GAS SYSTEM
SERIES 400 NATURAL GAS

400V / 50 Hz*

SYSTEM RATINGS

Natural gas genset without heat extraction

MTU Onsite Energy Type	Former Genset Type	Output Elec.[1] $kW_{el.}$	Output Therm.[2] $kW_{th.}$	Output Low Temp.[4] $kW_{th.}$ (°C)	Energy input[5] kW	Efficiency Electr. $n_{el.}$ (%)	Efficiency Total n_{tot} (%)	Methane Content[6]	Dimensions (L x W x H) mm
GB 232 N5**	AoE 3042 D3**	232	*(210)*	- - -	643	36,1	*(68.7)*	≥ 80	3800x1650x2150
GB 386 N5	AoE 3042 L3	386	*(231)*	80 (40)	1061	36,4	*(58.2)*	≥ 70	3960x1670x2060
GB 390 N5	AoE 3042 Z6	390	*(233)*	28 (40)	995	39,2	*(62.6)*	≥ 70	3940x1660x2150
GB 420 N5	AoE 3042 Z6	420	*(247)*	31 (40)	1064	39,5	*(62.7)*	≥ 80	3940x1660x2150

* NOx < 500 mg/m_n^3

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

1) cos φ = 1,0 in accordance with VDE 0530 REM

2) from jacekt 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%

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

GAS SYSTEM
SERIES 400 NATURAL GAS

400V / 50 Hz*

SYSTEM RATINGS

Natural gas genset with heat extraction from jacket water

MTU Onsite Energy Type	Former Genset Type	Output Elec.[1]	Output Therm.[2]	Output Low Temp.[4]	Energy input[5]	Efficiency Electr.	Efficiency Total	Methane Content[6]	Dimensions (L x W x H)
		$kW_{el.}$	$kW_{th.}$	$kW_{th.}$ (°C)	kW	$n_{el.}$ (%)	n_{tot} (%)		mm
GR 182 N5	AE 3066 L3	182	142	---	520	35.0	62.3	≥ 70	3480x1600x2060
GR 232 N5**	AE 3042 D3**	232	213	---	655	35.4	67.9	≥ 70	3800x1600x2060
GR 357 N5	AE 3042 L3	357	288	---	987	36.2	65.3	≥ 70	3960x1670x2060
GR 385 N5	AE 3042 L3	385	231	80 (40)	1061	36.3	58.1	≥ 70	3960x1670x2060

* NOx < 500 mg/m_n^3
** λ =1 with 3-Way-Catalyst, NOx < 250 mg/m_n^3
1) cos φ = 1,0 in accordance with VDE 0530 REM
2) from jacekt 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%
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

GAS SYSTEM
SERIES 400 NATURAL GAS

400V / 50 Hz*

SYSTEM RATINGS

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 Elec.[1] $kW_{el.}$	Output Therm.[3] $kW_{th.}$	Output Low Temp.[4] $kW_{th.}$ (°C)	Energy input[5] kW	Efficiency Electr. $n_{el.}$ (%)	Efficiency Total n_{tot} (%)	Methane Content[6]	Dimensions (L x W x H) mm
GC 119 N5**	ME 3066 D3**	119	198	---	345	34.5	91.9	≥ 70	3650x960x1875
GC 182 N5	ME 3066 L3	182	279	---	520	35.0	88.7	≥ 70	3520x1800x2060
GC 201 N5	ME 3066 L3	201	275	38 (40)	576	34.9	82.6	≥ 70	3520x1800x2060
GC 220 N5	ME 3066 Z5	220	262	17 (40)	564	39.0	85.5	≥ 70	3880x1870x2140
GC 232 N5**	ME 3042 D3**	232	369	---	655	35.4	91.8	≥ 70	3550x1810x2220
GC 357 N5	ME 3042 L3	357	529	---	987	36.2	89.8	≥ 70	3700x1810x2270
GC 386 N5	ME 3042 Z3	386	541	28 (40)	1061	36.4	87.4	≥ 70	3700x1810x2270
GC 390 N5	ME 3042 Z6	390	474	28 (40)	995	39.2	86.8	≥ 70	3850x1870x2250
GC 420 N5	ME 3042 Z6	420	504	31 (40)	1064	39.5	86.8	≥ 80	3850x1870x2250

Natural gas genset with heat extraction from jacket water and exhaust gas (Cogeneration Module 100°/80°C)

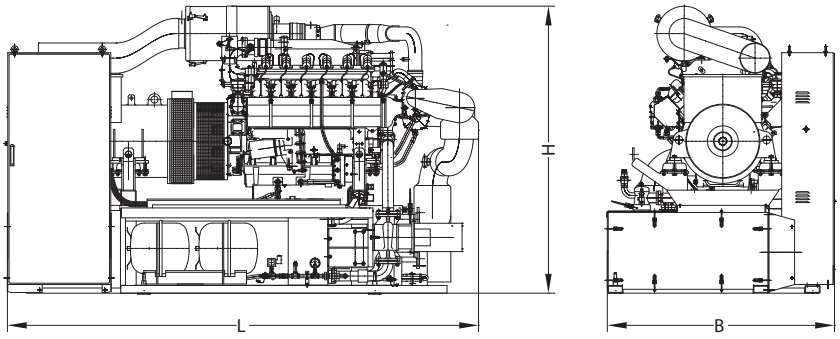
MTU Onsite Energy Type	Former CHP Type	Output Elec.[1] $kW_{el.}$	Output Therm.[3] $kW_{th.}$	Output Low Temp.[4] $kW_{th.}$ (°C)	Energy input[5] kW	Efficiency Electr. $n_{el.}$ (%)	Efficiency Total n_{tot} (%)	Methane Content[6]	Dimensions (L x W x H) mm
GC 116 N5**	ME 3066 DH3**	116	191	---	337	34.4	91.1	≥ 70	3650x960x1875
GC 165 N5	ME 3066 LH3	165	256	---	479	34.4	87.9	≥ 70	3750x1800x2060
GC 227 N5**	ME 3042 DH3**	227	341	---	628	36.1	90.4	≥ 80	3950x1810x2220
GC 323 N5	ME 3042 LH3	323	485	---	907	35.6	89.1	≥ 70	3950x1810x2270
GC 352 N5	ME 3042 LH3	352	464	63 (50)	982	35.8	83.1	≥ 70	3950x1810x2270

* NOx < 500 mg/m_n^3
** λ =1 with 3-Way-Catalyst, NOx < 250 mg/m_n^3
1) cos φ = 1,0 in accordance with VDE 0530 REM
2) from jacekt 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%
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
- Container
- Individual data (e.g. flow-/return-temperatures, hot cooling, methane number, assembly space, etc.)
- 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
Cyl. displacement	2.06 lit.

3042	
Configuration	90°V
No. of cylinders	12
Bore/Stroke	130/142 mm
Cyl. displacement	1.88 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 o 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

Subject to change. | 3232571 | Edition 01/14 | ENC 2014-01 | Printed in Germany on chlorine-free bleached papaer.

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