PRODUCT DATA SHEET

CORNELL PUMP COMPANY

750 - 3500 GPM **Model 6NHTB** 100 - 325 Feet TDH

STANDARD SPECIFICATION

Discharge - 6 inch discharge
Suction - 10 inch suction
Impeller - Enclosed, threaded, 2 vane: handles 3.38" solids
Volute - Right hand tangential discharge, eight positions
Mechanical Seal or Traditional Packing - Single type 2 tungsten silicon mechanical seal: Cycloseal® design, Run-dry available
Materials of Construction
- Cast iron casing, cast iron impeller
- Other materials available

MOUNTING OPTIONS

- **Frame Mount**
  Cornell F18
  Cornell F18DB
- **Engine Bracket**
  Cornell EM18 (SAE 1, 2, 3, 4)
  Cornell EM18DB (SAE 1, 2, 3, 4)
- **Oil Filled Bearing Frame**
  – Optional
- **Redi-Prime Self Priming System**
  – Optional

AVAILABILITY

- ***Quick Ship***
  – Finished Product Regularly Stocked (48 Hours)
- **Preferred Pump**
  – Finished Components Regularly Stocked (10 business days)
- **Specialty Pump**
  – Cornell Pump Company will design and manufacture a variation of this pump specifically designed for your application

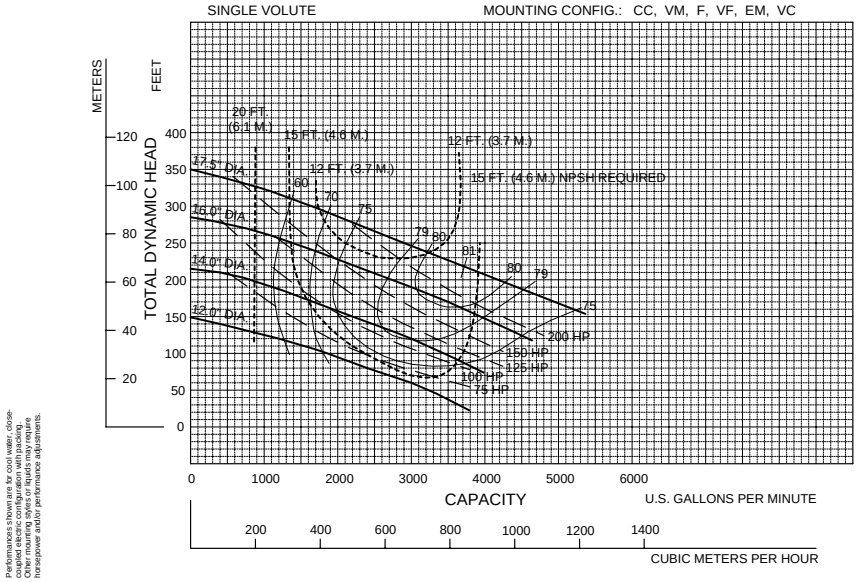
FEATURES & BENEFITS

- **Cornell's Tradition of Excellence:**
  - **Highest Quality Products**
  - **Experience**
    - Over 50 years in the centrifugal pump business
  - **Optimum Hydraulics**
    - In house engineering staff and test lab facilities
  - **Strong Local Dealer Support**
    - Our agricultural products are sold only through authorized dealerships
    - Dealerships provide full service to customers from sales to replacement parts
    - Dealers maintain and improve their knowledge at educational activities like Cornell's "Pump School"
- **Exceptional Design:**
  - **Efficiency**
    - Effectively converts energy into fluid flow and pressure
  - **Long Product Life**
    - Thick walled castings
    - Heavy duty shafts
    - 20,000 hour bearings
    - Replaceable wear rings and shaft sleeves

PERFORMANCE CURVES

6 NHTB
Various RPM

Speed	Impeller Dia.	Style	Solids Dia.	N_S	Suction	Discharge	No. vanes
1770	VARIOUS	ENCLOSED	3.38"	1880	10"	6"	2



