"JUALITY FUMPS SINCE 1939"

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



Covered by US Patent Number 6,364,620.

APPLICATIONS

- · Sewage lift stations.
- Housing developments.
- Low pressure sewer systems.
- · High vertical lift or long force mains.
- WARNING: Not for use in acidic atmospheres.

MATERIAL FEATURES

PUMP:

- · 440 stainless steel cutter and plate hardened to Rockwell C55-60.
- Discharge size 21/2" flanged horizontal adaptable to 3" flange, 2" NPT optional.
- · Seals dual mechanical carbon/rotary ceramic/stationary, Buna-N elastomers.
- · 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.
- · Balanced concentric pump housing and impeller.
- Attaching hardware 304 stainless steel.
- O-ring seals Buna-N.
- · Impeller Bronze vortex design.
- Optional:
- Trimmed impeller.
- □ Silicon carbide seal(s).
- \Box 50' power and sensor cables.
- □ 2" NPT vertical discharge HH & HF only.

MOTOR:

- FM and cCSAus rated Class 1, Division 1, Group C & D construction.
- 1 Phase 230 Volt (3 & 5 BHP only).
- 3 Phase 200/230/460/575 Volt, 3450 RPM.
- Stator Class F insulation and lead wires. Nema B design.
- Thermal sensor with leads.
- · Housing Cast iron, oil-filled.
- · Ball bearings Upper and lower high carbon chromium steel.
- · Power and sensor cable length 25'.

FEATURES:

- 1. 25' heavy duty power cable.
- 2. Protected cable entrance.
- 3. Each conductor is individually sealed to eliminate cord wicking of liquids.
- 4. Lifting lug integral part of housing (orientation 90° from illustrated view).
- Oil-filled explosion proof rated motor housing assures uniform heat distribution, lubricates bearings, and conducts heat for cooler running.
- Heavy duty explosion proof rated 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.



Automatic Reversing -

ENGINEERED PRODUCTS

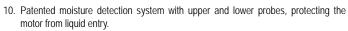
MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347

SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961 (502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

X71 HAZARDOUS ENVIRONMENT SERIES CLASS 1, DIVISION 1, GROUPS C & D GRINDER PUMP PRODUCT FEATURES

3, 5 & 7½ BHP

- (3-Phase Flanged Models Only).
- $\hfill\square$ Non-sparking rail system.



- 11. Thermal sensor protection.
- 12. 25' sensor cable.
- High efficiency impeller design made of cast bronze, fully balanced with integral pump out vane to clear debris.
- 14. "Star" type stainless steel cutter and plate hardened to Rockwell C55-60.
- 15. Concentric case reduces radial loading for longer bearing and seal life.
- 16. 2½" flanged horizontal discharge adaptable to 3" flange. Optional 2" NPT vertical discharge available for HH and HF models.
- 17. Vent hole helps prevent air locking.
- 18. Screw on pipe legs for field flexibility.
- 19. Class 30 cast iron housing protected with corrosion resistant baked on epoxy powder coating.
- 20. Finned motor housing for quicker heat dissipation.

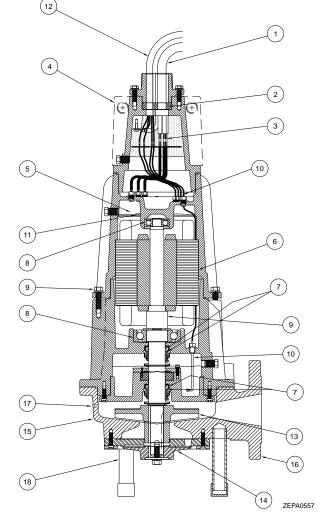
visit our web site: www.zoeller.com

SECTION: Z4.30.100

ZM2198 0109 Supersedes

0807







X71 HAZARDOUS ENVIRONMENT SERIES CLASS 1, DIVISION 1, GROUPS C & D GRINDER PUMPS TECHNICAL DATA 3, 5 & 7½ BHP





MODEL NUMBER:	□ X7110	□ X7111	□ X7112				
PUMP NAME PLATE HORSEPOWER: BHP	3.0	5.0	7.5				
SERVICE FACTOR:	1.2	1.2	1.2				
NEC LOCKED ROTOR CODE:	M (1 Ph) G (3 Ph)	G (1 Ph) H (3 Ph)	D				
MAXIMUM KW INPUT:	5.3	6.4	8.0				
IMPELLER DIAMETERS:	REFER TO THE PERFORMANCE DATA SHEETS						
DISCHARGE SIZE:	□ 2 1/2" FLANGED, ADAPTABLE TO 3" □ 2" NPT						
□ HIGH HEAD DESIGN □ HIGH F	LOW DESIGN	C REVERSIBLE DESIGN (3 PHASE FLA	REVERSIBLE DESIGN (3 PHASE FLANGED MODELS ONLY)				

IMPELLER TYPE:	BRONZE VORTEX	TANDEM SEALS:	STANDARD
FLANGE:	ANSI B16.1	MOTOR DESIGN LETTER:	NEMA B (3 Ph) NEMA L (1Ph)
PUMP NET WEIGHT: lbs. (kg)	245 lbs. (111 kg)	POWER CORD LENGTH: ft (m)	25' (7.6 m) 🛛 50' (15.2 m)
MOTOR SHAFT:	416 SS	POWER CORD:	#12-4 SO or #8-4 SO*
RPM:	3450	STATOR & LEAD WIRES INSULATION:	CLASS F
MOTOR TYPE:	SUBMERSIBLE EXPLOSION PROOF	MAXIMUM STATOR TEMPERATURE:	311°F (155°C)

SHAFT SEAL CONSTRUCTION:	STANDARD	CARBON/CERAMIC				
	OPTIONAL UPPER	CARBON /SILICON CARBIDE SILICON CARBIDE/SILICON CARBIDE				
	OPTIONAL LOWER CARBON /SILICON CARBIDE SILICON CARBIDE/SILICON					
STANDARD SENSING DEVICES**	MOTOR THERMAL SHUTOFF	THERMAL SENSORS				
	MOISTURE DETECTION	MOISTURE SENSING PROBES				
IMPELLER TRIM:	□ OPTIONAL	DESIGN POINT: GPM @' TDH, IMPELLER DIA"				
MAXIMUM WATER TEMPERATURE:		104°F (40°C)				

* Units with FLA greater than 20 amps use a #8-4 gauge power cord.

** Requires a circuit in control panel to function.

	SERVICE	🗆 230V / 1 PHASE		🗆 200V / 3 PHASE		🗆 230V / 3 PHASE		□ 460V / 3 PHASE		🗆 575V / 3 PHASE		
	Dill	FACTOR	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA
X7110	3.0	1.2	23.6	132	17.3	66.0	15.1	57.0	7.5	28.5	6.0	25.2
X7111	5.0	1.2	28.0	132	20.7	94.0	18.0	82.0	9.0	41.0	7.2	36.0
X7112	7.5	1.2	NA	NA	25.3	94.0	22.0	82.0	11.0	41.0	9.0	36.0

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 • (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.