

SPECIFICATION SHEET

GENERAL BYPASS PUMP PACKAGE INFORMATION

TPC Model	Pump	Engine	Max. Solids	Fuel Tank	Suc. x Dis.
TH66-P	Cornell	Hyundai	3"	85 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" rental 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 TH66-P Pump Package Features are:

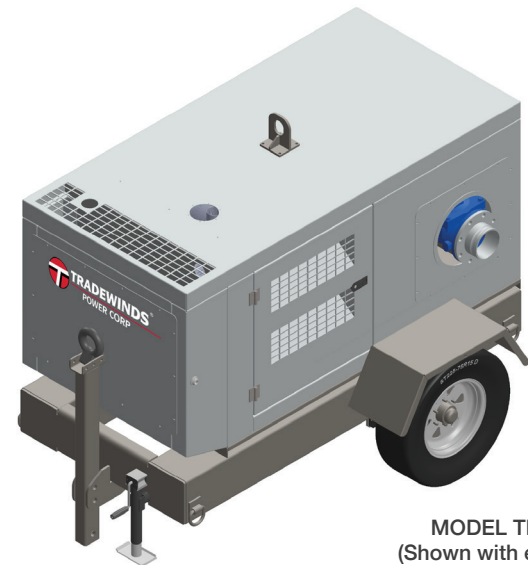
- CORNELL model 6612T-EM16-4 bypass pump
- HYUNDAI diesel engine
- EPA and CARB certified for mobile applications
- DOT trailer for with electric breaks for road and rough terrain mobility
- Heavy duty lifting bale with forklift pockets at rear
- 12v starter, charger and battery
- Auto start controller
- Open configuration with option for enclosure
- Two part epoxy coating that lasts longer than paint
- Torque spring axles for smoother equipment ride
- 85 gallon fuel tank with mechanical fuel level guage and brass collar for lockable vented fuel fill cap.
- All stainless steel hardware

Pump Features:

- 6" discharge x 6" suction with 125# cast iron flanges with 6" camlock fittings added to both suction and discharge
- 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
- Pump is equipped with a run dry seal so that the pump can run without water on the seals.
- Pump is provided with a discharge valve

Optional Equipment Available for TH66-P 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



MODEL TH66-P
 (Shown with enclosure option)

Optional Equipment. Continued:

- Options for flow meters and level transducers
- Suction and discharge hoses with stainless steel couplings
- Push up lights and service lights.

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
- Unit shipped with float balls
- Controller is equipped with many timers which allow for proper priming, ramping, deceleration, and cool down.



MPC-10
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.

TH66-P Performance Curve

Pump Specifications

Manufacturer	Cornell
Model #	6612T-EM16-4
Type	6" discharge x 6" suction
Priming	Vacuum Assist
Casing material	Cast iron
Impeller	Enclosed 2-vane
Impeller material	Stainless steel
Ball valve material	Brass
Solid size managed	3"
Wear rings	Replaceable
Ball bearing life	Heavy duty 50,000 hours
Shaft sleeve material	Stainless steel
Vacuum Pump	50 SCFM maximum

Engine Specifications

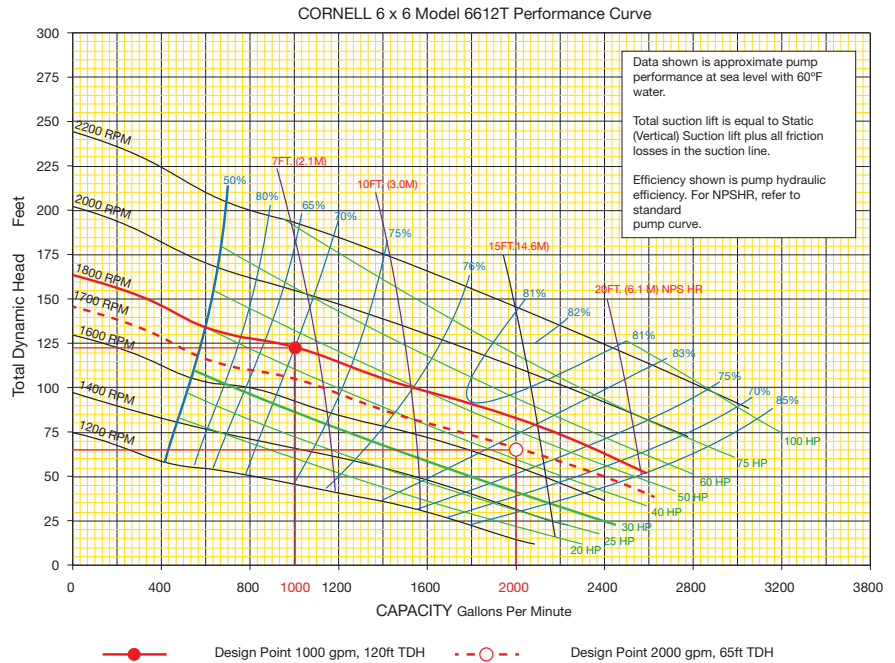
Manufacturer	HYUNDAI
Model	D18
Emissions	Tier 4 - Final & Stage IIIB
Crankshaft speed	2600 rpm
Engine Type & Combustion	Diesel Direct Injection
Fuel Injection System	High Pressure Common Rail
Fuel Pressure	1800 bar
Aspiration	Turbo-Charged & Intercooled
Diesel fuel grade	EN590 : 2009 Diesel
Cylinder Arrangement	In-line 3
Displacement in ³ (liters)	156 (1.794)
Bore and stroke ins (mm)	3.54 X 3.70 (90 X 94)
Peak power hp (kW) @ 2600 rpm	49.0 (36.6.)
Cooling	Water Cooled
Engine Control	Electronic ECU
Compression ratio	17.0:1

Standard Pump Package Arrangement

Coupling	SAE mounting
Arrangement	DOT trailer mounted
Fuel tank	85 gallon mounted in base
Starter and charging alternator	12V
Controller	MPC10
Exhaust	Mounted silencer
Hose coupling	Aluminum 250 psi
Site handling management	Lifting bale

Options Offered for Pump Package

Sound attenuated enclosure	Aluminum powder coated
Hose coupling option	Stainless steel
Auto switch operation options	Pressure/level/flow transducer
Flow meters	To track water pumped
Level Transducers	To measure height of water



TH66-P Performance Table

Diesel Model: HYUNDAI D18

Pump Model: Cornell 6612T-EM16-4

Pump Details

Encl. Solids Handling	3" Maximum	Package Dimensions	
Design Point min/max	1000 gpm @ 125' TDH @ 1800rpm	Inches and Pounds	
	2000 gpm @ 65' TDH @ 1700rpm		
Static Head	0 ft	Height	67.49
Size	6612T-EM16-4	Length	96.00
Diameter (inches)	12"	Width	72.27
Speed	1800	Dry Weight	4,815 lbs

TH66-P Dimensions

