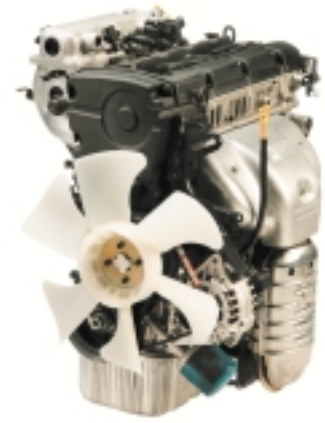


DUAL FUEL/GASOLINE & NATURAL GAS

2.0 Liter

For Industrial Application

ZPP 420



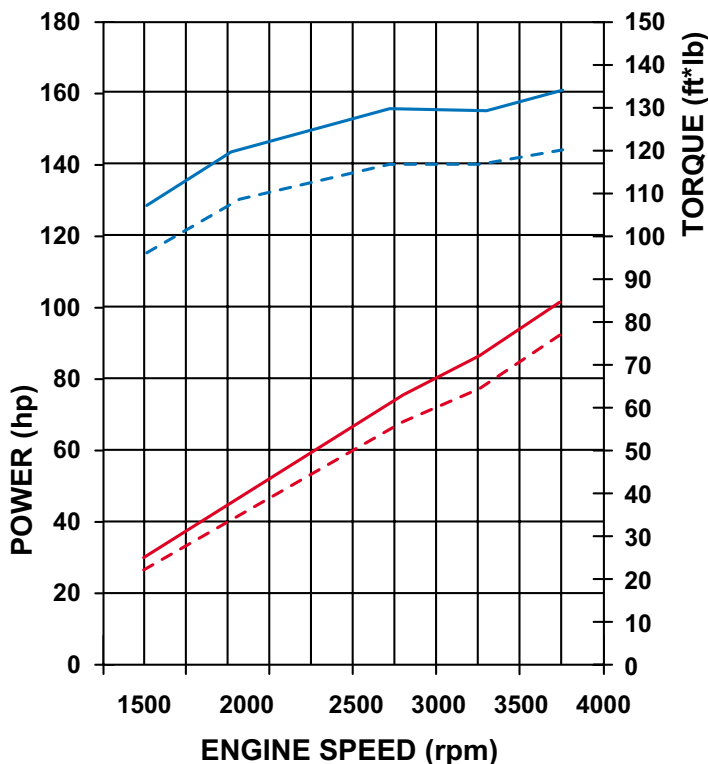
(Some parts optional)

SPECIFICATION DATA

Intermittent output (JIS 82 NET)	86 Hp/3,600 rpm
Continuous output (JIS 82 NET)	78 Hp/3,600 rpm
Peak torque (JIS 82 NET)	129.5 ft-lb/3,000 rpm
Fuel and type	Gasoline/multiport - LPG/NG mixer type
Engine configuration	4 in-line, 4 stroke
Combustion chamber	Semi-pentroof shape
Bore x stroke (mm)	82.0 x 93.5
Total piston displacement (cc)	1975
Compression ratio	10.1:1
Length x width x height (mm)	533.5 x 624.8 x 672
Dry weight*	150.2 kg

*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.

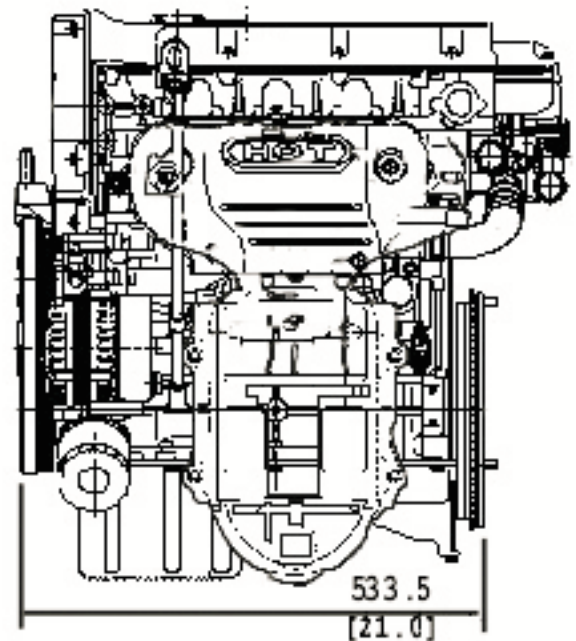
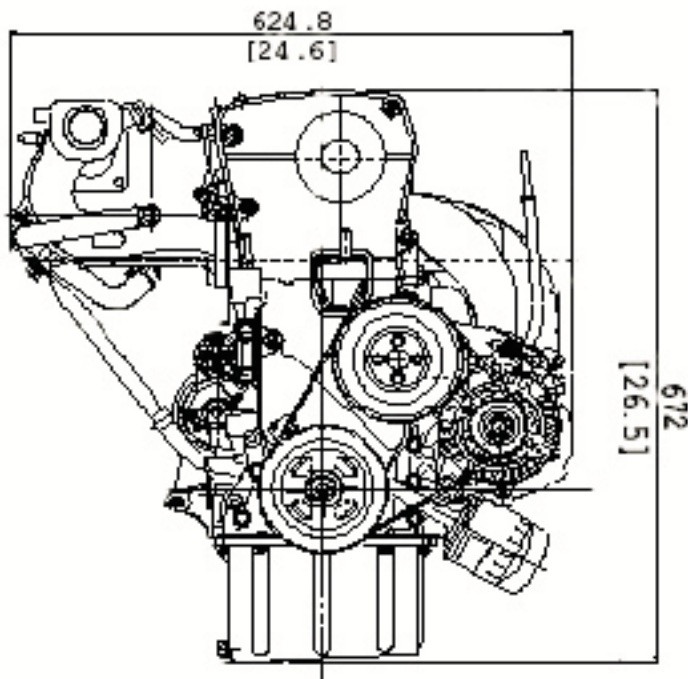
Applications: Generators, Welders, Water pumps, Air compressors, Carpet Cleaners, etc.

ZENITH
POWER PRODUCTS LLC

14570 INDUSTRIAL PARK ROAD
BRISTOL, VA 24202

ENGINE SPECIFICATIONS

GENERAL		PHYSICAL DATA	
Cylinders	4	Length	21.0 in / 533.5 mm
Cylinder arrangement	Vertical in-line	Width	24.6 in / 624.8 mm
Bore	3.23 in / 82.0 mm	Height	26.5 in / 672.0 mm
Stroke	3.68 in / 94.0 mm	Weight	68.1 lb / 150.2 kg
Cylinder displacement	30.1 cu in / 493.8 cc	Oil capacity	4.2 qt / 4.0 L
Total displacement	120.5 cu in / 1975 cc	ELECTRICAL	
Compression ratio	10.1:1		
FUEL SYSTEM		Starter motor	12 V - 1.2kW
		Gasoline/multiport - LPG/NG mixer type	Alternator
Fuel pressure	3 bar	DIS ignition	
Fuel pressure (LPG/NG)	<5 in	COOLING	
Fuel requirement	Unleaded gasoline		
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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