



**Энерго-Моторы**  
Энергетическая компания

**Jenbacher gas engines**  
Technical Specification

**Представитель GE Jenbacher в России**

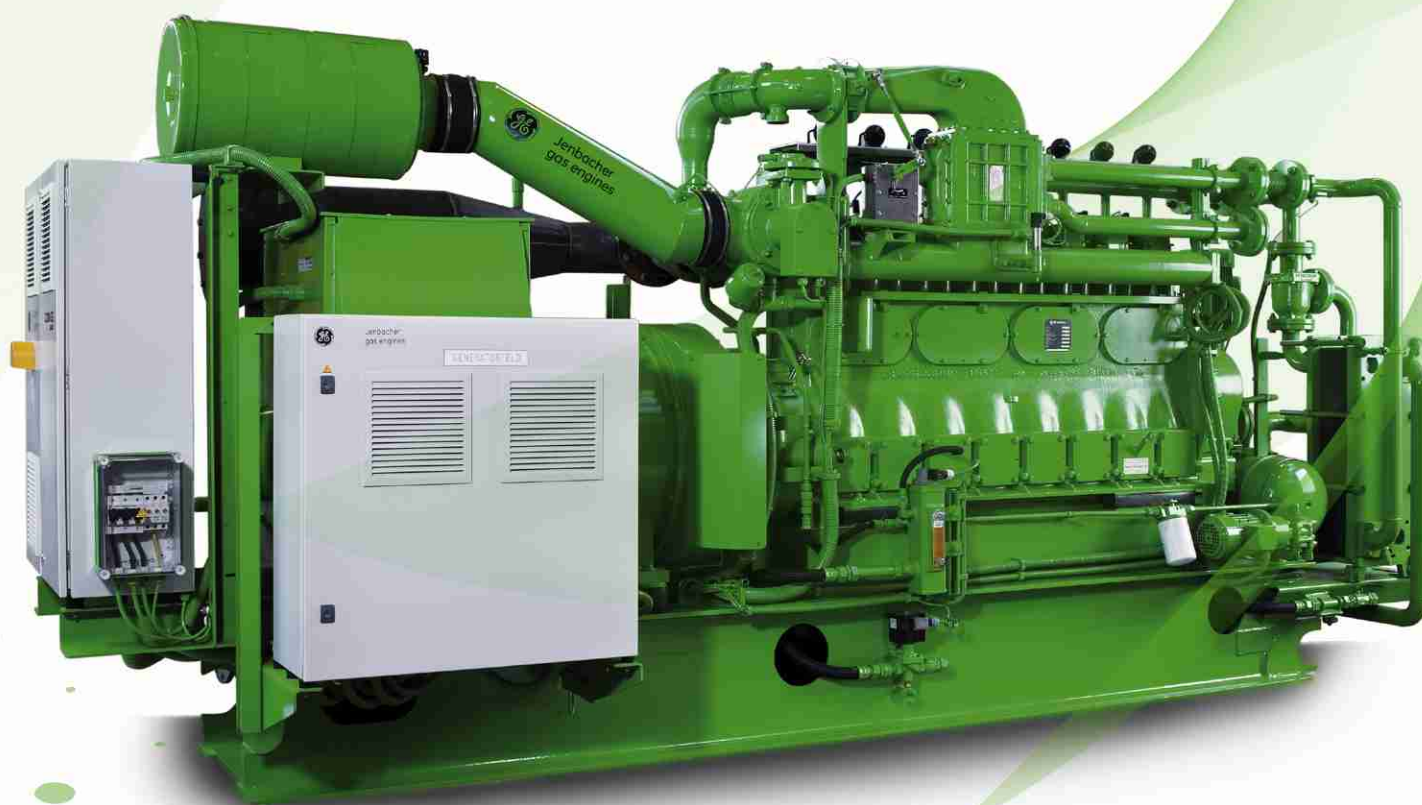
+7 (343) 200-01-74

+7 (343) 286-42-76

8-800-700-54-47 бесплатно по России

[sales@energo-motors.com](mailto:sales@energo-motors.com)

[www.energo-motors.com](http://www.energo-motors.com)



**JMS 208 GS-N.L**

Natural gas 330kW el.



