

TwinGen

The world's most compact heat and power boiler

Key Features

- Highly reliable
- No liquid lubricants
- Minimal maintenance
- Wall-hung packaging
- Coaxial air / flue piping
- Integrated Grid-Tie Inverter
- Drain free condensate system
- Maintenance-free air bearings
- Simple display and user interface
- Heat driven automatic control system
- Fast response time (similar to combi boiler)



Performance

Power output	2	kW
Heat output	11.22	kW
Overall efficiency	93	%
Seasonal efficiency	>110	%
Rotor speed	170,000	rpm

Fuel

Fuel type	Natural gas	G20
Fuel consumption (LHV)	14.2	kW

Emissions @ 100% load

NO _x (class 5)	< 100	mg/kWh
CO	< 300	ppm @270% O ₂
CO ₂ savings	2	tons/year
Noise	< 55	dB (A) 1m

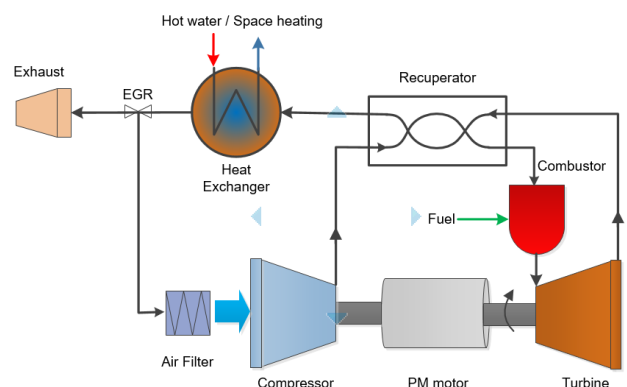
Operating Life

Service intervals	6,000	hours
Overhaul	30,000	hours
Design life	60,000	hours

Microturbine Engine Design

- Single shaft recuperated micro turbine
- Centrifugal compressor & axial turbine
- Integrated heat exchanger and burner
- Permanent magnet motor/generator
- Proven foil air bearing technology
- Exhausts gas recovery system
- Quiet and no vibrations
- Remote monitoring

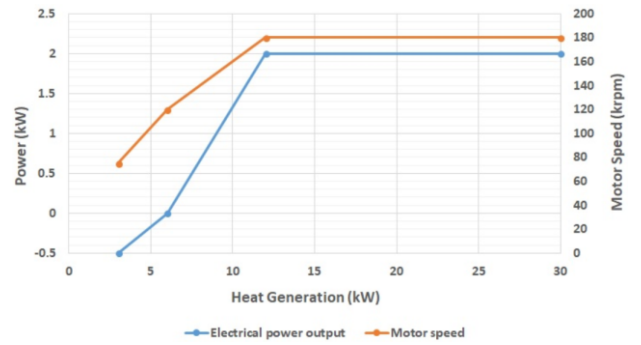
Microturbine Engine Cycle



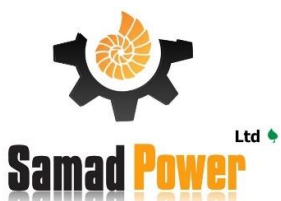
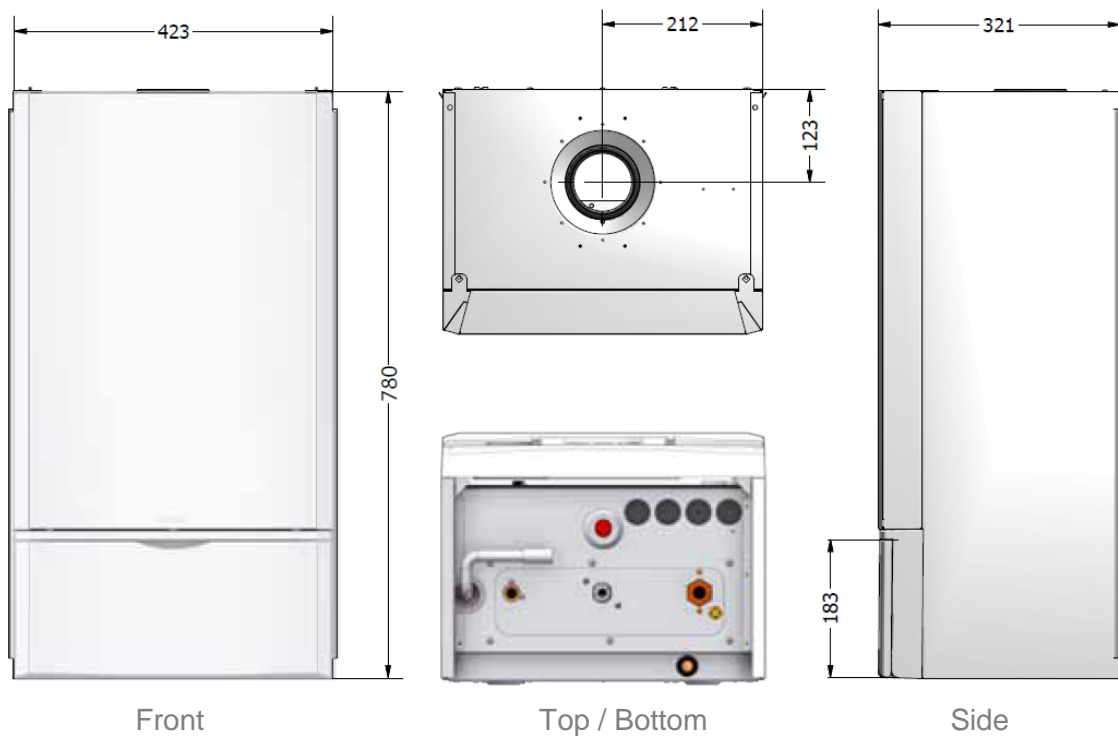
Installation

Dimensions (HxWxD)	780 x 423 x 321	mm
Weight (empty)	65 (58)	Kg
Gas connection	22 (3/4)	mm (In)
Water connection	22 (3/4)	
Grid connection	230 / 50	VAC, Hz

Heat / Power Diagram



Physical specifications



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