



WS_BF Series

Model 3887BF

SUBMERSIBLE SEWAGE PUMP

FEATURES

Impeller: Cast iron, semi-open, non-clog, dynamically balanced with pump out vanes for mechanical seal protection.

Casing: Cast iron flanged volute type for maximum efficiency. Designed for easy installation on A10-20 slide rail or base elbow rail systems.

Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE sealing faces for superior abrasive resistance, stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant, 300 series stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components.

Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

AGENCY LISTINGS



Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association
File #LR38549

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Water transfer
- Sewage systems
- Light industrial
- Dewatering/Effluent
- Commercial applications

Anywhere waste or drainage must be disposed of quickly, quietly and efficiently.

SPECIFICATIONS

Pump

- Solids handling capabilities: 2" maximum
- Capacities: up to 185 GPM
- Total heads: up to 38 feet TDH
- Discharge size: 2" NPT threaded companion flange as standard. 3" option available but must be ordered separately. (Order no. A1-3)
- Temperature: 104°F (40°C) continuous
140°F (60°C) intermittent.

MOTORS

- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer. All ratings are within the working limits of the motor.
- Class B insulation

Single phase (60 Hz):

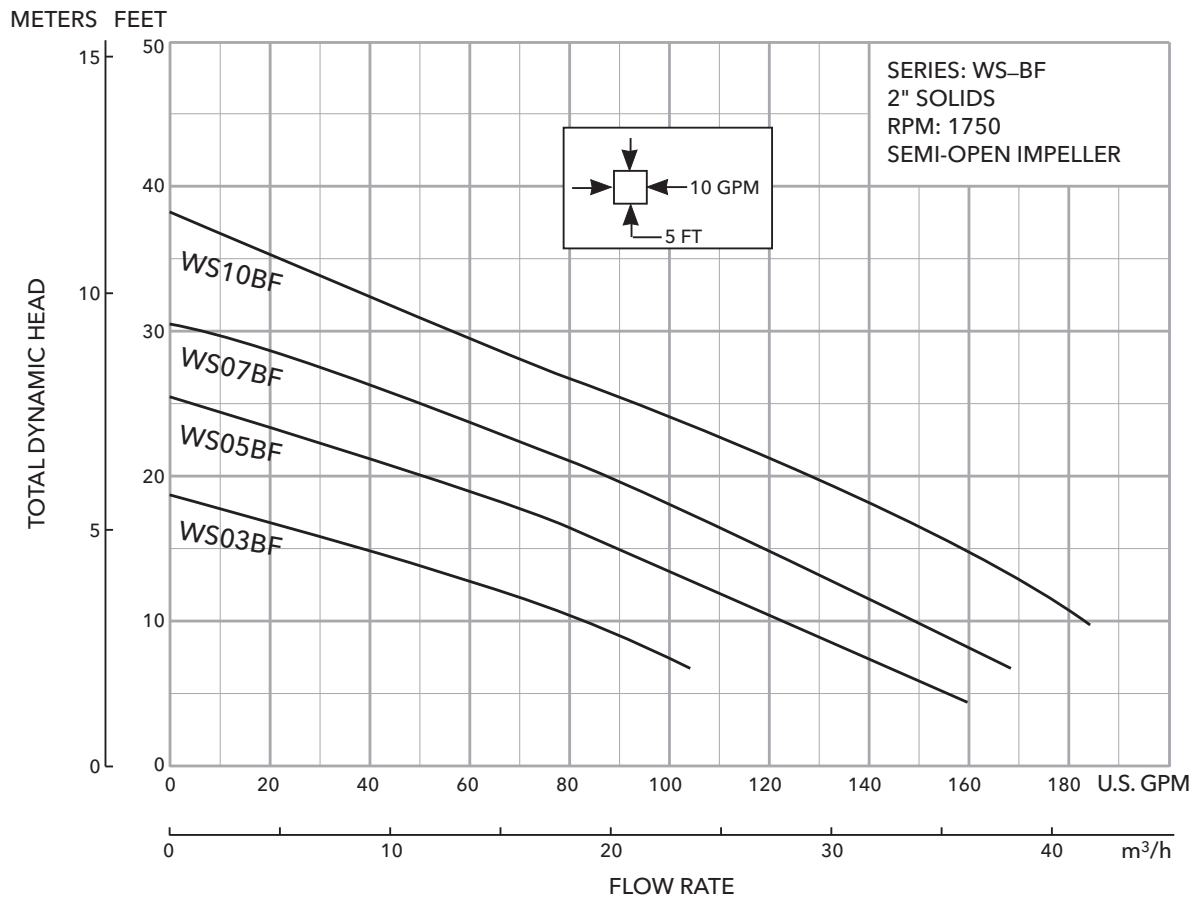
- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ½ - 1 HP models have NEMA three prong grounding plugs.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- **Bearings:** Upper and lower heavy duty ball bearing construction.
- **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- **Motor Cover O-ring:** Assures positive sealing against contaminants and oil leakage.

