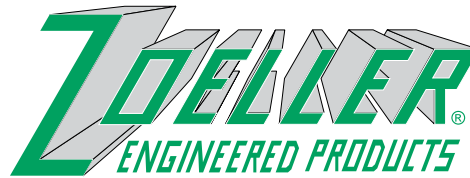


Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



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61 HD SERIES PRODUCT FEATURES 3" Vertical Discharge Units



Covered by US Patent Number 6,364,620.

APPLICATIONS

- Engineered Lift Stations.
- Storm Water Removal.
- Wastewater Transfer.
- Industrial Wastewater.

MATERIAL FEATURES

PUMP:

- Solids - 2½" spherical capability.
- Discharge Size - 3" NPT Vertical .
- Seals - dual mechanical carbon/rotary ceramic/stationary, Buna-N elastomers.
- Construction - Cast Iron ASTM A-48, Class 30, 30,000# tensile strength, protected with a corrosion resistant baked on epoxy powder coating.
- Balanced concentric pump housing and impeller.
- Attaching Hardware - 304 stainless steel.
- O-ring Seals - Buna-N.
- Ductile Iron Impeller - 2 blade semi-open with top pump out vanes.

Optional:

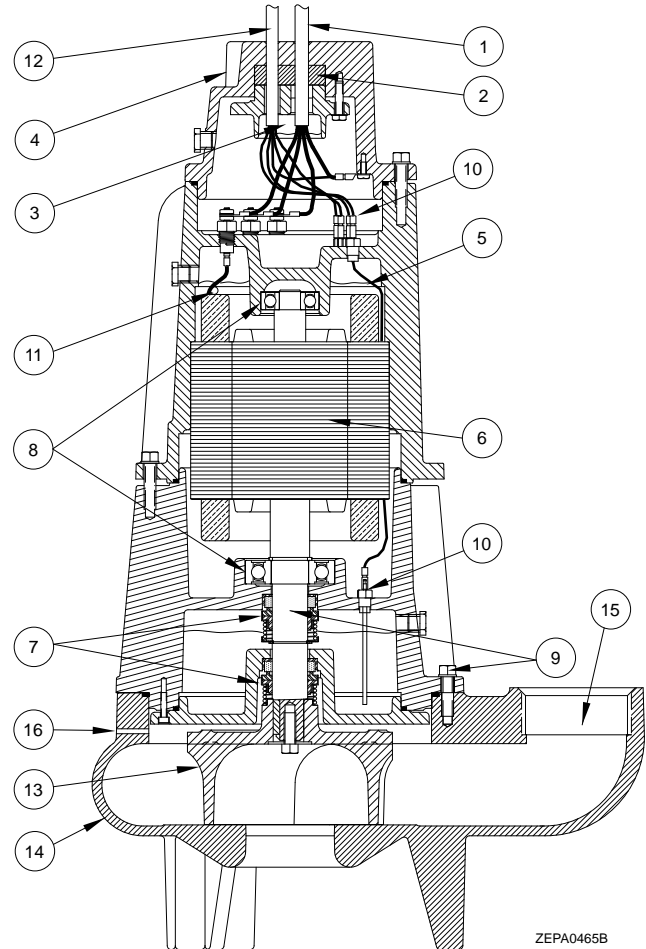
- | | |
|---|---|
| <input type="checkbox"/> Thermal sensor and moisture detection system | <input type="checkbox"/> 3450 RPM High Head unit |
| <input type="checkbox"/> Trimmed Impeller | <input type="checkbox"/> High Temperature Construction (Not CSA Listed) |
| <input type="checkbox"/> Vortex Impeller | <input type="checkbox"/> Inverter Duty Motor (Not CSA Listed) |
| <input type="checkbox"/> Bronze Impeller | <input type="checkbox"/> Rail Systems |
| <input type="checkbox"/> Silicon carbide seal(s) | |
| <input type="checkbox"/> Viton O-ring Elastomers | |
| <input type="checkbox"/> Additional cord length ____ ft. | |

MOTOR:

- 1 Phase - 230 Volt, 1750 RPM.
- 3 Phase - 200/230/460/575 Volt, 1750 RPM.
- Stator - Class F insulation and lead wires . Nema B design.
- Oil-filled motor housing.
- Finned cast iron housing for faster heat dissipation.
- Ball Bearings - Dual high carbon chromium steel.
- Power Cable Length - 25'.

