

# DATASHEET

## ORC ENO-40LT

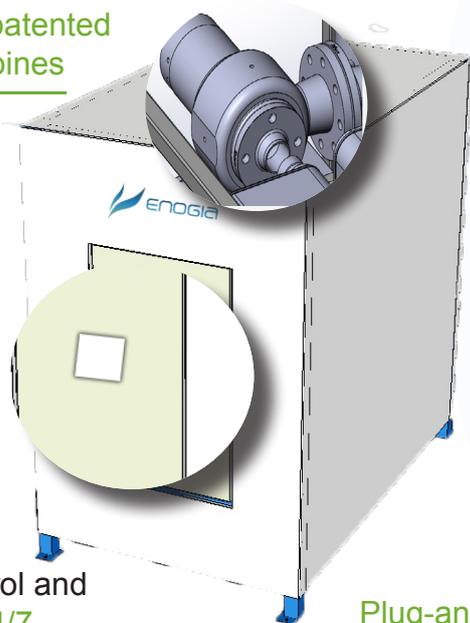
« Generate power from your waste heat thanks to our ORC »

Founded in 2009, ENOGIA is a turbine based ORC manufacturer specialised in waste heat recovery with systems producing from 10 kWe to 180 kWe.

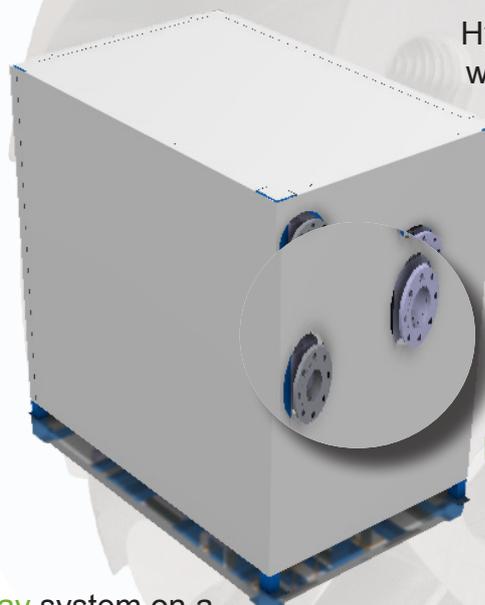
### The product

The ENO-40LT module is an ORC manufactured by ENOGIA, able to recover up to 640 kWth and having a nominal power production of 40 kWe from low temperature heat sources.

High speed patented micro-turbines



Hydraulic connections with standard flanges



Assembling and performance testing in ENOGIA workshop

Remote control and access 24/7

Plug-and-play system on a single skid

### System combining performance and reliability at low temperature

Designed with the same state of mind than the other ENO low temperature products range, the ENO-40LT is a turnkey product raising from architectural innovations.

This system suits a wide range of heat recovery applications such as biomass boilers, gas engines, geothermal sources, process heat or concentrating solar panels. Any heat flow with temperatures between 70°C and 120°C can be recovered with this system thanks to its two kinetic turbines.

The produced electricity is monitored by decoupling protection relays, ensuring its compliance with the grid.

Remaining heat can be recovered for floor heating or drying system to reach a global efficiency close to 95% !

# TECHNICAL DATA

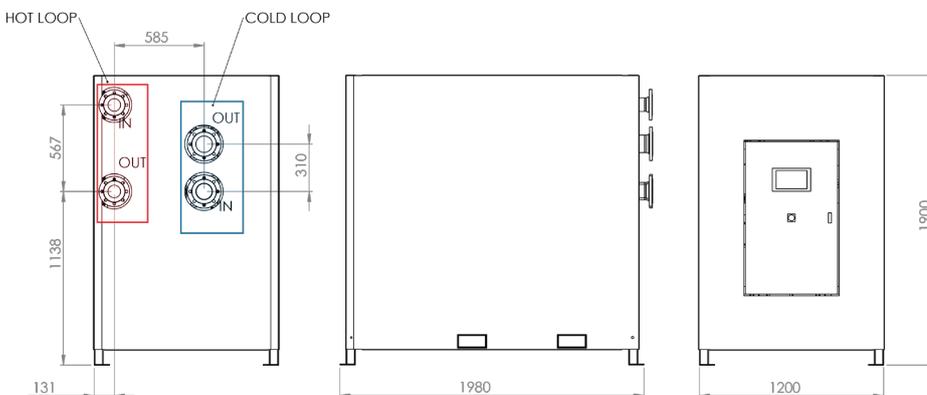
## ENO-40LT Characteristics

<b>Electrical ratings</b>	Maximum gross electric power [kWe] Grid connection	40 400V, 3ph neutral + earth, 50-60 Hz
<b>Heat source</b>	Temperature range [°C] Thermal power input range [kWth] Hot source medium Hydraulic connections	70-120 450-640 Water, steam, oil DN 80, PN16
<b>Cold source</b>	Temperature range [°C] Working fluid Cooling system Hydraulic connections	0-60 Water Dry cooler, cooling tower DN 100, PN16
<b>Main components</b>	Working fluid Generator Expander Heat exchangers Pump Controls Monitoring	R1233zd High speed, permanent magnet Kinetic turbine Brazen plate Multi-stage magnetic coupling Industrial PLC Remote web support
<b>Main ratings</b>	Weight [kg] Dimensions L x w x h (mm) Environmental Noise level [dB] @10m Design lifetime [yrs] Safety	1365 1980 x 1200 x 1900 IP 20 60 20 Non flammable, non toxic, ODP=0
<b>Norm compliance</b>	Machine directive PED Electrical norms Grid codes	2006/42/EG 2014/68/EU 2014/35/EG VDE-0126 (G59, VDE-ARN, UL,...)

## Dimensions

### **i** Good to know

This equipment should be installed as close as possible of the heat source to reduce heat losses through the pipes.



### Contact us :

ENOGIA - 19 avenue Paul Héroult 13015 MARSEILLE  
+33(0)4.84.25.60.17 / info@enogia.com  
www.enogia.com

ENOGIA  
 @enogia\_orc  
 Enogia ORC

**ENOGIA**  
The Small Turbine ORC Company