



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

www.energo-motors.com



JMS 620 GS-N.L

Natural gas 3.048kW el.



Emission values:



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CO-GEN Module data:		
Electrical output	kW el.	3.048
Recoverable thermal output (120 ℃)	kW	3.034
Energy input	kW	7.076
Fuel Consumption based on a LHV of		
9,5 kWh/Nm³	Nm³/h	745
Electrical efficiency	%	43,1%
Thermal efficiency	%	42,9%
Total efficiency	%	86,0%
Heat to be dissipated (LT-Circuit)	kW	175

NOx < 500 mg/Nm3 (5% O2)

dB(A)	101
dB(A)	123
kg/h	17.325
Nm³/h	13.666
mbar	60
℃ [8]	425
kg/h	16.816
Nm³/h	13.008
℃	40
mbar	10
℃	70
℃	90
m³/h	130,3
	dB(A) kg/h Nm³/h mbar °C [8] kg/h Nm³/h °C mbar °C °C

Engine data:			
Engine type		J 620 GS-E0	
Configuration		V 60°	
No. of cylinders		20	
Bore	mm	190	
Stroke	mm	220	
Piston displacement	lit	124,75	
Nominal speed	rpm	1.500	
Mean piston speed	m/s	11	
Mean effe. press. at stand. power and nom. spe	bar	20,00	
Compression ratio	Epsilon	11,0	
ISO standard fuel stop power ICFN	kW	3119	
Spec. fuel consumption of engine	kWh/kWh	2,27	
Specific lube oil consumption	g/kWh	0,30	
Weight dry	kg	12.000	
Filling capacity lube oil	lit	670	
Based on methane number Min. methane numb	MZ	94 80	

Manufacturer		AVK e)
Туре		DIG 142 d/4 e
Type rating	kVA	4.050
Efficiency at p.f. = 1,0	%	97,7%
Efficiency at p.f. = 0,8	%	97,1%
Ratings at p.f. = 1,0	kW	3.048
Ratings at p.f. = 0,8	kW	3.028
Frequency	Hz	50
Voltage	kV	6,3
Protection Class		IP 23
Insulation class		F
Speed	rpm	1.500
Mass	kg	9.850

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: 3,0-4,0 bar

Max. variation in gas pressure: ±10%

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>>> Scope of supply genset - JGS 620 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 620 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

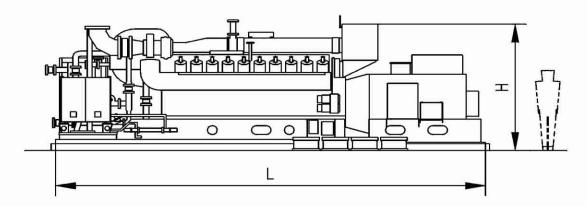
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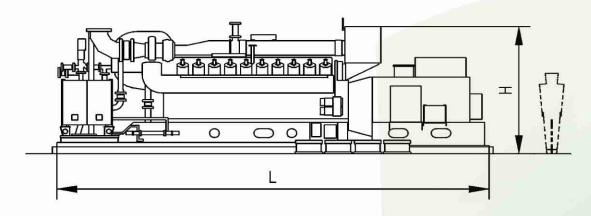
Genset



Main dimensions and weights (approximate value)		
Length L	mm	8.900
Width B	mm	2.200
Height H	mm	2.800
Weight empty	kg	29.300
Weight filled	kg	30.300

Connections (at genset)		
Jacket water inlet and outlet	DN/PN	100/10
Exhaust gas outlet	DN/PN	600/10
Fuel gas (at gas train)	DN/PN	100/16
Intercooler water connection:		
Low Temperature Circuit	DN/PN	65/10

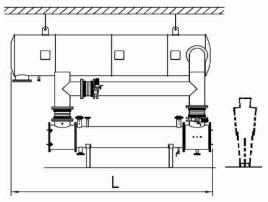
Module

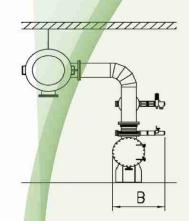


Main dimensions and weights (approximate value)		
Length L	mm	8.900
Width B	mm	2.200
Height H	mm	2.800
Weight empty	kg	29.900
Weight filled	kg	30.900

DN/PN	100/10
DN/PN	600/10
DN/PN	100/16
DN/PN	65/10
	DN/PN DN/PN

Heat recovery module





mm	> 1962
mm	> 5800
mm	> 6750
	mm

Connections (on heat recovery module)		
Hot water inlet and outlet	DN/PN	100/10
Exhaust gas outlet	DN/PN	600/10
Condensate drain	DN/PN	50/10
Drain line	1/2"	1/2"