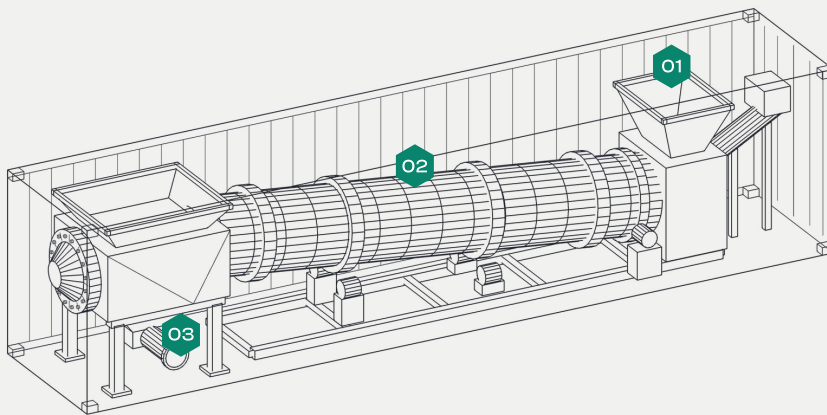


[ Pyrolysis for Heat and Biochar ]

# Pyro-Hex 1000

Containerized pyrolysis plant for producing biochar and high-temperature process heat, without power generation. For sites with a high heat demand and large volumes of woody residues.



[ 40 ft Container ]

- 01 Feed**  
Wood chips, up to 1,000 kg/h, are fed in continuously.
- 02 Pyrolysis reactor**  
Continuous pyrolysis at 650 to 800 °C.
- 03 Discharge**  
The biochar is discharged; the gases are post-combusted at up to 1,200 °C.

Schematic illustration in a 40 ft high cube container

**1,000 kg/h**

Wood chip input

**2,400 kW**

Usable thermal output, approx.\*

**240 kg/h**

Biochar

**5,460 t/yr**

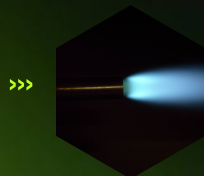
CO<sub>2</sub> equivalent, sequestered

[ How It Works ]



## Woody residues

Wood chips G30 to G50, up to 1,000 kg/h, 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 around 2,400 kW of heat. The biochar is discharged continuously.

# Pyro-Hex 1000

## Technical Specifications

|                             |                      |
|-----------------------------|----------------------|
| Fuel thermal input          | approx. 4,440 kW     |
| Usable thermal output*      | approx. 2,400 kW     |
| Auxiliary power consumption | approx. 65 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)             | 1,000 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                           | approx. 240 kg/h   |
| EPA16-PAH (EBC method)                   | < 4 mg/kg          |
| CO <sub>2</sub> equivalent (sequestered) | approx. 5,460 t/yr |

## Dimensions (excluding attachments)

|        |                           |
|--------|---------------------------|
| Design | 40 ft high cube container |
| Length | 12.19 m (40 ft)           |
| Width  | 2.44 m (8 ft)             |
| Height | 2.90 m (9 ft 6 in)        |

## Heat Transfer Medium

|                              |                                           |
|------------------------------|-------------------------------------------|
| Heat transfer medium         | Water/glycol, thermal oil or hot air      |
| Temperature level (standard) | 90/70 °C                                  |
| Process heat (optional)      | up to 750 °C                              |
| Heat extraction              | heat exchanger tailored to customer needs |

## Exhaust Emissions

|                                    |                          |
|------------------------------------|--------------------------|
| Particulate matter                 | < 20 mg/Nm <sup>3</sup>  |
| Carbon monoxide (CO)               | < 150 mg/Nm <sup>3</sup> |
| Nitrogen oxides (NO <sub>x</sub> ) | < 370 mg/Nm <sup>3</sup> |

## Certification and Standards

|                      |                         |
|----------------------|-------------------------|
| Biochar              | EBC AgroBio capable     |
| CO <sub>2</sub> 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). All performance and quantity figures are guide values. Each plant is designed for its site during project engineering. 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

### Pyro-Hex 1000

Heat and biochar  
in a container



pyropower GmbH  
Burger Chaussee 25  
03044 Cottbus, Germany

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

Learn more:  
[pyro-power.com/en](https://pyro-power.com/en)

