

We transform energy.  
From heat to clean electricity.

## ORC APPLICATION INDUSTRIAL PROCESS

Petrochemical Industry  
**Glassworking**  
Food Industry  
Metalworking Industry  
Ceramics  
Paper Industry



\*Outdoor solution



\*Indoor solution

### ULH Series

Solution to exploit low-temperature thermal sources.

Available in a power range from 30 to 100 kWe.

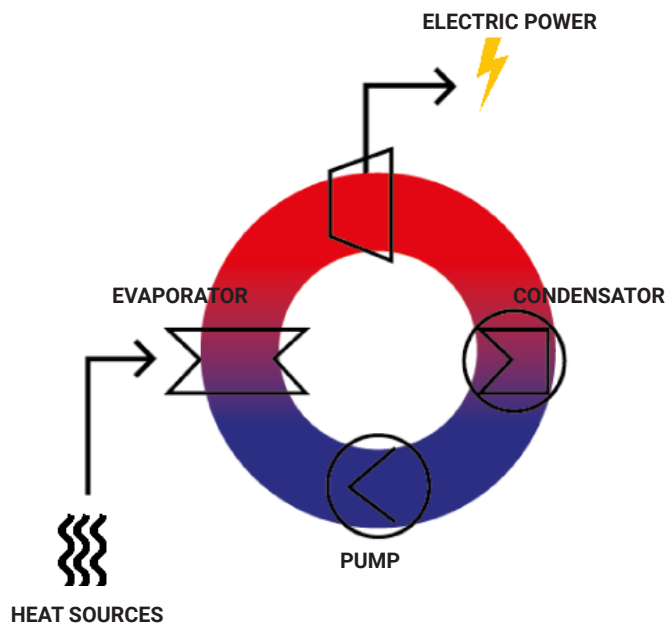
### LT Series

Solution for small-scale primary power generation.

Available in a wide range of models ranging from 75 to 495 kWe.

# ORC TECHNOLOGY

# TECHNICAL NOTES



## ULH SERIES

Thermal Energy Input	350 - 1200 kWt
Electric Power Output	30 - 100 kWe
System Efficiency	8,50 - 9,10 %
Weight (incl. working fluid)	~3.100 - 6.500 Kg
Interfaces	Hot water ( $\geq 95^{\circ}\text{C}$ )

## LT SERIES

Thermal Energy Input	550 - 2909 kWt
Electric Power Output	75 - 495 kWe
System Efficiency	13,60 - 17,00 %
Weight (incl. working fluid)	~4.000 - 21.500 Kg
Interfaces	Pressurized Water ( $\geq 160^{\circ}\text{C}$ ) Diathermic Oil ( $225^{\circ}\text{C}$ )

# ADVANTAGES

## SIZE ADAPTABLE

The small dimensions and power rating make them **ideally suited for a distributed installation** capable of intercepting heat.

## GREEN

Use of **safe/green, non-toxic, non-flammable and ozone-friendly** working fluid.  
**No atmospheric emissions.**

## SYSTEM RELIABLE

Simplification of retrofitting to existing systems, making the **system reliable and allowing unparalleled recovery efficiency.**

## CASE STUDY

**Model: Zuccato Energia ZE-200-LT**  
**Net power production: 183,60 kWe**  
**Electricity Selling Price: 106 €/MWh**

Note : Energy Efficiency Certificates (known as TEE) are negotiable securities valued at 250€ for each TOE saved (TOE= Tonne of Oil Equivalent, equivalent to 5,347 kWh)

### Revenue from Electricity

**156.688,75 €/y**

Annual electric power production:  
1.469,60 MWh/y

### Revenue from Incentives

**68.500,00 €/y**

The ORC plant allows saving  
274,82 TOE per year

### Pay-Back Time

**3,32 years**

## GOALS OF THE COMPANY

### Profit of Investment - ORC



### Environment - friendly

**274**

TOE (Tonne Oil Equivalent) SAVED

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