



**FEATURES**

**Impeller:** AISI 304 SS open impeller

**Diffuser Plate:** AISI 304 SS with Polyurethane coating for maximum resistance to abrasion.

**Casing:** AISI 304 SS

**Mechanical Seal:** Silicon carbide sealing faces, all metal components of AISI type 300 stainless steel running in protected oil chamber.

**Elastomers:** BUNA-N

**Shaft:** AISI type 304 stainless steel high strength pump shaft with keyed and locking cap screw impeller fastening.

**Motor:** Air filled class F insulated design for continuous use.

**Designed for Continuous Operation:** Pump ratings are within the motor's working limits and can be operated continuously without damage.

**Bearings:** Upper and lower heavy duty ball bearing construction.

# 1DW

SUBMERSIBLE DEWATERING PUMP

### APPLICATIONS

Specifically designed for the following uses:

- Handling dirty waters
- Draining ditches and pits
- Excavating in the building trades
- Water transfer
- Industrial water drainage or transfer

### SPECIFICATIONS

#### Pump:

- Discharge size: 1½" NPT
- Capacities: up to 110 GPM
- Total heads: up to 66 feet TDH
- Maximum solids: ¾" spherical
- Mechanical seal: Silicon carbide rotary/silicon carbide stationary, 300 series stainless steel metal parts, BUNA-N elastomers.
- Maximum submergence: 23'
- Temperature limit: 120°F (50°C) maximum
- Fasteners: 300 series stainless steel.

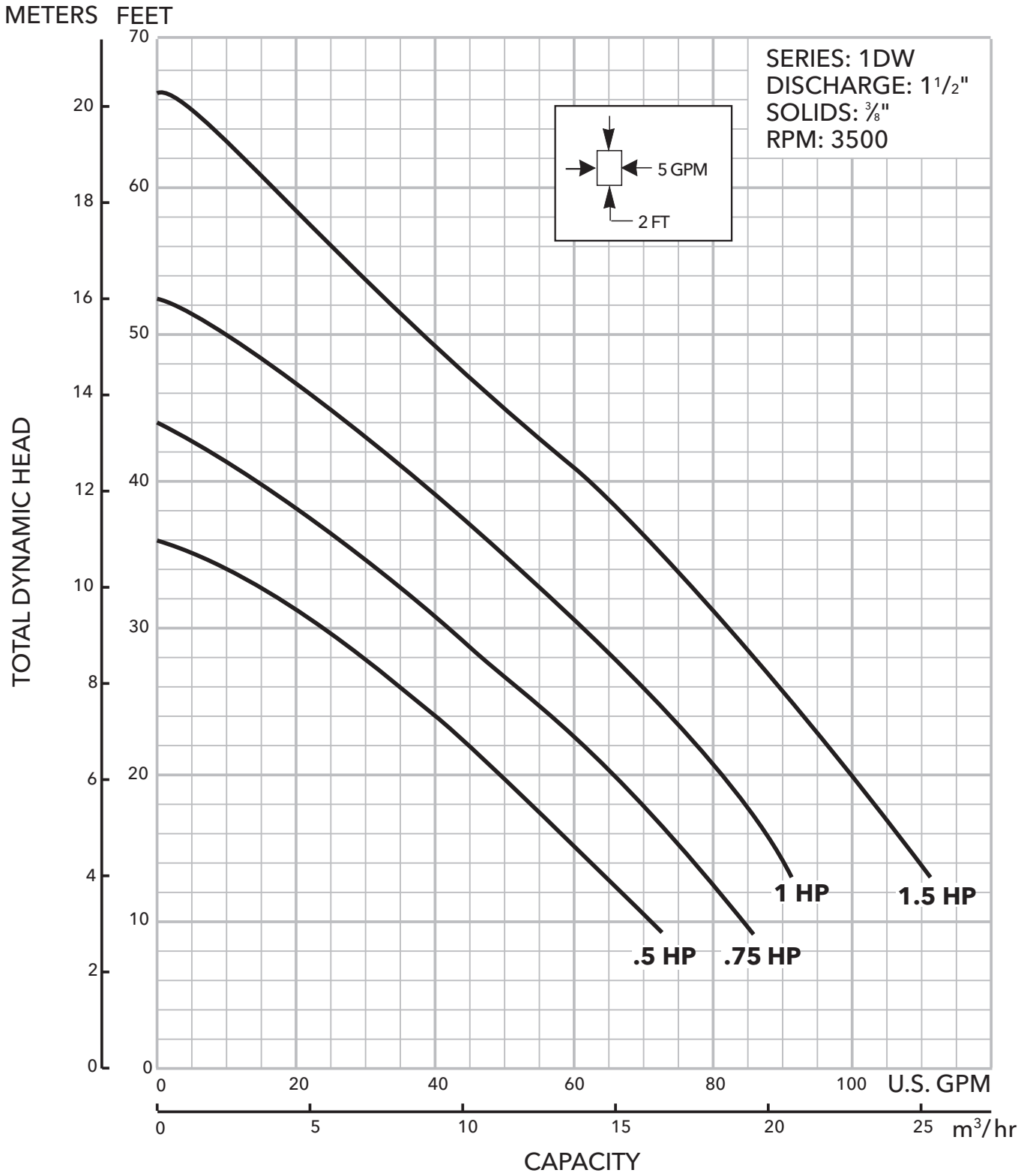
#### Motor:

