



ElectraTherm 125 kWe ORC and Hurst Boiler Containerized Power Plant for Sale | Waste Heat to Electricity

Infinity Turbine
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<https://www.infinityturbine.com/electratherm-125kwe-hurst-boiler-used-for-sale-by-infinity-turbine.html>

A turnkey waste-heat-to-power system is now available, fully integrated inside a 40-foot shipping container and in near-new condition with minimal runtime. This self-contained unit pairs a Hurst Series 250 boiler with an ElectraTherm Power Organic Rankine Cycle 125 kWe 480 V 3 phase 60 hz generator, designed to efficiently convert low-grade heat into grid-ready electricity. Factory-tested, fully certified, and equipped with advanced PLC controls, rapid startup, and built-in safety systems, this containerized power solution offers a compact, transportable, and ready-to-deploy energy asset. Turn waste heat into electricity with a containerized ElectraTherm 125 kWe Organic Rankine Cycle and Hurst industrial boiler. Fully integrated in a 40-ft shipping container, this turnkey system delivers deployable biomass, biochar, and industrial waste heat power generation.



This webpage QR code

PDF Version of the webpage (maximum 10 pages)

ElectraTherm 125 kWe System with Hurst Boiler Packaged in a 40 Foot Shipping Container Ready to Deploy | Priced to Sell Quickly

A used turnkey waste-heat-to-power system is now available, fully integrated inside a 40-foot shipping container and in near-new condition with minimal runtime. of 39 hours. This self-contained unit pairs a Hurst Series 250 boiler with an ElectraTherm Power Organic Rankine Cycle 125 kWe 480 V 3 phase 60 hz generator, designed to efficiently convert low-grade heat into grid-ready electricity. Factory-tested, fully certified, and equipped with advanced PLC controls, rapid startup, and built-in safety systems, this containerized power solution offers a compact, transportable, and ready-to-deploy energy asset.

Please call or email to make an offer.

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Details on ElectraTherm and Hurst Boiler Packaged System

ElectraTherm: IT-6500

SN: 6305

MFG: 6500B

Date: 8/11/2021

Working Fluid Pressure MAWP: 10 Bar @ 132 C (145 psi)

Hot Water: 10 Bar @ 132 C Max Flow: 80 m3/hr 77-132 C Operational Range

Cooling Water: 10 Bar @ 38 C

Refrigerant: R-245fa (Min Charge: 182 kg)

Oil Charge: 13.5 kg

Oil: 100 ISO/500 SUS ALKYL BENZENE

Generator: 125 kW 3-phase 480 V 60 HZ Delta with Earth Ground

<https://electratherm.com>

Hurst Boiler www.hurstboiler.com

ASME

H Job Number: 2300197

Model #S250-X-200-30W

26035

Max WP PSI: 30 WTR

Serial Number: S652-30W-1

Heating Surface Area: 632 SF

Minimum Safety Valve / HR: 8,000,000 BTU 8 MMMBTU/hr

Boiler Output/HR: 6,695,000 BTU

Year Built: 05/2025

Max Water Temperature: 250 F (121 C)

See: <https://www.hurstboiler.com/cad/ab-series-250>

Video:

<https://youtu.be/8bsTh-UrlnA>

<https://youtube.com/shorts/1X4q6v6c1ws?feature=share>

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Annual Revenue Table (125 kW Continuous Output)

Rate (\$/kWh)	Annual Energy (kWh)	Yearly Revenue (\$)
\$0.20	1,095,000	\$219,000
\$0.40	1,095,000	\$438,000
\$0.60	1,095,000	\$657,000

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Compare to New System | Make Offer on this Used / Surplus Packaged System

New system price over \$600,000 in this pre-packaged installed format.

Priced separately new prices are approximately:

Electratherm ORC: \$450,000

Hurst Boiler: \$100,000

Containerized with assembly: \$100,000

Please call or email to make a offer on this used/surplus system.