MOTOR AND MODEL INFORMATION

| Order Number | HP | Phase | Volts | RPM | Impeller Dia. (In.) | Max. Amps | LRA | KVA Code | Full Load Motor Eff. | Resistance | | Wt. (Lbs.) |
|--------------|------|-------|-------|------|---------------------|-----------|------|----------|----------------------|------------|-----------|------------|
| | | | | | | | | | | Start | Line-Line | |
| WS0311BF | 0.33 | 1 | 115 | 1750 | 4.69 | 10.7 | 30.0 | M | 54 | 11.9 | 1.7 | 63 |
| WS0318BF | 0.33 | 1 | 208 | | | 6.8 | 19.5 | K | 51 | 9.1 | 4.2 | |
| WS0312BF | 0.33 | 1 | 230 | | | 4.9 | 14.1 | L | 53 | 14.5 | 8.0 | |
| WS0511BF | 0.5 | 1 | 115 | | 5.00 | 14.5 | 31.1 | J | 55 | 9.3 | 1.4 | 65 |
| WS0518BF | 0.5 | 1 | 208 | | | 8.0 | 19.5 | K | 51 | 9.1 | 4.2 | |
| WS0512BF | 0.5 | 1 | 230 | | | 7.3 | 16.5 | J | 54 | 11.7 | 5.6 | |
| WS0538BF | 0.5 | 3 | 200 | | | 3.8 | 12.3 | K | 75 | - | 6.7 | |
| WS0532BF | 0.5 | 3 | 230 | | | 3.3 | 9.7 | K | 75 | - | 9.9 | |
| WS0534BF | 0.5 | 3 | 460 | | | 1.7 | 4.9 | K | 75 | - | 39.4 | |
| WS0537BF | 0.5 | 3 | 575 | | 1.4 | 4.3 | K | 68 | - | 47.8 | | |
| WS0718BF | 0.75 | 1 | 208 | | 5.38 | 11.0 | 39.0 | K | 65 | 2.6 | 1.4 | 85 |
| WS0712BF | 0.75 | 1 | 230 | | | 9.4 | 24.8 | J | 57 | 4.8 | 2.3 | |
| WS0738BF | 0.75 | 3 | 200 | | | 4.1 | 21.2 | H | 74 | - | 4.3 | |
| WS0732BF | 0.75 | 3 | 230 | | | 3.6 | 17.3 | J | 76 | - | 5.6 | |
| WS0734BF | 0.75 | 3 | 460 | | | 1.8 | 8.9 | J | 76 | - | 22.4 | |
| WS0737BF | 0.75 | 3 | 575 | | | 1.5 | 7.3 | J | 71 | - | 29.2 | |
| WS1018BF | 1 | 1 | 208 | | 5.75 | 14.0 | 39.0 | K | 65 | 2.6 | 1.4 | 85 |
| WS1012BF | 1 | 1 | 230 | | | 12.3 | 30.5 | H | 60 | 4.3 | 1.8 | |
| WS1038BF | 1 | 3 | 200 | | | 6.0 | 21.2 | H | 74 | - | 4.3 | |
| WS1032BF | 1 | 3 | 230 | | | 5.8 | 17.3 | J | 76 | - | 5.6 | |
| WS1034BF | 1 | 3 | 460 | 2.9 | | 8.9 | J | 76 | - | 22.4 | | |
| WS1037BF | 1 | 3 | 575 | 2.4 | | 7.3 | J | 71 | - | 29.2 | | |

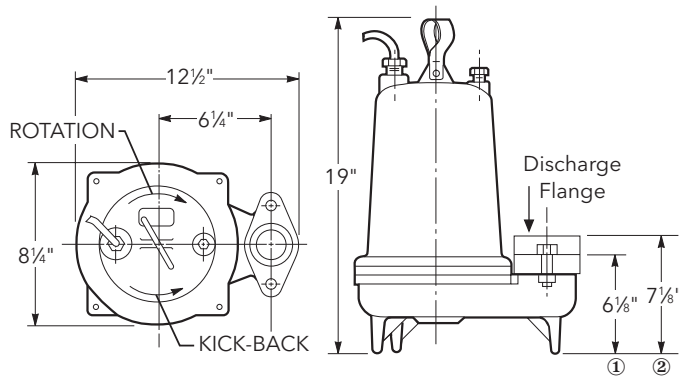


PERFORMANCE RATINGS (gallons per minute)

| Order No. | WS03BF | WS05BF | WS07BF | WS10BF |
|-----------------------------|--------|--------|--------|--------|
| HP ▶ | 1/3 | 1/2 | 3/4 | 1 |
| RPM ▶ | 1750 | 1750 | 1750 | 1750 |
| Total Head Feet of Water | 10 ▶ | 80 | 122 | 145 |
| | 15 | 36 | 90 | 116 |
| | 20 | - | 50 | 86 |
| | 25 | - | - | 48 |
| | 30 | - | - | - |
| | 35 | - | - | - |

DIMENSIONS

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



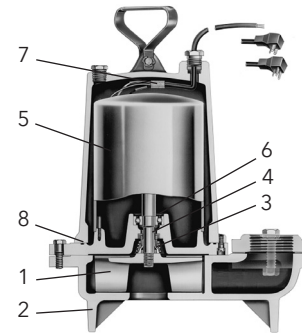
Discharge Flange:

- ① 2" NPT standard
- ② 3" NPT optional (order an A1-3)

COMPONENTS

| Item No. | Description |
|----------|-----------------|
| 1 | Impeller |
| 2 | Casing |
| 3 | Mechanical Seal |
| 4 | Motor Shaft |
| 5 | Motor |
| 6 | Ball Bearings |
| 7 | Power Cable |
| 8 | Casing O-Ring |

* For available repair parts, see repair parts book.



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Let's Solve Water

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