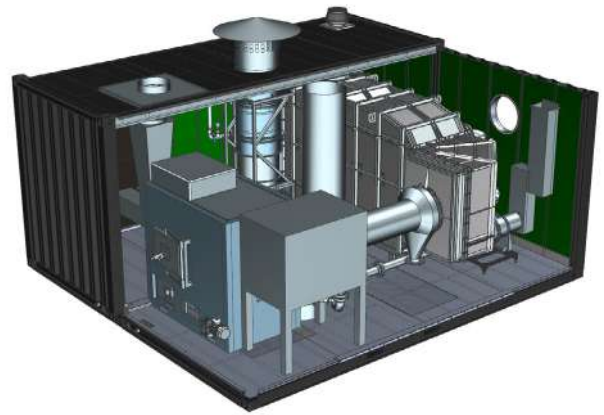


## Technical Data \*

Electric gross capacity [kW]	50
Electric net capacity [kW]	40
Electric on-site power [kW]	< 10
Rated thermal input [kW]	350
Flow / return temperature [°C]	90/70 or 80/60 **
Reference temperature flue gas [°C]	150

## Dimensions and technical connections

Dimensions	2 pcs. 20' Container **
Foundation load	≤ 20 t
Connection to heating system	min. DN40
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]		51	59	83	131
Fuel input capacity [kW]		230	236	249	282
Thermal useable power [kW]		110	114	126	149
Electric gross efficiency [%]		21,8	21,2	20,1	17,8
Electric net efficiency [%]		17,4	16,9	16,1	14,2
Thermal efficiency [%]		47,9	48,3	50,6	52,9
Overall efficiency [%]		69,7	69,5	70,7	70,7

## 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.