DATASHEET

ORC ENO-40LT

“ Generate power from your waste heat “

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 output of 40 kWe from low temperature heat sources.

2 high speed patented micro-turbines

Hydraulic connections with standard flanges

Remote control and access 24/7

Assembling and performance testing in ENOGIA workshop

Plug-and-play system on a single skid

A SYSTEM COMBINING PERFORMANCE AND RELIABILITY

Designed with the same state of mind as the other ORC of the LT range, the ENO- 40LT is a turnkey product featuring ENOGIA’s best technology.

This system suits a wide range of heat recovery applications such as biomass boilers, gas engines, geo- thermal sources, or industrial processes. 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 power is monitored by decoupling protection relays, ensuring its compliance with the grid.

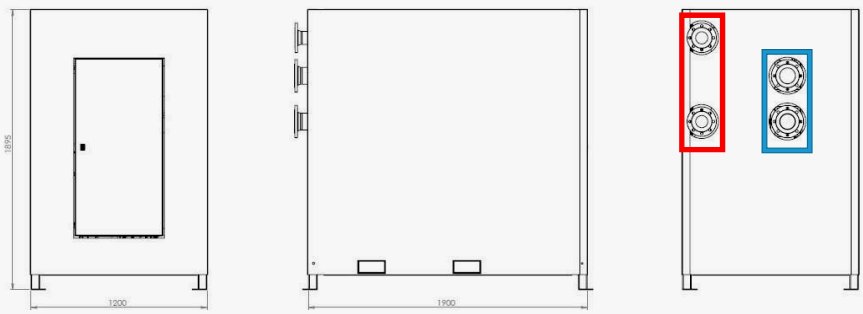
The remaining heat can be recovered for floor heating or drying system to reach a global efficiency close to 95%.

ENO-40LT CHARACTERISTICS

Electrical ratings	Maximum gross electric power Grid connection	40 kWe 400V, 3ph, 50-60 Hz
Heat source	Temperature range Thermal power input range Hot source medium Hydraulic connections	70-120°C* 450-640 kWth Water, steam, oil DN 80, PN 16
Cold source	Temperature range Working fluid Cooling system Hydraulic connections	0-55°C Water Dry cooler, cooling tower DN 100, PN 16
Main components	Working fluid Generator Expander Heat exchangers Pump Controls Monitoring	R1233zd High speed, permanent magnet Kinetic turbine Brazed plate Multi-stage magnetic coupling Industrial PLC Remote web support
Main ratings	Weight Dimensions L x w x h Environmental Noise level @10m Design lifetime Safety	1650 kg 1,9 m x 1,2 m x 1,9 m IP 20 60 dB 20 yrs Non flammable, non toxic, ODP=0
Norm compliance	Machine directive PED Electrical norms Norm compliance	2006/42/EG 2014/68/EU 2014/35/EG VDE-0126 (G59, VDE-ARN, UL, etc.)

* possibility to have >120°C with ORC MT

DIMENSIONS



GOOD TO KNOW

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

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