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Turn low-grade heat into revenue with a fully containerized power plant ready to deploy

This pre-packaged 40-foot container combines a 125 kWe Organic Rankine Cycle generator with an industrial Hurst boiler to deliver grid-ready electricity from heat that would otherwise be wasted. With minimal runtime and turnkey integration, this mobile energy platform enables rapid deployment for biomass systems, industrial facilities, and distributed power projects where reliable on-site generation is required.

Compact, transportable, and factory-tested, this system transforms heat into power wherever thermal energy exists.

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Key Applications

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Biomass to Energy

Convert wood waste, agricultural residues, and organic fuels into continuous electricity. The boiler produces thermal energy from biomass combustion, while the ORC generator converts that heat into grid-quality power.

Biochar Production

Pair with pyrolysis or carbonization systems. Recover heat from the biochar process and convert it into electrical output, improving system economics and overall energy efficiency.

Industrial Waste Heat Recovery

Capture heat from manufacturing, kilns, furnaces, dryers, or thermal processing lines. Instead of venting heat to atmosphere, generate electricity on site.

Remote and Distributed Power

Deploy containerized generation where grid access is limited or unreliable. Ideal for modular industrial plants, remote facilities, or temporary energy needs.

CHP and Thermal Optimization

Use the boiler as a controlled heat source for combined heat and power configurations, maximizing energy recovery across multiple thermal processes.

Renewable Thermal Projects

Integrate with solar thermal, geothermal hot water loops, or other moderate-temperature heat sources suitable for ORC conversion.

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Containerized Waste Heat Power: The Electratherm 125 kWe ORC and Hurst Boiler Integrated Energy System

The integration of thermal energy systems with modular power generation has become a critical strategy for improving industrial efficiency, reducing emissions, and enabling distributed electricity production. A containerized system combining an Organic Rankine Cycle generator with an industrial boiler represents a practical implementation of this concept.

The Electratherm 125 kWe ORC paired with a Hurst Series 250 boiler is an example of a fully integrated thermal-to-power platform engineered for rapid deployment. Packaged inside a 40-foot shipping container, the system functions as a compact power plant that converts heat into electricity with minimal site infrastructure requirements.

System Overview

The installation combines two primary components:

Hurst Series 250 Boiler

- Provides controlled thermal energy input
- Industrial firetube design with high heat output
- Designed for continuous operation and thermal reliability

Electratherm 125 kWe Organic Rankine Cycle Generator

- Converts low-grade heat into electrical power
- Produces grid-ready 3-phase electricity
- Uses a closed-loop working fluid cycle
- Designed for rapid startup and automated operation

Together, these components form a thermal energy conversion chain: heat generation followed by heat-to-power conversion.

The system is fully integrated, factory tested, and mounted within a transportable container enclosure, allowing it to be delivered and installed with minimal commissioning time. ([infinityturbine.com][1])

Organic Rankine Cycle Power Conversion

The Organic Rankine Cycle is a thermodynamic process that converts moderate-temperature heat into mechanical and electrical



energy. Instead of steam, the system uses an organic working fluid with a lower boiling point, enabling power generation from heat sources that are insufficient for conventional steam turbines. Heat from the boiler transfers into the ORC heat exchanger. The working fluid vaporizes, expands through a turbine or expander, and drives a generator. The fluid is then condensed and recirculated, forming a closed loop.

This process enables electricity generation from:

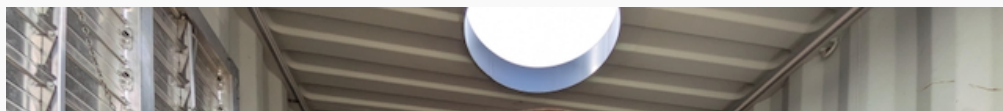
- Industrial waste heat
- Combustion systems
- Biomass furnaces
- Hot water loops
- Thermal process exhaust streams

Because ORC systems operate efficiently at lower temperatures, they are especially suited to recovering energy that would otherwise be discarded.

Containerized Deployment Architecture

Having the entire plant inside a 40-foot shipping container offers

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