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Z1.10.300

ZM1372

0422

Supersedes

0621

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## 6160 SERIES COMMERCIAL EFFLUENT PUMPS TECHNICAL DATA



|                                                 | <input type="checkbox"/> 6161                                                                       | <input type="checkbox"/> 6163                                                                       | <input type="checkbox"/> 6165                                                                       |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>PUMP NAME PLATE HORSEPOWER:</b>              | 1/2 HP                                                                                              | 1/2 HP                                                                                              | 1 HP                                                                                                |
| <b>SOLID SIZE: in (mm)</b>                      | 3/4" (19mm)                                                                                         | 3/4" (19mm)                                                                                         | 3/4" (19mm)                                                                                         |
| <b>MINIMUM HEAD: ft. (m)</b>                    | 5.0' (1.5m)                                                                                         | 5.0' (1.5m)                                                                                         | 5.0' (1.5m)                                                                                         |
| <b>MAXIMUM HEAD: ft. (m)</b>                    | 56' (17.1m)                                                                                         | 66' (20.1m)                                                                                         | 86.5' (26.4m)                                                                                       |
| <b>MAX.FLOW GPM (L/min) @ MIN. HEAD ft. (m)</b> | 100 GPM @ 5' (379 L/min @ 1.5m)                                                                     | 61 GPM @ 5' (231 L/min @ 1.5m)                                                                      | 61 GPM @ 5' (231 L/min @ 1.5m)                                                                      |
| <b>DISCHARGE SIZE: VERTICAL FEMALE</b>          | <input type="checkbox"/> 1-1/2" NPT <input type="checkbox"/> 2" NPT <input type="checkbox"/> 3" NPT | <input type="checkbox"/> 1-1/2" NPT <input type="checkbox"/> 2" NPT <input type="checkbox"/> 3" NPT | <input type="checkbox"/> 1-1/2" NPT <input type="checkbox"/> 2" NPT <input type="checkbox"/> 3" NPT |

|                                  |                                                                     |                                           |                                            |
|----------------------------------|---------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|
| <b>PUMP NET WEIGHT: lbs (kg)</b> | 87 lbs (39 kg)                                                      | <b>MOTOR TYPE:</b>                        | SUBMERSIBLE                                |
| <b>SERVICE FACTOR:</b>           | 1.0                                                                 | <b>TYPE SOW POWER CORD LENGTH: ft (m)</b> | 25' (7.62m) <input type="checkbox"/> _____ |
| <b>MOTOR DESIGN LETTER:</b>      | NEMA B                                                              | <b>MOTOR SHAFT:</b>                       | 416 S.S.                                   |
| <b>IMPELLER TYPE:</b>            | CAST IRON VORTEX OPTIONAL<br><input type="checkbox"/> BRONZE VORTEX | <b>STATOR INSULATION:</b>                 | CLASS B                                    |
| <b>SQUARE RINGS:</b>             | VITON                                                               | <b>LEAD WIRES INSULATION:</b>             | CLASS B                                    |
| <b>RPM:</b>                      | 3450                                                                | <b>MAXIMUM STATOR TEMPERATURE:</b>        | 266°F (130°C)                              |

| <b>SHAFT SEAL CONSTRUCTION:</b>                               | <b>STANDARD</b>                    |                                | UPPER-CARBON / CERAMIC, LOWER-SILICON CARBIDE / CARBON                                                       |
|---------------------------------------------------------------|------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------|
|                                                               | <b>OPTIONAL</b>                    | <input type="checkbox"/> UPPER | <input type="checkbox"/> SILICON CARBIDE / CARBON <input type="checkbox"/> SILICON CARBIDE / SILICON CARBIDE |
|                                                               |                                    | <input type="checkbox"/> LOWER | <input type="checkbox"/> SILICON CARBIDE / SILICON CARBIDE                                                   |
| <b>MOTOR THERMAL SHUTOFF:</b>                                 | Standard (Single Phase Only)       |                                | THERMAL OVERLOAD SWITCH WITH AUTOMATIC RESET                                                                 |
| <b>MOISTURE DETECTION:</b>                                    | <input type="checkbox"/> OPTIONAL* |                                | MOISTURE SENSING PROBES                                                                                      |
| <b>MINIMUM FLUID LEVEL FOR CONTINUOUS OPERATIONS: in. (m)</b> |                                    |                                | 24" (0.6 m)                                                                                                  |
| <b>MAXIMUM WATER TEMPERATURE:</b>                             |                                    |                                | <input type="checkbox"/> 130 °F (54 °C)                                                                      |

