

# ClinX HEAT 150

## Technical Data \*

|                                     |                   |
|-------------------------------------|-------------------|
| Electric gross capacity [kW]        | 150               |
| Electric net capacity [kW]          | 130               |
| Electric on-site power [kW]         | < 20              |
| Combustion heat power capacity [kW] | 850               |
| Flow / return temperature [°C]      | 90/70 or 80/60 ** |
| Reference temperature flue gas [°C] | 150               |

## Dimensions and technical connections

|                              |                              |
|------------------------------|------------------------------|
| Dimensions                   | 2 pcs. 40' Container **      |
| Foundation load              | ≤ 40 t                       |
| Connection to heating system | min. DN65                    |
| Voltage / Frequency          | 400 VAC / 50 Hz              |
| Communication                | 2 Mbit/s internet connection |



## Fuel

Untreated, wooden biomass  
 Grain size: P16 - P45\*\* (DIN EN 17225-4)  
 Maximum water content: 50 %  
 Maximum ash content: 2 %

## Power requirement in relation to water content\*

|                               | Water content [%] | 10   | 20   | 35   | 50   |
|-------------------------------|-------------------|------|------|------|------|
| Calorific value [kWh/kg]      |                   | 4,5  | 4    | 3    | 2,2  |
| Fuel consumption [kg/h]       |                   | 136  | 158  | 223  | 350  |
| Fuel input capacity [kW]      |                   | 612  | 632  | 669  | 753  |
| Thermal useable power [kW]    |                   | 287  | 298  | 328  | 392  |
| Electric gross efficiency [%] |                   | 24,5 | 23,7 | 22,4 | 19,9 |
| Electric net efficiency [%]   |                   | 21,2 | 20,6 | 19,4 | 17,3 |
| Thermal efficiency [%]        |                   | 46,9 | 47,2 | 49,0 | 52,1 |
| Overall efficiency [%]        |                   | 71,4 | 70,9 | 71,4 | 72,0 |

## Core elements of the micro gas turbine



1. Compressor wheel



2. Turbine wheel



3. Air bearing



4. Powerhead

## Fulfilled emission limit values\*\*\*

|                 |                         |
|-----------------|-------------------------|
| Total dust      | < 20 mg/m <sup>3</sup>  |
| Carbon monoxide | < 400 mg/m <sup>3</sup> |
| Noise           | 65 dB(A) in 10 m        |

\* At following conditions:

Ambient air temperature: 15 °C.

Humidity: 80%.

Elevation: standard elevation zero.

\*\* Customizable specific to customer requirements.

\*\*\* According to 1. German Federal Immission Control Act, Technical Instructions on Air Quality Control ("TA-Luft") and Noise prevention ("TA-Lärm"). Reference oxygen content: 13%.

Technical changes reserved.