

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



**PUMP COMPANY**

Zoeller Family of Water Solutions™

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347  
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961  
(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

visit our web site:  
[www.zoeller.com](http://www.zoeller.com)

## COMPARE THESE FEATURES

- Non-clogging bronze vortex impeller design
- Durable cast construction. Cast iron switch case, base, motor and pump housing
- Castings - Cast iron class 30 (30,000# tensile strength). Impeller, bronze class C89833
- Corrosion-resistant powder coated epoxy finish
- 20 ft. UL Listed 3-wire neoprene cord and plug. Longer cords available in lengths of 25-35-50 feet.
- Motor - 60 Hz, 3450 RPM, oil-filled, hermetically sealed, automatic reset thermal overload protection (1 Ph only).
- Upper & lower ball bearings running in bath of oil.
- Carbon and ceramic shaft seal
- Maximum temperature for effluent or dewatering, 130°F - 54°C (ED 140°F - 60°C).
- Major width 12¾" Height 19⅝" (Single seal pumps)
- No screens to clog.
- Square Ring & Gasket - Neoprene
- Stainless steel screws, bolts, float rod, handle guard, arm and seal assembly
- Passes ¾" spherical solids
- 1½" NPT discharge with 2" or 3" flange available
- Automatic units available with float operated, submersible (NEMA 6) 2-pole mechanical switch. On point 14¾" - Off point 5"
- Available in single or double seal designs.
- 100% of units are computerized tested.

## MODELS 4161-4163-4165

### DOUBLE SEAL PUMPS (Nonauto only)

- Protects motor from seal leaks
- Improved bearing lubrication
- Helps eliminate seal and bearing damage from dry runs
- Major width 12¾" Height 21⅝"

**Note:** The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles or dosing timers with nonautomatic pumps.

**AUTOMATIC UNITS NOT RECOMMENDED FOR USE IN EFFLUENT SYSTEMS.**

## 161 - 163 - 165 Single Seal Series 4161 - 4163 - 4165 Double Seal Series (For Pump Prefix Identification see News & Views 0052)



