

SPECIFICATIONS



31 MW 2012 Used Mitsubishi-Hitachi H-25 Natural Gas Turbine Simple Cycle Power Plant

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Description

This 31 MW natural gas generator set offers a proven, heavy-duty power generation solution for industrial, petrochemical, and utility applications. The generator set is based on a 30-MW class, open simple-cycle, single-shaft gas turbine platform paired with a 36,334 kVA synchronous generator, delivering reliable baseload or peaking power at 60 Hz and 13.8 kV output.

The turbine features a 17-stage axial flow compressor with a pressure ratio of 15, three-stage impulse turbine with nickel-base alloy buckets and thermal barrier coatings, and 10 cannular combustors designed for low-NO_x operation (≤ 25 ppm at 15% O₂). Gross thermal efficiency is rated at 34.8% LHV under ISO conditions, with actual operational efficiency recorded at 25–30%. The exhaust temperature of 564°C makes the unit well-suited for combined heat and power or heat recovery steam generator (HRSG) integration, unlocking combined cycle efficiencies exceeding 50% LHV.

KEY FEATURES:

- 31 MW rated output on natural gas; 60 Hz / 13.8 Kv
- Dry low-NO_x combustors (≤ 25 ppm)
- Horizontally split casing for on-site maintainability
- Fast start capability: 15–20 minutes to rated load

ADVANTAGES

- Compact, flexible equipment layout suitable for industrial site integration
- Suitable for DSS (daily start/stop), peaking, baseload, and cogeneration applications
- Fuel flexibility: natural gas, LPG, light oil, and dual-fuel configurations

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Manufacturer	Mitsubishi-Hitachi
Model	H-25
Year	2012
Condition	Used
Location	Asia
Qty Available	2 Units
Category	Natural Gas Turbines
Subcategory	10 – 99 MW
Stock Number	USP010979
Wattage	31 MW
Hours	22000 hours, ea
Frequency	60 Hz
Fuel Type	Natural Gas
Voltage	13800 Volts
Balance of Plant Available? (BOP)	-

Quick Access:

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Asset Photos

