

## “ *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-20LT module is an ORC manufactured by ENOGIA, able to recover up to 320 kWth with a nominal power output of 20 kWe even after low grade heat source at 70°C.



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 10kWe ORC manufactured by ENOGIA, the ENO-20LT is a turnkey solution involving few hydraulic and electrical modifications to be integrated thanks to its play and play features.

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

geothermal sources, or industrial processes. Any heat flow with temperatures between 70°C and 120°C can be recovered with this system.

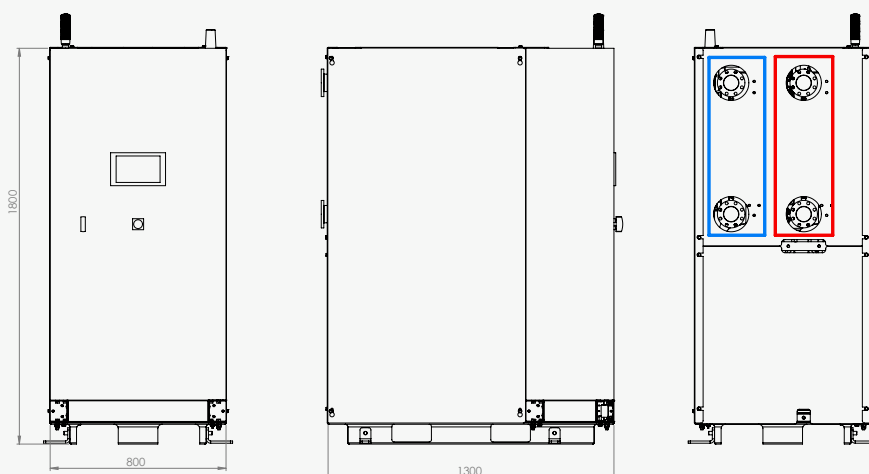
It is also possible to connect the cold loop of the ORC to a drying system, a floor heating system or greenhouses to reach global efficiency close to 95%.

## ENO-20LT CHARACTERISTICS

<b>Electrical ratings</b>	Maximum gross electric power	20 kW <sub>e</sub>
	Grid connection	400V, 3ph, 50-60 Hz
<b>Heat source</b>	Temperature range	70-120°C*
	Thermal power input range	160-320 kW <sub>th</sub>
	Hot source medium	Water, steam, oil
	Hydraulic connections	DN 65, PN 16
<b>Cold source</b>	Temperature range	0-55°C
	Working fluid	Water
	Cooling system	Dry cooler, cooling tower
	Hydraulic connections	DN 65, PN 16
<b>Main components</b>	Working fluid	R1233zd
	Generator	High speed, permanent magnet
	Expander	Kinetic turbine
	Heat exchangers	Brazed plate
	Pump	Multi-stage magnetic coupling
	Controls	Industrial PLC
	Monitoring	Remote web support
<b>Main ratings</b>	Weight	1460 kg
	Dimensions L x w x h	1,3 m x 0,8 m x 1,8 m
	Environmental	IP 20
	Noise level @10m	60 dB
	Design lifetime	20 yrs
	Safety	Non flammable, non toxic, ODP=0
<b>Norm compliance</b>	Machine directive	2006/42/EG
	PED	2014/68/EU
	Electrical norms	2014/35/EG
	Norm compliance	VDE-4105 (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.