

GAS SYSTEM

SERIES 400 NATURAL GAS

480V / 60 Hz*



SYSTEM RATINGS

Natural gas genset without heat extraction

MTU Onsite Energy Type	Former Genset Type	Output			Energy input ⁵⁾	Efficiency		Methane number ⁶⁾	Dimensions (L x W x H) mm
		Elec. ¹⁾	Therm. ²⁾	Low Temp. ⁴⁾		Electr.	Total		
		kW _{el.}	kW _{th.}	kW _{th.} (°C)		η _{el.} (%)	η _{tot.} (%)		
GB 358 N6	AoE 3042 Z6	358	(257)	---	981	36.5	(62.7)	≥ 70	3940 x 1690 x 2130

Natural gas genset with heat extraction from jacket water

MTU Onsite Energy Type	Former Genset Type	Output			Energy input ⁵⁾	Efficiency		Methane number ⁶⁾	Dimensions (L x W x H) mm
		Elec. ¹⁾	Therm. ²⁾	Low Temp. ⁴⁾		Electr.	Total		
		kW _{el.}	kW _{th.}	kW _{th.} (°C)		η _{el.} (%)	η _{tot.} (%)		
GR 358 N6	AE 3042 Z6	358	257	---	981	36.5	62.7	≥ 70	3940 x 1690 x 2130

Natural gas genset with heat extraction from jacket water and exhaust gas (Cogeneration Module 90°/70°C)

MTU Onsite Energy Type	Former CHP Type	Output			Energy input ⁵⁾	Efficiency		Methane number ⁶⁾	Dimensions (L x W x H) mm
		Elec. ¹⁾	Therm. ³⁾	Low Temp. ⁴⁾		Electr.	Total		
		kW _{el.}	kW _{th.}	kW _{th.} (°C)		η _{el.} (%)	η _{tot.} (%)		
GC 128 N6**	ME3066D3**	128	214	---	376	34.0	91.0	≥ 70	3650 x 960 x 1875
GC 248 N6**	ME3042D3**	248	423	---	731	33.9	91.8	≥ 70	3680 x 1830 x 2220
GC 358 N6	ME3042Z6	358	525	---	981	36.5	90.0	≥ 70	3700 x 1810 x 2270

* NOx < 500 mg/m_n³

** λ = 1 with 3-Way-Catalyst, NOx < 250 mg/m_n³

1) Rated power at nominal voltage, power factor = 1 and nominal frequency

2) from jacket water, tolerance 8%

3) from jacket water and exhaust gas, tolerance 8%

4) data only provided for external gas mixture cooler

5) performance data in accordance with ISO 3046/1-1991, tolerance 5%

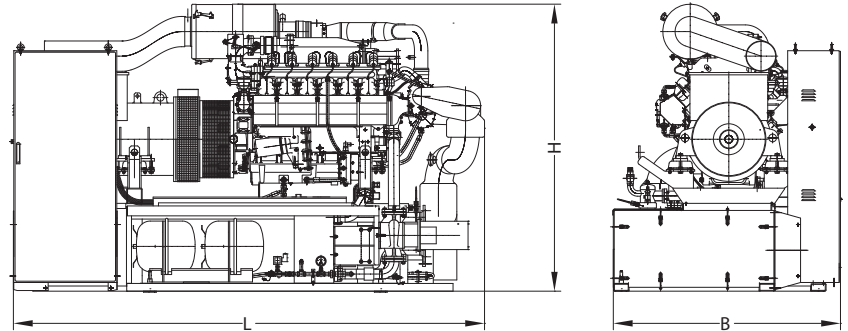
6) referenced methane number

All data according to full load, indicated gas mixture cooler water inlet temperature and are subject to technical development.

Project specific data on request:

- Other gas types
- Individual data (e.g. flow-/return-temperatures, hot cooling, methane number, assembly space, etc.)
- Container
- Gas Processing

DRAWINGS AND DIMENSIONS



Note: This drawing is provided for reference only and should not be used for planning installation.

ENGINE DATA

3066

Configuration	in-line
No. of cylinders	6
Bore/Stroke	130/155 mm (5.12/6.10 in)
Cyl. displacement	2.06 lit. (126 cu in)
Rated speed	1800 rpm

3042

Configuration	90°V
No. of cylinders	12
Bore/Stroke	130/142 mm (5.12/5.59 in)
Cyl. displacement	1.88 lit. (115 cu in)
Rated speed	1800 rpm

DESIGN AND EQUIPMENT (EXTRACT)

- // Sliding gear starter 24V
- // Flexible coupling, interconnecting bell housing, service opening so that replacement of the rubber element can be achieved without displacing engine or generator
- // Gas supply through venturi air-gas mixer with electronically controlled gas metering valve
- // Components of the gas regulation line approved per Directive for Gas Components 90/356/EWG
- // Electronic high-voltage capacitor ignition system with one ignition coil per cylinder
- // Electronic speed governor for speed and power output control with automatic knocking control
- // Oil sump, removable without lifting the engine

Version: 28.09.2012, materials and specifications are subject to change without notice due to technical advances.