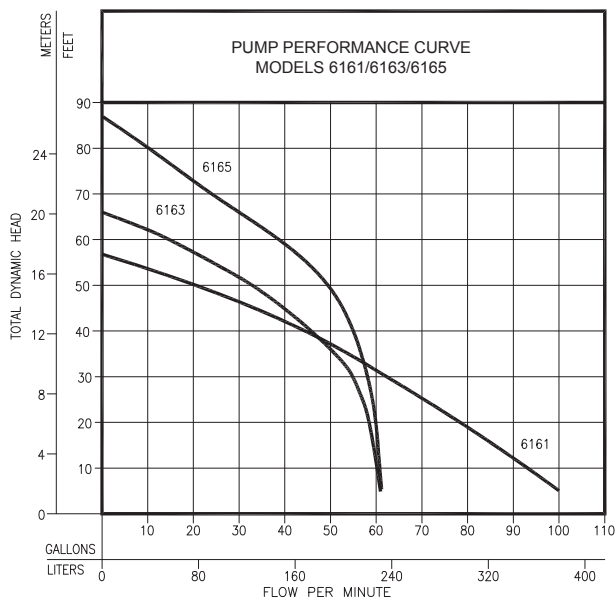
\*Requires a circuit in control panel to function.

### ELECTRICAL DATA

| MODEL                         | HP  | <input type="checkbox"/> 115V/1Ph |      | <input type="checkbox"/> 200V/1Ph |      | <input type="checkbox"/> 230V/1Ph |      | <input type="checkbox"/> 200V/3Ph |      | <input type="checkbox"/> 200V/3Ph |      | <input type="checkbox"/> 460V/3Ph |      | <input type="checkbox"/> 575V/3Ph |      |
|-------------------------------|-----|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|
|                               |     | FLA                               | LRA  | FLA                               | LRA  | FLA                               | LRA  | FLA                               | LRA  | FLA                               | LRA  | FLA                               | LRA  | FLA                               | LRA  |
| <input type="checkbox"/> 6161 | 1/2 | 15.5                              | 31.2 | 8.8                               | 16.7 | 7.5                               | 15.6 | 6.4                               | 23.0 | 5.2                               | 12.5 | 2.9                               | 12.4 | 2.4                               | 11.3 |
| <input type="checkbox"/> 6163 | 1/2 | 15.0                              | 31.2 | 8.5                               | 16.7 | 7.5                               | 15.6 | 6.0                               | 23.0 | 4.8                               | 12.5 | 2.9                               | 12.4 | 2.4                               | 11.3 |
| <input type="checkbox"/> 6165 | 1   | --                                | --   | 12.6                              | 26.9 | 10.2                              | 19.0 | 7.5                               | 30.0 | 7.4                               | 14.0 | 3.7                               | 14.0 | 3.0                               | 14.4 |

Refer to reverse side for Head/Capacity Performance Curves

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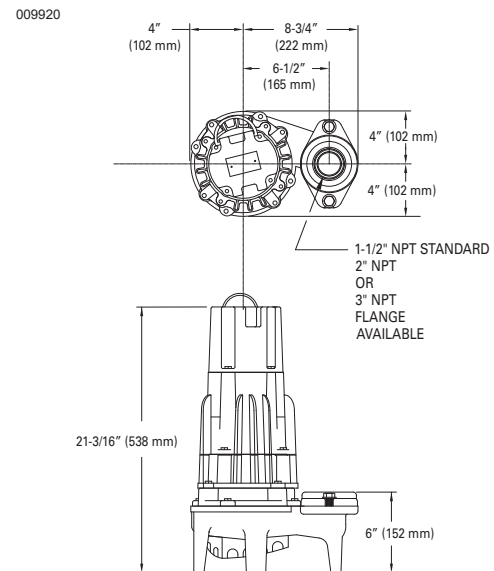
| MODELS         |        | 6161           |        | 6163           |        | 6165             |        |
|----------------|--------|----------------|--------|----------------|--------|------------------|--------|
| Feet           | Meters | Gal.           | Liters | Gal.           | Liters | Gal.             | Liters |
| 5              | 1.5    | 100            | 379    | 61             | 231    | 61               | 231    |
| 10             | 3.0    | 93             | 352    | 60             | 227    | 60.5             | 229    |
| 15             | 4.6    | 86             | 326    | 60             | 227    | 60.3             | 228    |
| 20             | 6.1    | 79             | 299    | 59             | 223    | 60               | 227    |
| 25             | 7.6    | 71             | 267    | 57             | 216    | 59               | 223    |
| 30             | 9.1    | 62             | 235    | 55             | 208    | 58               | 220    |
| 40             | 12.2   | 45             | 170    | 46             | 174    | 55               | 208    |
| 50             | 15.2   | 20             | 76     | 33             | 125    | 50               | 189    |
| 60             | 18.3   | --             | --     | 15             | 57     | 39               | 148    |
| 70             | 21.3   | --             | --     | --             | --     | 22.5             | 85     |
| 80             | 24.4   | --             | --     | --             | --     | 10               | 38     |
| Shut-off Head: |        | 56 ft. (17.1m) |        | 66 ft. (20.1m) |        | 86.5 ft. (26.4m) |        |