**Энерго-Моторы**  
Энергетическая компания

## Jenbacher gas engines Technical Specification

### JMS 208 GS-N.L

Natural gas 330kW el.

#### CO-GEN Module data:

Electrical output	kW el.	330
Recoverable thermal output (120 °C)	kW	358
Energy input	kW	852
Fuel Consumption based on a LHV of 9,5 kWh/Nm <sup>3</sup>	Nm <sup>3</sup> /h	90
Electrical efficiency	%	38,7%
Thermal efficiency	%	42,0%
Total efficiency	%	80,7%
Heat to be dissipated (LT-Circuit)	kW	62
Emission values:		
NOx < 500 mg/Nm <sup>3</sup> (5% O <sub>2</sub> )		

#### Engine data:

Engine type		J 208 GS-C05
Configuration		In - Line
No. of cylinders		8
Bore	mm	135
Stroke	mm	145
Piston displacement	lit	16,60
Nominal speed	rpm	1.500
Mean piston speed	m/s	7,25
Mean effe. press. at stand. power and nom. sp	bar	16,50
Compression ratio	Epsilon	12,0
ISO standard fuel stop power ICFN	kW	342
Spec. fuel consumption of engine	kWh/kWh	2,49
Specific lube oil consumption	g/kWh	0,30
Weight dry	kg	1.800
Filling capacity lube oil	lit	133
Based on methane number	MZ	70

#### Additional information:

Sound pressure level (engine, average value 1m)	dB(A)	92
Sound pressure level exhaust gas (1m, 30° off engine)	dB(A)	108
Exhaust gas mass flow rate, wet	kg/h	1.845
Exhaust gas volume, wet	Nm <sup>3</sup> /h	1.459
Max.admissible exhaust back pressure after engine	mbar	60
Exhaust gas temperature at full load	°C [8]	478
Combustion air mass flow rate	kg/h	1.784
Combustion air volume	Nm <sup>3</sup> /h	1.380
Max. inlet cooling water temp. (intercooler)	°C	40
Max. pressure drop in front of intake-air filter	mbar	10
Return temperature	°C	70
Forward temperature	°C	90
Hot water flow rate	m <sup>3</sup> /h	15,4

#### Alternator:

Manufacturer		STAMFORD
Type		HCI 534 E2
Type rating	kVA	600
Efficiency at p.f. = 1,0	%	96,5%
Efficiency at p.f. = 0,8	%	95,5%
Ratings at p.f. = 1,0	kW	330
Ratings at p.f. = 0,8	kW	327
Frequency	Hz	50
Voltage	V	400
Protection Class		IP 23
Insulation class		H
Speed	rpm	1.500
Mass	kg	1.535

#### Technical parameters:

Applicable standards:

Based on DIN-ISO 3046

Based on VDE 0530 REM with specified tolerance

Standard conditions:

Air pressure: 1000 mbar or 100 m above sea level

Air temperature: 25°C or 298 K

Relative Humidity: 30%

Engine output derating:

for plants installed at > 500m above sea level and/or intake temperature > 30°C, the reduction of engine power is determined for each project.

Gas quality:

according to TA 1000-0300

Gas flow pressure: 80 - 200 mbar

(Lower gas pressures upon inquiry)

Max. variation in gas pressure: ±10%

+7 (343) 200-01-74

8-800-700-54-47 бесплатно по России

[www.energo-motors.com](http://www.energo-motors.com)





**Энерго-Моторы**  
Энергетическая компания

## Jenbacher gas engines Technical Specification

### >>> Scope of supply genset - JGS 208 GS-N.L

#### Basic engine equipment:

- \*Exhaust gas turbocharger, Intercooler
- \*Motorized carburator for LEANOX control
- \*Electronic contactless high performance ignition system
- \*Lubricating oil pump (gear driven)
- \*Lubricating oil filters in main circuit
- \*Lubricating oil sump; Lubricating oil heat exchanger
- \*Jacket water pump
- \*Fuel-, lubricating oil and jacket water pipe work on engine
- \*Flywheel for alternator operation; Exhaust gas manifold
- \*Viscous damper
- \*Knock sensors

