

Technical Data *

Electric gross capacity [kW]	50
Electric net capacity [kW]	40
Electric on-site power [kW]	< 10
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

Plant capacity depending on the heat source *

	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



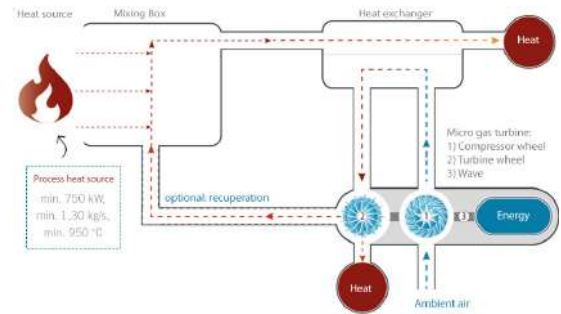
2. Turbine wheel



3. Air bearing



4. Powerhead



Process diagram ClinX HEAT

Heat source of the client

Energy content min. 650 kW
 Mass flow min. 0.61 kg/s
 Temperature ~ 950 °C
 Total dust content < 10 mg/m³

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.