

**INTERTECH PUMP COMPANY**

200 - 1100 GPM

**3 YL**

150 - 300 Feet TDH

**STANDARD SPECIFICATION**

**Discharge** - 3 inch threaded discharge

**Suction** - 4 inch threaded suction

**Impeller** - Enclosed bronze

**Volute** - Right hand tangential discharge, four positions

**Mechanical Seal or Traditional Packing** - Single type 1 carbon ceramic mechanical seal: Cycloseal® design, Run-dry available

**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 Aquarius

**MOUNTING OPTIONS**

• **Close Coupled Electric**

Standard JP motor shaft

- Standard Efficiency
- InterTech's Energy Efficient Design

• **Frame Mount**

InterTech F85

• **Engine Bracket**

InterTech EM309 (SAE 5)  
InterTech EM85 (SAE 3 and 4)

**FEATURES & BENEFITS**

• **InterTech'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 Aquarius'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 whole goods with a wide variety of pumps and mounting configurations for the customer

• **Exceptional Design:**

• **Efficiency**

- Effectively converts energy into fluid flow and pressure

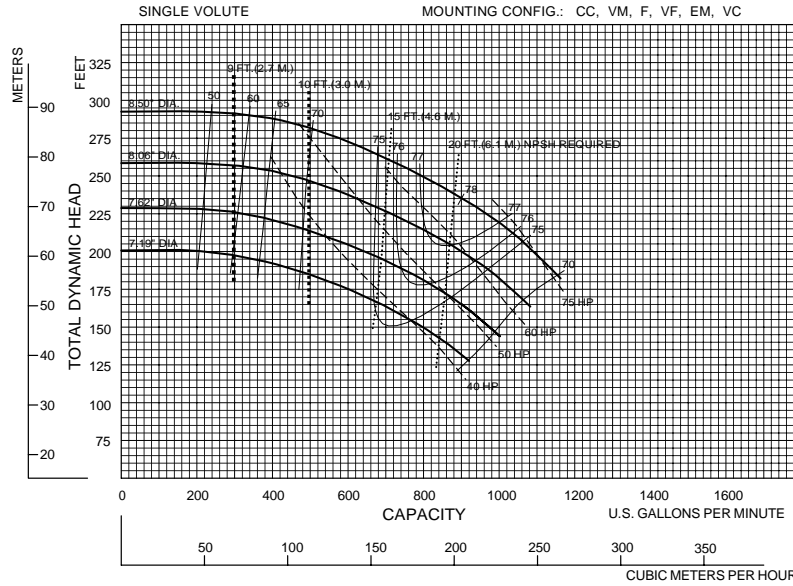
• **Long Product Life**

- 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 YL  
3600 RPM**

Speed	Impeller Dia.	Style	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. vanes
3525 RPM	VARIOUS	ENCLOSED	.50"	1750	4"	3"	6



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

Performance shown is for each motor. Some coupled electric combination with packing. Other mounting styles or fluids may require horsepower and/or performance adjustments.

01/00

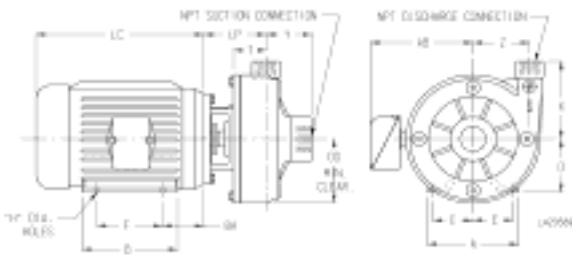


Figure 1

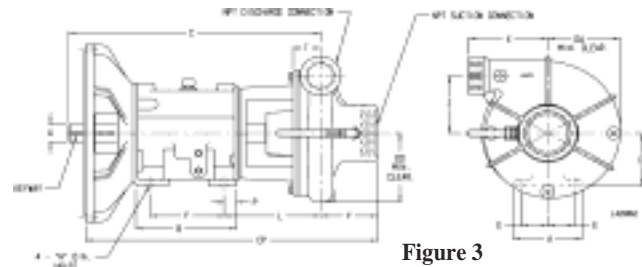


Figure 3

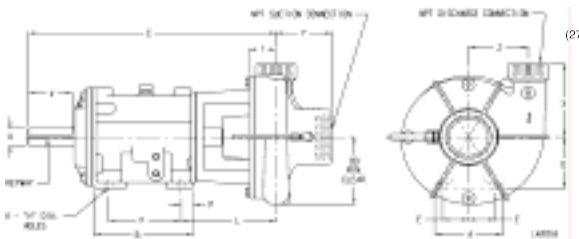


Figure 2

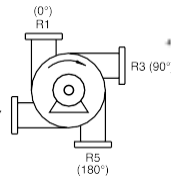


Figure 4

## PUMP DIMENSIONS

MOUNT	AK	Fig.	A	B	C	CP	D	DA	DD	E	F	H	L	P	T	U	V	X	Y	Z	LI	KEYWAY
CC	8.5 12.5	1 1	- -	- -	- -	- -	- -	- -	7.62 7.62	- -	- -	- -	- -	- -	2.78 2.78	- -	- -	8.35 8.35	4.81 4.81	6.5 6.5	7.63 7.63	- -
F85	-	2	6.5	9.52	24.47	-	5.25	-	7.62	2.5	7	0.69	9.38	1.16	2.78	2	4.81	8.35	4.81	6.5	-	.50 X .25
EM85	-	3	6.5	9.52	24.47	27.28	5.25	7.62	7.25	2.5	7	0.69	9.38	1.16	2.78	2	-	8.35	4.81	6.5	-	.50 X .25
EM309	-	4	-	-	17.87	21.31	-	-	7.62	-	-	-	-	-	2.78	1.25	-	8.35	4.81	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	16.35	6.88	29.97

InterTech Pump Company

ISO9001:2000 CERTIFIED