#### Engine accessories:

- \*Electric starter motor
- \*Electronic speed governor
- \*Electronic speed monitoring device including starting and overspeed control
- \*Transducers and switches for oil pressure, jacket water temp., jacket water pressure, charge pressure and mixture temperature

#### Supplied loose:

Gas train according to DIN-DVGW consisting of:

- \*Manual stop valve, fuel gas filter, two solenoid valves, Leakage control device, gas pressure regulator

#### Documentation:

- \*Operating and maintenance manual
- \*Spare parts manual
- \*Drawings

Assembly, painting, testing in Jenbach/Austria

### >>> Scope of supply module - JMS 208 GS-N.L

Identical to Genset except that heat recovery is included.

- \*jacket water heat exchanger mounted on module frame
- \*exhaust gas heat exchanger mounted on module frame;
- \*all heat exchangers with complete pipework
- \*Heat exchangers and all inherent auxiliaries

### >>> Scope of supply container - JG(M)C 208 GS-N.L

- \*Identical to module/genset but installed in 40' ISO container (65 dB(A) @ 10m); complete with all pipework and fittings
- \*Twin circuit radiation cooler for dissipation of intercooler jacket water and lube oil thermal output; ventilation equipment
- \*Gas & smoke detectors; exhaust silencer; lube oil equipment; starting system; flexible connections
- \*Seperate control room complete with generator switchgear and all internal power and monitoring cables

#### Module equipment:

- \*Base frame for gas engine, alternator and heat exchangers
- \*Internal pole alternator with excitation alternator and with automatic voltage regulator; p.f. 0,8 lagging to 1,0
- \*Flexible coupling, bell housing
- \*Anti-vibration mounts
- \*Air filter
- \*Automatic lube oil replenishing with level control
- \*Wiring of components to module control panel
- \*Crankcase breather
- \*Jacket water electric preheating

#### Module control panel:

- \*Totally enclosed, single door cubicle, mounted on module, fully interconnected and completed

#### Control equipment:

- \*COMPACT CONTROLLER with the following functions:  
LEANOX control, knock control, power and speed control, automatic synchronizing, loss of mains protection, Operating hour counter, start counter, Operation mode selector switch: "OFF", "MANUAL", "AUTOMATIC"
- \*Generator switchgear (generator circuit breaker)

+7 (343) 200-01-74

8-800-700-54-47 бесплатно по России

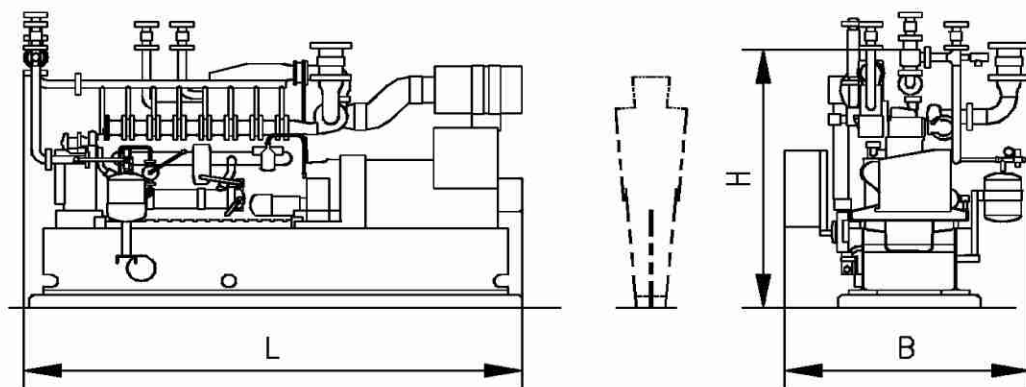
[www.energo-motors.com](http://www.energo-motors.com)



