



Gas system

SERIES 4000 BIOGAS

400V/50 Hz/NO_x < 500 mg/Nm³

System ratings

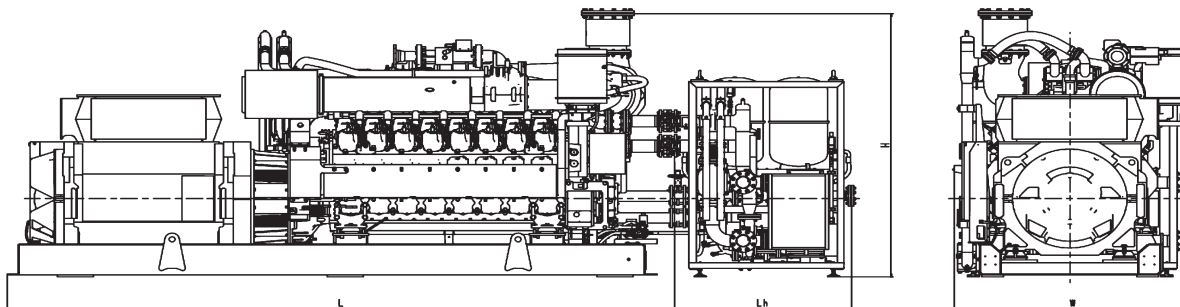
Gas genset with optional heat recovery

Genset type	Engine type	Output				Energy input ⁴⁾	Efficiency		Methane number ⁵⁾
		Elect. ¹⁾	Therm. ²⁾	Exhaust ³⁾	Low Temp.		Electr.	Total	
		kW _{el.}	kW _{th.}	kW _{th} (°C)	kW _{th} (°C)	kW	n _{el.} (%)	n _{tot.} (%)	
mtu 8V4000 GS	L32	800	392	402 (120)	78 (40)	1861	43.0	85.7	≥ 120
mtu 8V4000 GS	L64FB	1012	624	482 (120)	42 (64)	2348	43.1	92.0	≥ 130
mtu 12V4000 GS	L32	1169	572	603 (120)	103 (40)	2719	43.0	86.2	≥ 120
mtu 12V4000 GS	L64FB	1521	882	703 (120)	70 (64)	3446	44.1	90.1	≥ 130
mtu 16V4000 GS	L32	1560	628	800 (120)	318 (40)	3616	43.1	82.6	≥ 120
mtu 20V4000 GS	L32	1950	736	1048 (120)	394 (40)	4502	43.3	82.9	≥ 120
mtu 16V4000 GS	L64FB	2032	1221	974 (120)	78 (64)	4675	43.5	92.1	≥ 130
mtu 20V4000 GS	L64FB	2547	1538	1243 (120)	128 (64)	5913	43.1	90.1	≥ 130

- 1 Rated power at nominal voltage, power factor = 1,0 and nominal frequency
- 2 Heat output from engine cooling with tolerance of ± 8%
- 3 Heat output from exhaust (exhaust cooling to 120°C) with tolerance of ± 8%
- 4 Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%
- 5 Referenced methane number

- Project specific data on request:
- different alternator voltage
 - different flow-/return-temperatures, hot cooling, methane number, installation conditions etc.
 - Container

Drawings and dimensions



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

Genset type	Dimensions genset (LxWxH)	Heat recovery module (LhxWxH)
mtu 8V4000 GS	4200 x 2000 x 2400 mm	1500 x 1900 x 2000 mm
mtu 12V4000 GS	5000 x 2000 x 2400 mm	1500 x 1900 x 2000 mm
mtu 16V4000 GS	5500 x 2000 x 2600 mm	1500 x 1900 x 2000 mm
mtu 20V4000 GS	6600 x 2000 x 2600 mm	1500 x 1900 x 2000 mm

Engine data

4000	
Configuration	90° V
No. of cylinders	8/12/16/20
Bore/stroke	170/210 mm
Cyl. displacement	4,77 lit.

Design and equipment (extract)

- Sliding gear starter 24V
- Gas supply with electronically controlled gas metering valve
- 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

Any specifications, descriptions, values, data or other information related to dimensions, power or other technical performance criteria of the goods as provided in this general product information are to be understood as non-binding and may be subject to further changes such as but not limited to technical evolution at any time.