ACTIVE COOLER

MODEL: AC800

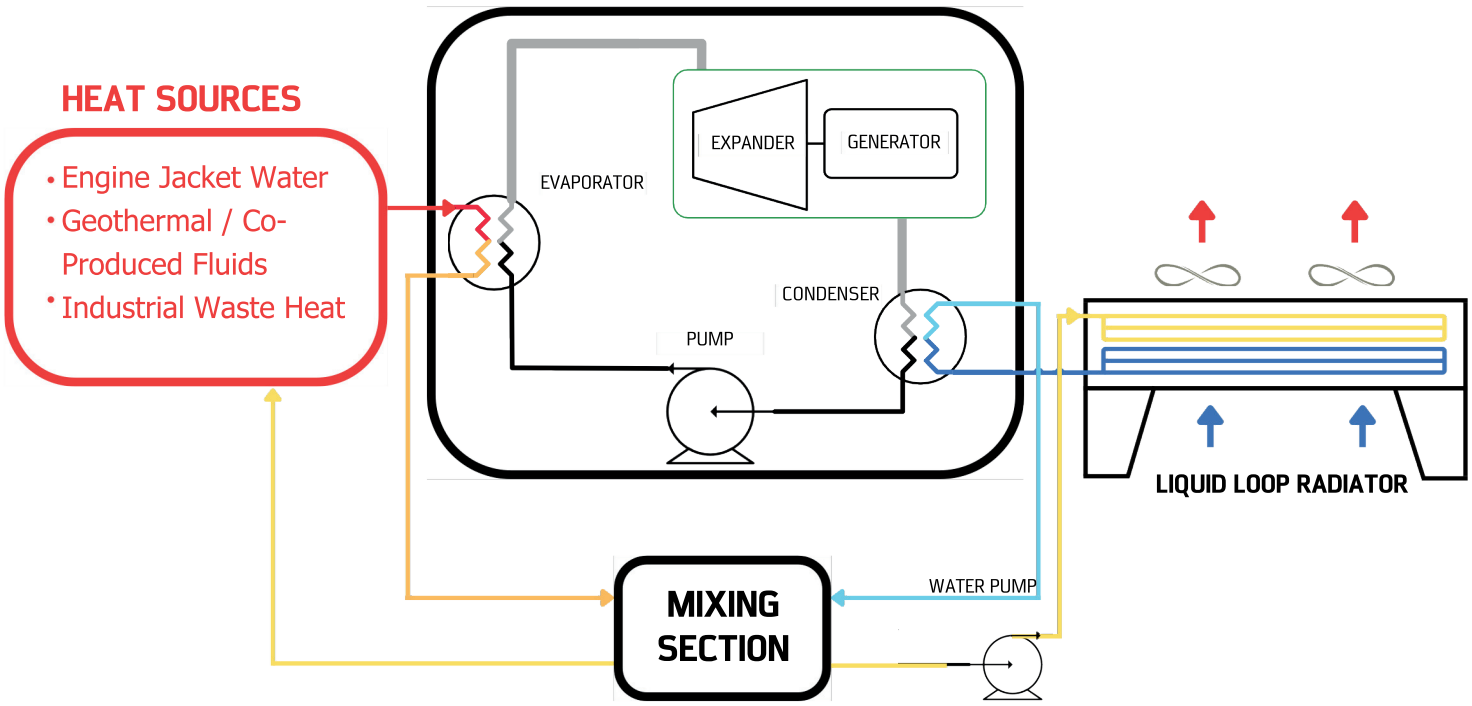
ElectraTherm
BY BITZER GROUP
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PRODUCT OVERVIEW

ElectraTherm's Active Cooler (AC800) replaces conventional coolers with a system that cools while generating power. The AC800 utilizes the Organic Rankine Cycle (ORC) to convert waste heat into emissions-free electric power. This technology allows end users to generate onsite power and improve site efficiency, all while providing the needed cooling for the site.

Hot Water Conditions	ORC
Temperature Range:150-241°F (65-116°C)	Max Power Output: 75kW
Flow Rate: 48-364 GPM (3-23 L/s)	Utility Connection: 3 phase // 380-500v // 50, 60 Hz
Max Thermal Input: 4.1 MMBTU/h (1200 kW)	Working Fluid: R1233zd(E) 185 lbs (84 kg)
Higher temps or non water/glycol fluids possible with interface heat exchanger	Weight: 9,449 lbs (4,286 kg) Dimensions: 8'4" x 31' x 7'3" (W x L x H) (2.54m x 9.462m x 2.19m)





// Heat loads larger than 800 kWth may require a custom design.

// Heat sources above 300F require an additional heat exchanger.

// Options available with and without rugged skid options.

DESIGN **ATTRIBUTES**

// Achieve net-zero cooling while generating emission-free power.

// Eliminate the parasitic cooling load, reducing energy costs and increasing efficiency.

// The Active Cooler reduces capital cost and provides additional revenue for years to come.

// Heat is our fuel - zero emissions or fossil fuel requirements.

PRODUCT **HIGHLIGHTS**

// Provides up to 100% full-load cooling abilities while generating clean power.

// Reduces or eliminates engine derate due to insufficient cooling.

// Closed-loop system with simple water and grid connections.

// Provides a baseload power supply in remote areas.



The ElectraTherm ORC design incorporates a BITZER semi-hermetic twin screw expander. Both the expander and generator are integrated within the same housing, eliminating the need for a shaft seal and enhancing reliability. Additionally, the expander is designed for dual-phase flow, allowing for a robust range of operating conditions.

KOOL BRICKS RENEWABLES

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