Note:
Curves also available in 1800 and 1200 RPM

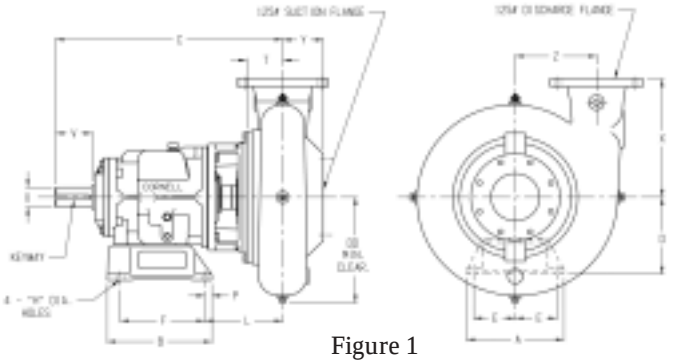


Figure 1

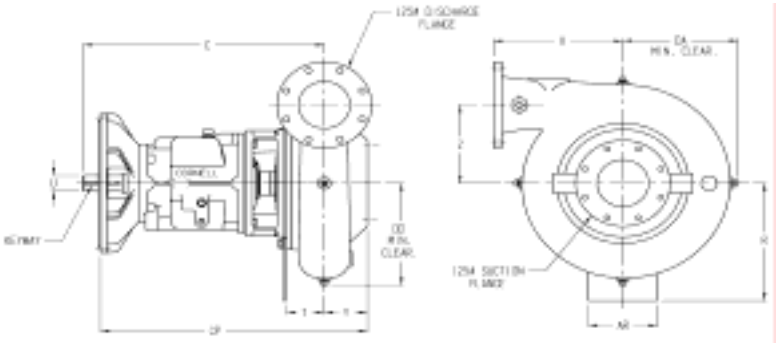
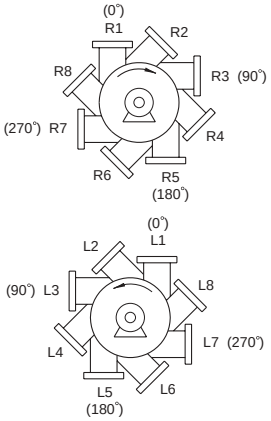


Figure 2



PUMP DIMENSIONS

MOUNT	Fig.	A	AR	B	C	CP	D	DA	DD	E	F	H	L	LP	P	R	T	U	V	X	Y	Z	KEYWAY
F18	1	12	-	12.88	28.44	-	10.5	-	13.12	5.12	10.38	0.81	10.09	-	0.88	-	4.41	2.5	4.5	15.5	5	10.25	.62 X .31
EM18	2	-	6	-	28.44	31.44	-	13.12	13.12	-	-	-	-	-	-	19.38	4.41	2.5	-	15.5	5	10.25	.62 X .31

Cornell Pump Company
P.O. Box 6334 • Portland, Oregon 97228-6334
Web: www.cornellpump.com • Phone (503) 653-0330 • Fax (503) 653-0338

