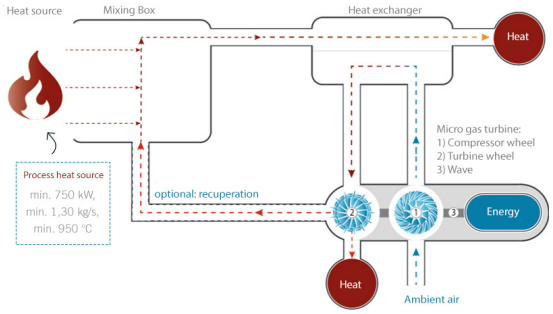
# ClinX 50

## 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 |




Process diagram ClinX HEAT

## 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 |

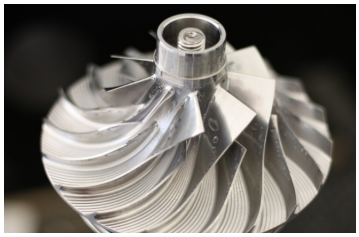
## Heat source of the client

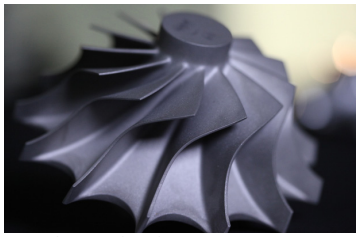
Energy content min. 650 kW
Mass flow min. 0.61 kg/s
Temperature ~ 950 °C
Total dust content < 10 mg/m³

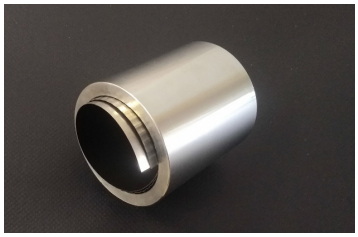
## Plant capacity depending on the heat source *

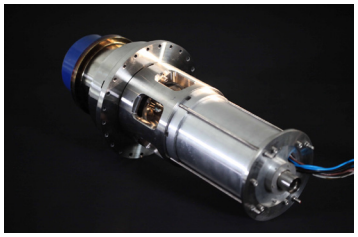
| Water content [%] | 10 | 20 | 35 | 50 |
|---|---|---|---|---|
| Calorific value [kWh/kg] | 4,5 | 4 | 3 | 2,2 |
| Fuel consumption [kg/h] | 51 | 59 | 83 | 131 |
| Fuel input capacity [kW] | 230 | 236 | 249 | 282 |
| Thermal useable power [kW] | 110 | 114 | 126 | 149 |
| Electric gross efficiency [%] | 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

## Fulfilled emission limit values***

| | |
|---|---|
| Total dust | < 20 mg/m³ |
| Carbon monoxide | < 400 mg/m³ |
| 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.