

GasiFlex 50 Gasifier



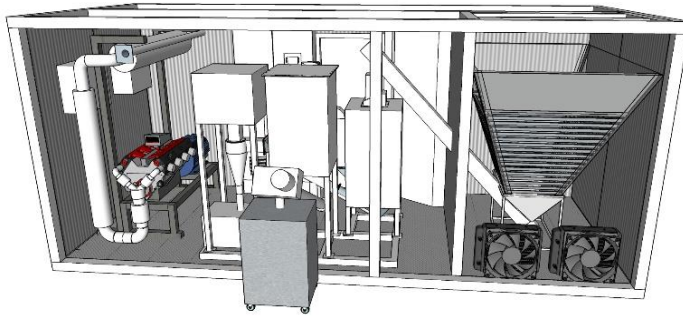
The GasiFlex50 power unit built into 20ft container is a unique "3-in-1" solution of

a gasifier,
a co-generator,
an integrated dryer .

The high degree of automation enables the packaged technology to be deployed without constant staff and to be monitored constantly by remote surveillance. The unique biomass based patented technology accepts the input fuel materials with high flexibility and tolerance.



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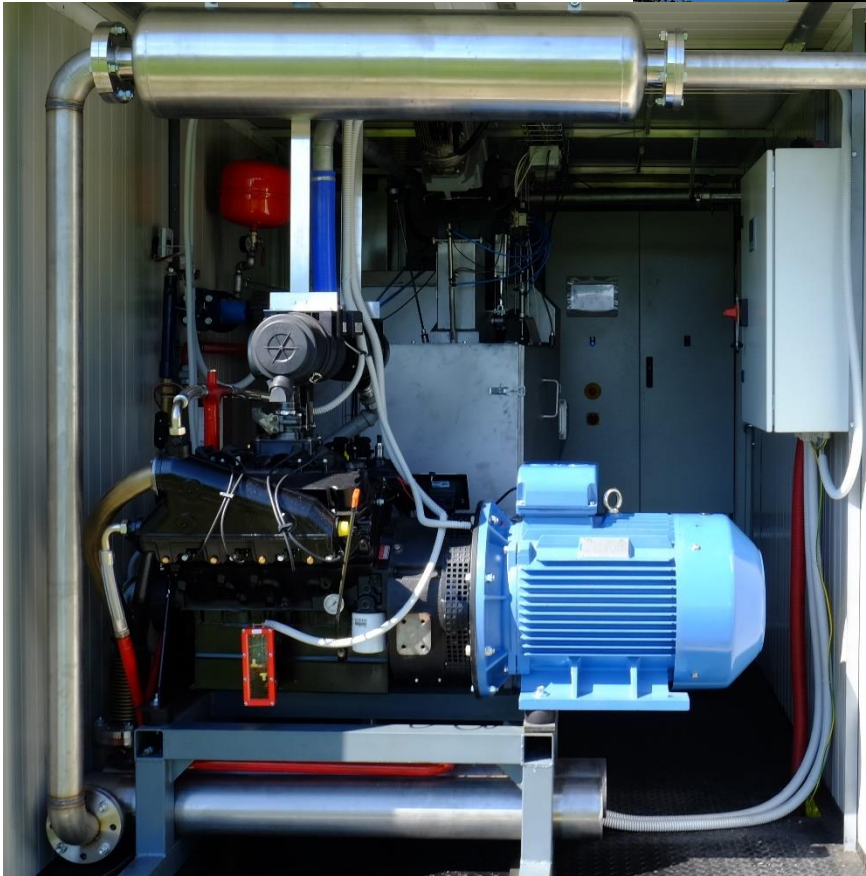
Electricity

Heat

<25 %
Humidity

Dryer : 7 %
Humidity Reduction

50kW_e Biomass Power Plant



www.GasiFlex.com

GasFlex50 Technical Parameters:



Input Material - Woodchips	G 20-50
Humidity of Input Material	< 25% , best gasification performance < 18% integrated dryer is decreasing the humidity by 7%
Captive electric consumption	approx. 1.5-2 kW
Ash removal	automatic ash removal by the conveyor, from the ash collector manually
Supply of wood chips	by screw conveyor
The output power /hour	49 kW electric power output; 85 kW of thermal power output (H2O loop 90/70 °C) * PLUS 11 kW thermal power output (dry hot air output at 60 °C for dryer)
Voltage, frequency, current	400VAC, 50 Hz, 86A
Consumption of wooden chips	approx. 5.5 m3 / day, max 1 kg /hour for 1kW electric energy by woodchips of 18% moisture content
Siemens PLC controller	5.7 "touch panel, GSM Alarm signal, via Internet
Compressed air	required working pressure 6-8 bar consumption 200 l/h, to be provided by the buyer
Gas engine	Natural Aspirated ORIGINE 8,0L, V8I.
Generator	HGIE2 generator, 3-phase ind. motor, 400VAC, 50Hz, air-cooled, RPM: 1500 / min
Automatic ignition	Yes, Electric ignition
Performance	Indoor/Outdoor version
Operating hours / year	min 7500 hours
Containerized Version Size	L: 6.057 mm W: 2.440 mm H: 2.591 mm
Weight :	max 4,300 kg

*The power output oscillates in the range of +/- 7% of defined parameters

Main Features

- Fully Automated, Remote Monitoring
- Integrated Safety Regulations
- Proprietary co-generation design & production
- Easy Maintenance & International Service
- Fast Installation and Start Up

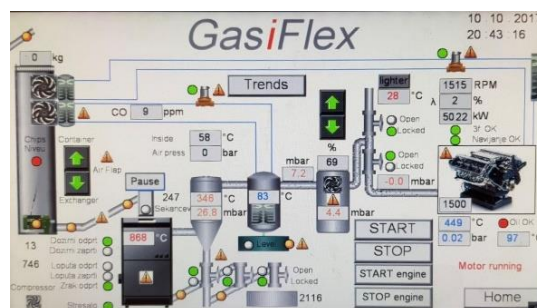


Material Balance

Input Material Consumption			Output Electric Energy		Output Thermal Energy	
Wooden Chips	1 hour	1 year	1 hour	1 year	1 hour	1 year
at 25% moisture	49kg	375MT	49kWe	375 MWHe	85kWt	675 MWHT
at 30% moisture	49kg	375MT	44kWe	336 MWHe	78kWt	600 MWHT



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