ENGINEERING FEATURES:

1. 25' of heavy duty power cable.
2. Protected cable entrance. The compression grommet allows for field replacement of the cable.
3. Each conductor is individually sealed to eliminate cord wicking of liquids.
4. Lifting lug integral part of housing.
5. Oil-filled motor housing assures uniform heat distribution, lubricates bearings, and conducts heat for cooler running.
6. Heavy duty motor features ball bearing construction. Class F motor insulation is double dipped and baked. End connections and lead wires are Class F. At maximum load, winding temperature will not exceed 250°F with motor housing not submerged.
7. Tandem seals. Carbon/rotating, ceramic/stationary, Buna-N elastomers.
8. Upper and lower high carbon chromium steel ball bearings.
9. Stainless steel shaft and hardware resists corrosion.
10. Optional: Patented moisture detection system with upper and lower probes, protecting the motor from liquid entry.



ZEPA0465B

11. Optional: Thermal sensor protection. Motors have 2 normally closed temperature sensors imbedded in windings.
12. Optional: 25' sensor cable.
13. Balanced Ductile Iron 2 vanes semi-open impeller with top pump out vanes for seal protection. Keyed and bolted to shaft.
14. Concentric case reduces radial loading for longer bearing and seal life.
15. 3" NPT vertical discharge.
16. Vent hole helps prevent air locking.
17. Units protected with corrosion resistant baked on epoxy powder coating.

For additional information on 61 HD Series pumps, refer to catalog on Technical Data ZM1750; Performance Data ZM1744, ZM1752, ZM1753; Dimensional Data ZM1755; Guide Specifications ZM1743; Replacement Parts ZM1760; and Owners Manual ZM1759.

For information on additional Zoeller products refer to catalog on Rail Systems, ZM1347; Control Panels, ZM1342; Float Switches and J-Boxes, ZM1536; Float Switch Brackets, ZM1328; Pump Lifting Cables, ZM1328; Check Valves and Piping Accessories, ZM1348.



61 HD SERIES PRODUCT FEATURES

3" & 4" Flanged Horizontal Discharge Units



Covered by US Patent Number 6,364,620.

APPLICATIONS

- Engineered Lift Stations.
- Storm Water Removal.
- Wastewater Transfer.
- Industrial Wastewater.



SPECIFICATIONS

PUMP:

