

DATASHEET

ORC ENO-10LT



“ 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

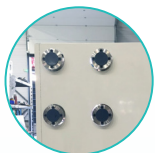
The ENO-10LT module is an ORC manufactured by ENOGIA, able to recover until 160 kWth and having a nominal power output of 10 kWe even after low grade heat source at 70°C.



High speed patented micro-turbines



Assembling and performance testing in ENOGIA workshop



Hydraulic connections with standard flanges



Plug-and-play system on a single skid



Remote control and access 24/7



THE ONLY 10 KW ORC IN THE WORLD!

The ENO-10LT is the smallest ORC module of the ENOGIA LT range.

As the first machine launched on the market by ENOGIA, this type of system has a lot of running hours on site after biomass boilers, gas engines, geothermal sources, heating processes or concentrating solar panels. By

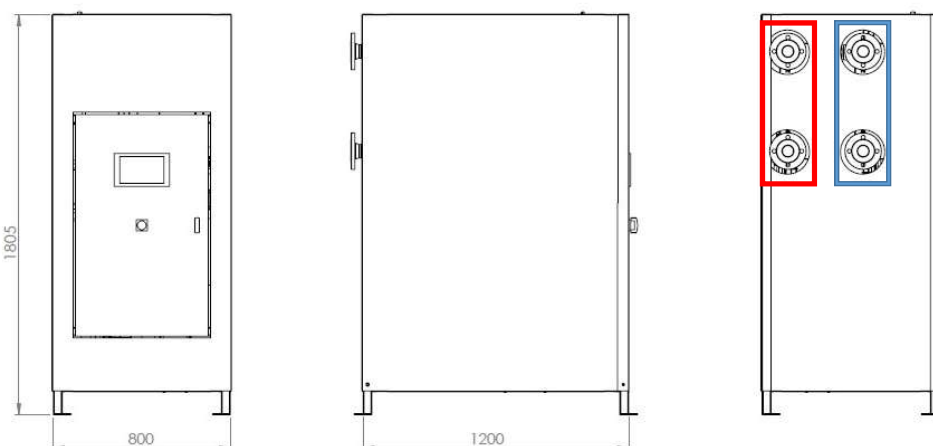
being very compact and easy to integrate with standard flanges, this ORC is the perfect plug-and-play system.

In addition, it is possible to connect the cold loop of the ORC to a drying system, a floor heating system or greenhouses and reach global efficiency close to 95%!

ENO-10LT CHARACTERISTICS

Electrical ratings	Maximum gross electric power Grid connection	10 kW _e 400V, 3ph, 50-60 Hz
Heat source	Temperature range Thermal power input range Hot source medium Hydraulic connections	70-120°C 55-160 kW _{th} Water, steam, oil DN 50, PN16
Cold source	Temperature range Working fluid Cooling system Hydraulic connections	0-60°C Water Dry cooler, cooling tower DN 50, PN 16
Main components	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
Main ratings	Weight Dimensions L x w x h Environmental Noise level @10m Design lifetime Safety	450 kg 1,2 m x 0,8 m x 1,8 m IP 20 60 dB 20 yrs Non flammable, non toxic, ODP=0
Norm compliance	Machine directive PED Electrical norms Grid codes	2006/42/EG 2014/68/EU 2014/35/EG VDE-0126 (G59, VDE-ARN, UL,...)

DIMENSIONS



GOOD TO KNOW

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