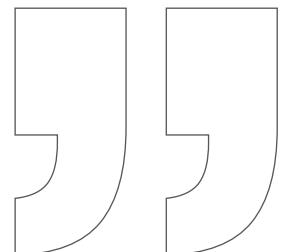


Heatmaster is a leading Dutch supplier of advanced heating systems for the maritime industry, operating from The Netherlands, Spain and China. Specializing in thermal oil, steam, and hot water solutions, the company delivers high-efficiency, low-emission heating systems, for newbuilding and after sales. With a strong focus on reliability, efficiency and regulatory compliance, Heatmaster supports shipyards and fleet operators worldwide, ensuring operational comfort and sustainability at sea.



Heatmaster company

Design, manufacture, supply and maintenance of thermal oil, hot water and steam heating systems for the maritime and industrial sectors. Including customized heating solutions, energy-efficient and eco-friendly systems, compliance with international maritime and industrial standards, as well as after sales service, upgrades, and retrofits for ships, offshore platforms, and industrial facilities.



THERMAL OIL SYSTEMS

Heatmaster BV delivers advanced **thermal oil heating systems** engineered for reliable performance in maritime and industrial environments. Designed for high efficiency and long service life, our thermal oil plants provide stable, high-temperature heat without the pressure related and maintenance risks associated with steam plants.

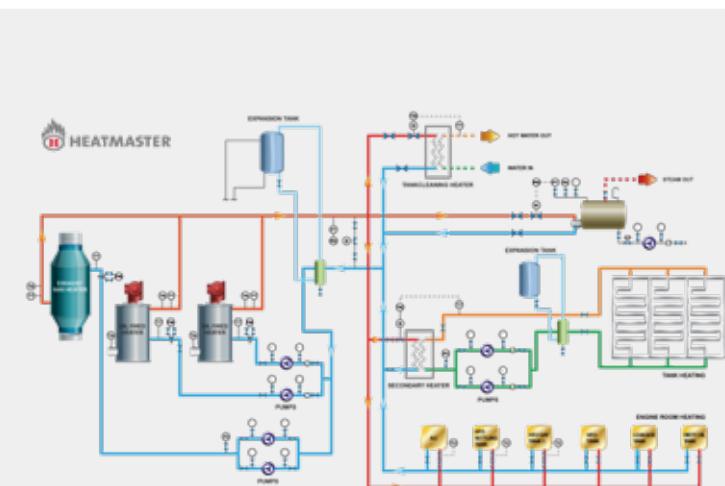
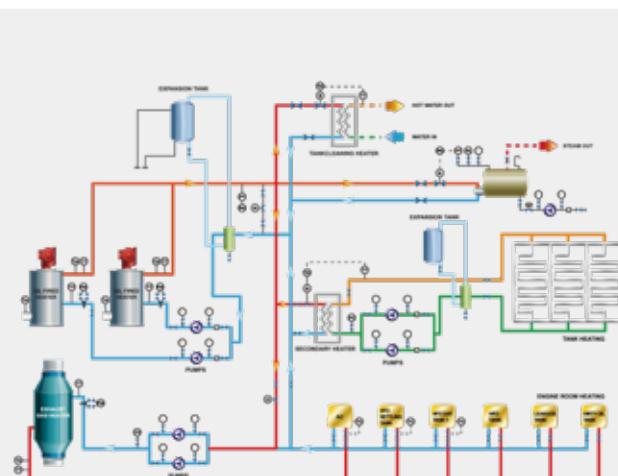
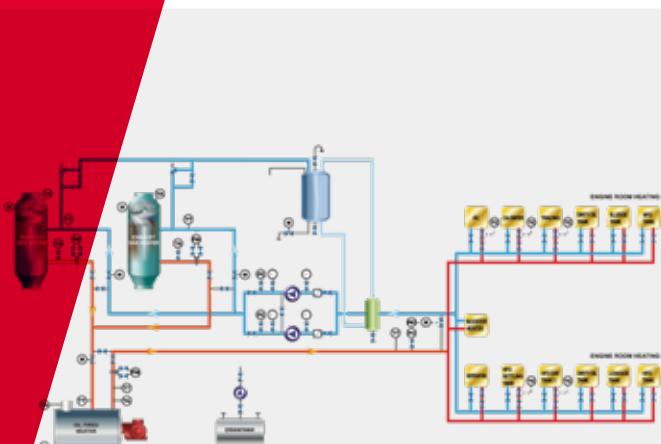


