

# C65 Microturbine

High-pressure Natural Gas, ICHP – CARB Certified

**CARB certified to achieve ultra-low emissions and reliable electrical/thermal 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	27%

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

Natural Gas HHV	35.4–42.8 MJ/m <sup>3</sup> (950–1,150 BTU/scf)
Inlet Pressure	517–551 kPa gauge (75–80 psig)
Fuel Flow HHV	953 MJ/hr (904,000 BTU/hr)
Net Heat Rate LHV	13.3 MJ/kWh (12,600 BTU/kWh)

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

Exhaust Mass Flow	0.51 kg/s (1.13 lbm/s)
Exhaust Gas Temperature	332°C (629°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>(2)</sup>

Width x Depth x Height	0.76 x 2.20 x 2.79 m (30 x 87 x 110 in)
Weight - Grid Connect Model, dry	1,089 kg (2,400 lb)
Weight - Dual Mode Model, dry	1,451 kg (3,200 lb)

## Minimum Clearance Requirements<sup>(3)</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)

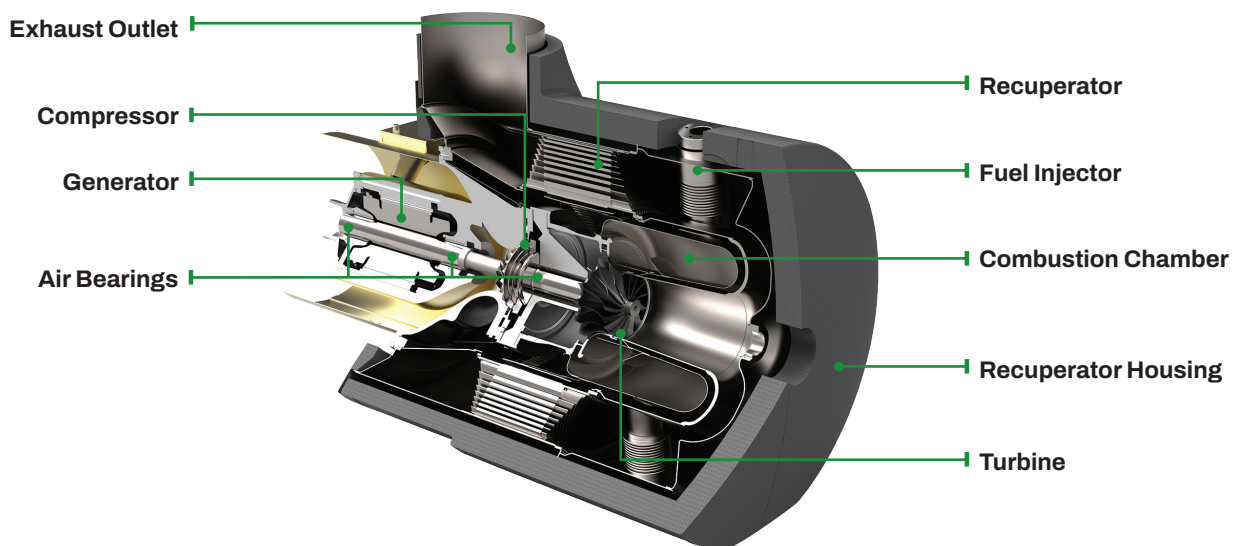
## ICHP Heat Recovery<sup>(4)</sup>

Integrated Heat Recovery Module Type	Copper Core
Hot Water Heat Recovery	129kW (0.44 MMBTU/hr)

## Acoustic Emissions

Nominal at Full Power at 10 m (33 ft) | 65 dBA

## C65 Engine Components



(1) Nominal full power performance at ISO conditions: 15°C (59°F), 14.696 psia, 60% RH

(2) Approximate dimensions and weights

(3) Clearance requirements may increase due to local code considerations

(4) 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 1741-SA and UL 2200 Listed
- Compliant to California Rule 21
- Certified to California Air Resources Board (CARB) 2007 for operation on Natural Gas