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.

**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%!
## ENO-40LT Characteristics

### Electrical ratings
- **Maximum gross electric power [kWe]**: 40
- **Grid connection**: 400V, 3ph neutral + earth, 50-60 Hz

### Heat source
- **Temperature range [°C]**: 70-120
- **Thermal power input range [kWth]**: 450-640
- **Hot source medium**: Water, steam, oil
- **Hydraulic connections**: DN 80, PN16

### Cold source
- **Temperature range [°C]**: 0-60
- **Working fluid**: Water
- **Cooling system**: Dry cooler, cooling tower
- **Hydraulic connections**: DN 100, PN16

### Main components
- **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

### Main ratings
- **Weight [kg]**: 1365
- **Dimensions L x w x h (mm)**: 1980 x 1200 x 1900
- **Environmental**: IP 20
- **Noise level [dB] @10m**: 60
- **Design lifetime [yrs]**: 20
- **Safety**: Non flammable, non toxic, ODP=0

### Norm compliance
- **Machine directive**: 2006/42/EG
- **PED**: 2014/68/EU
- **Electrical norms**: 2014/35/EG
- **Grid codes**: VDE-0126 (G59, VDE-ARN, UL,...)

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

### Dimensions
![Diagram of equipment dimensions]