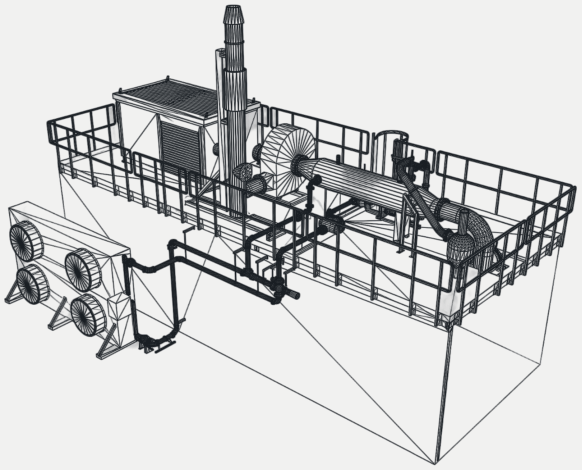
pyropower GmbH

Technical Data Sheet
As of October 2026

[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

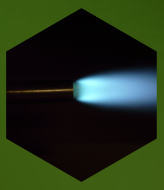
150 kW
Gross electrical power

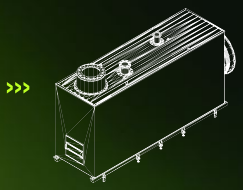
450 kW
Nominal thermal power

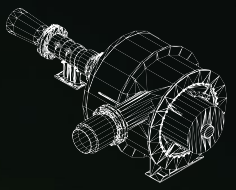
72%
Overall efficiency

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.

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.

[150 kW gross power] [450 kW heat]

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

Dimensions and Connections

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

Efficiencies

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

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 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

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

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

Annual Balance (8,000 h/yr)

Net electricity	approx. 1,040 MWh
Avoided CO_2 emissions**	approx. 350 t

* 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 CO_2 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.

[Our Plants]

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

ClinX Heat 150
Power and heat from
industrial waste heat

Pyro-Hex 315
Heat and biochar,
without power generation

pyropower GmbH

pyropower GmbH
Burger Chaussee 25
03044 Cottbus, Germany

+49 355 866 870 82
info@pyro-power.com
pyro-power.com

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