

PUMP MODEL: TP99-22T4P

10" x 6" 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.
TP99-24T4P	Cornell	Perkins	3"	n.a.	10" x 6"

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 10" x 6" 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 TP99-22T4P Pump Package Features are:

- · CORNELL model 6YBQ-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:

- 6" discharge x 10" 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 TP99-22T4P 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

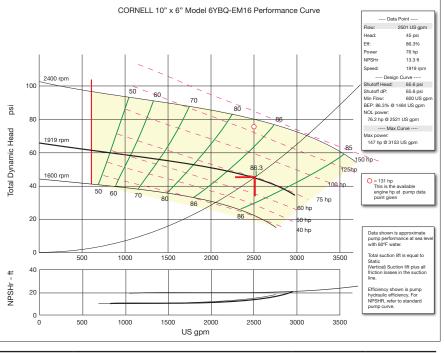
The manufacture reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



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TP99-22T4P Performance Curve

Pump Specifications			
Manufacturer	Cornell		
Self Priming Model #	6YBQ-EM16		
Type (3" solid managed)	6" discharge x 10" 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 r	pm gals (liter) per hour		
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	rangement		
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 F			
Sound attenuated enclosure	Aluminum powder coated		
Hose box	Mounted on bed		
Hose coupling option	Stainless steel		
Auto switch operation options: Pressure/level/flow transducer			
inter official operation options. Th	1		
Flow meters	To track water numbed		
Flow meters Level Transducers	To track water pumped To measure height of water		



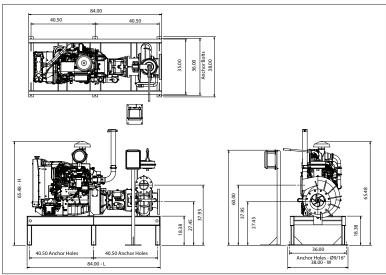
TP99-22T4P Performance Table

Diesel Model: Perkins 904J-E36TA

Pump Model: Cornell 6YBQ-EM16

Pump Details					
Encl. Solids Handling	3" Maximum	Package Dimensions			
Design Duty Point	2501 gpm @52 psi@1919rpm	Inches and Pounds			
TDH	45 psi	Height	65.48		
Size	6YBQ-EM16	Length	84.00		
Diameter (inches)	11"	Width	38.00		
Speed	1919 rpm	Dry Weight	1360 lbs		

TP99-22T4P Dimensions



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