THERMAL OIL SYSTEMS

Our delivery scope includes:

- Fired thermal oil heaters
- Exhaust-gas thermal oil heaters
- Pump skids, expansion tanks, control valves, and complete auxiliary packages

Heatmaster systems are ideal for cargo heating, fuel conditioning, tank cleaning, HVAC integration, and other high-demand thermal applications. Each installation is based on detailed heat-balance engineering to ensure optimal flow distribution, low fuel consumption, and excellent thermal efficiency.



HOT WATER SYSTEMS

Heatmaster BV provides high-performance **hot water heating systems** designed for dependable operation in maritime and industrial environments. Engineered for efficiency, safety, and ease of maintenance, our systems deliver stable hot water supply for a wide range of onboard and onshore heating demands.





Our delivery scope includes:

- Fired hot water boilers
- Exhaust-gas hot water boilers
- Pump skids, expansion tanks, control valves, and complete auxiliary packages

Heatmaster hot water systems are ideally suited for domestic hot water production, HVAC circuits, fuel heating, deck heating, and other low- to medium-temperature processes. To further enhance energy efficiency, the vessel's engine high-temperature cooling-water circuit can also be integrated for heat recovery, reducing fuel consumption and maximizing overall system performance.

HOT WATER SYSTEMS

STEAM SYSTEMS

Heatmaster BV supplies complete steam and heating solutions for maritime and industrial applications. Designed for performance and reliability, our systems combine smart engineering with robust construction to ensure trouble-free operation throughout the vessel's lifetime.

Our delivery scope includes:

- Fired steam boilers
- Combi boilers
- Exhaust-gas boilers
- Economisers
- Full auxiliary packages

(pumps, heat exchangers, controls, safety systems)

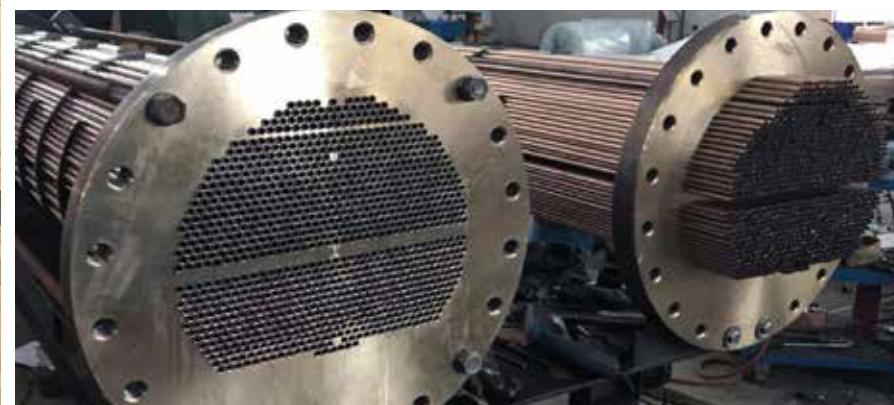
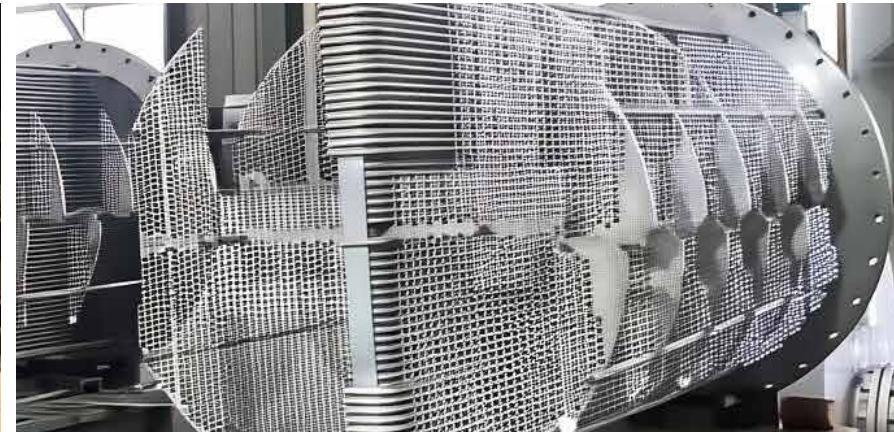
With steam capacities of **up to 5 ton/hour and more upon request**, Heatmaster systems provide dependable heat for engine room heating, cargo heating, fuel conditioning, domestic hot water, and deck heating. Every installation is based on detailed heat-balance engineering, ensuring maximum thermal efficiency and reduced fuel consumption.



