

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 system  
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.

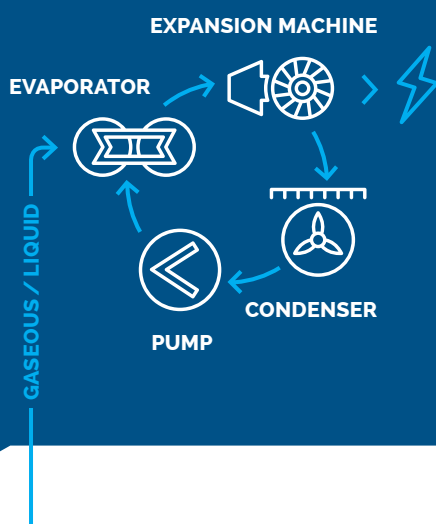
## PROVEN RELIABILITY

Orcan Energy's systems have been sold to customers worldwide with a proven reliability in almost 1 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	560–1,100 kW thermal
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"> <li>■ Option A: Exhaust gas (inlet max. 550 °C)</li> <li>■ Option B: Hot water (150 °C)</li> <li>■ Additional: Warm water (80–109 °C, e.g. jacket cooling)</li> </ul>
Electrical feed-in	400 V 3ph 50/60 Hz
Ambient conditions	IEC 60721-3-4 with IE41 (-33 to +40 °C)
Dimensions	ISO 668 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**

INVESTMENT

**3** ——— YEARS ——— **15**

PROFIT

## 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.

**200**  
units sold  
worldwide

**880,000**  
hours of  
operation

**6,100**  
tons of  
carbon saved