

SPECIFICATION SHEET

Fuel	Rating	Power hp (kW)	Torque ft-lbs (N-m)
Natural Coo	Intermittent	121 (90)	315 (426)
Natural Gas	Continuous	109 (81)	284 (384)
100	Intermittent	130 (97)	360 (487)
LPG	Continuous	117 (87)	324 (438)

Rating Definitions: Rated for 1800 rpm engine speed. (Corrected per SAE J1349) Intermittent - Applicable for a varying intermittent loads with no overload capability. Continuous - Continuous prime rating is applicable for supplying power to a varying load for an unlimited amount of running time, with 10% overload capacity available for 1 out of every 12 hours.

STANDARD FEATURES:

Tradewinds Power Corp engine power units are designed, packaged, and tested to meet the power requirements of a wide range of equipment used in agricultural applications. All our systems and components are prototyped, assembled and tested within a purpose built packaging, manufacturing, and test facility.

Key System Features are:

- · Engine power units will accept one-step loading
- · EPA and CARB certified for Agricultural use
- Four (4) point lifting eyes
- Assembled on integral sub-base with fork lift pockets
- Self contained with mounted exhaust and air-cleaner
- TPC Controller for engine start and stop
- Low oil pressure and high engine temperature fault detection and shut-down protection

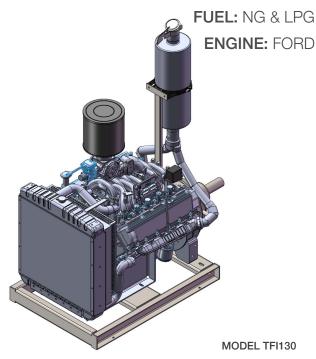
Engine:

- 1 x Ford WSG-1068 EFI
- · Heavy duty rated for continuous prime power operation
- Cooling system capable of operation at 120°F ambient
- · Hydraulic lash adjusters with roller finger cam followers
- · Even firing order with internal balance shaft to be vibration free
- · Broadband knock sensor, calibrated for individual cylinder use
- Coil on plug ignition system for reliable and effective spark delivery
- · 12 volt electric start and charging system
- Electronic engine management system with built-in engine protection against detonation, high coolant temperature, low oil pressure, over-speed shutdown, and starter lockout

Drive System:

- · Manual clutch assembled to engine flywheel housing
- · Clutch shaft running @ 1800 rpm

SINGLE ENGINE CLUTCH DRIVE OPU



Engine Power Unit Arrangement:

- · Engine assembled on steel frame
- · Sized for entry through standard door way
- · Mounted exhaust and air cleaner
- · Oil and water drain lines.

AUTOMATIC ENGINE CONTROLLER:

- · CAN-based display with rich, full-color graphics
- · Full engine control and safety shut-down monitoring
- · Bonded glare-free LCD screen, viewable in direct sunlight
- · Easy -to-use configuration software
- · Full autostart, manual start, and off controls
- · Rugged design for extreme environments



MPC-20 ENGINE CONTROLLER (Available on remote stand)

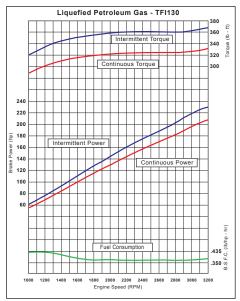
WARRANTY:

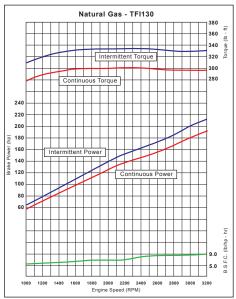
- Engine covered under the original equipment manufacturer's warranty - consult Tradewinds Power Corp for details
- Complete package supplied with one-year unlimited warranty

The manufacture reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



POWER & TORQUE CURVES





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DRIVE ASSEMBLY:	
Configuration	Single engine 1800 rpm clutch drive
Drive Connection	Twin Disc
Operation	Manual
Pulley Drive Arrangement	N.A.
Engine to Drive Shaft Speed rpm	1800
Bearings	N.A.
ENGINE SPECIFICATION:	
Manufacturer	Ford
Model	WSG-1068
Emissions	EPA and CARB certified
Crankshaft speed	2,800 rpm
Туре	Industrial, four-stroke
Combustion system	Electronic Spark Ignition
Aspiration	Natural
Engine type	Gaseous and LPG spark ignition
Fuel NG (LPG)	NG 1050 BTU/FT3 (LPG HD-5)
Cylinder arrangement	V10
Displacement in ³ (liters)	415 (6.8)
Bore and Stroke ins (mm)	3.55 X 4.17 (90.2 X 105.8)
Nominal Max intermittent hp (kW) per engine	145 (108) NG fuel 165 (123) LPG fuel
Cooling	Liquid
Governor	Electronic
Starting motor & alternator	12 volt
Compression ratio	9:1
Air cleaner type	Medium duty dry type
Exhaust Silencer dBA	TBA
Max. Exh temp at full load degrees °F (°C)	TBA
Max. Back pressure - ins H₂O (kPA)	TBA
Fuel Filter	Full flow with water separator
COOLING SYSTEM FOR OPERATING AT 120°F AMB	IENT:
Eng. Cooling air flow - ft³/sec (m³/sec)	169 (4.79)
Radiator Capacity gallons (Liters)	TBA
ENGINE ELECTRICAL SYSTEM:	
Starting motor voltage	12 volt
Wet Cell Battery	Lead Acid
Cold Cranking Amps - minimum	720 amps
LUBRICATION SYSTEM:	
Oil pan capacity with filter - quarts	6
Recommended lubricating oil grade	15W 40
Oil consumption at full load	< 0.1% of fuel consumption
Oil pressure – psi (kPA)	46 (320)

KEY DIMENSIONS AND WEIGHT								
Description	Key	Inches						
Height	Н	69.13						
Length	L	59.21						
Width	W	30.75						
Shaft Height	SH	14.25						
Dry Weight Ibs (Kg)		1321 (601)						

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