

**CORNELL PUMP COMPANY**400 - 1200 GPM **Model 4414T** 75 - 325 Feet TDH**STANDARD SPECIFICATION**

Discharge - 4 inch discharge

Suction - 4 inch suction

Impeller - Enclosed, threaded, 2 vane: handles 3" solids

Volute - Right and left hand tangential discharge, eight positions (twelve positions for F18 and engine mount pumps)

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

- **Close Coupled Electric**
 - Cornell's Energy Efficient Design
- **Frame Mount**
 - Cornell F16
 - Cornell F18
 - Cornell F18DB
- **Engine Bracket**
 - Cornell EM18 (SAE 1, 2, 3, 4)
 - Cornell EM18DB (SAE 1, 2, 3, 4)
- **Oil Filled Bearing Frame**
 - Available
- **Redi-Prime Self Priming System**
 - Available

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

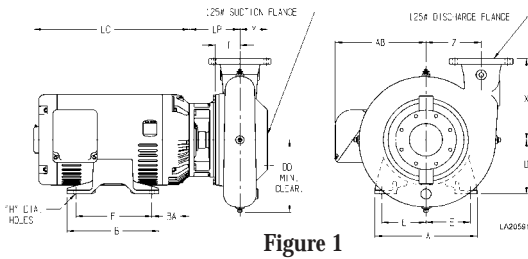
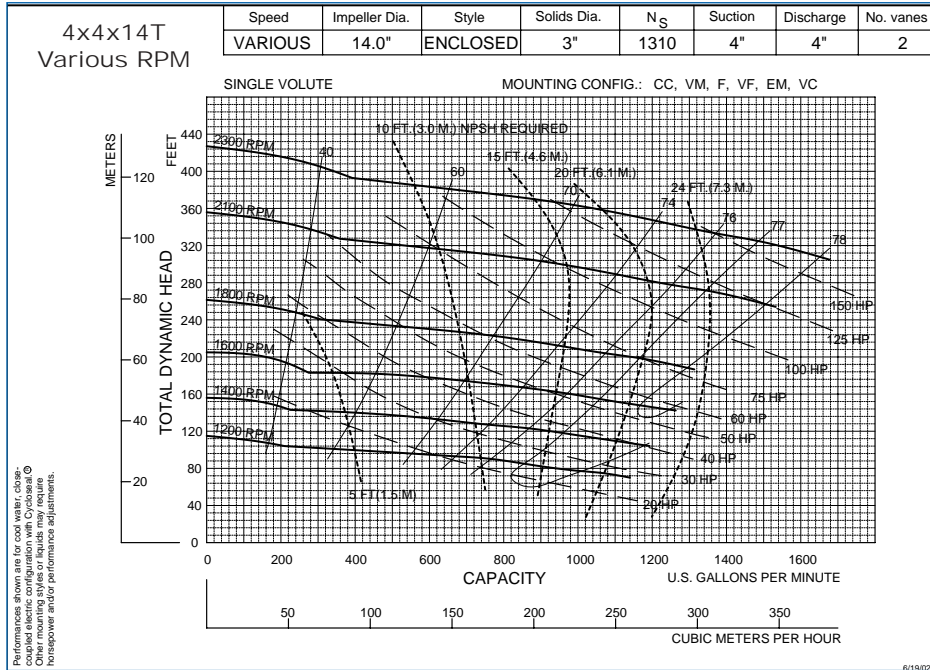


Figure 1

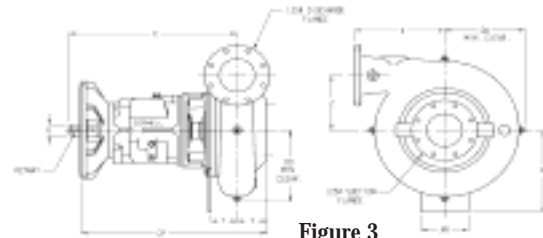


Figure 3

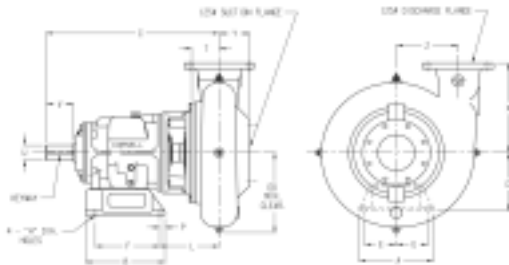
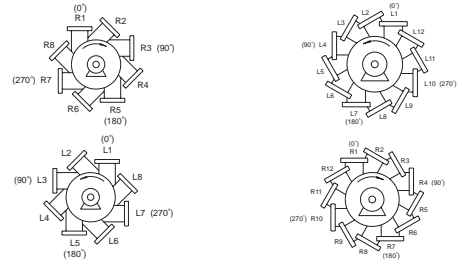


Figure 2



All configurations

F18 and Engine mount only

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
CC	1	-	-	-	-	-	-	-	11.31	-	-	-	-	9.25	-	-	3.81	-	-	11	4.75	9.25	-
CC	1	-	-	-	-	-	-	-	11.31	-	-	-	-	8.49	-	-	3.94	-	-	11	4.75	9.25	-
F16	2	12	-	12.88	26.5	-	9.75	-	11.31	5.12	10.38	0.81	8.62	-	0.88	-	3.94	2	4.5	11	4.75	9.25	.50 X .25
F18	2	12	-	12.88	27.5	-	10.5	-	11.31	5.12	10.38	0.81	9.12	-	0.88	-	3.34	2.5	4.5	11	4.75	9.25	.62 X .31
EM18	3	-	8	-	27.5	30.25	-	11.31	11.19	-	-	-	-	-	-	14.42	3.94	2.5	-	11	4.75	9.25	.62 X .31

MOTOR DIMENSIONS

MOTOR FRAME	AK DIM.	A	B	D	E	F	H	AB	BA	LC
213-5	8.5	9.5	8	5.25	4.25	7	0.41	7.94	4.5	13.69
254-6	8.5	11.25	11.25	6.25	5	10	0.53	9.5	5	17.94
284-6	12.5	12.25	12.25	7	5.5	11	0.53	11.37	5	21.31
324-6	12.5	14.25	13.75	8	6.25	12	0.66	12.22	5.5	22.19
364-5	12.5	15.75	14	9	7	12.25	0.66	13.2	6.12	24.31
404-5	12.5	18.49	16.62	10	8	13.75	0.81	16.39	6.88	28.22

Cornell Pump Company

P.O. Box 6334

Portland, Oregon 97228-6334

Web: www.cornellpump.com

Phone: (503) 653-0330 • Fax: (503) 653-0338

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