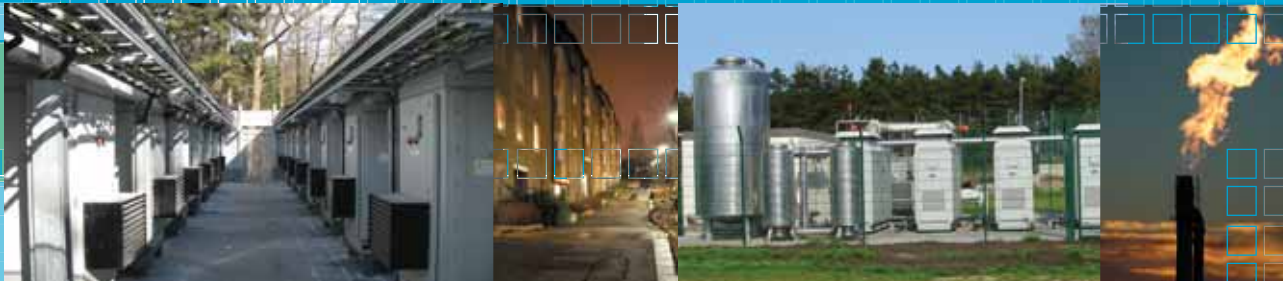


CALNETIX MICROTURBINE TA100



The Calnetix Power Solutions TA100 Microturbine is offered either in recuperated or simple cycle configuration. In the recuperated configuration, combined heat and power (CHP) may be added. The modular design of the TA100 provides flexibility for configuration in more complex applications to maximize the balance of thermal and electrical needs. Additional flexibility is provided with full parallel capabilities whether grid connected, stand alone or in multiple unit arrays. Several hundred Calnetix Microturbines are installed around the world in a broad range of applications operating on various types of fuels while accumulating nearly 2 million operating hours to date.

The industrialized turbine is capable of 100% step loading during operation at any load between 0-100%. This output power flexibility feature found only with the TA100 has made it the preferred equipment in applications requiring varying output power levels including primary power and flare gas management.

Microturbines are one of the most important technologies that can be efficiently employed to address the global problems of increasing electrical demand and greenhouse gas (GHG) emissions. Microturbines have much lower emissions than traditional technologies and can have over 70% better overall fuel efficiency. Microturbines, unlike gensets, are highly durable and capable of operating for extended periods of time at full power without shutdown maintenance.

As governments increasingly work to reduce GHG emissions, microturbines are one of the technologies that have been identified as helping achieve national targets. Currently, there is legislation encouraging the use of microturbines in cogeneration and other renewable applications to reduce these emissions. The TA100 is a durable and feature rich microturbine ready to be employed in applications that are economically and environmentally sound.



* Photo shown with outdoor kit

Main Features

Rated Power Output	
Electrical	100kW@0.8PF at 59°F/15°C, Sea Level
Thermal	172kW/587,000 BTU/hr
Noise	Outdoor <62 dBA@10m, Indoor <75 dBA@1m
Voltage Output	400/480 VAC
Amps	200 Max
Frequency	50/60 Hz
Output Circuit	4-Wire
Operating Mode	Island & Grid Connect

Standard Equipment

- Remote Interface (RS485/Modbus)
- Parallel Ready
- Battery Charger
- Digital Touch Display
- Integral Grid Protection;
- Compliant with IEEE 1547, UL1741

Options

- Integral Gas Compressor
- Integral Heat Recovery Unit
- Optional Outdoor Kit (NEMA 3R, IP 44)
- CE (GAD) Compliance
- UL2200 Listing
- Dual Mode Switching



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CALNETIX MICROTURBINE

TA100 Specifications

Performance:

Electrical Output	100 kW net
Output	105 kW net ⁽¹⁾
Maximum Block Loading	100%
Minimum Load	0kW
Efficiency ⁽¹⁾	29% (+/- 1) LHV

Fuel Consumption (ISO Rated Power)

Natural Gas:	22 SCFM/ (37 NM ³ /hr)
	@ (940 Btu/ SCF)
	362 kW (@ 1,235,000 Btu/ hr.) LHV
Heat Rate	12,355 Btu/ kWh

Thermal Output (Hot water)

