

GEMSTONE PUMP COMPANY

100 - 250 GPM

1.5 YH

200 - 400 Feet TDH

STANDARD SPECIFICATION

Discharge - 1.5 inch threaded discharge

Suction - 2 inch threaded suction

Impeller - Enclosed cast iron

Volute - Right hand tangential discharge, four

positions

Mechanical Seal or Traditional Packing - Single

type 1 carbon ceramic mechanical seal: Cycloseal®

design, Run-dry available

Footprint - Matches Cornell's historical 1.5Y

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 Gemstone

MOUNTING OPTIONS

- Close Coupled Electric Standard JP motor shaft
 - Standard Efficiency Gemstone's Energy
 Efficient Design
- Frame Mount

Gemstone F5

Gemstone F85

Engine Bracket Gemstone EM5 (SAE 5)
 Gemstone EM309 (SAE 5) Gemstone
 EM85 (SAE 3 and 4)



FEATURES & BENEFITS

- Gemstone'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 Gemstone'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:

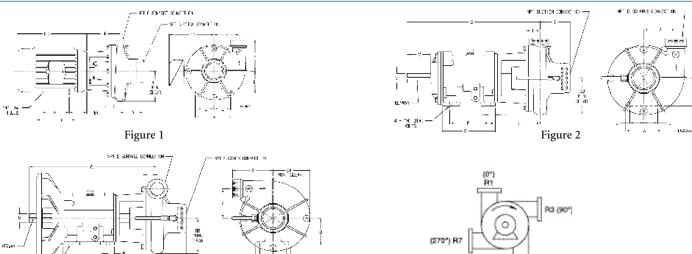
Efficiency

- 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 Discharge No. vanes 1.5 YH 3600 RPM 3525 VARIOUS ENCLOSED 2.0" 1.5" 660 METERS -140 Note: Curves also available in DYNAMIC 1800 and various RPM TOTAL 120 150 CAPACITY 300 350 U.S. GALLONS PER MINUTE 100 110 CUBIC METERS PER HOUR



PUMP DIMENSIONS																						
MOUNT	AK	Fig.	Α	В	С	СР	D	DA	DD	Е	F	Н	L	Р	T	U	V	Х	Υ	Z	LP	KEYWAY
CC	4.5	1	-	-	-	-	-	-	6.38	-	-	-	-	-	3.15	-	-	6.5	3.47	5.5	7.19	-
	8.5	1	-	-	-	-	-	-	6.38	-	-	-	-	-	3.15	-	-	6.5	3.47	5.5	8	-
	12.5	1	-	-	-	-	-	-	6.38	-	-	-	-	-	3.15	-	-	6.5	3.47	5.5	8	-
F5	-	2	7.5	7.36	18.62	-	5.5	-	6.38	2.62	4.5	0.56	8.78	1.44	-	1.25	3	6.5	3.47	5.5	-	.25 x .12
F85	-	2	6.5	9.52	24.45	-	5.25	-	6.38	2.5	7	0.69	9.72	1.16	3.15	2	4.81	6.5	3.47	5.5	-	.50 X .25
EM5	-	-	7.5	7.36	18.62	21.72	5.5	8.25	6.38	2.62	4.5	0.56	8.78	1.44	-	1.25	-	6.5	3.47	5.5	-	.25 X .12
EM85	-	-	6.5	9.52	24.45	26.31	5.25	6.38	6.38	2.5	7	0.69	9.75	1.16	3.15	2	-	6.5	3.47	5.5	-	.50 X .25
EM309	-	-	-	-	18.23	20.33	-	-	6.38	-	-	-	-	-	3.15	1.25	-	6.5	3.47	5.5	-	.25 X .12

MOTOR DIMENSIONS													
MOTOR FRAME	AK DIM.	A	В	D	E	F	Н	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			

Figure 3

Gemstone Pump Company

IS09001:2000 CERTIFIED