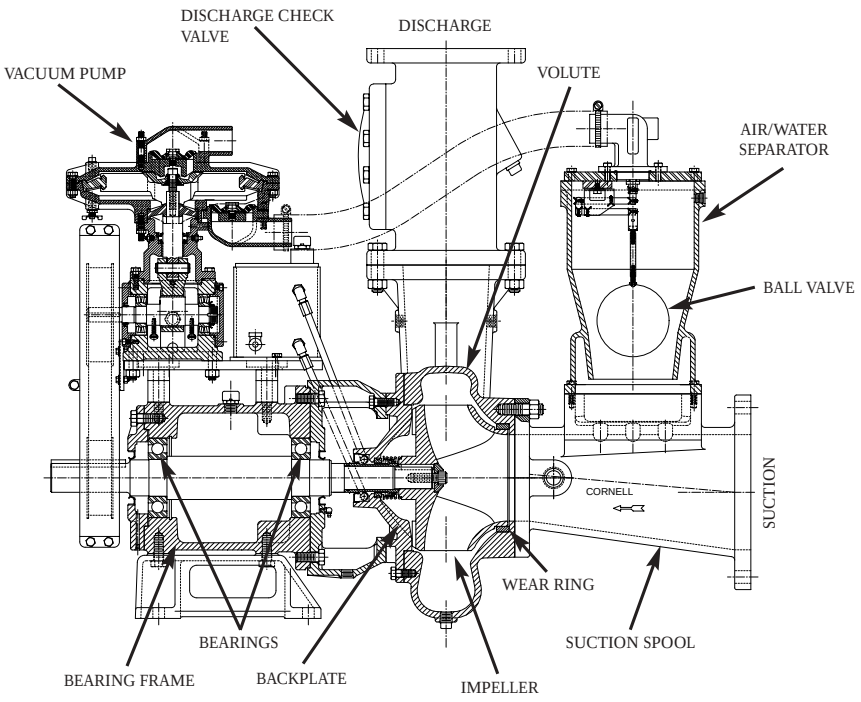
PRODUCT DATA SHEET

CORNELL PUMP COMPANY

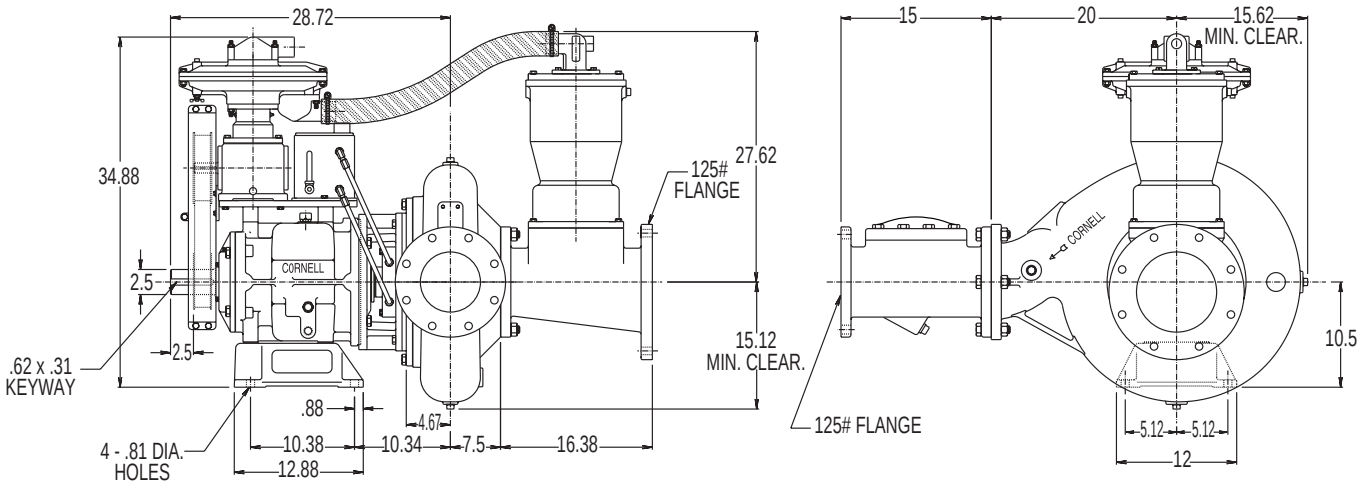
Model 6NHTB-F Redi-Prime®

PUMP SPECIFICATIONS

- **Size:** 6NHTB - 6" discharge x 10" suction with 125# cast iron flanges.
- **Casing:** Cast Iron.
- **Impeller:** Enclosed - 2 vane. Handles 3.38" diameter solids.
- **Wear Rings:** Replaceable. (Double wear rings available).
- **Seal:** Cornell's patented Cycloseal® design with Run-Dry oil lubrication system. John Crane T-2 single mechanical seal with Viton® elastomers, stainless steel hardware and tungsten- vs. silicon-carbide seal faces for abrasion resistance.
- **Check Valve:** SwingFlex® Val-Matic®.
- **Shaft Sleeve:** Heat treated 416 stainless steel.
- **Bearings:** Heavy duty, grease lubricated, deep groove ball bearings, with a minimum of 50,000 hours bearing life.
- **Hardware:** Stainless steel float linkage. A positive seating vacuum priming valve prevents water carry-over to the vacuum, pump or atmosphere.
- **Vacuum Pump -** 50 SCFM Maximum.



