

**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**.

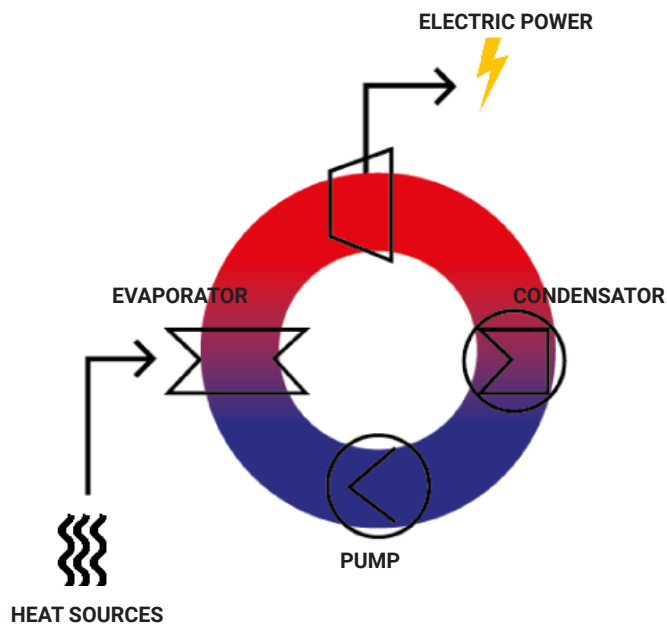
LT Series

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°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-175-LT
Net power production: 159,90 kWe
Electricity Selling Price: 0,12 €/kWh

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

149.666,40 €/y

Annual electric power production:
1.365 MWh/y

Revenue from Incentives

58.307,54 €/y

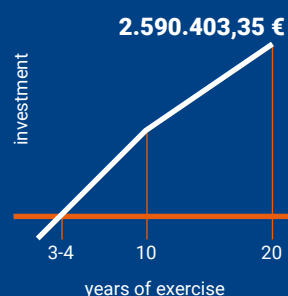
The ORC plant allows saving 107,24 TOE per year

Pay-Back Time

3,97 years

GOALS OF THE COMPANY

Profit of Investment - ORC



Environment - friendly

107

TOE (Tonne Oil Equivalent) SAVED PER YEAR

319 ton/y

CO₂ AVOID

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