



# CORNELL PUMP COMPANY

## W Series - Horizontal Close Coupled

### STANDARD SPECIFICATION

**Sizes Available:** 1W, 1.25W, 1.25WO, 1.5W, 1.5WO, 2W, 2.5WB, 2.5WO, 3WB, 3WO, 4WB, 4WO, 5WB, 5WBH

**Discharge Size** - 1 inch - 5 inch

**Casing** - cast iron ASTM A48, Class 30

**Wear Rings** - bronze SAE 660

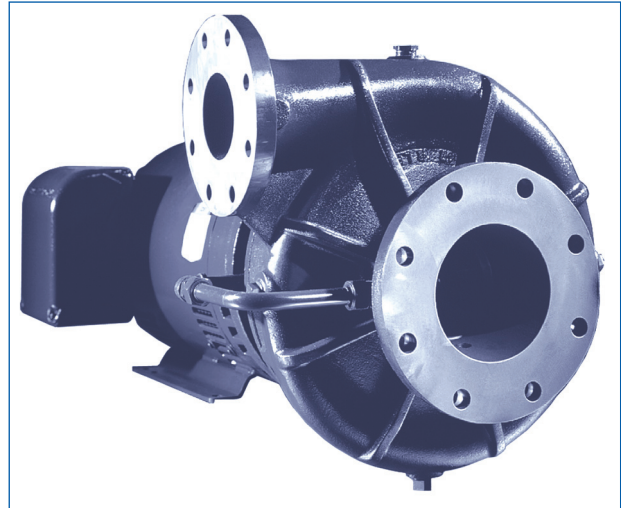
**Impeller** - bronze SAE 40

**Backplate** - cast iron ASTM A48, Class 30

**Shaft Sleeve** - bronze SAE 660

**Sealing Arrangement** - packing

Other materials of construction and sealing options available.



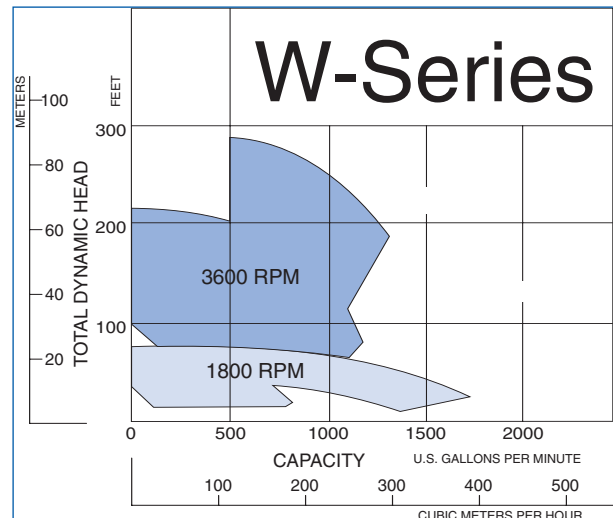
### FEATURES AND BENEFITS

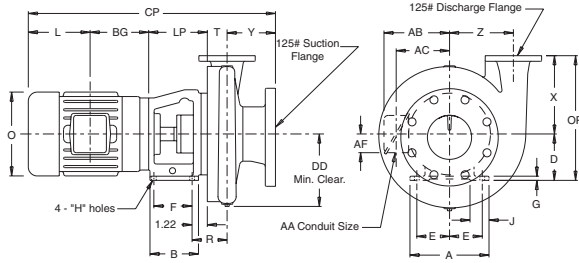
- Suited for small flow capacity (GPM) with medium head (pressure)
- Flows to 1900 GPM/430 CuM/Hr
- Pressures to 295 TDH/90 M
- Standard cast iron, bronze fitted construction
- External hydraulic balance line
- Back pullout
- Double volute (on 5WBH model only)
- High efficiency hydraulics
- Low operating cost
- Two year warranty

### TYPICAL APPLICATIONS

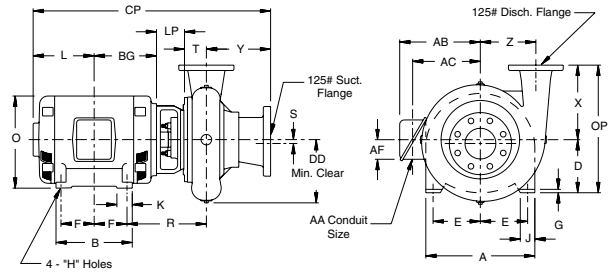
- |                      |                      |                      |                       |                      |
|----------------------|----------------------|----------------------|-----------------------|----------------------|
| • Aquaculture        | • Dow therm trans    | • Golf course        | • Irrigation          | • Storm water        |
| • Boiler feed        | • Drip irrigation    | • Gun system         | • Linear              | • Surface irrigation |
| • Brine              | • Dust reduction     | • Grey water         | • Log pile irrigation | • Tail water return  |
| • Chilled water      | • End gun booster    | • Hard hose traveler | • Micro spray         | • Turf               |
| • Condenser spray    | • Flood irrigation   | • Hot cooking oil    | • Mining              | • Water              |
| • Construction       | • Food plant process | • Impact sprinkler   | • Petroleum           | • Water booster      |
| • Cooling tower      | • Frost protection   | • Industrial process | • Pivot               | • Water transfer     |
| • Dewatering systems | • Glycol             | • Industrial sludge  | • Power plant         | • Wheel line         |
|                      |                      | • Industrial waste   | • Pulp and paper      |                      |

Cycloseal® (patent #5489187)

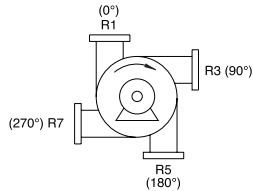




NEMA Frame 143T and 145T



Dimensions CP, OP, and R can be determined after selection of pump and motor.



