

SPECIFICATION SHEET

GENERAL PUMP PACKAGE INFORMATION

TPC Model	Pump	Engine	Max. Solids	Fuel Tank	Suc. x Dis.
TP50-28T4iP	Cornell	Perkins	N.A.	N.A.	6" x 4"

Engine rating: Rated for 2200 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 PUMP PACKAGE DESCRIPTION

Tradewinds Power Corp (TPC) 6" x 4" AG pump packages are designed for continuous operation in rugged environments requiring uninterrupted watering for extended periods. As standard an automatic priming centrifugal pump and diesel engine are SAE mounted on a frame. The package designed to be easily mounted at site making it the preferred pump for agricultural applications.

Key TP60-28T4P Pump Package Features are:

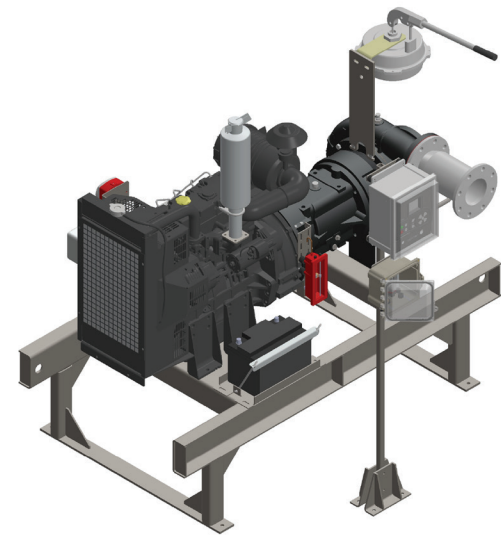
- CORNELL model 4RB-EM16 bypass pump
- Perkins diesel engine Model 404J-E22T
- EPA and CARB certified for mobile applications
- Mounted to chassis for mounting on firm surface
- Lifting via heavy duty chassis
- 12v starter, charger and battery
- Auto start controller mounted on aluminum stand
- Open configuration
- AWL anticorrosive paint
- Hand primer pump

Pump Features:

- 6" discharge x 4" suction with 125# cast iron flanges
- Cast iron casing
- 2-vane enclosed impeller
- Replaceable wear rings & Run-Dry Seals
- Ball valve made out of brass to prevent corrosion
- Alarms for Low Oil Level for Run-Dry seals

Optional Equipment Available for TP60-28T4P Pumps:

- Sound attenuated full enclosure fabricated from marine grade aluminum, and powder paint for durability
- Package can be easily upgraded to a pressure, level or flow transducer auto-start configuration
- Cornell's patented Cycloseal[®] design with Run-Dry oil lubrication system
- Vacuum pump 50 SCFM maximum. Positive seating vacuum priming valve prevent water carry-over to the vacuum, pump or atmosphere



MODEL TP60-28T4P

* Shown with additional options

Optional Equipment. Continued:

- Options for Flow Meters and Level Transducers
- Hoses with Stainless Steel couplings

AUTOMATIC ENGINE CONTROLLER:

- Automatic engine controller with digital display of all functions
- Quick and easy to install
- Advanced, rugged, reliable microprocessor-based design
- Full engine monitoring and shut down protection
- Full autostart, manual start, and off controls
- 3.8" monochrome, transfective, white back light LCD



MPC20
ENGINE CONTROLLER

WARRANTY:

- Engine & Pump covered under the OEM manufacturer's warranty - consult Tradewinds Power Corp for details
- Complete package supplied with one-year limited warranty