PUMP DIMENSIONS



NOTES:

1. Frame mounting foot thickness is .75".
2. Flange connection dimension can vary ± .12 inch.
3. Do not use for construction unless certified.

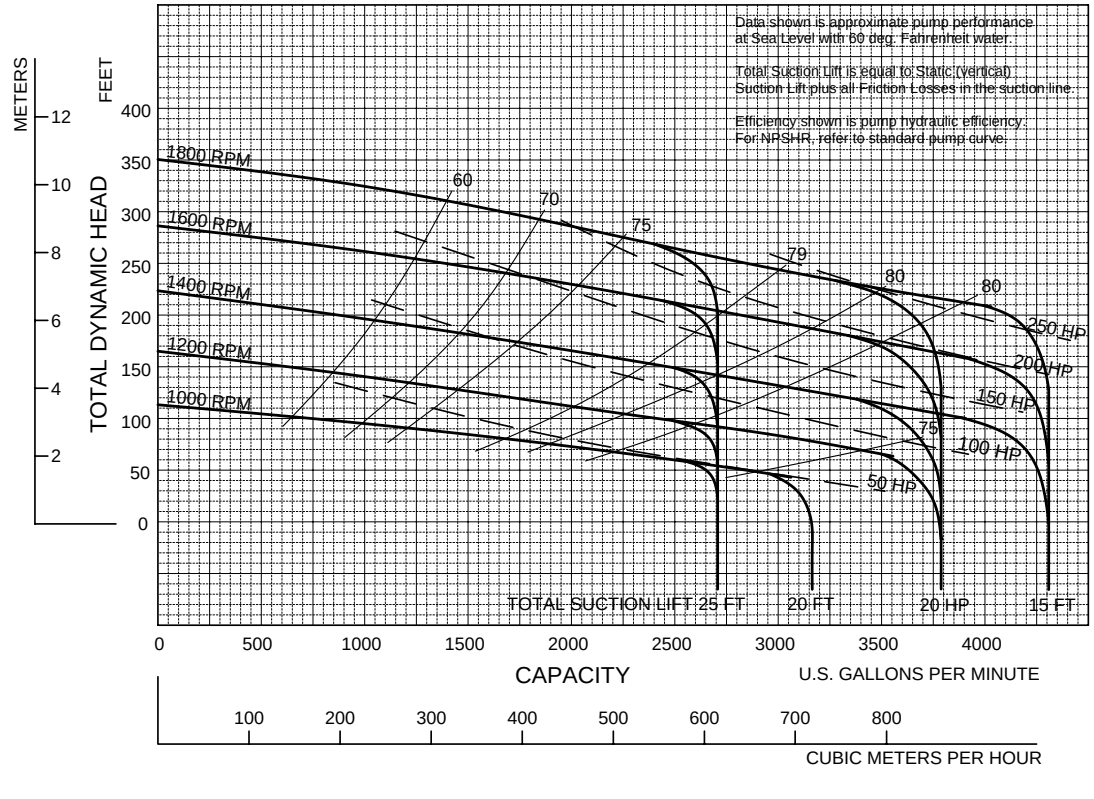
PERFORMANCE CURVES

Feet x .305 = Meters
Inches x 25.4 = Millimeters
GPM x .227 = Cubic Meters/Hour
GPM x 3.785 = Liters/Minute
HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N_S	Suction	Discharge	No. vanes
VARIOUS	17.50"	ENCLOSED	3.38"	1880	10"	6"	2

SINGLE VOLUTE

MOUNTING CONFIG.: F, EM



Add 1.5 HP for belt driven diaphragm vacuum pump. Performance curve does not include discharge check valve losses.

Performances shown are for cool water, frame mounted configuration with Cycloseal.© Other liquids, seal arrangements or mounting configurations may require performance adjustments.

