

4310 Vertical Circulating Pumps

Deming Fig. 4310 Vertical Immersed Circulating Pump is a short setting pump for circulating liquids through process equipment.

A standard NEMA "C" flange motor is mounted on the support head and connected to the pump shaft by means of a rigid coupling. Sizes 1 and 1½ are furnished with an open impeller. The support head is fitted with a graphite impregnated steady bearing near the pump casing. A corrosion-resistant shield and seal are mounted on the support head at the coupling to protect the motor bearings.

The pump does not require any lubrication below the protective shield as it has a self lubricated bearing. The pumps are furnished in sizes 1, 1½ and 2", for either 1750 RPM or 3500 RPM. Standard or bronze fitted construction available.

NOTE: Fig. 4311 pumps are identical to Fig. 4310 except with 6" longer extension.

| Materials of Construction | | |
|---------------------------|---------------------|---------------------|
| Part No. | Standard Fitted | Bronze Fitted |
| Motor | | |
| Casing | Cast Iron | Cast Iron |
| Pipe Plug 1/8" | Cast Iron | Cast Iron |
| Pipe Plug 1/4" | Cast Iron | Cast Iron |
| Impeller | Cast Iron | Bronze |
| Gasket | Velbuna | Velbuna |
| Slinger | Neoprene | Neoprene |
| Shaft Bearing | Graph alloy | Graph alloy |
| Support Head | Cast Iron | Cast Iron |
| Cap Screws 5/16" | Steel | Steel |
| Impeller Lock Nut | Stainless Steel | Stainless Steel |
| Cap Screws 3/8" | Steel | Steel |
| Seal Housing | Fianite | Fianite |
| Seal | Leather & Steel | Leather & Steel |
| Shaft Key | Steel | Steel |
| Shaft | 416 Stainless Steel | 416 Stainless Steel |
| Set Screws 1/4" | Steel | Steel |

**Capacities to 95 GPM
Heads to 160 Feet**

FEATURES:

- Short Setting
- No Liquid Seals
- No Stuffing Box
- Graphite Impregnated Steady Bearing
- Standard Vertical NEMA "C" Flange motor
- Stainless Steel Pump Shaft

APPLICATIONS:

- Brine
- Heating
- Coolants
- Circulation
- Cooling Towers
- Air Conditioning
- Laundry Equipment
- Industrial Parts Washers