	172 kW / 587,000 Btu/ hr. ⁽²⁾
Water Outlet Temp	140°F / (60°C)
Flow	60 GPM/ (3.8 L/s)
Total System Efficiency ⁽¹⁾	>75%

Total Weight with Enclosure:

Indoor:	4,100 lb./ 1,860 kg
Outdoor:	4,500 lb./ 2,040 kg

Batteries

Two 12 volt, Group 27, lead acid, maintenance free - 105Ah nominal

Fuel Type Options

- Coal Bed Methane
- Landfill Gas
- Digester Gas
- Bio-diesel
- LPG
- Diesel
- Kerosene Based

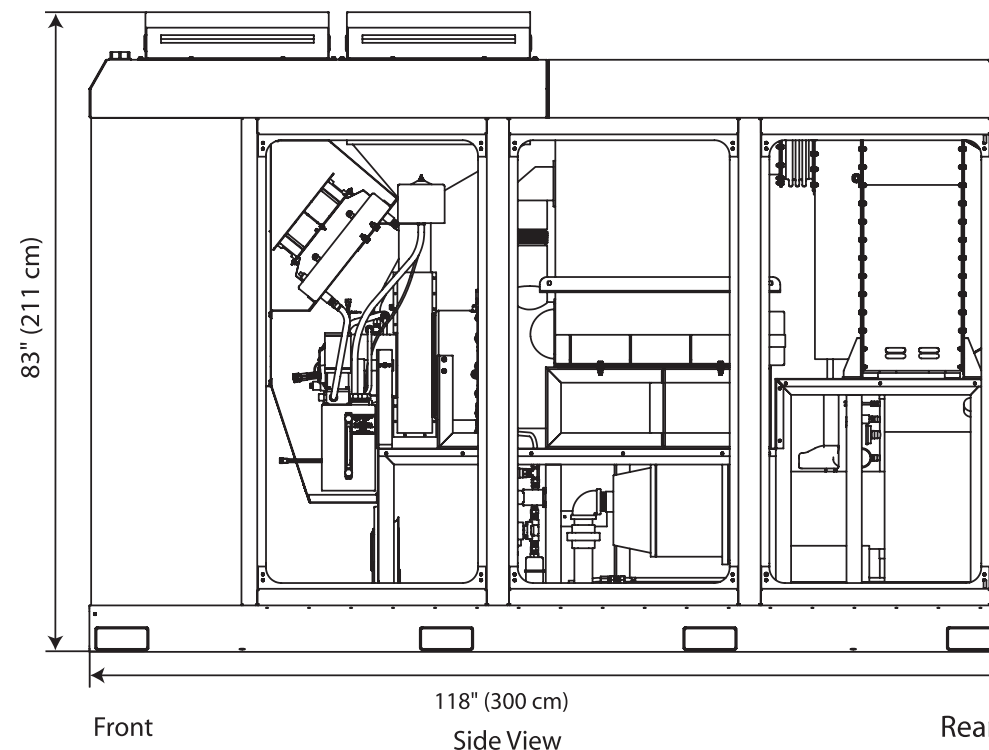
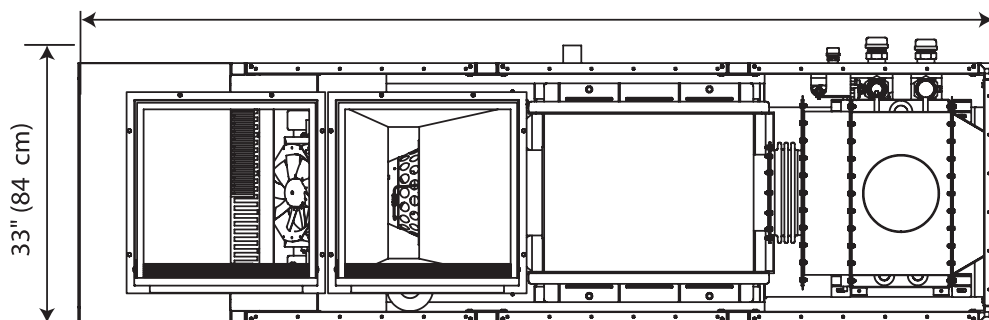
* All figures at ISO 59°F/ 15°C unless otherwise noted.

(1) - Not Including Gas Compressor

(2) - Based on 20°F/ 11°C Delta

Top Down View

118" (300 cm)



Specifications are not warranted and are subject to change without notice.

