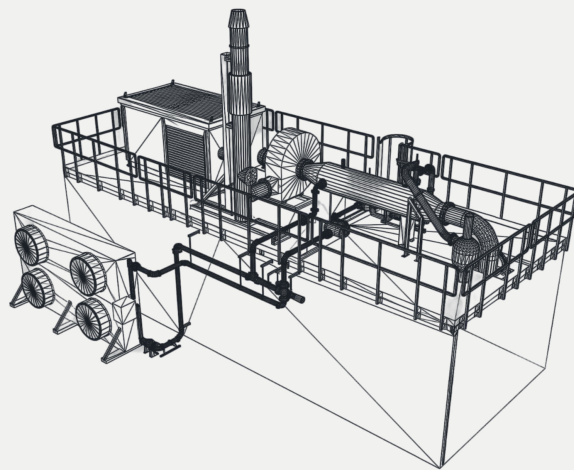


[Power from Waste Heat]

ClinX Heat 150

ClinX Heat is an externally fired micro gas turbine system that converts industrial waste heat of around 900 to 1,000 °C into electrical energy and usable process heat. No additional fuel required, delivered in a 40-foot container.



Schematic illustration

150 kW

Gross electrical power

450 kW

Nominal thermal power

72%

Overall efficiency

1,040 MWh

Net electricity per year at 8,000 operating hours

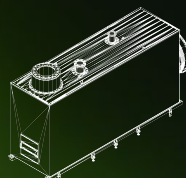
[How It Works]



Waste heat from your process

Hot gas at 900 to 1,000 °C comes straight from your industrial process, with no additional fuel.

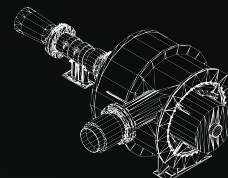
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High-temperature heat exchange

The energy passes to compressed, clean air, fully separated and with no mass transfer.

>>>



Turbine and heat extraction

The hot air drives the turbine and generator. An economizer extracts the residual heat at 90/70 °C.

ClinX Heat 150

Technical Specifications*

Gross electrical power	150 kW
Net electrical power	130 kW
Nominal thermal power	450 kW
Auxiliary power consumption	20 kW

Efficiencies

Electrical, gross	19.9%
Electrical, net	17.3%
Thermal	52.1%
Overall	72%

Heat Source Requirements

Heat source output	> 750 kW thermal, continuous
Temperature	900 to 1,000 °C
Permissible dust content	< 10 mg/m ³
Connection	provided by customer on site

Applications

- Glass, ceramics and brick industries
- Metal processing and foundries
- Cement and lime industries
- Chemical and petrochemical industries
- Wood and biomass processing with thermal drying processes

* Performance data based on standard design conditions (15 °C ambient temperature, 80% relative humidity, sea level). ** If the electricity generated replaces grid electricity. Calculation basis: 344 g CO₂ per kWh, German electricity mix 2025 according to the German Environment Agency (UBA). Emission values based on 6% residual oxygen content in the exhaust gas. Subject to technical changes. As of October 2026.

Dimensions and Connections

Dimensions	40-foot container
Foundation load	40 t
Heating system interface	min. DN65
Voltage/frequency	400 VAC/50 Hz

Exhaust Emissions

Exhaust gas volume flow (wet)	4,700 Nm ³ /h
Particulate matter	< 20 mg/Nm ³
Carbon monoxide (CO)	< 150 mg/Nm ³
Nitrogen oxides (NO _x)	< 370 mg/Nm ³

Heat Transfer Medium

Heat transfer medium	Water/glycol
Temperature level	90/70 °C
High-temperature circuit	Hot air or thermal oil
Control system	PLC, remote maintenance

Annual Balance (8,000 h/yr)

Net electricity	approx. 1,040 MWh
Avoided CO ₂ emissions**	approx. 350 t

[Our Plants]

Pyro-ClinX 150
Power, heat and biochar
from woody residues

ClinX Heat 150
Power and heat from
industrial waste heat

Pyro-Hex 1000
Heat and biochar,
without power generation



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More about the plant:
pyro-power.com/en/clin-x-heat

