

SPECIFICATIONS 1

MODEL — F3521G

BASIC MODEL SPECIFICATIONS

Type	4-cycle, overhead valve
Aspiration	Natural
Number of cylinders	In-Line 6
Bore x stroke	9.375 x 8.50 in. (238 x 216 mm)
Displacement	3520 cu. in. (57.7 liters)
Compression ratio – natural gas standard ratio / HD-5 propane	8:1
Compression ratio – natural gas high ratio	10:1
Speed range	400 – 1200 rpm continuous / 400 – 1200 rpm intermittent duty
Mean piston speed @ 1200 rpm	1700 ft./min. (8.64 m/sec)
Low idle	450 rpm
Flywheel housing – SAE No	00

BEARINGS – MAIN

Number	7
Diameter x width (front)	6.25 x 4.125 in. (159 x 105 mm)
Diameter x width (intermediate)	6.25 x 3.00 in. (159 x 76 mm)
Diameter x width (center)	6.25 x 4.125 in. (159 x 105 mm)
Diameter x width (rear)	6.25 x 4.125 in. (159 x 105 mm)
Total main bearing projected area	152.3 sq. in. (982 sq. cm)

BEARINGS – CRANKPIN

Diameter x width	6.25 x 2.50 in. (159 x 64 mm)
Total crankpin projected area	93.75 sq. in. (605 sq. cm)

COOLING SYSTEM

Jacket capacity, engine only	48.5 gal. (184 liters)
Maximum jacket water pump inlet head	50 ft. (15.24 m) of H ₂ O
Normal jacket water temperature out of engine	180° F (82° C)
Jacket water inlet, hose ID	4.0 in. (102 mm)
Jacket water outlet, hose ID	4.0 in. (102 mm)

EXHAUST SYSTEM

Maximum permissible backpressure	18 in. (457 mm) of H ₂ O
Exhaust outlet, pipe flange	5.0 in. (127 mm)

FUEL SYSTEM

Natural gas pressure at regulator	5 – 10 psi (34.5 – 69 kPa)
Natural gas inlet, pipe size	2.0 in. (50.8 mm)

AIR INDUCTION SYSTEM (DUCTING, FILTER & SILENCER)

Maximum permissible restriction	15.0 in. (381 mm) of H ₂ O
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LUBRICATION SYSTEM

Approximate capacity including sump, filters and cooler	72 gal. (273 liters)
Normal lube oil pressure	55 ± 5 psi (380 ± 35 kPa)

STARTING SYSTEM

Regulated starting air	60 psi (415 kPa) ⁽¹⁾
Electric start	24 VDC

MISCELLANEOUS

Recommended minimum spacing between engines	36 in. (914 mm)
Recommended minimum overhead clearance	(Note 2)
Engine dry weight	14,500 lb. (6577 kg)
Heaviest engine part, top overhaul, cylinder head assembly	205 lb. (93 kg)
Heaviest engine part, cylinder block assembly	3050 lb. (1383 kg)

NOTES:

1. Pressure is based on 50° F (10° C) lubricating oil temperature.
2. Sufficient height to permit use of a chain hoist for removal of heavier components.



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