DATASHEET ORC ENO-20LT



"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-20LT module is an ORC manufactured by ENOGIA, able to recover until 320 kWth and having a nominal power output of 20 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



A SYSTEM COMBINING PERFORMANCE AND RELIABILITY

Designed with the same state of mind as the 10kWe ORC manufactured by ENOGIA, ENO-20LT is a turnkey solution involving few hydraulic and electrical modifications to be integrated with this system thanks to its kinetic turbine.

This ORC can be integrated on a wide range of applications such as biomass boilers, gas engines, geo-

thermal sources, heating processes or concentrating solar panels. Any heat flow with temperatures between 70°C and 120°C can be recovered with this 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%!

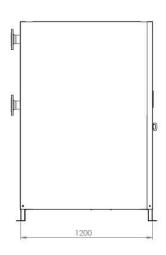


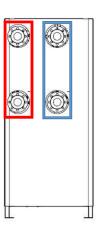
ENO-20LT CHARACTERISTICS

Electrical ratings	Maximum gross electric power Grid connection	20 kWe 400V, 3ph, 50-60 Hz
Heat source	Temperature range Thermal power input range Hot source medium Hydraulic connections	70-120°C 160-320 kWth 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 65, 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	900 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.



