

PUMP MODEL: TP88-22T4P

8" x 5" AG PUMP PACKAGE

PUMP TYPE: CORNELL

ENGINE: Perkins 904J-E36TA

SPECIFICATION SHEET

GENERAL BYPASS PUMP PACKAGE INFORMATION							
TPC Model	Pump	Engine	Max. Solids	Fuel Tank	Suc. x Dis.		
TP88-24T4P	Cornell	Perkins	3"	n.a.	8" x 5"		

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) bypass 8" x 5" 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 close coupled together on a frame. The package designed to be easily mounted at site making it the preferred pump for agricultural applications.

Key TP88-22T4P Pump Package Features are:

- · CORNELL model 5RB-EM16 bypass pump
- Perkins diesel engine Model 904J-E36TA
- · 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
- Open configuration
- · Spray bed liner that lasts longer than paint
- · All stainless steel hardware

Pump Features:

- 5" discharge x 8" suction with 125# cast iron flanges
- · Cast iron casing
- 2-vane enclosed stainless steel impeller that handles 3" diameter solids
- Replaceable wear rings & Run Dry Seals
- Cornell's patented Cycloseal $^{\textcircled{B}}$ 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
- · Ball valve made out of brass to prevent corrosion
- · Alarms for Low Oil Level for run dry seals

Optional Equipment Available for TP88-22T4P 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



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, transflective, 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

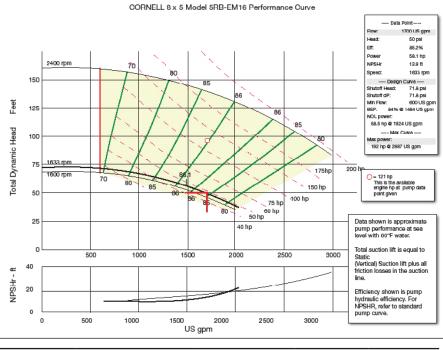
The manufacture reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



PUMP MODEL: TP88-22T4P

TP88-22T4P Performance Curve

Pump Specifications					
Manufacturer	Cornell				
Self Priming Model #	5RB-EM16				
Type (3" solid managed)	5" discharge x 8" suction				
Casing material	Cast iron				
Impeller	Enclosed 2-vane				
Impeller material	Stainless steel				
Ball valve material	Brass				
Wear rings	Replaceable				
Ball bearing life	Heavy duty 50,000 hours				
Shaft sleeve material	Stainless steel				
Vacuum Pump	50 SCFM maximum				
Engine Specifications					
Manufacturer	Perkins				
Model	904J-E36TA				
Emissions	Tier 4 - Final & Stage IIIB				
Crankshaft speed	2,200 rpm				
Engine Type & Combustion	Diesel Direct Injection				
Fuel Injection System	High Pressure Common Rail				
Fuel Presssure	2000 bar				
Aspiration	Turbo-Charged Aftercooled				
Diesel fuel grade	EN590 : 2009 Diesel				
Cylinder Arrangement	In-line 4				
Displacement in ³ (liters)	219.7 (3.6)				
Bore and stroke ins (mm)	3.85 X 4.72 (98 X 120)				
Peak power hp (kW) @ 2200 rpm	100.0 (137.0)				
Cooling	Water Cooled				
Engine Control	Electronic Engine Management				
Compression ratio	18.0:1				
Fuel Consumption @ 1800 rpm gals (liter) per ho					
100% Load	6.206 (23.27)				
75% Load	4.654 (31.88)				
50% Load	3.103 (22.88)				
25% Load	1.551 (13.50)				
Standard Pump Package A	rrangement				
Coupling & Arrangement	Close coupled on Chassis				
Starter and charging alternator	12V				
Controller	MPC20				
Exhaust	Mounted silencer				
Site handling management	Frame				
Hose coupling	Aluminum 250 psi				
Options Offered for Pump Package					
Sound attenuated enclosure	Aluminum powder coated				
Hose box	Mounted on bed				
Hose coupling option	Stainless steel				
	ressure/level/flow transducer				
Flow meters	To track water pumped				



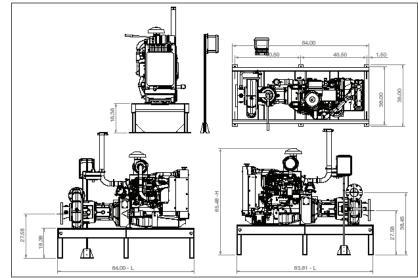
TP88-22T4P Performance Table

Diesel Model: Perkins 904J-E36TA

Pump Model: Cornell 4RB-EM16

Pump Details						
Encl. Solids Handling	3" Maximum	Package Dimensions				
Design Duty Point	1800 gpm @52 psi@1633rpm	Inches and Pounds				
трн	120 ft	Height	65.48			
Size	4RB-EM16	Length	84.00			
Diameter (inches)	13.5"	Width	38.00			
Speed	1633 rpm	Dry Weight	2146 lbs			

TP88-22T4P Dimensions



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