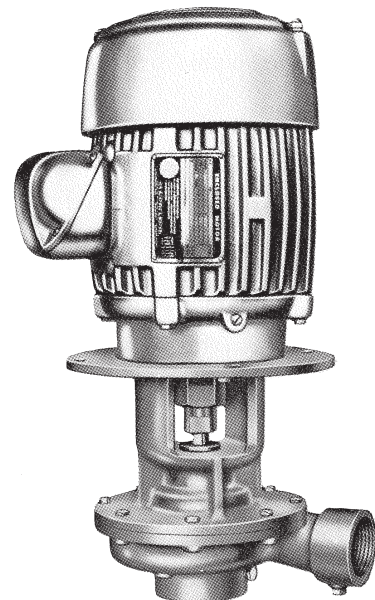


Fig. 4310 and 4311 Performance Table

| Total Head - in Feet - 1750 RPM | | | | | | | | Total Head - in Feet - 3500 RPM | | | | | | | |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 10 | 12 | 15 | 17 | 20 | 22 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Capacity in GPM | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP | Unit Size HP |
| 10 | ..... | ..... | 1 V 1 ¼ | 1 V 1 ¼ | 1 V 1 ¼ | 1 V 1 ¼ | 3 V 1 ⅓ | ..... | 51 V 1 ¾ | 51 V 1 ¾ | 51 V 1 ¾ | 52 V 1 1 | 53 V 1 1½ | 53 V 1 1½ | 54 V 1 2 |
| 20 | 1 V 1 ¼ | 1 V 1 ¼ | 1 V 1 ¼ | 1 V 1 ¼ | 1 V 1 ¼ | 3 V 1 ⅓ | 3 V 1 ⅓ | 51 V 1 ¾ | 51 V 1 ¾ | 51 V 1 ¾ | 52 V 1 1 | 53 V 1 1½ | 53 V 1 1½ | 53 V 1 1½ | 54 V 1 2 |
| 30 | 1 V 1 ¼ | 1 V 1 ¼ | 3 V 1 ⅓ | 3 V 1 ⅓ | 3 V 1 ⅓ | 6 V 1½ ½ | 6 V 1½ ½ | 51 V 1 ¾ | 51 V 1 ¾ | 51 V 1 ¾ | 52 V 1 1 | 53 V 1 1½ | 53 V 1 1½ | 54 V 1 2 | 54 V 1 2 |
| 40 | 3 V 1 ⅓ | 3 V 1 ⅓ | 4 V 1½ ⅓ | 6 V 1½ ½ | 6 V 1½ ½ | 6 V 1½ ½ | 6 V 1½ ½ | 51 V 1 ¾ | 51 V 1 ¾ | 52 V 1 1 | 53 V 1 1½ | 53 V 1 1½ | 54 V 1 2 | 54 V 1 2 | 58 V 1½ 3 |
| 50 | 4 V 1½ ⅓ | 4 V 1½ ⅓ | 6 V 1½ ½ | 6 V 1½ ½ | 6 V 1½ ½ | 10 V 2 ¾ | 10 V 2 ¾ | 52 V 1 1 | 52 V 1 1 | 53 V 1 1½ | 53 V 1 1½ | 54 V 1 2 | 54 V 1 2 | 58 V 1½ 3 | 62 V 2 5 |
| 60 | 6 V 1½ ½ | 6 V 1½ ½ | 6 V 1½ ½ | 8 V 2 ½ | 10 V 2 ¾ | 10 V 2 ¾ | 10 V 2 ¾ | 53 V 1 1½ | 53 V 1 1½ | 53 V 1 1½ | 54 V 1 2 | 57 V 1½ 2 | 58 V 1½ 3 | 58 V 1½ 3 | 62 V 2 5 |
| 80 | 8 V 2 ½ | 8 V 2 ½ | 8 V 2 ½ | 8 V 2 ½ | 10 V 2 ¾ | 10 V 2 ¾ | 13 V 3 2 | 56 V 1½ 1½ | 56 V 1½ 1½ | 57 V 1½ 2 | 57 V 1½ 2 | 58 V 1½ 3 | 58 V 1½ 3 | 62 V 2 5 | 62 V 2 5 |
| 100 | 8 V 2 ½ | 8 V 2 ½ | 10 V 2 ¾ | 10 V 2 ¾ | 12 V 3 1½ | 12 V 3 1½ | 13 V 3 2 | 56 V 1½ 1½ | 57 V 1½ 2 | 60 V 2 2 | 58 V 1½ 3 | 61 V 2 3 | 62 V 2 5 | 62 V 2 5 | ..... |
| 125 | 11 V 3 1 | 11 V 3 1 | 11 V 3 1 | 12 V 3 1½ | 12 V 3 1½ | 13 V 3 2 | 13 V 3 2 | 60 V 2 2 | 60 V 2 2 | 58 V 1½ 3 | 61 V 2 3 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | ..... |
| 150 | 11 V 3 1 | 11 V 3 1 | 12 V 3 1½ | 12 V 3 1½ | 12 V 3 1½ | 13 V 3 2 | 13 V 3 2 | 61 V 2 2 | 61 V 2 3 | 61 V 2 3 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | ..... |
| 175 | 11 V 3 1 | 11 V 3 1 | 12 V 3 1½ | 12 V 3 1½ | 13 V 3 2 | 13 V 3 2 | 61 V 2 3 | 61 V 2 3 | 61 V 2 3 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | ..... | ..... |
| 200 | 11 V 3 1 | 12 V 3 1½ | 12 V 3 1½ | 12 V 3 1½ | 13 V 3 2 | 13 V 3 2 | 61 V 2 3 | 61 V 2 3 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | ..... | ..... |
| 250 | 12 V 3 1½ | 12 V 3 1½ | 13 V 3 2 | 13 V 3 2 | ..... | ..... | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | 62 V 2 5 | 64 V 3 7½ | ..... | ..... | ..... | ..... |
| 300 | ..... | ..... | ..... | ..... | ..... | ..... | 63 V 3 5 | 63 V 3 5 | 64 V 3 7½ | 64 V 3 7½ | 64 V 3 7½ | ..... | ..... | ..... | ..... |
| 350 | ..... | ..... | ..... | ..... | ..... | ..... | 63 V 3 5 | 63 V 3 5 | 64 V 3 7½ | 64 V 3 7½ | ..... | ..... | ..... | ..... | ..... |
| 400 | | | | | | | 63 V 3 5 | 64 V 3 7½ | 64 V 3 7½ | 64 V 3 7½ | | | | | |
| 450 | | | | | | | 64 V 3 7½ | 64 V 3 7½ | 64 V 3 7½ | | | | | | |
| 500 | | | | | | | 64 V 3 7½ | 64 V 3 7½ | | | | | | | |

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Printed in U.S.A.
D4310BRO - Rev. A (10/10)

