

ClinX WOOD 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 heat power output [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 ³
Carbon monoxide	< 400 mg/m ³
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.