

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

Submersible Wastewater
Pump Association



PUMP COMPANY

Zoeller Family of Water Solutions™

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ENGINEERING SPECIFICATIONS SHEET

Model 820 Grinder Pump 2 HP - Single Directional



APPLICATIONS

- Sanitary Sewage • Housing Developments • Pressure Sewers

SPECIFICATIONS

PUMP:

- Automatic with integral on-off switch.
- Discharge Size - 1 1/4" NPT vertical.
- Mechanical Seal - carbon/stationary, ceramic/rotary, with Buna-N elastomers.
- Construction - Cast Iron ASTM A-48, Class 30, 30,000# tensile strength.
- Corrosion resistant powder coated epoxy finish.
- Stainless Steel cutter and plate hardened to Rockwell C 55-60.
- Attaching Hardware and Lifting Handle - 304 stainless steel.
- "O" Ring Seals - Buna-N.
- Impeller - bronze with top pump out vanes.

OPTIONAL: ☐ Nonautomatic configuration ☐ Rail systems
☐ Additional cord length ____ ft. ☐ Pre-packaged Systems

MOTOR:

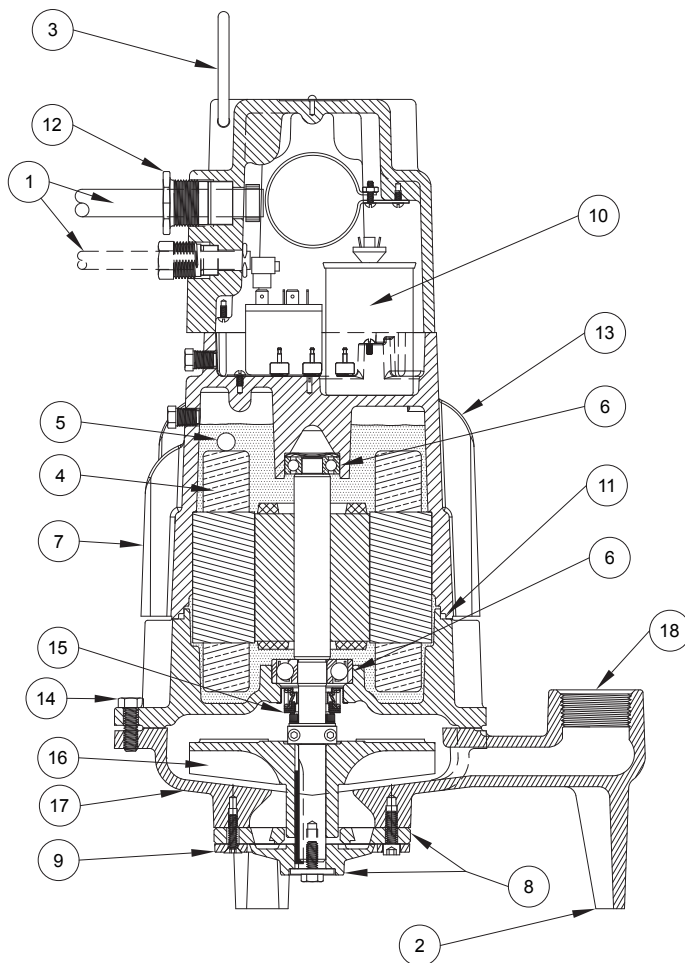
- 2 HP, 3450 RPM.
- Capacitor Start/Run Motor with internal starting circuit.
- 1 Phase - 200 & 230 Volt with integral Thermal Overload.
- Stainless Steel Motor shaft.
- Stator - Class B insulation and lead wires.
Nema B design.
- Housing - Cast Iron, oil-filled, protected by cooling fins.
- Upper & Lower Ball Bearings - Dual high carbon chromium steel.
- Power Cable Length - 20'.

DIMENSIONS:

Height: 18 5/8"
Major Width: 11 5/8"
Weight: 91 lbs.



Tested to UL778
Standards.



