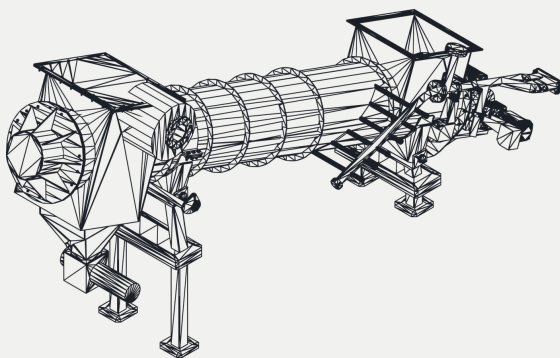


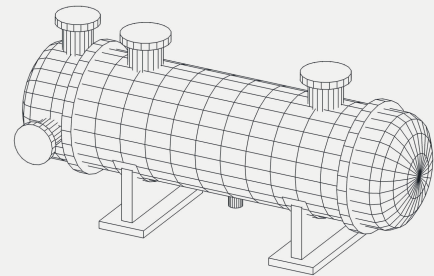
[Pyrolysis for Heat and Biochar]

Pyro-Hex 1000

Pure pyrolysis plant for producing biochar and high-temperature process heat, without power generation. For sites with a high heat demand that also want to use biochar as a CO₂ sink.



Pyrolysis reactor



Heat exchanger

Schematic illustration of the core components

990 kW

Nominal thermal power*

75 kg/h

Biochar

1,720 t/yr

CO₂ equivalent, sequestered

1,200 °C

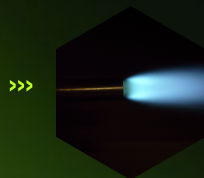
Post-combustion, max.

[How It Works]



Woody residues

Wood chips G30 to G50 are fed in continuously. Other residues are possible after approval.



Pyrolysis and post-combustion

Biochar is produced at 650 to 800 °C. The pyrolysis gases are post-combusted at up to 1,200 °C.



Heat and biochar

A heat exchanger extracts up to 990 kW of heat. The biochar is discharged continuously.

Pyro-Hex 1000

Technical Specifications

Fuel thermal input	1,400 kW
Nominal thermal power*	990 kW
Auxiliary power consumption	max. 20 kW
Process	Continuous pyrolysis
Process temperature	650–800 °C
Post-combustion	up to 1,200 °C
Operating mode	24/7 fully automated

Feedstock

Specification	Wood chips G30–G50
Maximum particle length	150 mm
Throughput (wet mass)	315 kg/h at 10% moisture
Max. permissible moisture content	25% (reduced output)
Other residues	on request, subject to approval

Biochar

Biochar production (dry matter)	20–25% of input
Biochar output	75 kg/h
EPA16-PAH (EBC method)	< 4 mg/kg
CO ₂ equivalent (sequestered)	1,720 t/yr

Dimensions (excluding attachments)

Length	12.00 m
Width	6.50 m
Height	6.30 m
Mass	approx. 90 t

Heat Transfer Medium

Heat transfer medium	Water/glycol/thermal oil
Temperature level (standard)	90/70 °C
Process heat (optional)	up to 300 °C
Heat extraction	via heat exchanger

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

Certification and Standards

Biochar	EBC AgroBio capable
CO ₂ sink	C-Sink certifiable
Control system	PLC, remote maintenance

* Performance data based on standard design conditions (15 °C ambient temperature, 80% relative humidity, sea level). Actual output may vary depending on the residue, heat sink and operating mode. 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 1000
Heat and biochar,
without power generation



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