

MICRO TURBINE GENERATORS · 5 – 500 kW

Thrust, converted to electrical power.

Thrust-turbine aerofoils with an added stage converting residual thrust to electricity, plus a waste-heat exchanger recovering the turbine's contained heat for process, district heating or a secondary power loop.

SPEED

100,000 rpm

TOLERANCE

±0.02 mm

RANGE

5–500 kW

MODELS

7

01 / MOBILE UNITS

Man-portable and fuel-flexible — every mobile unit stays within a two-person maximum carry load.

MOBILE

5 kW

AT-M05

Continuous	5 kW
Heat output	8 kW th
Noise	68 dB(A)
Mass	10 kg

MOBILE

10 kW

AT-M10

Continuous	10 kW
Heat output	16 kW th
Noise	71 dB(A)
Mass	18 kg

MOBILE

20 kW

AT-M20

Continuous	20 kW
Heat output	32 kW th
Noise	76 dB(A)
Mass	35 kg

MOBILE

40 kW

AT-M40

Continuous	40 kW
Heat output	62 kW th
Noise	81 dB(A)
Mass	54 kg

02 / STATIONARY UNITS

Foundation-mounted systems for campuses, industry and district heating. Optional heat-exchanger power loop.

STATIONARY

100 kW

AT-S100

Continuous	100 kW
Heat recovery	+90 kW th
Efficiency	39.2 %
Noise	84 dB(A)
Footprint	2.4 x 1.1 m

STATIONARY

250 kW

AT-S250

Continuous	250 kW
Heat recovery	+210 kW th
Efficiency	40.1 %
Noise	87 dB(A)
Footprint	3.1 x 1.4 m

STATIONARY

500 kW

AT-S500

Continuous	500 kW
Heat recovery	+420 kW th
Efficiency	41.3 %
Noise	90 dB(A)
Footprint	4.2 x 1.8 m

03 / TECHNOLOGY

STAGE A · KINETIC

Thrust-to-electric conversion

Axial thrust from the turbine disc is captured by a permanent-magnet generator stage. No gearbox — fewer moving parts, tighter tolerances, lower maintenance.

STAGE B · THERMAL

Waste-heat exchanger

Exhaust gas passes a counter-flow exchanger, lifting a secondary loop to up to 96 °C for process or district heat, or feeding a low-pressure recovery turbine.

STAGE C · DELIVERY

Grid-synchronised output

A synchronous inverter stabilises the electrical bus while the thermal bus is routed to heating or storage, monitored through a single control interface.

Request a full specification

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ISO 9001 · DIN-COMPLIANT FABRICATION