4/4/02

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ISO9001:2000 CERTIFIED

PRODUCT DATA SHEET

CORNELL PUMP COMPANY

Model 6NHTB-EM Redi-Prime®

PUMP SPECIFICATIONS

- **Size:** 6NHTB - 6" discharge x 10" suction with 125# cast iron flanges.
- **Casing:** Cast Iron.
- **Impeller:** Enclosed - 2 vane. Handles 3.38" diameter solids.
- **Wear Rings:** Replaceable. (Double wear rings available).
- **Seal:** Cornell's patented Cycloseal® design with Run-Dry oil lubrication system. John Crane T-2 single mechanical seal with Viton® elastomers, stainless steel hardware and tungsten- vs. silicon-carbide seal faces for abrasion resistance.
- **Check Valve:** SwingFlex® Val-Matic®.
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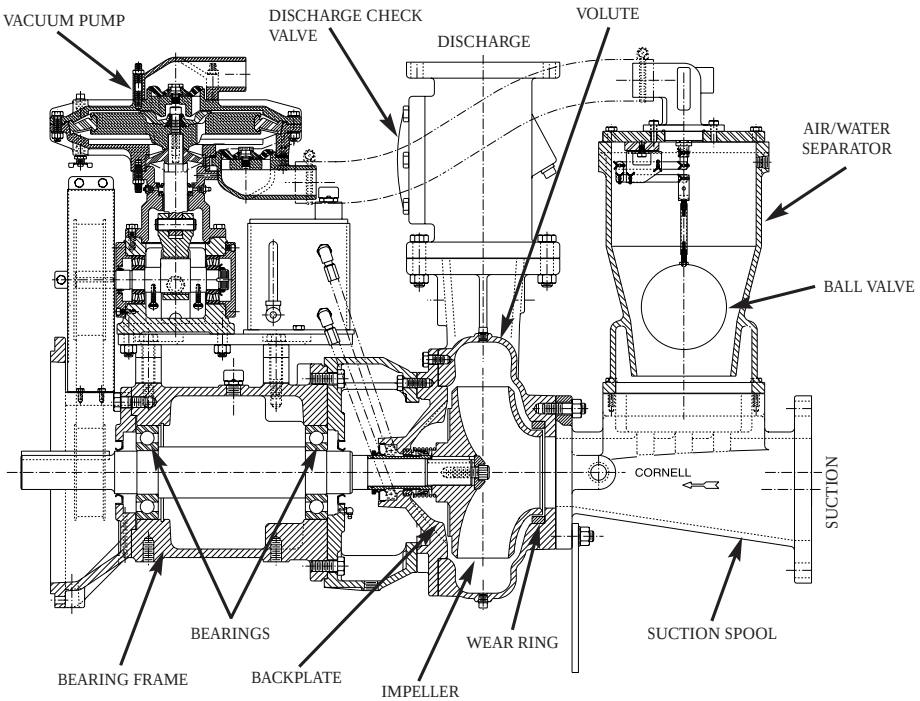
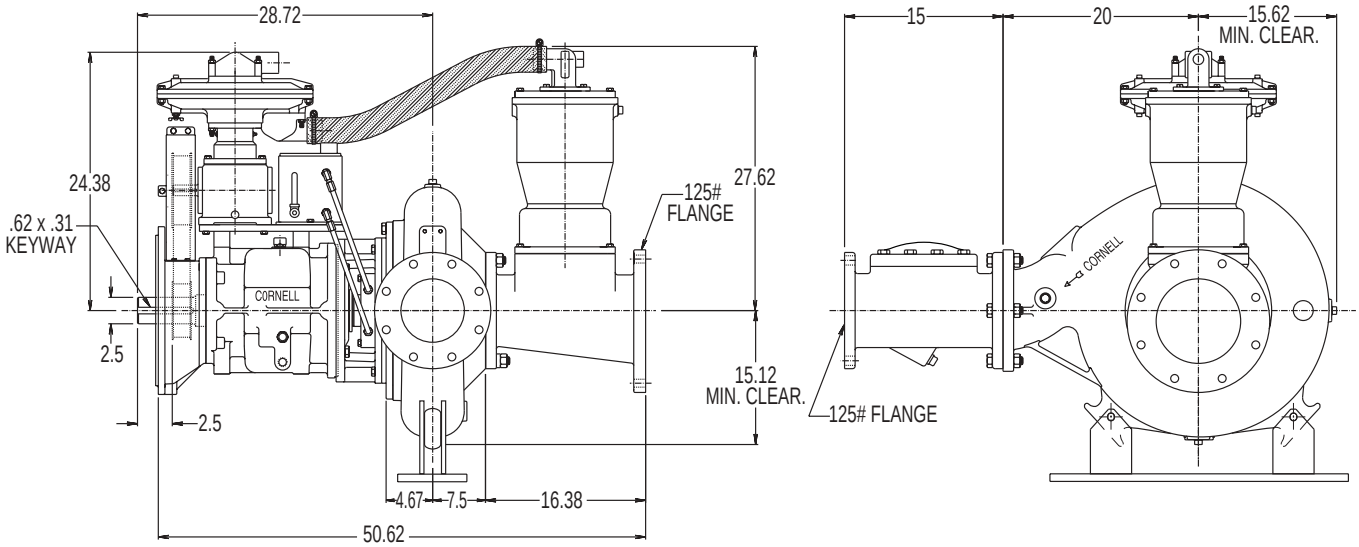


