

DUAL FUEL/GASOLINE & NATURAL GAS

1.0 Liter

For Industrial Application

ZPP 410



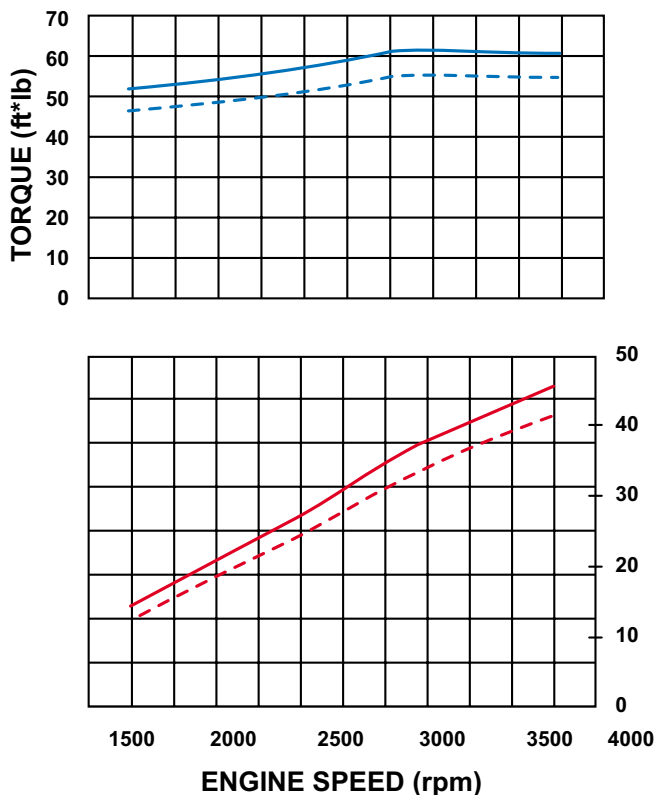
(Some parts optional)

SPECIFICATION DATA

Intermittent output (JIS 82 NET)	40 Hp/3,600 rpm
Continuous output (JIS 82 NET)	36 Hp/3,600 rpm
Peak torque (JIS 82 NET)	61 ft-lb/3,000 rpm
Fuel and type	Gasoline/multiport - LPG/NG mixer type
Engine configuration	4 in-line, 4 stroke
Combustion chamber	Pentroof shape
Bore x stroke	2.6 in x 2.87 in
Total piston displacement	999 cc
Compression ratio	9.7 : 1
Length x width x height	19.0 x 20.5 x 26.5 in
Dry weight*	181 lb

*Excl. ship loose parts.

PERFORMANCE CURVE



Curve 1; Intermittent Gross Output

This is the highest output obtainable at JIS standard ambient conditions from a basic engine equipped only with the built-in accessories essential to its operation. These levels may be only maintained for operating period of short duration.

Applications: Scissorlifts, Aerial platforms, Scrubber/sweepers, Utility vehicles, Construction equipment

Curve 2; Continuous Gross Output

This is the output which can be obtained at JIS standard ambient conditions from a basic engine, operating in a continuous duty mode.

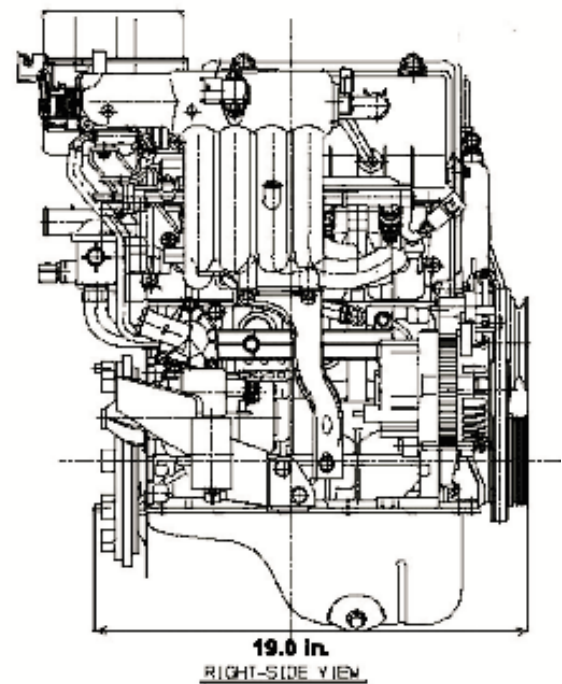
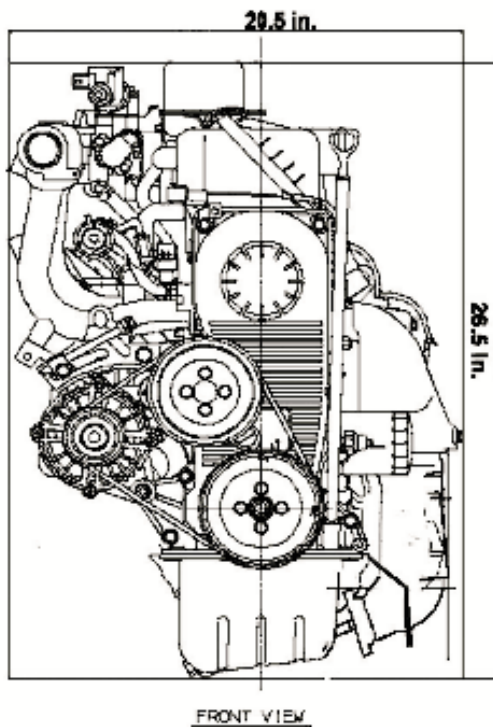
Applications: Generators, Welders, Water pumps, Air compressors, Carpet Cleaners, etc.

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ENGINE SPECIFICATIONS

GENERAL		PHYSICAL DATA	
Cylinders	4	Length	19.0 in / 482.6 mm
Cylinder arrangement	Vertical in-line	Width	20.5 in / 520.7 mm
Bore	2.6 in / 66.0 mm	Height	26.5 in / 673.1 mm
Stroke	2.87 in / 73.0 mm	Weight	181 lb / 82 kg
Cylinder displacement	15.24 cu in / 249.75 cc	Oil capacity	3.5 qt / 3.3 L
Total displacement	60.9 cu in / 999 cc		
Compression ratio	9.7:1		
FUEL SYSTEM		ELECTRICAL	
Gasoline/multiport - LPG/NG mixer type		Starter motor	12 V - 0.9kW
Fuel pressure	3 bar	Alternator	13.5 V - 70 A w/ built in regulator
Fuel pressure (LPG/NG)	<5 in	DIS ignition	
Fuel requirement	Unleaded gasoline	COOLING	
Fuel pump	Electric type	Thermostat	180°F / 82°C
Electronic governor			



Design and specifications are subject to change without notice.

For further information, please contact:

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