ZEPA0600B

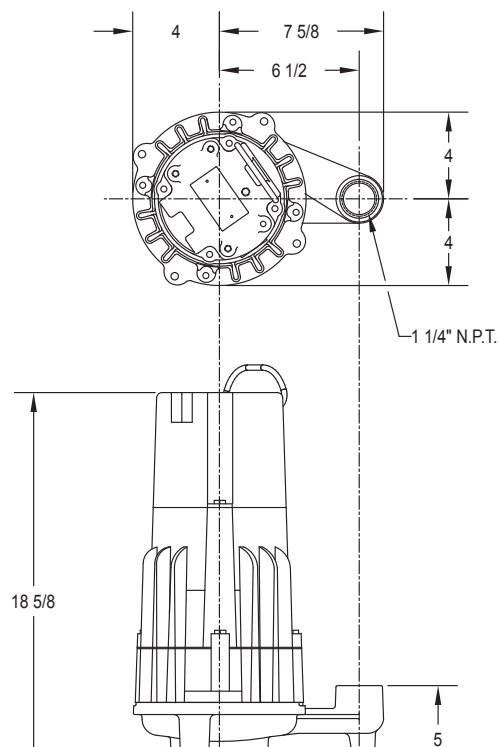
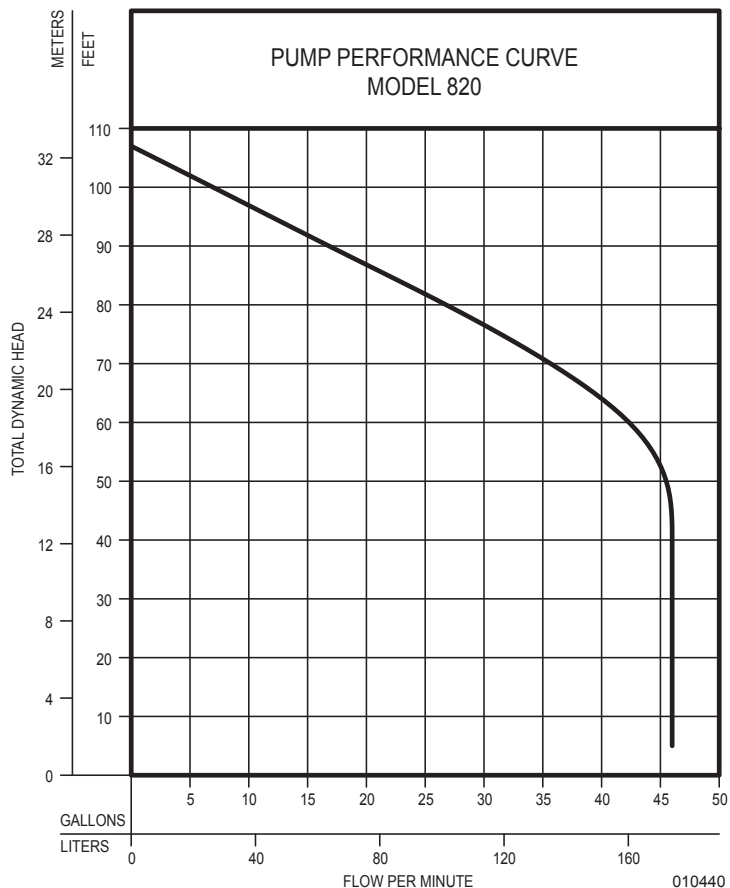
FEATURES

EASY INSTALLATION: Pump is normally supplied with twenty foot of multi conductor, power cable (1) as standard, with automatic units furnished with an integral on/off mechanical float switch. Alternate cable lengths are available. Units have 3 legs (2) as an integral part of pump housing for free standing requirements. Pump and motor assembly can be easily lowered into position, without disturbing the piping, by use of a rail system. Pump is furnished with a stainless steel lifting handle (3).

Long lasting internal components - Class B insulation system (4) rated for 130°F (54°C) max. liquids. Thermal protection (5) standard on all motors. Conservatively rated antifriction ball bearings (6) for thrust loads. Finned, oil filled motor housing (7) for greater heat dissipation, and cooler running motors. Cutter and plate (8) can be resharpened to extend pump life. Both are made of high quality stainless steel and hardened to a value of 55-60 on a Rockwell

C scale. Protective cutter ring (9) helps to extend cutter life. Capacitor Start/ Capacitor Run motor (10) provides extra start and run torque for cutting.

Complete environmental protection - Buna-N square rings (11) and heavy duty cord connectors (12) keep liquid from entering the motor assembly. Motor housing is constructed of finned powder coated epoxy coated Class 30 cast iron (13). Hardware (14) is stainless steel. Seal faces (15) are carbon and ceramic for corrosion resistance and provide complete protection for motor internals. Seal has stainless steel and Buna-N components. Vent hole helps prevent air locking. Balanced bronze vortex impeller (16) with top pump out vanes for seal protection is keyed and bolted to the shaft. The pump housing (17) has a concentric design thereby equalizing the pressure forces inside the housing, which will extend the service life of the seal and bearings. All pumps come with 1 1/4" NPT female vertical discharge (18).



SK1621

ALARM AND CONTROL PANELS



Model 10-0623

- Audible & visible high water alarm
- Alarm test & silence switch
- Float switch
- For indoor or outdoor installation



SIMPLEX CONTROL PANELS



- Motor contactor
- Circuit breaker
- H-O-A switch
- Audible & visible high water alarm
- 3 float switches
- NEMA 4X



Tested to UL Standard UL508

					ALARM PANELS			SIMPLEX CONTROL PANELS*			
Model	Mode	Volts	PH	Amps	P/N	Rating	Floats	P/N	Rating	Amp Range	Floats
WD820	Auto	230	1	13.7	10-0623	Indoor/Outdoor	1 - 15'	--	--	--	--
WD820	Auto	200	1	15.5	10-0623	Indoor/Outdoor	1 - 15'	--	--	--	--
E820	Non-Auto	230	1	13.7	--	--	--	10-1037	4X	7.0-15.0	3 - 20'
I820	Non-Auto	200	1	15.5	--	--	--	10-1038	4X	15.0-20.0	3 - 20'

*Contact Factory for applicable duplex panel.