TECHNICAL BROCHURE
BRJ1DW R4

RED JACKET SERIES

1DW

SUBMERSIBLE DEWATERING PUMP WASTEWATER
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.

APPROACHES

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.
- Max. 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: ½ HP 30’ cord; all other HP’s 20’ cord
- Class F insulation.
### MECHANICAL DATA

<table>
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<tr>
<th>Order No.</th>
<th>HP</th>
<th>Volts</th>
<th>Phase</th>
<th>Maximum Amps</th>
<th>RPM</th>
<th>Weight (lbs.)</th>
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DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)

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<th>Series</th>
<th>HP</th>
<th>Phase</th>
<th>Dimensions in inches (mm)</th>
<th>Discharge Size</th>
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<td>3</td>
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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 polyacetal resin