HEAT EXCHANGE

Heatmaster designs, produces and delivers its own design shell & tube heat exchangers. All heat exchangers are produced under the applicable class requirements for the projects. Heatmaster also delivers Heatmaster plate heat exchangers, also designed following the applicable class requirements.

- Intermedium heaters
- Sanitary water heaters (double plated)
- Tank cleaning heaters
- Heat recovery heat exchangers
- Cargo deck heaters.



HEAT RECOVERY

Maximizing Energy Efficiency Through Advanced Heat Recovery

Achieving lower CO₂ emissions and reducing fuel consumption are key objectives across today's maritime sector. Heatmaster BV supports these goals with a comprehensive portfolio of high-performance heat recovery solutions engineered for marine environments.

Exhaust Gas Heat Recovery

Heatmaster offers a wide range of exhaust gas heat recovery units designed to extract maximum usable energy from engine systems.

- **Smooth concentric tube designs**

The proven solution for thermal oil systems.

- **Rectangular straight-tube units**

Ideal for both hot water and thermal oil applications.

- **Compact finned-tube systems**

Engineered for installations where space is limited, available in both vertical and horizontal configurations.

For every vessel type and engine layout, Heatmaster provides a tailor-made solution that delivers optimal heat recovery and long-term reliability.

The proven solution for **thermal oil / hot water / steam systems**



WASTE HEAT RECOVERY SPECIALISTS

Cooling Water Heat Recovery

To harness the valuable energy in engine cooling water, Heatmaster supplies high-efficiency plate heat exchangers designed for:

- **Minimal temperature loss**, ensuring effective recovery even with the lower cooling-water temperatures common in fuel-cell systems.
- **Ultra-low back pressure**, essential for engines equipped with integrated pumps that tolerate only minimal additional resistance.

Whether for conventional propulsion, hybrid systems, or next-generation technologies, Heatmaster ensures efficient and secure heat transfer.

Complete Solutions for Arctic and Extreme Conditions

For vessels operating in harsh or arctic climates, Heatmaster designs fully integrated systems that utilize **all available waste heat on board**. We advise on the complete heating layout to prevent issues with engine cooling systems, ensuring dependable operation even in the most severe environments.

Heat Exchangers for Every Engine Size

Heatmaster provides heat exchangers for engines ranging from compact 60kW generator sets to large slow-speed 2-stroke engines, two-stroke propulsion engines. Whatever the scale, we deliver efficient, durable, and custom-engineered solutions.

