

GAS SYSTEM SERIES 400 BIOGAS

480 V / 600 V / 60 Hz*



SYSTEM RATINGS

Biogas / Sewage gas / Landfill gas genset without heat extraction

MTU Onsite Energy Type	Former Genset Type	Output			Energy input ⁵⁾ kW	Efficiency		Methane Content (Vol. %)	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 200 B6	AoB 3066 Z8	200	(150)	13 (50)	559	35.8	(62.6)	45-65	3370 x 1748 x 2100
GB 350 B6	AoB 3042 Z7	350	(239)	---	951	36.8	(61.9)	45-65	3940 x 1690 x 2130

Biogas / Sewage gas / Landfill gas genset with heat extraction from jacket water

MTU Onsite Energy Type	Former Genset Type	Output			Energy input ⁵⁾ kW	Efficiency		Methane Content (Vol. %)	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 200 B6	AB 3066 Z8	200	150	13 (50)	559	35.8	62.6	45-65	3470 x 1748 x 2100
GR 350 B6	AB 3042 Z7	350	239	---	951	36.8	61.9	45-65	3940 x 1690 x 2130

Biogas / Sewage 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⁾ kW	Efficiency		Methane Content (Vol. %)	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 175 B6	MB 3066 L8	175	233	---	491	35.6	83.1	45-65	3680 x 1870 x 2140
GC 200 B6	MB 3066 Z8	200	296	13 (50)	559	35.8	88.7	45-65	3680 x 1870 x 2140
GC 350 B6	MB 3042 Z7	350	465	---	951	36.8	85.7	45-65	3820 x 1840 x 2260

* NO_x < 500 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

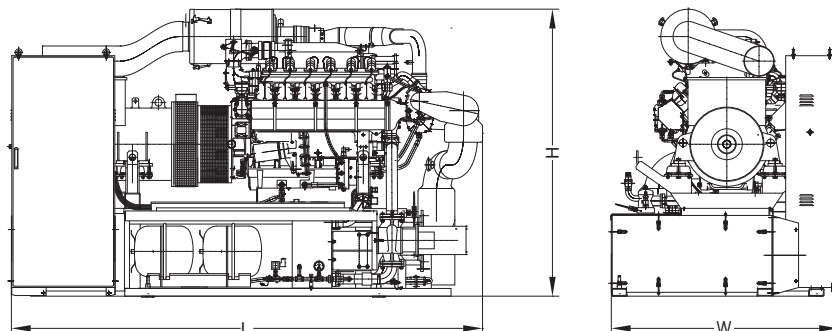
5) performance data in accordance with ISO 3046/I-1991, tolerance 5%

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.