Trusted. Tested. Tough.®

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





ZM2623_Ea 0519 Supersedes 0315

MAILTO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIPTO: 3649 Cane Run Road • Louisville, KY 40211-1961 (502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624 visit our web site: zoellerengineered.com

70 SERIES • MODELS 7011-7012-7013

PRODUCT FEATURES

2 HP Grinder Pumps - Dual Seal

(13)



APPLICATIONS

Covered by US Patent Number 6,364,620.

- Pump stations
- Housing developments
- · Pressure sewers

MATERIAL FEATURES

PUMP:

- 440C stainless steel cutter and plate hardened to Rockwell C55-60
- Discharge size 1-1/4" NPT
- Seals dual mechanical carbon/ceramic upper, carbon/silicon carbide lower
- Moisture detection system
- Construction cast iron ASTM A-48, Class 30, 30,000# tensile strength, protected with a corrosion-resistant, baked-on epoxy powder coating
- · Attaching hardware 304 stainless steel
- · Square ring seals Viton
- · Vortex impeller ductile iron
- Optional:

☐ Trimmed impeller (reversing models only)	☐ 7011 Reversing model
☐ Silicon carbide seal(s)	☐ 7012 High head model
☐ 25' (8 m) power and sensor cables	☐ 7013 High flow model
☐ 35' (11 m) power and sensor cables	\square 50' (15 m) power and sensor cables
☐ Bronze impeller	

MOTOR:

- 2 HP, 3450 RPM
- 1 Phase 200/230 Volt
- 3 Phase 200/230/380/460/575 Volt
- Stator Class F insulation and lead wires
 Nema B design
- Integral thermal overload (1 Phase)
- Thermal sensor with leads (3 Phase)
- · Housing cast iron, oil-filled
- · Ball bearings upper and lower high carbon chromium steel
- Power and sensor cable length 20' (6 m)





FEATURES

- 1. 20' (6 m) power and sensor cable.
- 2. Cast iron support legs enabe the pump to be free-standing.
- 3. Stainless steel lifting bail.
- 4. Stator Class F insulation and lead wires Nema B design.
- Thermal sensor protection. Oil-filled motor housing ensures uniform heat distribution, lubricates bearings, and conducts heat for cooler running.
- 6. Upper and lower high carbon chromium steel ball bearings.
- 7. Finned motor housing and adapter for quicker heat dissipation.
- 8. "Star" type, stainless steel cutter and plate hardened to Rockwell C55-60.
- 9. Stainless steel shaft and hardware resist corrosion.
- 10. Protective cutter ring helps extend cutter life.
- 11. 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 (121 °C) with motor housing not submerged.
- 12. Viton square ring seals.

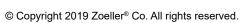
(15)

- 13. Heavy-duty cord connections.
- 14. Class 30 cast iron housing protected with corrosion-resistant, baked-on epoxy powder coating.

(10)

ZEPA0374

- Tandem seals. Carbon/rotating, ceramic/stationary upper, carbon/silicon carbide lower, Buna-N elastomers.
- 16. Patented moisture-detection system with upper and lower probes protect the motor from liquid entry.
- Vortex impeller design, fully balanced with integral pump-out vane to clear debris.
- 18. 1-1/4" NPT vertical discharge.
- Concentric pump housing with centerline discharge reduces radial loading for longer bearing and shaft seal life.





70 SERIES • MODELS 7011-7012-7013

TECHNICAL DATA 2 HP Grinder Pumps - Dual Seal

MODELS:	□ 7011	□ 7012	□ 7013		
CONFIGURATION:	REVERSING	HIGH HEAD	HIGH FLOW		
PUMP NAME PLATE HORSEPOWER:	2.0	2.0	2.0		
SERVICE FACTOR:	1.2	1.2	1.2		
NEC LOCKED ROTOR CODE:	K	K	К		
MAXIMUM KW INPUT:	3.9	3.9	3.9		
STANDARD IMPELLER DIAMETER:	5.560" (141.2 mm)	6.125" (155.6 mm)	6.188" (157.2 mm)		
DISCHARGE SIZE:	1.25" NPT	1.25" NPT	1.25" NPT		

IMPELLER TYPE:	VORTEX	TANDEM SEALS:	STANDARD				
CUTTER & PLATE:	440 C SS HARDENED TO 55-60	MOTOR DESIGN LETTER:	NEMA B (3 Ph) NEMA L (1Ph				
	ROCKWELL						
PUMP NET WEIGHT:	137 lbs. (62 kg) [1 PH], 132 lbs. (60 kg)	POWER CORD LENGTH: ft (m)	□ 25 □ 35 □ 50'				
	[3 PH]	(20' [6 m] STANDARD)	(7.6 m) (10.7 m) (15.2 m)				
SQUARE RINGS:	VITON						
MOTOR SHAFT:	416 SS	POWER CORD:	14 GAUGE SOW				
RPM:	3450	STATOR & LEAD WIRES	CLASS F				
		INSULATION:					
MOTOR TYPE:	SUBMERSIBLE	MAXIMUM STATOR	311 °F (155 °C)				
		TEMPERATURE:					

SHAFT SEAL CONSTRUCTION:	STANDARD	CARBON/CERAMIC UPPER CARBON/SILICON CARBIDE LOWER							
	OPTIONAL UPPER	☐ CARBON /SILICON CARBIDE ☐ SILICON CARBIDE/SILICON CARBIDE							
	OPTIONAL LOWER ☐ SILICON CARBIDE/SILICON CARBIDE								
OTANDARD OFNOING DEVICES	MOTOR THERMAL SHUTOFF	INTEGRAL ON-LEAD (1 PH) OR THERMAL CUT-OUT (3 PH)							
STANDARD SENSING DEVICES*	MOISTURE DETECTION	MOISTURE SENSING PROBES							
IMPELLER MATERIAL	7011,7012 & 7013	STANDARD DUCTILE IRON							
IMPELLER TRIM - REVERSING MODELS ONLY:□ OPTIONAL		DESIGN POINT: GPM @' TDH, IMPELLER DIA"							
MAXIMUM WATER TEMPERATURE:		130 °F (54 °C)							

^{*} Requires a circuit in control panel to function.

	SERVICE	□ 200V / 1 PH		□ 230V / 1 PH		□ 200V / 3 PH		□ 230 V / 3 PH		□ 380V / 3 PH		□ 460V / 3 PH		□ 575V / 3 PH		
MODEL	MODEL L HP L	FACTOR	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA
7011	2.0	1.2	20.0	60.7	17.2	57.3	12.3	47.0	10.8	41.2	6.8	28.0	5.5	20.6	4.5	16.2
7012	2.0	1.2	20.0	60.7	17.2	57.3	12.3	47.0	10.8	41.2	6.8	28.0	5.5	20.6	4.5	16.2
7013	2.0	1.2	20.0	60.7	17.2	57.3	12.3	47.0	10.8	41.2	6.8	28.0	5.5	20.6	4.5	16.2

RESERVE POWERED DESIGN

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

Zoeller® Engineered Products • 3649 Cane Run Road • Louisville, Kentucky 40211-1961 USA • +1-502-778-2731 SWPA Data Categories Presented -- Data on this sheet supply design information as the minimum recommended by the Submersible Wastewater Pump Association and is defined in accordance with SWPA's Standardized Definitions for Pump and Motor Characteristics. The accuracy of the data is the responsibility of Zoeller® Engineered Products.