

SPECIFICATIONS – 12V275GL/GL+

BASIC MODEL SPECIFICATIONS

Type	4-cycle, 4-valve, lean burn, prechamber
Aspiration	Turbocharged & Intercooled
Number of cylinders	V-12
Bore x stroke	10.627 x 11.811 in. (275 x 300 mm)
Displacement	13,048 cu. in. (214 liters)
Compression ratio	9.0:1
Mean piston speed @ 1000 rpm	1669 ft/min (10.0 m/sec)
Low idle	750 rpm
Firing order	1R-1L-5R-5L-3R-3L-6R-6L-2R-2L-4R-4L

BEARINGS - MAIN

Number	7
Diameter x width	8.858 x 4.094 in. (225 x 104 mm)
Projected area / bearing	36.27 sq. in. (234 sq. cm)

BEARINGS - CRANKPIN

Diameter x width	7.677 x 3.071 in. (195 x 78 mm)
Projected area / bearing	23.58 sq. in. (152 sq. cm)

LUBRICATION SYSTEM

Sump capacity including filters & coolers	220 gal. (833 liters)
Normal tube oil pressure	60 - 65 psi (415 - 450 kPa)
Minimum pressure	45 psi (310 kPa)
Normal flow	130 gpm (492 liters/min)
Preflube	
• Duration	90 seconds before start or 90 seconds each hour not running
• Normal pressure	25 psi (172 kPa) ⁽¹⁾
• Minimum flow	30 gpm (115 liters/min)
Postlube (after hot shutdown)	60 seconds

CRANKCASE BREATHING SYSTEM

Volume flow - maximum	120 scfm (56.7 liters/sec)
Suction vacuum	2 in. (51 mm) of H ₂ O

COOLING SYSTEM

Jacket capacity, engine only	100 gal. (379 liters)
Auxiliary water system capacity	30 gal. (114 liters)
Maximum inlet head water pump	50 ft. (15.24 m) of H ₂ O
Minimum inlet head water pump	14.1 ft. (4.3 m) of H ₂ O
Normal jacket water temperature out of engine	180° F (82° C)
Auxiliary water pipe flange	4.0 in. ANSI (102 mm)
Jacket water pipe flange	5.0 in. ANSI (127 mm)

FUEL SYSTEM

Natural gas pressure range at regulator	45 - 60 psi (310 - 415 kPa)
Natural gas inlet pipe flange	2.0 in. ANSI (508 mm)

AIR INDUCTION SYSTEM (DUCTING, FILTER & SILENCER)

Maximum permissible restriction	15.0 in. (381 mm) of H ₂ O
Compressor inlet pipe connection	9.00 in. (229 mm)
Required filtering efficiency (coarse dust per ISO 5011, latest version)	99.7%
Minimum Combustion Air Inlet Temperature for Starting and Engine Operation (GL Engine)	40° F (4.4° C)
Minimum Combustion Air Inlet Temperature for Starting and Engine Operation (GL+ Engine)	0° F (-18° C)

EXHAUST SYSTEM (TURBINE OUTLET)

Maximum permissible backpressure	20 in. (508 mm) of H ₂ O
Turbine outlet pipe flange	Equivalent to 8.0 in. ANSI (203.2 mm)

STARTING SYSTEM

Regulated starting air/gas pressure	125 - 150 psi (862 - 1034 kPa) ⁽¹⁾
Air inlet pipe flanges (left & right)	1.5 in. ANSI (38.1 mm)
Air outlet pipe flanges (left & right)	3.0 in. ANSI (76.2 mm)

Waukesha Engine Specifications Guide

**Naval Civil Engineering Laboratory
(Port Hueneme, Calif.)**



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