

**CORNELL PUMP COMPANY**

100 - 400 GPM

**3 YH**

75 - 200 Feet TDH

**STANDARD SPECIFICATION****Discharge** - 3 inch flanged discharge**Suction** - 4 inch flanged suction**Balance Line** - Stainless steel flexible line**Impeller** - Enclosed cast iron**Volute** - Right hand tangential discharge, four positions**Mechanical Seal or Traditional Packing** - Single type 1 carbon ceramic mechanical seal: Cyclo Seal® design, Run-dry available**Footprint** - Matches Cornell's historical 3YB**Materials of Construction**

- Cast iron bronze fitted
- Other materials available

**PURCHASE OPTIONS****• Complete Pump**

- Fully assembled at the factory
- Ready to go to the field

**• Pump End Kit**

- Finished components
  - PrePainted

Easy assembly

- Common tools
- Simple instructions

Obtain drives locally or through Cornell

**MOUNTING OPTIONS****• Close Coupled Electric**

- Standard JP motor shaft
  - Standard Efficiency
  - Cornell's Energy Efficient Design

**• Frame Mount**

Cornell F85

**• Engine Bracket**

- Cornell EM309 (SAE 5)
- Cornell EM85 (SAE 3 and 4)

**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"

**• Economically Priced:**

- Component Design**
  - Efficient manufacturing through increased volume of common parts
- Versatility**
  - The ability to mix and match components reducing local inventory of both parts and wholegoods with a wide variety of pumps and mounting configurations for the customer

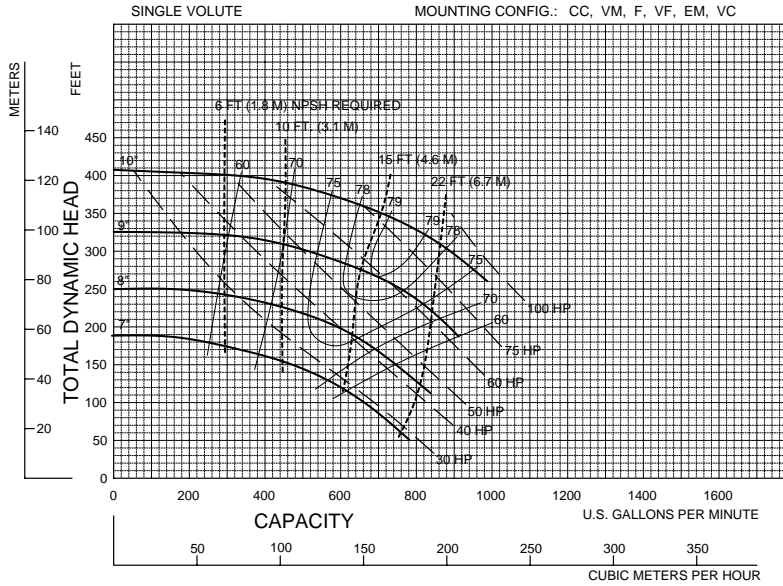
**• Exceptional Design:**

- 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
  - Reduced thrust load through design and balance lines where appropriate

# PERFORMANCE CURVES

**3 YH**  
**3600 RPM**

Speed	Impeller Dia.	Style	Solids Dia.	N <sub>S</sub>	Suction	Discharge	No. vanes
3540	VARIOUS	ENCLOSED	.5"	1225	4"	3"	6



Performances shown are for cool water, close-coupled electric configuration with Cycloset® horsepower and/or performance adjustments.

01/23/01

**Note:**  
Curves also available in 1800 and various RPM

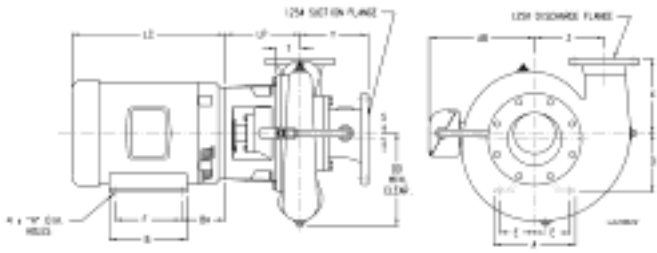


Figure 1

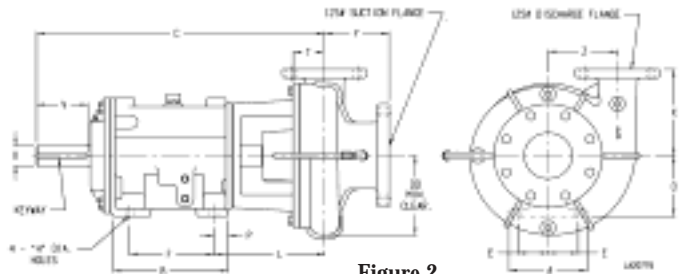


Figure 2

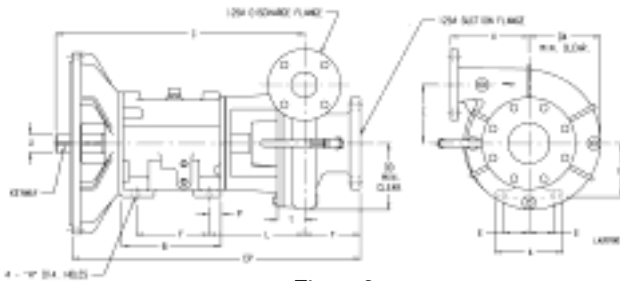
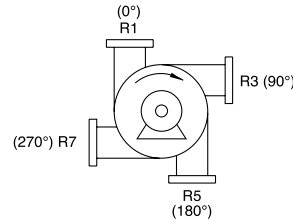


Figure 3



## PUMP DIMENSIONS

MOUNT	AK	Fig.	A	B	C	CP	D	DA	DD	E	F	H	L	P	T	U	V	X	Y	Z	LP	KEYWAY
CC	8.5	1	-	-	-	-	-	-	7.39	-	-	-	-	-	2.59	-	-	7	5.38	6.5	7.44	-
	12.5	1	-	-	-	-	-	-	7.39	-	-	-	-	-	2.59	-	-	7	5.38	6.5	7.44	-
F85	-	2	6.5	9.52	24.28	-	5.25	-	7.39	2.5	7	0.69	9.19	1.16	2.59	2	4.81	7	5.38	6.5	-	.50 X .25
EM85	-	3	6.5	9.52	24.28	27.66	5.25	7.39	7.38	2.5	7	0.69	9.19	1.16	2.59	2	-	7	5.38	6.5	-	.50 X .25
EM309	-	-	-	-	17.67	21.68	-	-	7.39	-	-	-	-	-	2.59	1.25	-	7	5.38	6.5	-	.25 X .12

## MOTOR DIMENSIONS

MOTOR FRAME	AK DIM.	A	B	D	E	F	H	AB	BA	LC
143-5	4.5	6.5	5.94	3.5	2.75	5	0.34	5.62	2.88	10
182-3	4.5	8.62	6.5	4.5	3.75	5.5	0.41	6.75	3.5	12.25
	8.5	8.62	6.5	4.5	3.75	5.5	0.41	6.75	3.5	12.25
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	18.5	16.62	10	8	13.75	0.81	16.39	6.88	29.97

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