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 production of 10 kWe even after low grade heat source at 70°C.

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 hours running on site after biomass boilers, gas engines, geothermal sources, process heat 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 [kWe]**: 10
- **Grid connection**: 400V, 3ph neutral + earth, 50-60 Hz

### Heat source
- **Temperature range [°C]**: 70-120
- **Thermal power input range [kWth]**: 55-160
- **Hot source medium**: Water, steam, oil
- **Hydraulic connections**: DN 50, PN16

### Cold source
- **Temperature range [°C]**: 0-60
- **Working fluid**: Water
- **Cooling system**: Dry cooler, cooling tower
- **Hydraulic connections**: DN 50, PN 16

### Main components
- **Working fluid**
- **Generator**
- **Expander**
- **Heat exchangers**
- **Pump**
- **Controls**
- **Monitoring**
- **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]**: 450
- **Dimensions L x w x h (mm)**: 1280 x 800 x 1805
- **Environmental**
- **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,...)

### Dimensions

- **Good to know**

  This system is built to be integrated indoors and should be installed as close as possible of the heat source to reduce heat losses through the pipes.