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

TP60-28T4P Performance Curve

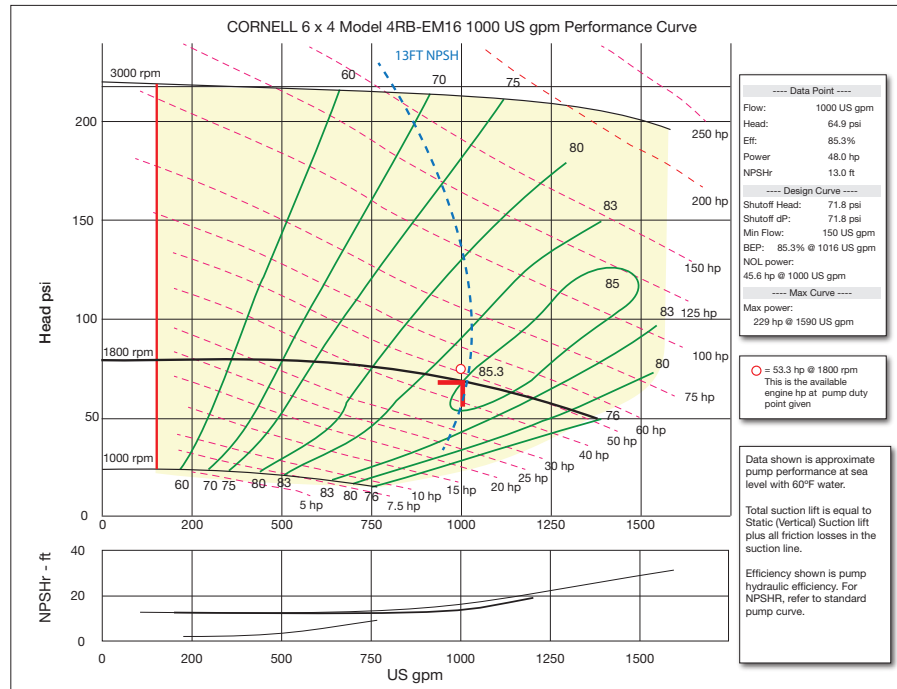
Pump Specifications	
Manufacturer	Cornell
Model #	4RB-EM16
Type	4" discharge x 6" suction
Casing material	Cast iron
Impeller	Enclosed 2-vane
Impeller material	Cast iron
Ball valve material	Brass
Wear rings	Replaceable
Ball bearing life	Heavy duty 50,000 hours
Shaft sleeve material	Stainless steel

Engine Specifications	
Manufacturer	Perkins
Model	404J-E22T
Emissions	Tier 4 - Final & Stage IIIB
Crankshaft speed	2,800 rpm
Engine Type & Combustion	Diesel Direct Injection
Fuel Injection System	High Pressure Common Rail
Fuel Pressure	2000 bar
Aspiration	Turbocharged
Diesel fuel grade	EN590 : 2009 Diesel
Cylinder Arrangement	In-line 4
Displacement in ³ (liters)	135 (2.2)
Bore and stroke ins (mm)	3.3 X 3.9 (84 X 100)
Peak power hp (kW) @ 2800 rpm	60.0 (45.0)
Cooling	Water Cooled
Engine Control	Electronic Engine Management
Compression ratio	18.0:1

Fuel Consumption @ 1800 rpm gals (liter) per hour	
100% Load	2.634 (9.88)
75% Load	1.948 (7.31)
50% Load	1.378 (5.17)
25% Load	0.772 (2.90)

Standard Pump Package Arrangement	
Coupling	SAE mounted
Arrangement	Raised chassis mounted
Starter and charging alternator	12V
Controller	MPC20
Exhaust	Mounted silencer
Site handling management	Frame

List of Options Offered for Pump Package	
Stainless steel impeller	Subbase
Subbase fuel tank	Oil level switch gauge
Water level switch gauge	Flow meter
Concentric and eccentric reducers	Lay flat hoses with or without reel
Foot valves	



TP60-28T4P Performance Table

Diesel Model: Perkins 404J-E22T

Pump Model: Cornell 4RB-EM16

Pump Details

Design Point min/max	1100 gpm @ 56psi @ 1800rpm	Package Dimensions Inches and Pounds	
Static Head	0 psi	Height	65.27
Size	4RB-EM16	Length	67.00
Impeller Diameter (in.)	12.75"	Width	38.00
Speed	1800	Dry Weight	972 lbs

TP60-28T4P Dimensions