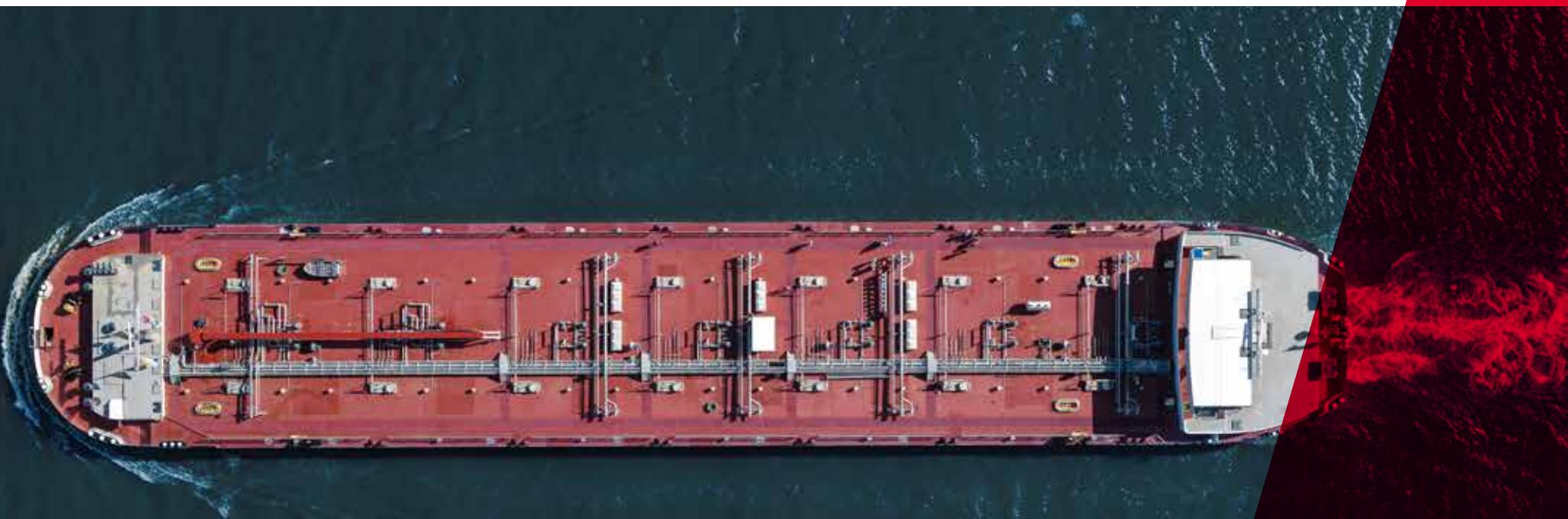
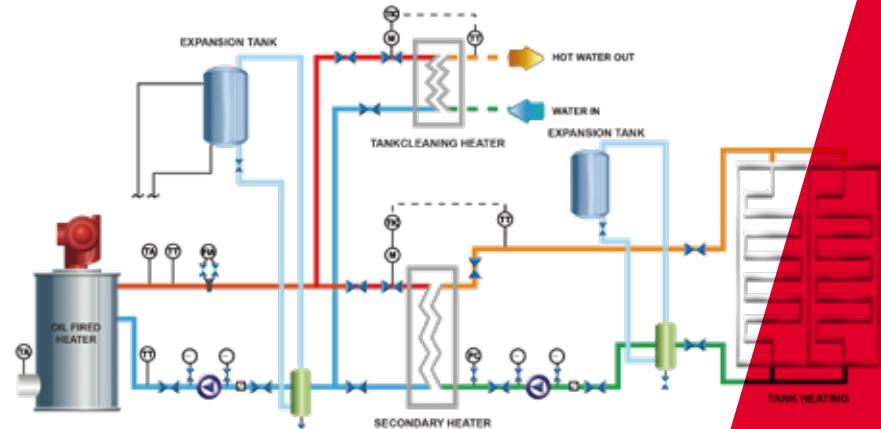
HEAT RECOVERY



INLAND TANKERS

In inland shipping, everything revolves around continuity. Cargo must remain at the correct temperature, regardless of weather conditions, sailing speed or route. Our cargo heating systems are engineered to deliver exactly that certainty.

We supply complete, efficient heating installations for vessels transporting temperature-sensitive products such as oils, fats, chemicals and specialty cargo. Each system is built on three pillars: reliability, energy efficiency and ease of operation.





To support the shift toward cleaner and more economical operations, our designs now integrate modern innovations such as low-temperature heating and heat recovery technologies.

Low-temperature heating enables effective heat transfer at significantly lower supply temperatures, reducing fuel consumption, improving onboard safety and extending component lifetime. Through heat recovery, we capture and reuse waste heat from engines or generators to support the heating system, lowering operational costs while reducing emissions.

With carefully engineered thermal oil and water-based systems, tailored to each vessel's cargo plan, piping layout and boiler capacity, we ensure optimal flow, minimal downtime and maximum efficiency.

From engineering and fabrication to commissioning support, we deliver installations that perform under all conditions and continue to do so for many years. Crews can rely on consistent, precise and energy-efficient temperature control, ensuring their cargo is always handled safely, efficiently and sustainably.

We supply complete, efficient heating installations for vessels transporting temperature-sensitive products such as oils, fats, chemicals and specialty cargo. Each system is built on three pillars: reliability, energy efficiency and ease of operation.

INLAND TANKERS

LNG AND METHANOL DUAL FUEL BURNERS

Heatmaster can supply your boiler projects with dual fuel burners. The LNG dual fuel burners are of Heatmaster design and production. The Methanol dual fuel burners have been developed by partners and can be supplied to all our projects.