Tested to UL  
Standard UL778



Certified to CSA  
Standard C22.2 No 108

## HIGH HEAD

# "FLOW-MATE"

FOR SEPTIC TANK • LOW PRESSURE PIPE (LPP)  
AND ENHANCED FLOW STEP SYSTEMS

## EFFLUENT

OR DEWATERING PUMP • SUBMERSIBLE

1½" NPT DISCHARGE STANDARD • 2" AND 3" NPT FLANGE AVAILABLE



**SINGLE  
SEAL  
PUMP**



**DOUBLE  
SEAL  
PUMP**



## MODELS AVAILABLE

- Automatic (Single Seal Only) or Nonautomatic

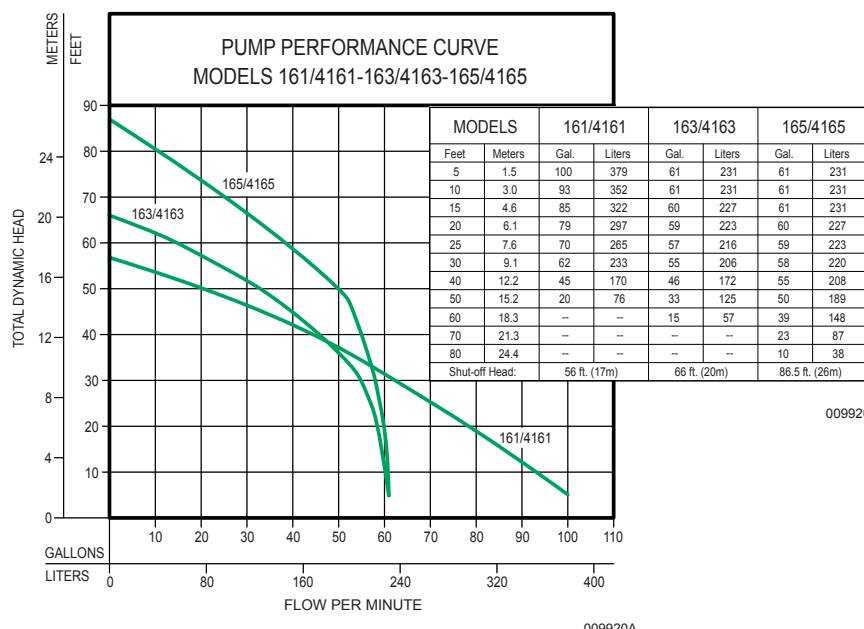
### 161-163 and 4161-4163 Series

- ½ HP, 1 Ph, 115V, 200-208V or 230V
- ½ HP, 3 Ph, 200-208V, 230V, 460V or 575V

### 165 and 4165 Series

- 1 HP, 1 Ph, 200-208V or 230V
- 1 HP, 3 Ph, 200-208, 230V, 460V or 575V

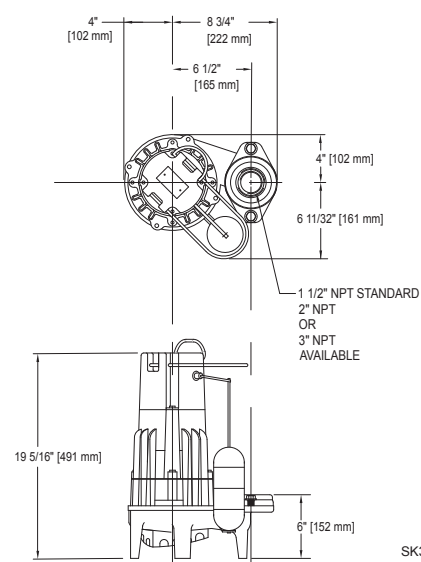
\* NOTE: No UL listing or approval for 200-208V 1Ph or Extra Duty (ED) pumps. See back page for UL & CSA Listings.



009920B

009920A

**Single Seal  
Automatic Design  
Weight 80 lbs.**

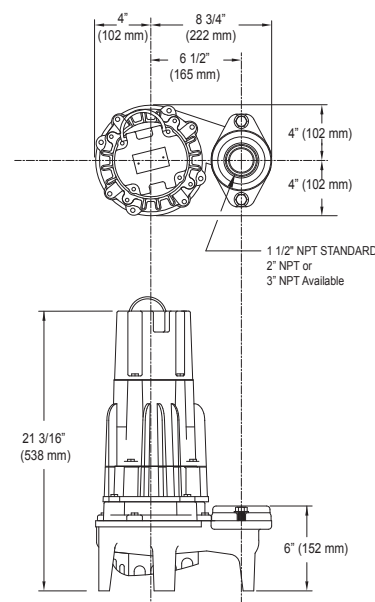


SK374

**Standard all models - 20 ft. cord - 1/2 HP**

| 161 MODELS  | 4161 MODELS | Control Selection |    |      |      |            |        | Listings |                  |
|-------------|-------------|-------------------|----|------|------|------------|--------|----------|------------------|
| Single Seal | Double Seal | Volts -           | Ph | Mode | Amps | Simplex    | Duplex | cCSAus   | UL               |
| M161        | -----       | 115               | 1  | Auto | 15.5 | 1          | -----  | Y        | Y                |
| N161        | N4161       | 115               | 1  | Non  | 15.5 | 2 or 3 & 5 | 4 & 5  | Y        | Y <sup>(1)</sup> |
| D161        | -----       | 230               | 1  | Auto | 7.5  | 1          | -----  | Y        | Y                |
| E161        | E4161       | 230               | 1  | Non  | 7.5  | 2 or 3 & 5 | 4 & 5  | Y        | Y                |
| * H161      | -----       | 200-208           | 1  | Auto | 8.8  | 1          | -----  | Y        | N                |
| * I161      | * I4161     | 200-208           | 1  | Non  | 8.8  | 2 or 3 & 5 | 4 & 5  | Y        | N                |
| * J161      | * J4161     | 200-208           | 3  | Non  | 6.4  | 3 & 5      | 4 & 5  | Y        | Y                |
| * F161      | * F4161     | 230               | 3  | Non  | 5.2  | 3 & 5      | 4 & 5  | Y        | Y                |
| * G161      | * G4161     | 460               | 3  | Non  | 2.9  | 3 & 5      | 4 & 5  | Y        | Y                |
| * BA161     | * BA4161    | 575               | 3  | Non  | 2.4  | 3 & 5      | 4 & 5  | Y        | N                |

