



**MEPRODUCTION**  
GLOBAL MARINE EXCELLENCE

## MARINE HEATPUMP SOLUTION



*Enhance your AER and CII scores  
Step up your decarbonization  
efforts with a heat pump solution  
from ME Production*



EMBRACE A GREENER FUTURE AND REDUCE YOUR CARBON FOOTPRINT  
**THE SMART WAY**

**HeatSmart** Waste Heat Recovery  
BY MEPRODUCTION



## MARINE HEATPUMP SOLUTIONS

At ME Production, we believe in a sustainable future for the maritime industry. Our latest innovation, the MEP Heatsmart heat pump solution, significantly reduces the need for oil-fired burners when the main engine is idle, such as during cargo operations or layups.

This advanced system harnesses waste heat energy from the low-temperature cooling water system, potentially saving up to 800 liters of fuel and cutting 2000 kg of CO<sub>2</sub> emissions per day. *\*depending on vessels operational profile.*

The solution offers unparalleled efficiency and reliability with its fully automated and seamless integration. It ensures continuous HT water production, reducing operational costs while contributing to a greener industry. With cloud connectivity, it provides remote monitoring and monthly environmental reports, enhancing performance and compliance with stringent regulations.

The Heatsmart is not just an eco-friendly solution; it is a strategic asset. By reducing carbon emissions significantly, it helps shipping companies meet stringent environmental regulations, including the new ETS tax requirements.

### Operational Benefits

- Reduced Carbon Footprint
- Improved Fuel Efficiency
- Improved AER and CII scores
- Regulatory Compliance
- ETS Reducing
- ... and more



### Example Heat Consumers

- Jacket Heating
- Service Tank Heating
- Accommodation
- Purifiers
- Fresh Water Generator
- ..and more



### Significant Fuel Savings

By harnessing waste heat from the low temperature cooling water system, you'll experience significant savings on fuel costs. Our system maximizes efficiency, ensuring you get the most out of every drop of fuel.

### Environmental impact

Go green and reduce your vessel's carbon footprint. Our heat pump system is a climate-friendly solution, actively contributing to emissions reduction. It's not just good for your bottom line; it's great for the environment.

### Cost Efficiency and ROI

Innovation meets savings! Experience a shift in operational costs as our technology paves the way for a more economically sustainable maritime sector. The HeatSmart solution has an expected ROI time of 2.5 to 4 years, depending on vessels operational profile.

### Market Competitiveness and ETS Compliance

As regulations on emissions become stricter, having a system that reduces CO2 emissions and fuel consumption can give a competitive edge. It demonstrates a commitment to sustainability and directly contributes to lower ETS fees.

### Quality engineering and Reliability

The MEP Heat Pump solution is robust and reliable. Built with high-quality components, it is designed and certified for the harsh maritime environment. It is constructed in modules, designed to fit through existing accessways for easy retrofit installation.

# WASTE HEAT RECOVERY

## SUSTAINABILITY AND MARKETABILITY

### An edge in a competitive industry



In today's market, sustainability isn't just a buzzword – it's a competitive edge. Showcase your commitment to environmentally sound operations ...and be a leader in the maritime transition towards zero emissions.

ME Production supplies tailor-made solutions optimised for each design and operational pattern. We invite our customers to work closely with our in-house organisation for the most suitable solution.

Give yourself a Marketing Edge in Sustainability. Adopting the MEP HeatSmart system provides a significant marketing advantage for maritime companies. By demonstrating a serious commitment to reducing your CO2 footprint, your company can enhance their brand image, appeal to eco-conscious customers, and stay ahead in a market that increasingly values sustainability and green thinking.

**For further details and additional information,  
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