1DW

SUBMERSIBLE DEWATERING PUMP
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.

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: ½” 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: ½ HP 30’ cord; all other HP’s 20’ cord
- Class F insulation
### DIMENSIONS

![Diagram showing dimensions of the pump](image)

- **H**: 7” (178 mm)
- **2”**: (53 mm)
- **1¼” NPT**

### MECHANICAL DATA

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### Component | Material
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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

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