

DUAL FUEL/GASOLINE & NATURAL GAS

1.6 Liter

For Industrial Application

ZPP 416



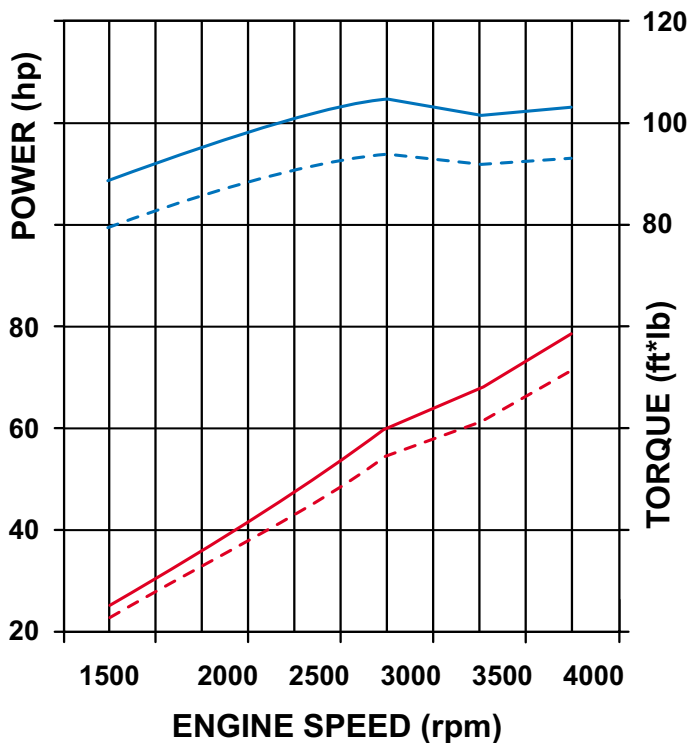
(Some parts optional)

SPECIFICATION DATA

Intermittent output (JIS 82 NET)	68 Hp/3,600 rpm
Continuous output (JIS 82 NET)	61 Hp/3,600 rpm
Peak torque (JIS 82 NET)	105 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)	76.5 x 87.0
Total piston displacement (cc)	1599
Compression ratio	10:1
Length x width x height (mm)	509.9 x 572.5 x 654.5
Dry weight*	126.3 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.

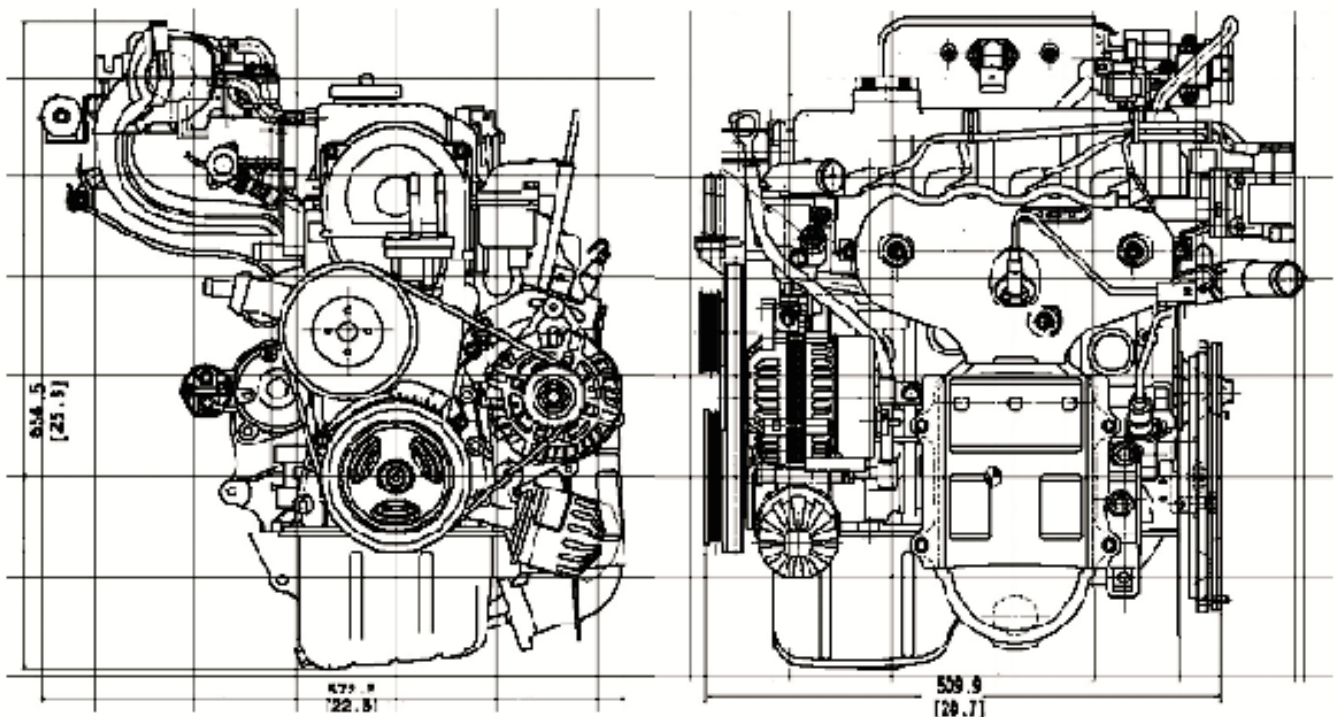
Applications: Generators, Welders, Water pumps, Air compressors, Carpet Cleaners, etc.

ZENITH
POWER PRODUCTS LLC

14570 INDUSTRIAL PARK ROAD
BRISTOL, VA 24202

ENGINE SPECIFICATIONS

GENERAL		PHYSICAL DATA	
Cylinders	4	Length	20.1 in / 509.9 mm
Cylinder arrangement	Vertical in-line	Width	22.5 in / 572.5 mm
Bore	3.01 in / 76.5 mm	Height	25.8 in / 654.5 mm
Stroke	3.43 in / 87.0 mm	Weight	57.3 lb / 126.3 kg
Cylinder displacement	24.4 cu in / 399.8 cc	Oil capacity	3.9 qt / 3.7 L
Total displacement	97.6 cu in / 1599 cc		
Compression ratio	10:1		
FUEL SYSTEM		ELECTRICAL	
Gasoline/multiport - LPG/NG mixer type		Starter motor	12 V - 0.9kW
Fuel pressure	3 bar	Alternator	13.5 V - 80 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:

David Stringer - dstringer.zpp@zenithfuelsystems.com

Otto Aliffi - oaliffi.zpp@zenithfuelsystems.com

www.zenithpowerproducts.com | 276.645.8679

ZENITH ★
POWER PRODUCTS LLC
14570 INDUSTRIAL PARK ROAD
BRISTOL, VA 24202