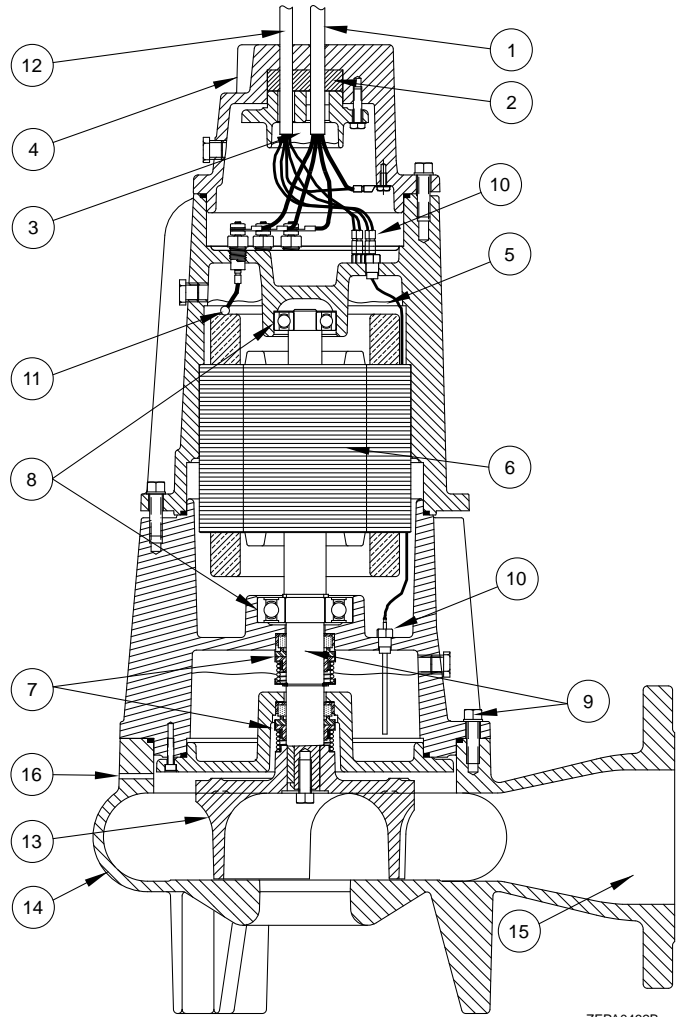
- Solids - 2½" spherical capability.
- Discharge Size - 3" & 4" Flanged horizontal.
- Seals - dual mechanical carbon/rotary ceramic/stationary, Buna-N elastomers.
- Construction - Cast Iron ASTM A-48, Class 30, 30,000# tensile strength, protected with a corrosion resistant baked on epoxy powder coating.
- Balanced concentric pump housing and impeller.
- Attaching Hardware - 304 stainless steel.
- O-ring Seals - Buna-N.
- Ductile Iron Impeller - 2 blade semi-open with top pump out vanes.
- Optional:
 - Thermal sensor and moisture detection system
 - Trimmed Impeller
 - Vortex Impeller
 - Bronze Impeller
 - 3" solids capacity (4" discharge units only)
 - Silicon carbide seal(s)
 - Viton O-ring Elastomers
 - Additional cord length ____ ft.
 - 3450 RPM High Head units (3" discharge units only)
 - Dry pit configuration (1 thru 3 BHP only. Not CSA Listed)
 - High Temperature Construction (Not CSA Listed)
 - Inverter Duty Motor (Not CSA Listed)
 - Rail Systems

MOTOR:

- 1 Phase - 230 Volt, 1750 RPM.
- 3 Phase - 200/230/460/575 Volt, 1750 RPM.
- Stator - Class F insulation and lead wires . Nema B design.
- Housing - Cast Iron, oil-filled.
- Ball Bearings - Dual high carbon chromium steel.
- Power Cable Length - 25'.

FEATURES:

1. 25' of heavy duty power cable.
2. Protected cable entrance. The compression grommet allows for field replacement of the cable.
3. Each conductor is individually sealed to eliminate cord wicking of liquids.
4. Lifting lug integral part of housing.
5. Oil-filled motor housing assures uniform heat distribution, lubricates bearings, and conducts heat for cooler running.
6. Heavy duty motor features ball bearing construction. Class F motor insulation is double dipped and baked. End connections and lead wires are Class F. At maximum load, winding temperature will not exceed 250°F with motor housing not submerged.
7. Tandem seals. Carbon/rotating, ceramic/stationary, Buna-N elastomers.
8. Upper and lower high carbon chromium steel ball bearings.
9. Stainless steel shaft and hardware resists corrosion.
10. Optional: Patented moisture detection system with upper and lower probes, protecting the motor from liquid entry.
11. Optional: Thermal sensor protection. Motors have 2 normally closed temperature sensors imbedded in windings.



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12. Optional: 25' sensor cable.
13. Balanced Ductile Iron 2 vanes semi-open impeller with top pump out vanes for seal protection. Keyed and bolted to shaft.
14. Concentric case reduces radial loading for longer bearing and seal life.
15. 3" or 4" flanged horizontal discharge.
16. Vent hole helps prevent air locking.
17. Unit protected with corrosion resistant baked on epoxy powder coating.

For additional information on 61 HD Series pumps, refer to catalog on Technical Data ZM1750; Performance Data ZM1744, ZM1752, ZM1753; Dimensional Data ZM1756, ZM1757, ZM1758, ZM1759; Guide Specifications ZM1743; Replacement Parts ZM1760; and Owners Manual ZM1759.

For information on additional Zoeller products refer to catalog on Rail Systems, ZM1347; Control Panels, ZM1342; Float Switches and J-Boxes, ZM1536; Float Switch Brackets, ZM1328; Pump Lifting Cables, ZM1328; Check Valves and Piping Accessories, ZM1348.