

Join us in making the world a better place. Today.

HEAT TO PROFIT

Higher Efficiency – More Power



efficiency PACK eP P 050.100

Plug & Play

Waste heat recovery solution
for engines from 1-20 MW

Up to 7% efficiency boost
leads to increased electricity
production or fuel savings

All in one
20' Container



PLUG & PLAY EFFICIENCY UPGRADE

SAVE COSTS

Our systems efficiently turn engine exhaust gases and / or cooling water into clean electricity. Providers and operators of engine power plants and mobile electrical supply systems benefit from an increase in efficiency and additional cooling savings. The results are significant savings in cost and emissions.

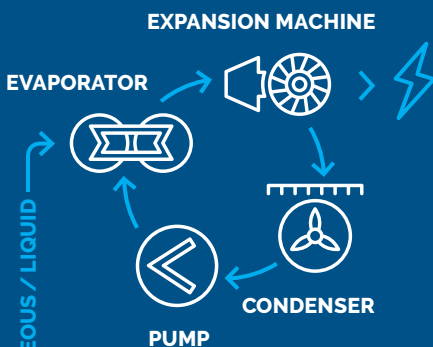
PROVEN RELIABILITY

Orcan Energy's systems have been sold to customers worldwide with a proven reliability in over 1.5 Mio. hours of operation. Standardized and industrial components ensure a robust and reliable operation under all conditions.

EASY HANDLING

The efficiency PACKs operate entirely independently and automatically with little maintenance required. Integrated in containers they are easy to transport and quickly to install. Thanks to its excellent part load capacity and modular design, it adapts quickly to the heat source to maximize power output.

HOW IT WORKS



FACTS & FIGURES

Input power	550-1 100 kW thermal (per module)
Electrical output gross/net	Up to 129 kW electrical / Up to 100 kW electrical
Working fluid	Standard refrigerant (non-flammable, non-toxic, non-ozone-depleting)
Interfaces	<ul style="list-style-type: none"> ■ Option A: Exhaust gas (inlet max. 550 °C) Additional: Warm water (80 – 109 °C, e.g. jacket cooling) ■ Option B: Hot water (80 °C - 150 °C)
Electrical feed-in	400 V 3ph 50/60 Hz
Ambient conditions	IEC 60721-3-4 with IE41 (-20 to +40 °C)
Dimensions	ISO 669 20' HC container (6.1 m x 2.5 m x 2.9 m)



CASE STUDY

- 1.5 MW engine + efficiency PACK eP P 050.100
- 8,000 hrs of operation per year
- efficiency PACK power: 100 kW

Annual savings

96,000 € per year at 12 €ct/kWh
160,000 € per year at 20 €ct/kWh



ORCAN ENERGY – AT A GLANCE

Orcan Energy AG is a leading European CleanTech company offering efficient energy solutions based on Organic Rankine Cycle (ORC) technology for the conversion of waste heat into electricity. Orcan Energy AG was founded in 2008, employs 60 people and is headquartered in Munich, Germany.

> 1.5 Mio.

hours of operation

200
units worldwide

20 000 t
carbon saved