

## **DECARBO POWER**

# C160-E

## **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 excists

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:**

| Pyrolysis Boiler |
|------------------|
| 160kW            |
| 272kW            |
| 95°C             |
| 9.257kg          |
| 2.340liter       |
| 3bar             |
| 900°C            |
| 850°C            |
| 400V/32A         |
| 12kW/16kW        |
| <60dB            |
|                  |

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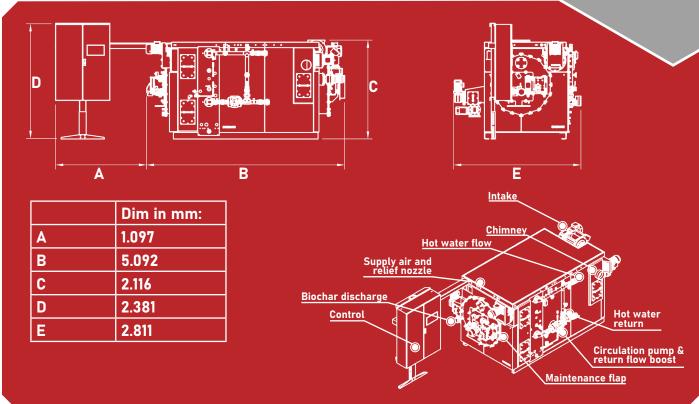


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### **Technical Drawing:**



## **Application Example:**

Baseline::

Solid fuel: Wood chips (pine)

Water content: 20%
Ash content: 2%
Full load hours: 8.000

| Model  | Solid fuel<br>intake [t/a] | Solid fuel<br>intake [kg/h] | Biochar<br>discharge [t/a] | Biochar<br>discharge<br>[kg/h] | Nominal thermal<br>power [kW] | CO2 equivalent<br>storage [t/a]<br>(1kgC:3,6kgCO2)-20% loss |
|--------|----------------------------|-----------------------------|----------------------------|--------------------------------|-------------------------------|---|
| C160-I | 760                        | 95                          | 146                        | 18                             | 160                           | 420   |

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



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