

# C65 Microturbine

High-pressure Natural Gas, ICHP

**Achieve ultra-low emissions and reliable electrical generation from natural gas.**



C65 ICHP Microturbine



## Electrical Performance<sup>(1)</sup>

Electrical Power Output	65kW
Voltage	400/480 VAC
Electrical Service	3-Phase, 4 Wire Wye
Frequency	50/60 Hz
Electrical Efficiency LHV	28%

## Fuel/Engine Characteristics<sup>(1)</sup>

Natural Gas HHV <sup>(2)</sup>	30.7–47.5 MJ/m <sup>3</sup> (825–1,275 BTU/scf)
Inlet Pressure	517–551 kPa gauge (75–80 psig)
Fuel Flow HHV	919 MJ/hr (871,000 BTU/hr)
Net Heat Rate LHV	12.9 MJ/kWh (12,200 BTU/kWh)

## Exhaust Characteristics<sup>(1)</sup>

NOx Emissions @ 15% O <sub>2</sub>	< 9 ppmvd (19 mg/m <sup>3</sup> )
Exhaust Mass Flow	0.49 kg/s (1.08 lbm/s)
Exhaust Gas Temperature	329°C (625°F) (Heat Recovery Bypassed)

## Benefits

- Ultra-low emissions
- One moving part – minimal maintenance and downtime
- Patented air bearings – no lubricating oil or coolant
- Integrated utility synchronization – no external switchgear
- Compact modular design allows for easy, low-cost installation
- Multiple units easily combined – act as single generating source
- Remote monitoring and diagnostic capabilities
- Proven technology with tens of millions of operating hours
- Various Factory Protection Plans available

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## Dimensions & Weight<sup>(3)</sup>

Width x Depth x Height	0.76 x 2.20 x 2.53 m (30 x 87 x 100 in)
Weight - Grid Connect Model	998 kg (2,200 lb)
Weight - Dual Mode Model	1,364 kg (3,000 lb)

## Minimum Clearance Requirements<sup>(4)</sup>

Horizontal Clearance	
Left & Right	0.76 m (30 in)
Front - Grid Connect Model	0.76 m (30 in)
Front - Dual Mode Model	1.65 m (65 in)
Rear	0.76 m (30 in)

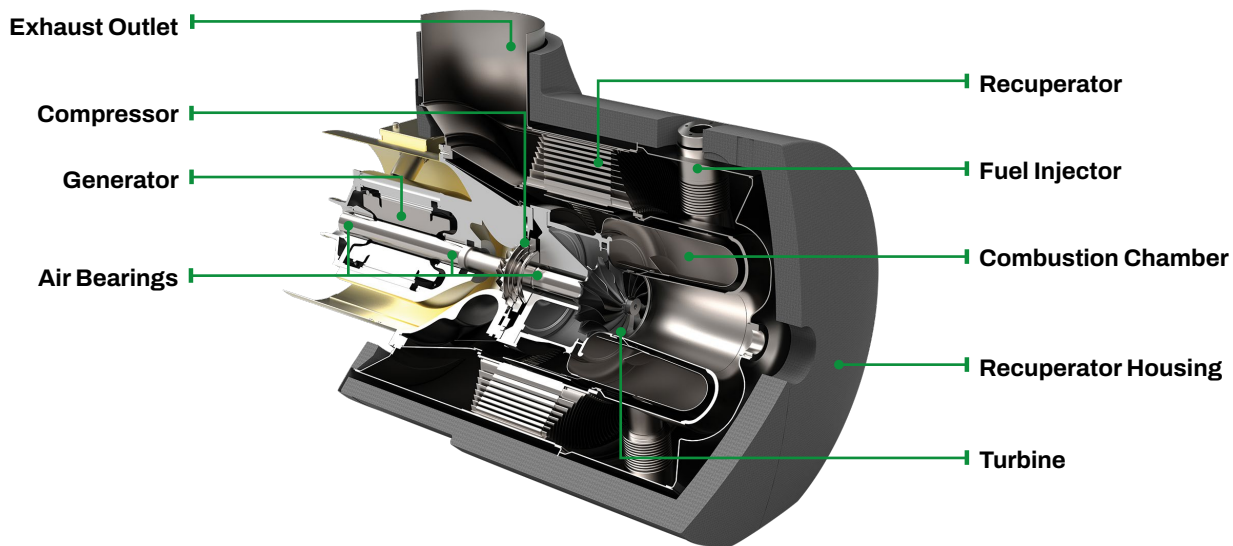
## ICHP Heat Recovery<sup>(5)</sup>

Integrated Heat Recovery Module Type	Copper Core
Hot Water Heat Recovery	132kW (0.45 MMBTU/hr)

## Acoustic Emissions

Nominal at Full Power at 10 m (33 ft)	65 dBA
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## C65 Engine Components



- (1) Nominal full power performance at ISO conditions: 15°C (59°F), 14.696 psia, 60% RH
  - (2) Suitable for use with fuel blends containing up to 30 percent hydrogen gas by volume
  - (3) Approximate dimensions and weights
  - (4) Clearance requirements may increase due to local code considerations
  - (5) Nominal heat recovery for water inlet temperature of 60°C (140°F) and flow rate of 2.5 l/s (40 GPM)
- Specifications are not warranted and are subject to change without notice.

## Certifications

- UL 2200 Listed
- CE Certified
- Certified to the following grid interconnections standards: UL 1741-SA, VDE, BDEW, CEI 0-16, AS4777
- Compliant to California Rule 21