



**NATURAL GAS COGENERATING UNIT
 WITH SPARK IGNITION ENGINE**

**MARTIN POWER
 MTU**

Cogenerating unit model

| |
|--|
| Electric power @ cos phi 0.8 |
| Electric power @ cos phi 1.0 |
| Energy input in fuel ³⁾ |
| Gas consumption (min/max) @ 9,6 kWh/m ³ |
| Thermal power from engine cooling |
| HT-stage intercooler thermal power |
| Lube oil cooling thermal power |
| LT-stage intercooler thermal power ¹⁾ |
| Thermal power from exhaust |
| Thermal power on the output ²⁾ |
| Electric power efficiency |
| Thermal power efficiency |
| Total efficiency |
| Current |
| Control panel current |
| Speed |

MP 1500 M - CU

| |
|----------------------------|
| 1469 kVA / 1175 kW |
| 1199 kW |
| 2795 kW |
| 153/291 m ³ /h |
| 616 kW |
| included in engine cooling |
| included in engine cooling |
| 82 kW |
| 636 kW |
| 1334 kW |
| 42,9% |
| 47,7% |
| 90,6% |
| 2102 A |
| 2500 A |
| 1500 min ⁻¹ |

Engine model

| |
|--|
| Nominal power |
| Intake |
| Speed governor |
| Cylinders |
| Bore |
| Stroke |
| Displacement |
| Compression ratio |
| Ignition sequence |
| Ignition timing |
| Lambda |
| Intake air temperature |
| Combustion air temperature (min/max) |
| Air mass flow |
| Exhaust gas flow |
| Max. back pressure at exhaust |
| Max. exhaust temperature (@ rated power) |
| Radiated heat |
| Specific gas consumption |
| Gas consumption (CH ₄) @ 100% load |
| Gas consumption (CH ₄) @ 75% load |
| Gas consumption (CH ₄) @ 50% load |
| Engine oil volume |
| Engine oil consumption |
| Coolant volume (CHP) |
| Coolant pressure (max) |
| Minimal coolant flow through engine |
| Coolant temperature - engine (in/out) |
| Coolant temperature - CHP (in/out) |
| Heating water temperature (in/out) |
| Heating water flow rate |
| LT stage intercooler temperature (in/out) |
| LT stage intercooler coolant flow |
| Battery voltage |
| Starter |
| Battery |

12V 4000 L33

| |
|-------------------------------|
| 1236 kW |
| turbocharged with intercooler |
| electronic |
| 12V |
| 170 mm |
| 210 mm |
| 57,2 dm ³ |
| 12,8:1 |
| 1-12-2-11-3-10-6-7-5-8-4-9 |
| fixed |
| lean burn |
| 25 °C |
| 20/30 °C |
| 5896 kg/h |
| 6097 kg/h |
| 6 kPa |
| 452 °C |
| 65 kW |
| 174 g/kWh |
| 207 kg/h |
| 157 kg/h |
| 109 kg/h |
| 220 l |
| 0,41 l/h |
| 220 l (engine only) |
| 6 bar |
| 51 m ³ /h |
| 78/90 °C |
| 78/104 °C |
| 70/90 °C |
| 66 m ³ /h |
| 40/43 °C |
| 24 m ³ /h |
| 24 V |
| 9 kW |
| 4 x 170 Ah |

NATURAL GAS COGENERATING UNIT WITH SPARK IGNITION ENGINE

MARTIN POWER MTU

Cogenerating unit model

Generator manufacturer

Generator model

Nominal power

F class power

Protection

Voltage regulation

Voltage precision

Emissions ⁴⁾

NO_x

CO

HCHO

Open genset

Length

Width

Height

Weight

Open CHP version

Length

Width

Height

Weight

Canopied CHP version

Length

Width

Height

Weight

Container CHP version

Length

Width

Height

Weight

Installation - connections

Gas inlet

Heating HT circuit

Heating LT circuit (optional)

Exhaust (pipe up to 6 m)

MP 1500 M - CU

STAMFORD

PI 734 E

1900 kVA

1770 kVA

IP 23

electronic

1,5 %

@ 5% O₂

500 mg/Nm³

300 mg/Nm³ (with OxiCat)

60 mg/Nm³

5000 mm

2000 mm

2400 mm

11250 kg

6500 mm

2000 mm

2400 mm

12500 kg

12000 mm

3100 mm

3100 mm

40'

12192 mm

3100 mm

3100 mm

DN 80 / PN 16

DN 100 / PN 16

DN 50 / PN 16

DN 350 / PN 6

1) The thermal power is available if the cooling water temperature input is below 35°C

2) Theoretical usable thermal power; tolerance +/- 8 %

3) According to ISO 3046 (+ 5 % tolerance), using reference fuel used at 400 V, p.f. 1.0, 50 Hz

4) Emission values during grid parallel operation