Trusted. Tested. Tough.®

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



SECTION: 23.10.100 ZM1800 1220 Supersedes 0519

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Visit our website: zoellerengineered.com

X6160 & X6180 HAZARDOUS LOCATION SERIES

Class I, Division 1, Groups C & D Rated and Class I, Zone 1, Groups IIA & IIB Gas Areas

or Class II, Division 1, Groups E, F & G and Zone 20 Dust Areas PRODUCT FEATURES

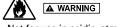
Commercial Duty Effluent

CSA Standard

C22.2 No. 145

Tested to FM Standard 3600 & 3615 & 3616





APPLICATIONS

- Not for use in acidic, atmospheres.
- Industrial dewatering.
- Automotive repair facilities sumps
- Septic tank effluent
- Low pressure effluent sewers
- Quick change oil stations

MATERIAL FEATURES PUMP:

- Solids 3/4"(19 mm) spherical capability
- Discharge Size 1-1/2", 2", and 3" NPT vertical
- Construction Cast iron ASTM A-48, Class 30, 30,000# tensile strength, protected with a corrosion resistant baked on epoxy powder coating

Tested to Standard UL

778 and Certified to CSA

Standard C22.2 no. 108

- Seal leak probes
- Balanced concentric pump housing and impeller
- Attaching hardware 304 stainless steel
- Square ring seals Viton
- Impeller bronze vortex impeller
- Optional:
 Additional cord length _____ ft.(____m)
 - □ Silicon carbide seals
 - Non-sparking rail systems

MOTOR:

- 1 Phase 115/200/230 Volt, 3450 RPM
- 3 Phase 200/230/460/575 Volt, 3450 RPM
- Class I, Division 1, Groups C & D and Class I, Zone 1, Groups IIA & IIB Gas areas
- Class II, Division 1, Groups E, F & G and Zone 20 Dust Areas
- Tested to FM Standards 3600 & 3615 by CSA
- Stator Class B and F insulation and lead wires
- 416 SS motor shaft
- Oil-filled motor housing
- · Finned cast iron housing for faster heat dissipation
- Integral overload protection (1-phase)
- Thermal sensors with lead wires (3-phase)
- Ball bearings upper and lower high carbon chromium steel
- Power cable length 25'(7.6 m)

ENGINEERING FEATURES:

- 1. 25'(7.6 m) of heavy duty power cable
- 2. Protected cable entrance. Power & sensor leads in one cable
- 3. Each conductor is individually sealed to eliminate cord wicking of liquids.
- 4. Stainless steel lifting bracket
- 5. Oil-filled motor housing assures uniform heat distribution, lubricates bearings, and conducts heat for cooler running.
- 6. Heavy duty motor features ball bearing construction. Class B or F motor insulation
- 7. Dual independent seals. Upper: carbon/stationary ceramic/rotary Lower: carbon/stationary silicon carbide/rotary
- 8. