

OP16 Gas Turbine

Performance at ISO Conditions*

OP16 Gas Turbine Genset	SI IMPERIAL	SI IMPERIAL
Power Output (p.f.=1)	kWe	1883
Electrical Efficiency (p.f.=1)	%	25.0
Maximum Total Efficiency	%	>90
Availability	%	>98
Fuel Consumption	Nm ³ /h MMBtu/h	864 25.7
Heat Rate (p.f.=1)	kJ/kWh Btu/kWh	14413 13661
Exhaust Gas Flow	kg/s lb/s	9.0 19.8
Exhaust Gas Temperature	°C °F	573 1064
Pressure Ratio	-	6.7:1
Required Inlet Gas Pressure**	barg psig	11-16 159-232
Generator Voltage	kV	0.4 - 13.8
Frequency	Hz	50/60
Time Between Major Overhaul	Hours	42,500

* Data based on natural gas fuel (LHV:38 MJ/kg). Multiple fuels possible. ** The minimum inlet gas pressure depends on the fuel composition and operating conditions



Fuel Flexibility

The OP16 is suitable for a large range of fuels including the following:

High Calorific Gases

- > Natural gas
- > Flare gas/Wellhead gas
- > Propane
- > LPG (Liquefied petroleum gas)
- > Contaminated gas

Low & Ultra-Low Calorific Gases

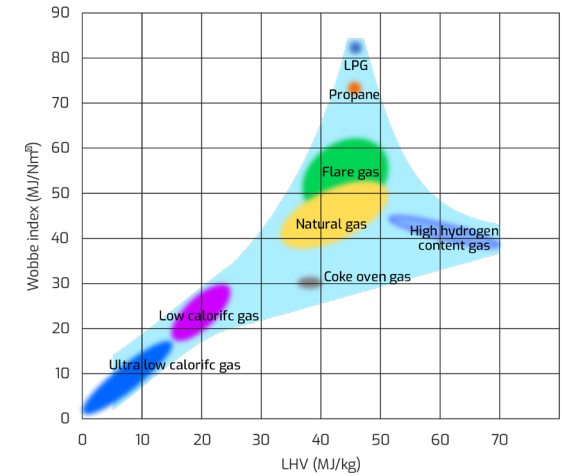
- > Syngas
- > Biogas
- > VOC (Volatile organic compounds)
- > Industrial waste gas

Liquid Fuels

- > Diesel
- > Pyrolysis Oil
- > Ethanol
- > Condensate



Fuel Specification



OPRA uses different well proven combustors to optimize specific fuels :

- > OP16-3A: Conventional combustor
- > OP16-3B: Dry low NOx combustor
- > OP16-3C: Low calorific fuel combustor

Performance Curves

