BIOMACON

DECARBO POWER

C224-F

PYROLYSIS BOILER

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. Other applications of biochar also exists

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 Pyrolyis Boilers is low, which makes the integration into existing buildings easy.
- The compact design ensures maximum heat utilization and low radiation losses

BIOMACON Pyrolysis Boilers are designed according to the required heat demand. They are therefore available in various sizes from 40-500kW. The heat power can be adjusted to the required heat demand in a wide load range.

Technical Data:

Trade name:	Pyrolysis Boiler
Nominal thermal power:	224kW
Rated thermal input:	380kW
Max. hot water temperature	95°C
Weigt:	12.960kg
Heat exchanger water vol.:	3.276liter
Max. operation pressure:	3bar
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/peak el. power:	12kW/16kW
Noise emissions:	<60dB

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Contact us!

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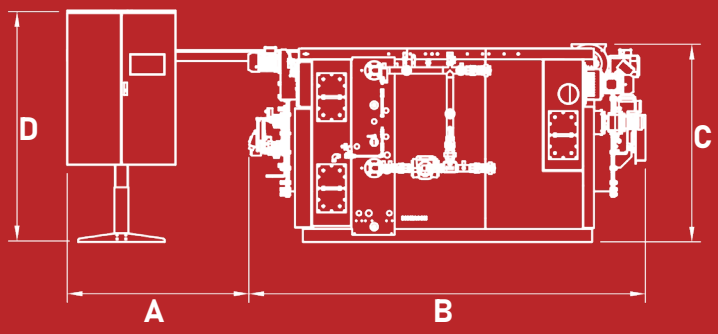
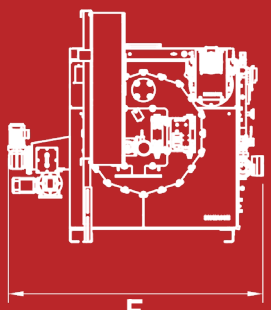
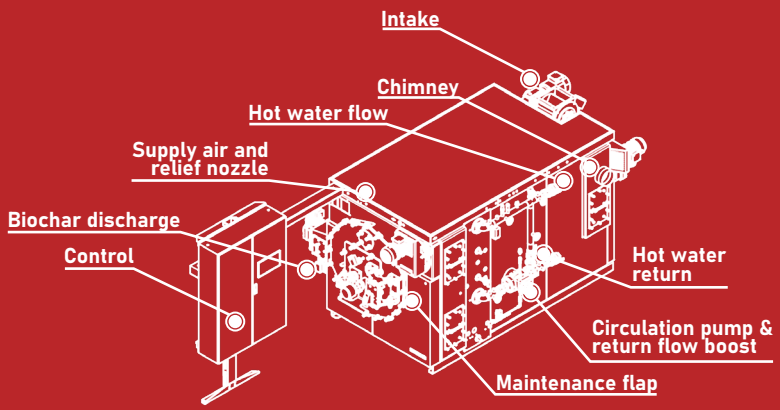
Technical Drawing:





	Dim in mm:
A	1.097
B	6.092
C	2.116
D	2.381
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
C224-F	1.065	113	204	25	224	588

*Information depends on other process parameters and is therefore not guaranteed

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