**Double Seal Design  
Weight 87 lbs.**



SK1413

**Standard all models - 20 ft. cord - 1/2 HP**

| 163 MODELS  | 4163 MODELS | Control Selection |    |      |      |            |        | Listings |                  |
|-------------|-------------|-------------------|----|------|------|------------|--------|----------|------------------|
| Single Seal | Double Seal | Volts -           | Ph | Mode | Amps | Simplex    | Duplex | cCSAus   | UL               |
| M163        | -----       | 115               | 1  | Auto | 15.0 | 1          | -----  | Y        | Y                |
| N163        | N4163       | 115               | 1  | Non  | 15.0 | 2 or 3 & 5 | 4 & 5  | Y        | Y <sup>(1)</sup> |
| D163        | -----       | 230               | 1  | Auto | 7.5  | 1          | -----  | Y        | Y                |
| E163        | E4163       | 230               | 1  | Non  | 7.5  | 2 or 3 & 5 | 4 & 5  | Y        | Y                |
| * H163      | -----       | 200-208           | 1  | Auto | 8.5  | 1          | -----  | Y        | N                |
| * I163      | * I4163     | 200-208           | 1  | Non  | 8.5  | 2 or 3 & 5 | 4 & 5  | Y        | N                |
| * J163      | * J4163     | 200-208           | 3  | Non  | 6.0  | 3 & 5      | 4 & 5  | Y        | Y                |
| * F163      | * F4163     | 230               | 3  | Non  | 4.8  | 3 & 5      | 4 & 5  | Y        | Y                |
| * G163      | * G4163     | 460               | 3  | Non  | 2.9  | 3 & 5      | 4 & 5  | Y        | Y                |
| * BA163     | * BA4163    | 575               | 3  | Non  | 2.4  | 3 & 5      | 4 & 5  | Y        | N                |

**Standard all models - 20 ft. cord - 1 HP**

| 165 MODELS  | 4165 MODELS | Control Selection |    |      |      |            |        | Listings |    |
|-------------|-------------|-------------------|----|------|------|------------|--------|----------|----|
| Single Seal | Double Seal | Volts -           | Ph | Mode | Amps | Simplex    | Duplex | cCSAus   | UL |
| D165        | -----       | 230               | 1  | Auto | 10.2 | 1          | -----  | Y        | Y  |
| E165        | E4165       | 230               | 1  | Non  | 10.2 | 2 or 3 & 5 | 4 & 5  | Y        | Y  |
| * H165      | -----       | 200-208           | 1  | Auto | 12.6 | 1          | -----  | Y        | N  |
| * I165      | * I4165     | 200-208           | 1  | Non  | 12.6 | 2 or 3 & 5 | 4 & 5  | Y        | N  |
| * J165      | * J4165     | 200-208           | 3  | Non  | 7.5  | 3 & 5      | 4 & 5  | Y        | Y  |
| * F165      | * F4165     | 230               | 3  | Non  | 7.4  | 3 & 5      | 4 & 5  | Y        | Y  |
| * G165      | * G4165     | 460               | 3  | Non  | 3.7  | 3 & 5      | 4 & 5  | Y        | Y  |
| * BA165     | * BA4165    | 575               | 3  | Non  | 3.0  | 3 & 5      | 4 & 5  | Y        | N  |

\* No Molded Plug

<sup>(1)</sup> UL Listed unit available with 20 Amp plug.

For information on additional Zoeller products refer to catalog on Piggyback Variable Level Float Switches, FM0477; Electrical Alternator, FM0486; Mechanical Alternator, FM0495; Alarm Package, FM0732; and Sump/Sewage Basins, FM0487.

**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).

## RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.

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