

C100-F

P Y R O L Y S I S B O I L E R

HEAT THAT SAVES THE CLIMATE

Information:

Except water, soil and atmosphere, biomass is the most important global CO₂ storage/sink. The conventional energetic use of local biomass releases as much CO₂ as was previously bound by the biomass. In contrast, BIOMACON technology essentially only uses the hydrogen contained in the biomass for energy purposes. Chemically stable carbon is systematically decoupled as biochar.

Production of biochar from sustainable biomass sources is an important component within the fight against climate change. One kilogram of pure biochar binds 3.6 kg of CO₂ for more than 1.000 years. Moreover, the application of biochar in agriculture is a powerful tool against soil desertification. Water and groundwater are actively protected when nitrate-containing fertilizers are replaced by biochar.

The BIOMACON pyrolysis boilers provide an integral system for the effective use of all available resources.

- BIOMACON Pyrolysis Boilers are designed for ligno-cellulosic raw materials with a maximum water content of 30%.
- The space requirement of the Pyrolysis Boilers is low. This makes the integration into existing buildings easy.
- The compact design ensures maximum heat utilization. The radiation losses are low.

BIOMACON Pyrolysis Boilers are heatdriven and designed according to the required heat demand. They are therefore available in various sizes from 40-500kW. The power control is modulating and automatically adapts to the required heat demand in a wide load range.

Technical Data:

Trade name:	Pyrolysis Boiler
Nominal thermal power:	100kW
Weight:	7.310kg
Heat exchanger water vol.:	1.463Liter
Max. operation pressure:	2,8bar
Max. permissible operating temp. in the converter:	900°C
Max. permissible operating temp. in the combustion chamber:	850°C
Rated voltage / current::	400V/32A
EL. power consumption:	3.500W



BIOMACON₂



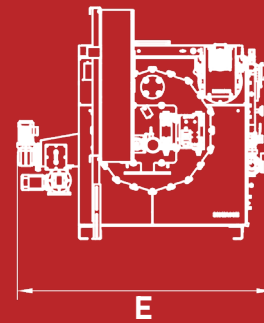
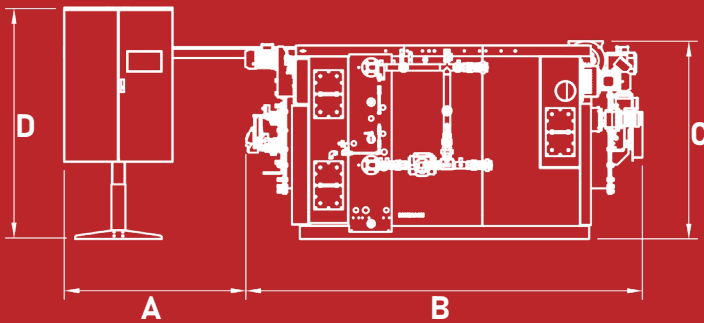
DECARBO ENERGY

HEAT THAT SAVES
THE CLIMATE

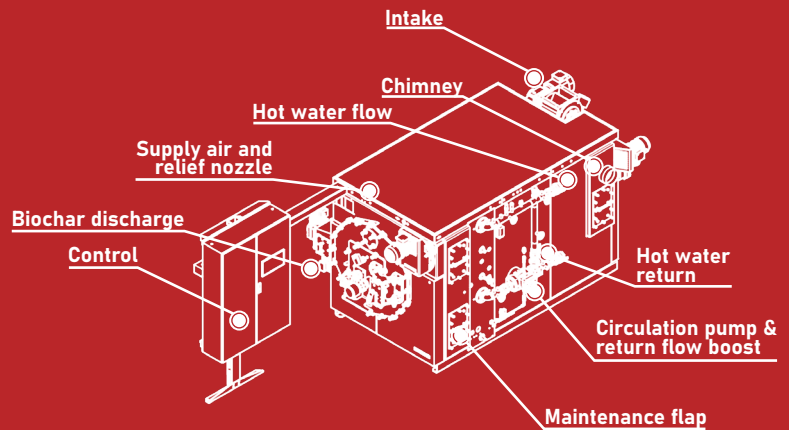
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PYROLYSIS BOILER

Technical Drawing:



	Dim in mm:
A	1.097
B	4.661
C	2.255
D	442
E	2.811



Application Example:

Baseline::

Solid fuel: Wood chips (pine)
 Water content: 20%
 Ash content: 2%
 Full load hours: 8.000

Model	Solid fuel intake [t/a]	Solid fuel intake [kg/h]	Biochar discharge [t/a]	Biochar discharge [kg/h]	Nominal thermal power [kW]	CO2 equivalent storage [t/a] (1kgC:3,6kgCO ₂)-20% loss
C100-F	480	60	92	12	100	265

North America Distribution Partner:
 High Plains Biochar LLC
 108 Howe Rd
 Laramie, WY 82070
 USA

CEO: Rowdy Yeatts
 Tel: 307-761-5508
 Main: Rowdy@HPBiochar.com
 Web: www.HPBiochar.com

Manufacturer:
 BIOMACON GmbH
 Schmiedestr. 2
 D-31547 Rehburg/Germany
 Tel: +49 5023 9000254

Mail: info@biomacon.com
 Web: www.biomacon.com
 Register-Nr: HRB 100820
 Local court: Walsrode

VAT-IdNr.: DE230915278
 CEO: Ulrich Suer
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