



Jenbacher gas engines

Technical Specification

Представитель GE Jenbacher в России

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JMS 612 GS-N.L

Natural gas 2.003kW el.



Emission values:



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CO-GEN Module data:		
kW el.	2.003	
kW	1.861	
kW	4.477	
Nm³/h	471	
%	44,7%	
%	41,6%	
%	86,3%	
kW	102	
	kW kW Nm³/h % %	

NOx < 500 mg/Nm³ (5% O2)

Sound pressure level (engine, average value 1m)	dB(A)	100
Sound pressure level exhaust gas (1m, 30° off engine	dB(A)	116
Exhaust gas mass flow rate, wet	kg/h	10.932
Exhaust gas volume, wet	Nm³/h	8.624
Max.admissible exhaust back pressure after engine	mbar	60
Exhaust gas temperature at full load	℃ [8]	383
Combustion air mass flow rate	kg/h	10.610
Combustion air volume	Nm³/h	8.208
Max. inlet cooling water temp. (intercooler)	∞	40
Max. pressure drop in front of intake-air filter	mbar	10
Return temperature	~C	70
Forward temperature	∞	90
Hot water flow rate	m³/h	79,9

Engine data:		
Engine type		J 612 GS-F0
Configuration		V 60°
No. of cylinders		12
Bore	mm	190
Stroke	mm	220
Piston displacement	lit	74,85
Nominal speed	rpm	1.500
Mean piston speed	m/s	11
Mean effe. press. at stand. power and nom. spe	bar	22,00
Compression ratio	Epsilon	11,0
ISO standard fuel stop power ICFN	kW	2058
Spec. fuel consumption of engine	kWh/kWh	2,18
Specific lube oil consumption	g/kWh	0,30
Weight dry	kg	7.800
Filling capacity lube oil	lit	400
Based on methane number Min. methane numb	MZ	94 80

Manufacturer		AVK e)
Туре		DIG 130 i/4 e)
Type rating	kVA	2.600
Efficiency at p.f. = 1,0	%	97,3%
Efficiency at p.f. = 0,8	%	96,4%
Ratings at p.f. = 1,0	kW	2.003
Ratings at p.f. = 0,8	kW	1.984
Frequency	Hz	50
Voltage	kV	6,3
Protection Class		IP 23
Insulation class		F
Speed	rpm	1.500
Mass	kg	6.900

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 see 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: 120 - 200 mba

(Lower gas pressures upon inquiry)

Prechamber gas pressure: 3,5-4,0 bar

Max. variation in gas pressure: ±10%

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>>> Scope of supply genset - JGS 612 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
- *One thermocouple per cylinder

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 Prechamber Gas Train

Documentation:

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

Assembly, painting, testing in Jenbach/Austria

>>> Scope of supply module - JMS 612 GS-N.L

Identical to Genset except that heat recovery is included.

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

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 interface panel
- *Crankcase breather
- *Jacket water electric preheating

Module control panel:

*Totally enclosed, single door cubicle, wired to terminals and ready to operate, protection IP 41 outside,

IP 10 inside, according to VDE-standards

Control equipment:

- *Engine-Management-System dia.ne (Dialog Network)
- **Visualisation (industry PC-10" color graphics display): Operation data, controller display,Exh. gas temp.,Generator electr. connection,etc.
- **Central engine- and module control: Speed-, Power output-, LEANOX-Control and knock control, etc.
- *Multi-transducer
- *Lockable operation mode selector switch
 Positions: "OFF", "MANUAL", "AUTOMATIC"
- *Demand switch

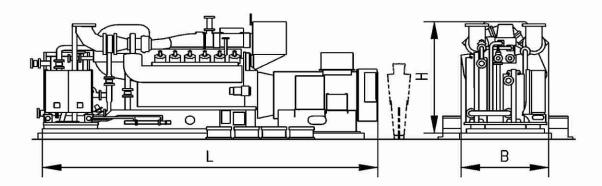
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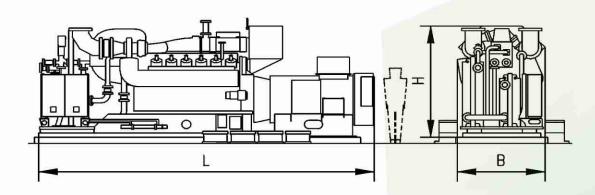
Genset



Main dimensions and weights (approximate value)		
Length L	mm	7.600
Width B	mm	2.200
Height H	mm	2.800
Weight empty	kg	20.900
Weight filled	kg	21.900

Connections (at genset)		
Jacket water inlet and outlet	DN/PN	100/10
Exhaust gas outlet	DN/PN	500/10
Fuel gas (at gas train)	DN/PN	100/16
Intercooler water connection:		
Low Temperature Circuit	DN/PN	65/10

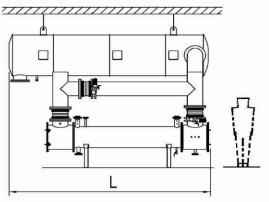
Module



Main dimensions and weights (approximate value)		
Length L	mm	7.600
Width B	mm	2.200
Height H	mm	2.800
Weight empty	kg	21.400
Weight filled	kg	22.400

DN/PN	100/10
DN/PN	500/10
DN/PN	100/16
	-
DN/PN	65/10
	DN/PN DN/PN

Heat recovery module



7	
	В

Main dimensions and weights (approximate value)		
Width B	mm	> 1800
Height H	mm	> 4158
Length L	mm	> 5600

Connections (on heat recovery module)		
Hot water inlet and outlet	DN/PN	100/10
Exhaust gas outlet	DN/PN	500/10
Condensate drain	DN/PN	50/10
Drain line	1/2"	1/2"