- Single phase: 60 Hz, 3500 RPM, ½ HP, 115 and 230 V; ¾ and 1 HP, 230 V only.
- Three phase: 60 Hz, 3500 RPM, ½ to 1½ HP, 230 or 460 V.
- Built-in thermal overload protection with automatic reset on single phase models.
- Three phase: Overload protection must be provided in starter unit with three phase pumps.
- Power cord: 20 feet long. Single phase 115 V and 230 V models are supplied with molded NEMA plugs and built-in capacitors. Three phase models are supplied with bare leads.
- Class F insulation

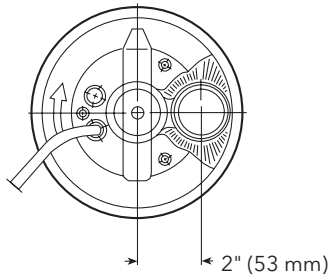
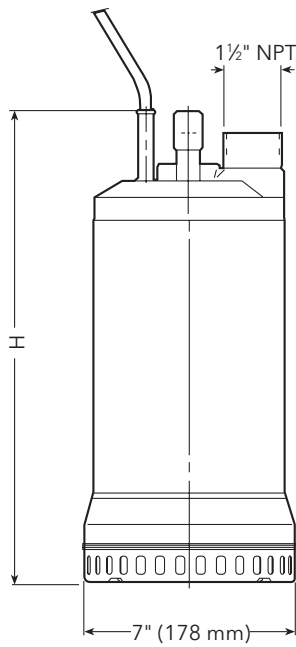
### MECHANICAL DATA

| Order No. | HP  | Volts | Phase | Maximum Amps. | RPM  | Weight (lbs.) |
|-----------|-----|-------|-------|---------------|------|---------------|
| 1DW51C0EA | ½   | 115   | 1     | 10.3          | 3450 | 29            |
| 1DW51C1EA |     | 230   |       | 4.5           |      |               |
| 1DW51C3EA |     | 460   | 3     | 2.5           |      | 27            |
| 1DW51C4EA |     |       |       | 1.3           |      |               |
| 1DW51D1EA | ¾   | 230   | 1     | 5.7           |      | 32            |
| 1DW51D3EA |     | 460   |       | 3             |      |               |
| 1DW51D4EA |     |       | 1.8   |               |      |               |
| 1DW51E1EA |     | 1     | 230   | 1             |      | 6.3           |
| 1DW51E3EA | 460 |       | 3     |               |      | 4.0           |
| 1DW51E4EA |     |       |       | 2.0           |      |               |
| 1DW51F3EA | 1½  |       | 230   | 3             |      | 5.6           |
| 1DW51F4EA |     | 460   | 2.7   |               |      |               |

| Component                  | Material  |
|----------------------------|---|
| Pump body and motor casing | Stainless steel (AISI 304)                                    |
| Outer sleeve               | Stainless steel (AISI 304)                                    |
| Impeller                   | Stainless steel (AISI 304)                                    |
| Motor shaft                | Stainless steel (AISI 304)                                    |
| Suction strainer           | Stainless steel (AISI 304)                                    |
| Front diffuser plate       | Stainless steel (AISI 304) coated with polyurethane elastomer |
| Lower mechanical seal      | Silicon carbide/silicon carbide                               |
| Upper lip seal             | Nitrile rubber  |
| Handle                     | Stainless steel (AISI 304) coated with polyacetalic resin     |



## DIMENSIONS



| Series | HP  | Phase        | Dimensions<br>in inches (mm) | Discharge<br>Size |
|--------|-----|--------------|------------------------------|-------------------|
|        |     |              | H                            |                   |
| 1DW    | 1/2 | 1            | 14 1/8 (363)                 | 1 1/2"            |
|        |     | 3            | 13 3/8 (348)                 |                   |
|        | 3/4 | 1            | 15 1/8 (383)                 |                   |
|        |     | 3            | 14 1/8 (363)                 |                   |
|        | 1   | 1            | 15 1/8 (403)                 |                   |
|        |     | 3            | 15 1/8 (383)                 |                   |
| 1 1/2  | 3   | 15 1/8 (403) |                              |                   |

**xylem**  
Let's Solve Water

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