

## AE-T100B Micro Turbine Biogas



Weight         2250/2750 kg* (P) - 2770/3100 kg* (CHP)           Fuel         Biogas           ⟨¹ indoor / outdoor layout         Microturbine           Compressor type         Centrifugal, single stage           Turbine type         Radial, single stage           Type /Number of combustion chambers         Lean premix / 1 chamber CAN type           Pressure in combustion chamber         4.5 bar(a)           Turbine Inlet Temperature (TIT)         950 °C           Number of shafts         1 (single shaft)           Nominal rotational speed         70000 RPM           Lubrication oil consumption         < 3 l/6000 EOH           Electrical data         Feetertrequirements (*) (**)*           Feed output         50 Hz (60 Hz on request)           Voltage output         400 V (AC), three phases           Fuel requirements (*) (**)*         Required pressure           Required pressure         (6÷ 8) bar(g)           Required temperature         (0 ÷ 40) °C           Lower Heating Value (LHV)         > 16 MJ/kg* = 14.5 MJ/km3*           H2Smax (hydrogen sulfide)         < 1500 ppm(v) ≈ 2280 mg/km3           Silioxanes max         < 1500 mg/km3           CH4,min         > 40 %           (*)* Wift an appropriate biogas treatment system, it's possible	Installation	Indoor / Outdoor
Fuel	Size (WxHxL)	900 x1810 x 2770mm (P) - 900 x 1810 x 3900mm (CHF
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Microturbine	Fuel	Biogas
Microturbine         Centrifugal, single stage           Turbine type         Radial, single stage           Type /Number of combustion chambers         Lean premix / 1 chamber CAN type           Pressure in combustion chamber         4.5 bar(a)           Turbine Inlet Temperature (TIT)         950 °C           Number of shafts         1 (single shaft)           Nominal rotational speed         70000 RPM           Lubrication oil consumption         < 3 l/6000 EOH		
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Fuel consumption       333 kWth ≈ 68.5 Nm3/h*         Exhaust gas flow       ≈ 0.80 kg/s         Exhaust gas temperature       270 °C         Sound Power       85,4 dB(A)         (*): depending on fuel LHV         Emissions (@ Full load and 15% O2)         NOx       < 15 ppm(v) = 32 mg /MJth(fuel)	Electrical Efficiency	(30 ±1) %
Exhaust gas flow       ≈ 0.80 kg/s         Exhaust gas temperature       270 °C         Sound Power       85,4 dB(A)         (*): depending on fuel LHV         Emissions (@ Full load and 15% O2)         NOx       < 15 ppm(v) = 32 mg /MJth(fuel)	Total cogeneration efficiency	(81 ± 1) %
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	Emissions (@ Full load and 15% O2)	
	NOx	< 15 ppm(v) = 32 mg /MJth(fuel)
$\frac{\text{CO}}{\text{< 15 ppm(v)}} = 18 \text{ mg/MJth(fuel)}$	CO	< 15  ppm(v) = 18  mg/MJth(fuel)

Biogas is today a proven and valuable energy source for the combined production of heat and electricity at attractive conditions.

One of the most efficient and reliable technologies for the combined production of heat and electricity is represented by micro turbines, that show a very flexible behaviour towards variations of biogas composition, and they also bear significant heating value variations over time.

Based on a consistent experience from several applications in various fields, such as

- landfill gas,
- anaerobic digestion biogas,
- sewage biogas.

Ansaldo Energia is able to offer custom applications adapting the AE-T100 and related fuel system to specific biogas characteristics.

The low maintenance requirements of the AE-T100B, with service intervals of 6000 equivalent operating hours, makes this power generation system extremely attractive and competitive when compared to more conventional solutions.

Each AE-T100B configuration can be delivered in specific layouts for indoor or outdoor installation. Both layouts meet current regulations limits for noise and emissions.

All AE-T100 can be remotely monitored, controlled and operated.

