

GAS SYSTEM SERIES 400 BIOGAS

400 V / 50 Hz*



SYSTEM RATINGS

Biogas / Sewage gas / Landfill gas genset with heat extraction from jacket water (optional Typ GB 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.} (%)		
GR 182 B5	AB 3066 L3	182	138	---	491	37.1	65.2	45-65	3480x1600x2060
GR 192 B5	AB 3066 L4	192	118	29 (50)	499	38,5	62.1	45-65	3480x1600x2060
GR 205 B5	AB 3066 Z8	205	117	15 (40)	524	39.1	61.5	45-65	3370x1748x2100
GR 350 B5	AB 3042 L3	350	267	---	945	37.0	65.3	45-65	3960x1670x2060
GR 370 B5	AB 3042 L5	370	241	69 (50)	955	38.7	64.0	45-65	3960x1670x2060
GR 400 B5	AB 3042 Z7	400	245	29 (40)	1015	39.4	63.5	45-65	3940x1690x2250

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 182 B5	MB 3066 L3	182	248	---	491	37.1	87.6	45-65	3520x1800x2060
GC 192 B5	MB 3066 L4	192	215	29 (50)	499	38.5	81.6	45-65	3700x1850x2100
GC 205 B5	MB 3066 Z8	205	221	15 (40)	524	39.1	81.3	45-65	3880x1870x2140
GC 350 B5	MB 3042 L3	350	475	---	945	37.0	87.3	45-65	3700x1900x2270
GC 370 B5	MB 3042 L5	370	426	69 (50)	955	38.7	83.4	45-65	3700x1810x2270
GC 400 B5	MB 3042 Z7	400	455	29 (40)	1015	39.4	84.2	45-65	3850x1870x2250

* NO_x < 500 mg/m_n³

1) cos φ = 1,0

2) from jacket water, tolerance 8%

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

4) data only provided for external gas mixture cooler

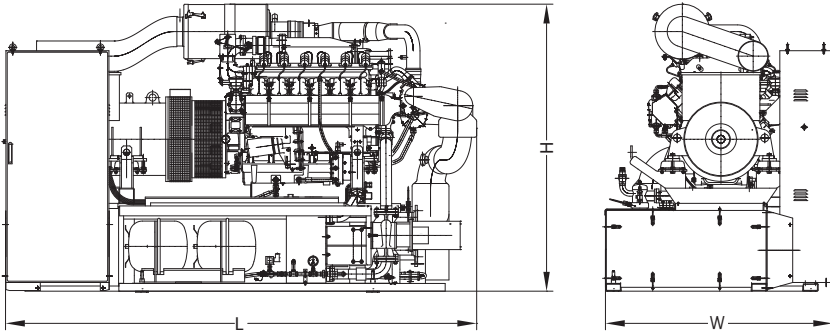
5) performance data in accordance with ISO 3046/I, tolerance 5%

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

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
Cyl. displacement	12.34 lit.

3042

Configuration	90°V
No. of cylinders	12
Bore/Stroke	130/142 mm
Cyl. displacement	22.62 lit.

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: 01.01.2013, materials and specifications subject to change without notice due to technical advances.