PUMP DIMENSIONS



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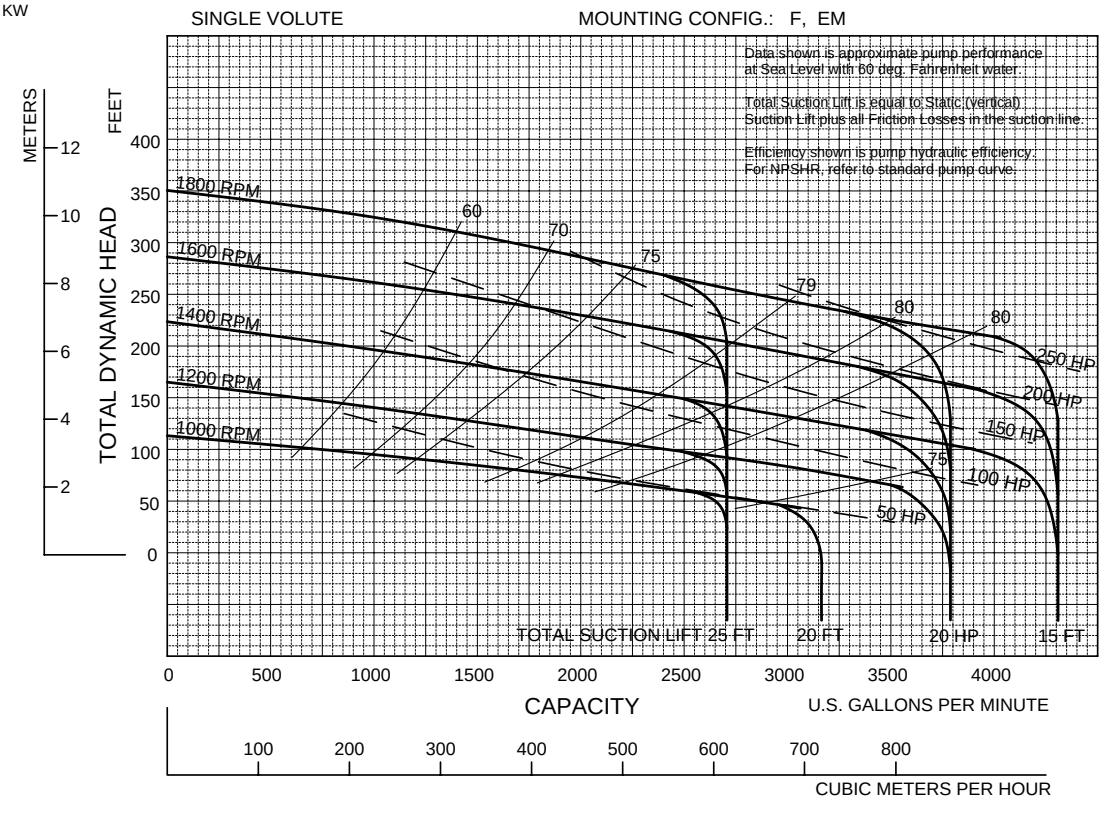

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