**Энерго-Моторы**  
Энергетическая компания

# Jenbacher gas engines Technical Specification

## Genset



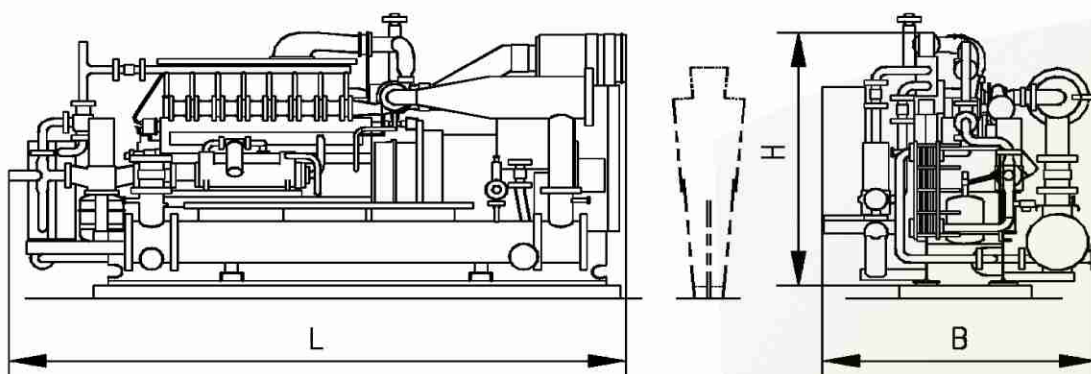
### Main dimensions and weights (approximate value)

Length L	mm	4.900
Width B	mm	1.700
Height H	mm	2.000
Weight empty	kg	5.100
Weight filled	kg	5.300

### Connections (at genset)

Jacket water inlet and outlet	DN/PN	50/10
Exhaust gas outlet	DN/PN	200/10
Fuel gas (at gas train)	DN/PN	50/16
Intercooler water connection:		
Low Temperature Circuit	DN/PN	50/10

## Module



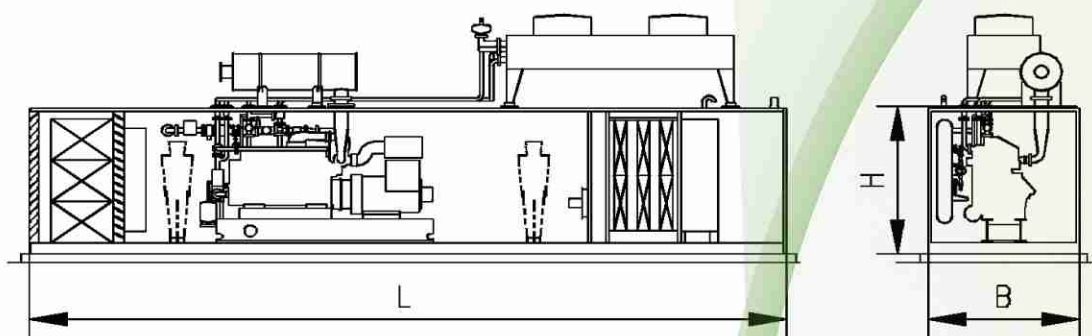
### Main dimensions and weights (approximate value)

Length L	mm	4.900
Width B	mm	1.700
Height H	mm	2.000
Weight empty	kg	5.800
Weight filled	kg	6.000

### Connections (at module)

Hot water inlet and outlet	DN/PN	50/10
Exhaust gas outlet	DN/PN	200/10
Fuel gas (at gas train)	DN/PN	50/16
Intercooler water connection:		
Intercooler water-Inlet/Outlet 2nd stage	DN/PN	50/10

## Container



### Main dimensions and weights (approximate value)

Length L	mm	12.200
Width B	mm	2.500
Height H	mm	2.600
Container weight (dry)	kg	17.200
Container weight (filled)	kg	18.000

### Connections (container)

Jacket water inlet and outlet	DN/PN	50/10
Exhaust gas outlet	DN/PN	200/10
Fuel gas connection (container)	mm	80/16
Fresh oil connection	G	28x2"

+7 (343) 200-01-74  
8-800-700-54-47 бесплатно по России  
[www.energo-motors.com](http://www.energo-motors.com)