

What technologies has enertime mastered for its orc machines?

Enertime has mastered many technologies for its ORC machines, including: The turbines technologies from turbine type, multi-stage for expansion of pressure gases; Control of refrigerant fluids (current and new generation), particularly for machines using non-flammable fluids;

How many kW is a enertime Orc machine?

From 100 kW as standard, and typically from 300 to 3000 kW with the ORCHID and CORDIAL ranges; Enertime has mastered many technologies for its ORC machines, including: The turbines technologies from turbine type, multi-stage for expansion of pressure gases;

What are the characteristics of enertime Orc machines?

Enertime markets different ORC machines (standards or specials) with the following characteristics: Temperatures of hot sources above 90 °C, and typically between 150 and 200 °C; From 100 kW as standard, and typically from 300 to 3000 kW with the ORCHID and CORDIAL ranges;

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The Enertime Solution harnesses unused industrial heat, transforming it into electricity through an innovative process known as the Organic Rankine Cycle (ORC). This technology operates similarly to a traditional steam turbine, but it uses organic fluids with a lower boiling point than water, making it more efficient at lower temperatures.

The Organic Rankine Cycle (ORC), a closed-loop thermodynamic system, efficiently transforms energy from diverse sources, including biomass, geothermal, solar energy, waste heat from industrial processes, traditional fuels, and waste incineration, into electrical and thermal energy.

ORC for low and medium temperature resources (100 to 180 °C): ORC allows reinjecting the totality of the geothermal resources and facilitate the management of non-condensable gases, such as CO₂ and H₂S. Our 1 and 2 stage plants are optimized for each project's characteristics in order to offer the best profitability of the project.

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Enertime optimizes its proposal according to targeted electricity price, offering the best economic

balance-to-any kind of geothermal project as follows. o ORC for low and medium temperature resources (100 to 180°C): ORC allows reinjecting 100% of the geothermal resources and facilitate the management of non-condensable gases.

Enertime offers unique competitive turn-key solutions for industrial-scale distributed CO₂-free electricity and heat production with using a proprietary Organic Rankine Cycle (ORC) technology. ORC technology is based on the thermodynamic cycle called the Rankine cycle, in memory of the 19th century Scottish scientist who theorized it.

Web: <https://www.taolaba.co.za>