| Standard all models - 25 ft. cord - 1/2 H.P. |                   |    |      |          |
|----------------------------------------------|-------------------|----|------|----------|
| 6161<br>MODELS                               | Control Selection |    |      | Listings |
|                                              | Volts             | Ph | Amps | cCSAus   |
| *N6161                                       | 115               | 1  | 15.5 | Yes      |
| *E6161                                       | 230               | 1  | 7.5  | Yes      |
| I6161                                        | 200               | 1  | 8.8  | Yes      |
| J6161                                        | 200               | 3  | 6.4  | Yes      |
| F6161                                        | 230               | 3  | 5.2  | Yes      |
| G6161                                        | 460               | 3  | 2.9  | Yes      |
| BA6161                                       | 575               | 3  | 2.4  | Yes      |

| Standard all models - 25 ft. cord - 1/2 H.P. |                   |    |      |          |
|----------------------------------------------|-------------------|----|------|----------|
| 6163<br>MODELS                               | Control Selection |    |      | Listings |
|                                              | Volts             | Ph | Amps | cCSAus   |
| *N6163                                       | 115               | 1  | 15.5 | Yes      |
| *E6163                                       | 230               | 1  | 7.5  | Yes      |
| I6163                                        | 200               | 1  | 8.8  | Yes      |
| J6163                                        | 200               | 3  | 6.0  | Yes      |
| F6163                                        | 230               | 3  | 4.8  | Yes      |
| G6163                                        | 460               | 3  | 2.9  | Yes      |
| BA6163                                       | 575               | 3  | 2.4  | Yes      |

| Standard all models - 25 ft. cord - 1 H.P. |                   |    |      |          |
|--------------------------------------------|-------------------|----|------|----------|
| 6165<br>MODELS                             | Control Selection |    |      | Listings |
|                                            | Volts             | Ph | Amps | cCSAus   |
| *E6165                                     | 230               | 1  | 10.2 | Yes      |
| I6165                                      | 200               | 1  | 12.6 | Yes      |
| J6165                                      | 200               | 3  | 7.5  | Yes      |
| F6165                                      | 230               | 3  | 7.4  | Yes      |
| G6165                                      | 460               | 3  | 3.7  | Yes      |
| BA6165                                     | 575               | 3  | 3.0  | Yes      |

\* Molded Plug  
Pumps are available with optional moisture sensors. Seal Fail indicator light available in NEMA 4X control panels.



SK1413

## FEATURES

- Durable epoxy coated cast iron construction
- Motor - 1/2 HP or 1 HP, 60 Hz, 3450 RPM, 1 PH or 3 PH, oil filled, hermetically sealed, automatic reset, thermal overload protected (1 PH)
- Bearings - upper and lower ball bearings
- Stainless steel motor shaft
- Dual mechanical shaft seals - upper carbon/ceramic, lower silicon carbide/carbon. Optional seal materials available
- Viton square ring seals
- Impeller - non-clogging cast iron vortex design passes 3/4" spherical solids
- 25 foot listed 3 wire neoprene cord and plug. Longer cords available in lengths of 35-50 feet
- No screens to clog
- Stainless steel screws, bolts and handle
- 1-1/2" NPT discharge with 2" or 3" flange available
- Corrosion resistant powder coated epoxy finish
- Moisture sensors available for early warning of seal failure. (Optional)
- 100% computerized tested

## CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).