



6" x 6" BYPASS PUMP PACKAGE

PUMP TYPE: CORNELL

ENGINE: Hyundai

SPECIFICATION SHEET

GENERAL BYPASS PUMP PACKAGE INFORMATIO				MATION		
	TPC Model	Pump	Engine	Max. Solids	Fuel Tank	Suc. x Dis.
	TPK6-FS	Cornell	Hyundai	3"	100 gals	6" 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 6" x 6" pump packages are designed for continuous operation in rugged environments requiring uninterrupted de-watering for extended periods. As standard a automatic priming centrifugal pump and diesel engine are close coupled together on a DOT trailer. The package designed to be easily transported to site making it the preferred pump for renters, municipalities, industrial users, and construction.

Key TPK6-FS Pump Package Features are:

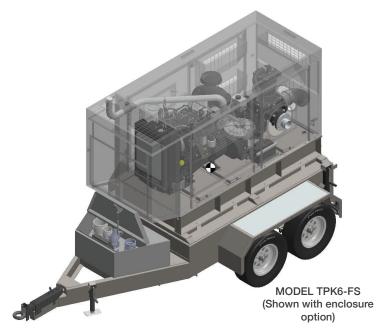
- CORNELL model 6612TVA Redi-Primel[®] bypass pump
- · Hyundai diesel engine
- · EPA and CARB certified for mobile applications
- · DOT trailer for road and rough terrain mobility
- · Heavy duty lifting bale
- · 12v starter, charger and battery
- · Auto start controller
- · Open configuration with option for enclosure
- Spray bed liner that lasts longer than paint
- · Torque spring axles for smoother equipment ride
- · Hose box assembly with 250 PSI hoses
- · All stainless steel hardware

Pump Features:

- 6" discharge x 6" 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® 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 TPK6-FS Pump Package:

- 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.



TPK6-FS Performance Curve

Pump Specifications		CORNELL 6 x 6 Pump Model 6612T Performance Curve			
Manufacturer	Cornell	Bata shown is approximate pump performance at sea level with 50°F water Total suction lift is equal to Static			
Model #	6612TVA	[Vertical] Suction lift plus all friction			
Туре	6" discharge x 6" suction	losses in the suction line			
Priming	Self-prime	efficiency. For NPSHR, refer to standard pump curve			
Casing material	Cast iron	B 175 E 176 F 150			
Impeller	Enclosed 2-vane	T 150			
Impeller material	Stainless steel	E 125			
Ball valve material	Brass	E 125 120 TO 100 TO 1200 TO 150 TO 1			
Solid size managed	3"				
Wear rings	Replaceable	50 hp			
Ball bearing life	Heavy duty 50,000 hours	25 40 hp			
Shaft sleeve material	Stainless steel	0 25 hp			
Vacuum Pump	50 SCFM maximum	40			
Engine Specifications		flow pump can operate.			
Manufacturer	Hyundai	250 500 750 500 1250 1500 1750 2000 2250 2500 2750 3000			
Model	DM02	Design Point 500 gpm, 120 ft Efficiency Horse Power			
Emissions	Tier 4 - Final & Stage IIIB	/ 1750 gpm, 80 ft Emclency — — — Horse Power			

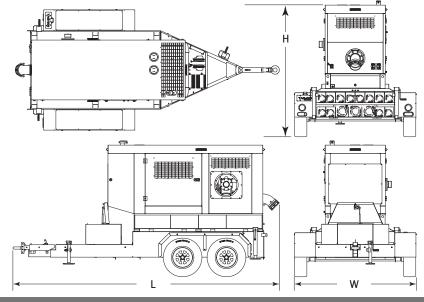
TPK6-FS Performance Table

Diesel Model: Hyundai D34 Pump Model: Cornell 6612TVA

Pump Details

Encl. Solids Handling	Adjustable Pac		ackage Dimensions	
Design Point min/max	1750gpm 160ft/1000 gpm 125' Inches and Poun		d Pounds	
Static Head	0 ft	Height	96.08	
Size	6612TVA	Length	194.30	
Diameter (inches)	12"	Width	88.36	
Speed	1782	Dry Weight	6027.5 lbs	

TPK6-FS Dimensions



Pump Specific Manufacturer Model # Type Priming Casing material Impeller Impeller material Ball valve materia Solid size manage Wear rings Ball bearing life Shaft sleeve mate Vacuum Pump

Engine Specifications	
Manufacturer	Hyundai
Model	DM02
Emissions	Tier 4 - Final & Stage IIIB
Crankshaft speed	1,800 rpm
Engine Type & Combustion	Diesel Direct Injection
Fuel Injection System	High Pressure Common Rail
Fuel Presssure	1800 bar
Aspiration	Turbo-Charged & Inter- cooled
Diesel fuel grade	EN590 : 2009 Diesel
Cylinder Arrangement	In-line 4
Displacement in ³ (liters)	208 (2.392)
Bore and stroke ins (mm)	3.85 X 4.45 (98 X 113)
Peak power hp (kW) @ 2400 rpm	130.0 (97.0)
Cooling	Water Cooled
Engine Control	Electronic Engine Manage- ment
Compression ratio	17.0:1

Standard Fump Fackage Arrangement		
Coupling	Close coupled cam and	
Arrangement	DOT trailer mounted	
Fuel tank	100 gallon mounted in base	
Starter and charging alternator	12V	
Controller	MPC20	
Exhaust	Mounted silencer	
Hose coupling	Aluminum 250 psi	
Site handling management	Lifting bale	
Options Offered for Pump Package		

options offered for Famp		achago	
	Sound attenuated enclosure	Aluminum powder coated	
	Hose box	Mounted on bed	
	Hose coupling option	Stainless steel	
	Auto switch operation options	Pressure/level/flow trans- ducer	

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