GAS COMBUSTION UNIT – GCU

Introducing our cutting-edge Gas Combustion Unit (GCU), engineered to handle any gas composition—from 100% nitrogen (N₂) to 100% methane (CH₄). Whether you’re dealing with any other mixture between the two our GCU adapts seamlessly, ensuring optimal combustion and maximum energy output for your operations.

Key Features & Benefits

- **Ultra-Wide Fuel Range:**
Burns every mixture between 100% N₂ up to 100% CH₄.
- **High Capacity:**
Delivers up to 1,000kg/h of BOG - ideal for LNG Bunkering vessels.
- **Low Exhaust Output Temperature:**
Advanced heat recovery and combustion technology minimize exhaust temperatures, compliant with the VR X notations of class.

Our Gas Combustion Unit is not just powerful—it's smart, adaptable, and built for the future. With robust construction, intelligent controls, and unparalleled fuel flexibility, it's the ultimate solution for businesses seeking reliability and sustainability.

CONTROL SYSTEM & PLC

The Heatmaster PLC control system is engineered for simplicity and performance. Our software and mimics are designed for unmatched reliability and ease of use, so you can focus on what matters most.

Designed to optimize heat recovery in every condition, the PLC control system ensures your heating system operates at peak efficiency. Whether in calm seas or challenging environments, our system guarantees maximum energy savings, reducing costs and environmental impact.

Intuitive controls, robust design, and proven technology make our PLC control system the smart choice for modern fleets.



ORC

Why Heatmaster's ORC



- Heatmaster's knowledge about heat recovery and heat system design
- Special designs for exhaust gas heat recovery: smoke tubes/water tubes/finned tubes
- We design the total heat balance of the ship integrating the ORC
- Specialist in balancing the ORC and the main board
- Proven design with first class European products for key items
- Improves the fuel efficiency of the vessel
- Based on your data we can make a quick scan of the possibilities
- Refrigerant with low GWP and ODP value

* References available upon request



Genuine Spare Parts, Ensuring Your Heating System Runs Efficiently

From Heatmaster to multi-brand boilers, we supply high-quality spare parts to keep your equipment in optimal condition. Global shipping, rapid response, and expert support.

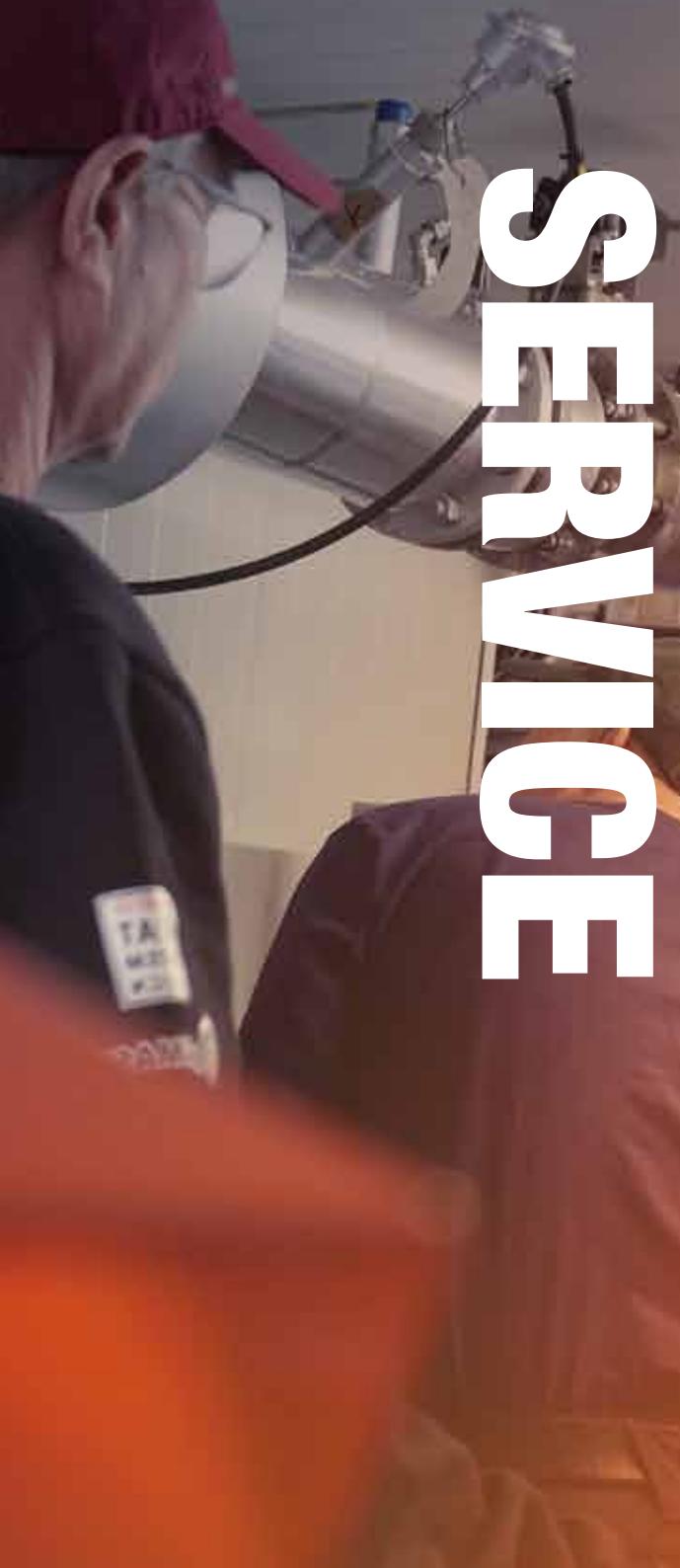
Why Choose Our Spare Parts?

