

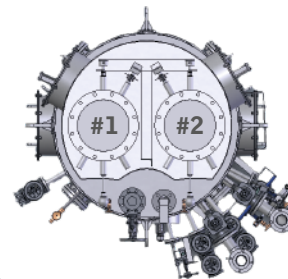


Better Life Energy



DRIVE GREEN SHIPPING FORWARD.

With SAACKE waste heat
recovery unit (WHRU)



TURN WASTE HEAT INTO ADDED VALUE.

Why let energy go to waste – by utilizing waste heat recovery, the vessel saves fuel, reduces CO₂ emissions and will become more energy-efficient overall.

Available for retrofits and new builds.

Increased energy efficiency and reduced emissions reduction are playing an increasingly important role, especially in view of the existing and, in the near future, even stricter emission control regulations at sea.

The SAACKE waste heat recovery system uses heat from exhaust gas to generate steam for other needs on the ship. It is a fully redundant system which can easily and quickly be integrated into the existing feed water and steam system. Being a standalone solution SAACKE WHRU can be retrofitted regardless of original boiler system manufacturer.

Maintenance requirements are close to zero.

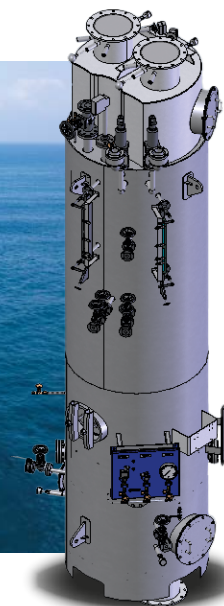
The added value is enormous: the profitable use of waste heat saves fuel and energy. This results in a significant improvement in the ecological balance.

Investing in a **WHRU is definitely worthwhile!**

Install and save fuel, costs and CO₂ immediately!



Maersk and SAACKE go together all the way to zero in close cooperation with Rajaneesh Padmanandhan, Head of Fleet Optimisation & Retrofits – Chartered Fleet, Maersk Chartering.



ALL-IN-PACKAGE.

Minimum effort – maximum potential!

The robust and space-saving design of the SAACKE waste heat recovery system gives high flexibility for installation in the funnel. Little or no conversion work in the existing engine room compartments is necessary. The twin pass solution offers far **greater flexibility in operating the auxiliary engines** than other manufacturers products.

- WHRU
- Installation material
- Monitoring
- Commissioning

- ✓ Proven reduction of burner fuel consumption (more than 80 %)
- ✓ Required electrical power consumption is up to 6 times lower than that of other manufacturers
- ✓ No relation to slowdown or shutdown systems
- ✓ Simple interconnection to the existing feedwater system
- ✓ Very low footprint and space-saving design
- ✓ Minimal monitoring/control effort
- ✓ Very low OPEX due to the robust design
- ✓ Noise reduction (WHRU also acts as a silencer)
- ✓ OPEX reduction for aux boiler and burner
- ✓ Dry running without time limit
- ✓ Commissioning within one working day
- ✓ Suitable also for ships with EGCS
- ✓ Low A/E load optimized design with gas by-pass also available

OUR SERVICE COMPASS.

We are your first point of contact with 24-hour service. SAACKE provides support for all types of burner and automation challenges, upgrades or retrofit projects from **strategically located service centers around the world.**



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