Discharge positions viewed from drive end

Consult factory for availability of other discharge positions.

For 125# flange dimensions, see insert sheet ("American National Standard Institute Standards For Cast Iron Pipe Flanges").

## PUMP DIMENSIONS

Model	Connection			DD	S	T	X	Y	Z	LP
	Disch.	Suct.	Type							
1W	1	2	THRD.	5.62	-	2.88	5.75	3.16	4.00	4.56
1.25W	1.25	1.5	THRD.	5.75	-	2.50	4.06	3.47	3.75	4.56
1.25WO	1.25	1.5	THRD.	5.75	-	2.50	4.06	2.22	3.75	4.56
1.5W	1.5	2	THRD.	6.38	-	2.50	5.00	3.53	4.50	4.56
1.5WO	1.5	2	THRD.	6.38	-	2.50	5.00	2.78	4.50	4.56
2W	2	2.5	THRD.	6.38	-	2.62	5.12	3.91	4.12	4.56 (A)
2.5WB	2.5	3	FLG.	5.62	-	2.62	5.69	4.28	4.25	4.56 (A) (B)
2.5WO	2.5	3	FLG.	5.62	-	2.62	5.69	4.28	4.25	4.56
3WB	3	4	FLG.	5.81	-	2.62	6.00	4.75	4.50	5.38
3WO	3	4	FLG.	5.81	-	2.62	6.00	4.78	4.50	5.38
4WB	4	5	FLG.	7.50	-	2.75	7.50	5.03	4.75	5.25
4WO	4	5	FLG.	7.50	-	2.75	7.50	5.09	4.75	5.25
5WB	5	6	FLG.	9.00	0.50	2.38	9.75	6.66	5.50	5.25
5WBH	5	8	FLG.	12.38	0.44	3.72	7.75	10.28	7.88	5.25 (C)

Do not use for construction unless certified.

Flange connection dimension can vary by  $\pm .12$  inch.

(A) For 213T and larger motor frame, LP = 5.38

(B) For 182T and larger motor frame at 4 pole speed, LP = 5.38

(C) For 326T and larger motor frame, LP = 8.25

## MOTOR DIMENSIONS

NEMA FRAME	A	B	D	E	F	G	H	J	K	L	O	AA	AB	AC	AF	BG
143T	7.25	4.50	4.25	3.00	2.75	0.56	0.44	-	-	2.56	6.50	0.75	5.56	4.53	1.81	6.31
145T	7.25	4.50	4.25	3.00	2.75	0.56	0.44	-	-	2.56	6.50	0.75	5.56	4.53	1.81	6.81
182T	9.00	5.62	4.50	3.75	2.25	0.16	0.41	-	-	5.00	8.94	0.75	7.19	5.56	2.12	5.88
184T	9.00	6.62	4.50	3.75	2.75	0.16	0.41	-	-	5.50	8.94	0.75	7.19	5.56	2.12	6.38
213T	10.50	7.00	5.25	4.25	2.75	0.16	0.41	-	-	6.06	10.31	0.75	7.94	6.31	2.12	7.25
215T	10.50	8.50	5.25	4.25	3.50	0.16	0.41	-	-	6.81	10.31	0.75	7.94	6.31	2.12	8.00
254T	12.50	10.25	6.25	5.00	4.12	0.47	0.53	3.75	2.50	8.19	12.12	1.25	10.31	8.06	3.00	9.12
256T	12.50	12.00	6.25	5.00	5.00	0.47	0.53	3.75	2.50	9.06	12.12	1.25	10.31	8.06	3.00	10.00
284T	14.00	11.50	7.00	5.50	4.75	0.44	0.53	3.38	2.50	9.31	13.88	1.50	11.31	9.06	3.00	9.75
286T	14.00	13.00	7.00	5.50	5.50	0.44	0.53	3.38	2.50	10.06	13.88	1.50	11.31	9.06	3.00	10.50
324T	16.00	12.25	8.00	6.25	5.25	0.44	0.66	4.00	2.50	10.25	15.88	2.00	13.75	10.69	4.25	10.75
326T	16.00	13.75	8.00	6.25	6.00	0.44	0.66	4.00	2.50	11.00	15.88	2.00	13.75	10.69	4.25	11.50
364T	18.00	13.25	9.00	7.00	5.62	1.00	0.66	4.12	3.38	11.25	17.88	3.00	16.38	12.19	5.50	11.75
365T	18.00	14.25	9.00	7.00	6.12	1.00	0.66	4.12	3.38	11.75	17.88	3.00	16.38	12.19	5.50	12.25

Motor dimensions are for ODP motors and may vary depending on manufacturer.

For motor frame size, see insert sheet ("Motor Frame Selection Guide").

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CERTIFIED TO ISO 9001:2000