We are committed to providing high-quality, reliable spare parts that keep your heating systems running smoothly. Here's why customers trust us:

Advantage	Description
 Genuine Quality	Every part we supply meets Heatmaster's rigorous quality standards, ensuring seamless compatibility and optimal performance for your equipment.
 Fast Delivery Time	We keep critical parts in stock: sensors, safeties, controllers and key burner & electrical spares
 Multi-Brand Support	Beyond Heatmaster, we offer high-quality spare parts for a wide range of leading boiler brands, including Allweiler, Danfoss, Weishaupt, and more.
 Tailored Retrofit Equipment	Replacement heat exchangers, fired heaters, expansion tanks and calorifiers produced by our own factory
 Expert Technical Support	Our experienced engineers provide personalized guidance on part selection, installation, and troubleshooting, ensuring you get the right solution every time.
 Rapid Response	With our 24/7 emergency spare parts service, we respond swiftly to urgent demands, minimizing downtime and keeping your operations on track.
 Reliable Logistics	We partner with trusted global shipping providers like DHL and FedEx to ensure fast, secure, and reliable delivery of your spare parts, wherever you are.

 spares@heatmaster.nl

 [+31 78 682 3404](tel:+31786823404)



HEATMASTER SERVICE

Commissioning & Service

Besides commissioning Heatmaster systems at shipyards around the globe, our service engineers help on board to keep your boiler up and running 24/7.

Whether remote support, preventive maintenance, optimization or on site troubleshooting: the Heatmaster Service Department is at your service to support boilers of various makers.

With experienced teams based in both the Netherlands and China, Heatmaster offers local and international service for a wide range of boilers, burners, pumps and temperature control systems.

Why Choose Us?

Global Reach: Our service network spans the globe, ready to support you in shipyards or onboard vessels, anytime and anywhere.

Rapid Response: 24/7 technical support ensures your equipment issues are addressed promptly, minimizing downtime.

Expert Team: Skilled engineers with extensive experience across multiple boiler brands, delivering tailored solutions for your needs.



service@heatmaster.nl



+31 78 682 3404



MAIN OFFICE

Heatmaster BV Bedrijvenpark "Grotenoord" Grotenoord 1 3341 LT Hendrik-Ido-Ambacht The Netherlands
Tel: + 31 (0)78 68 234 04 Fax:+31 (0) 78 68 234 03



Heatmaster China Office

JiangNan Tower, Room 1603 No. 600 Luban Road 200023, Shanghai P.R.China
Tel: +86 (0)21 5302 2578 Fax:+86 (0)21 5302 2577

Heatmaster Engineering SL

A Coruña SPAIN
Tel: +34 691 869 305 Email: VR@heatmaster.nl



sGmf member

INFO@HEATMASTER.NL WWW.HEATMASTER.NL

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