

# 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 <sup>5)</sup> kBTU/hr	Efficiency		Methane Content	Dimensions (L x W x H) in
		Elec. <sup>1)</sup>	Therm. <sup>2)</sup>	Low Temp. <sup>4)</sup>		Electr.	Total		
		kW <sub>el.</sub>	kBTU/hr	kBTU/hr (°F)		η <sub>el.</sub> (%)	η <sub>tot.</sub> (%)		
GB 200 B6	AoB 3066 Z8	200	(512)	44 (122)	1909	35.8	(62.6)	45-65	133 x 69 x 83
GB 350 B6	AoB 3042 Z7	350	(816)	---	3248	36.8	(61.9)	45-65	155 x 67 x 84

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

MTU Onsite Energy Type	Former Genset Type	Output			Energy input <sup>5)</sup> kBTU/hr	Efficiency		Methane Content	Dimensions (L x W x H) in
		Elec. <sup>1)</sup>	Therm. <sup>2)</sup>	Low Temp. <sup>4)</sup>		Electr.	Total		
		kW <sub>el.</sub>	kBTU/hr	kBTU/hr (°F)		η <sub>el.</sub> (%)	η <sub>tot.</sub> (%)		
GR 200 B6	AB 3066 Z8	200	512	44 (122)	1909	35.8	62.6	45-65	137 x 69 x 83
GR 350 B6	AB 3042 Z7	350	816	---	3248	36.8	61.9	45-65	155 x 67 x 84

### Biogas / Sewage gas genset with heat extraction from jacket water and exhaust gas (Cogeneration Module 194°/158°F)

MTU Onsite Energy Type	Former CHP Type	Output			Energy input <sup>5)</sup> kBTU/hr	Efficiency		Methane Content	Dimensions (L x W x H) in
		Elec. <sup>1)</sup>	Therm. <sup>3)</sup>	Low Temp. <sup>4)</sup>		Electr.	Total		
		kW <sub>el.</sub>	kBTU/hr	kBTU/hr (°F)		η <sub>el.</sub> (%)	η <sub>tot.</sub> (%)		
GC 175 B6**	MB 3066 L8	175	795	---	1676	35.6	83.1	45-65	145 x 74 x 84
GC 200 B6	MB 3066 Z8	200	1011	44 (122)	1909	35.8	88.7	45-65	145 x 74 x 84
GC 350 B6	MB 3042 Z7	350	1588	---	3248	36.8	85.7	45-65	150 x 72 x 89

\* NOx < 1 g/bhp-hr

\*\* NOx < 2 g/bhp-hr

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

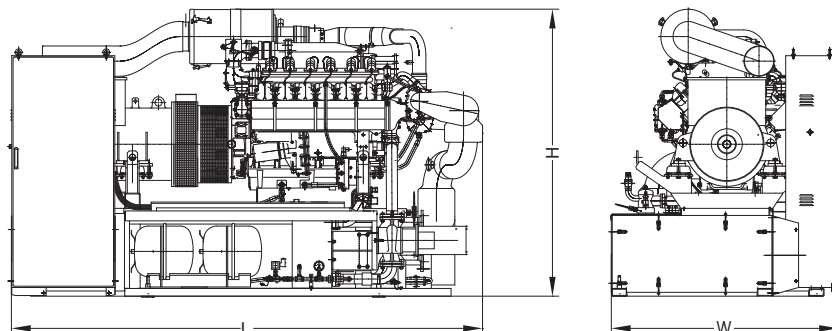
5) performance data in accordance with ISO 3046/I-1991, tolerance 5%

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.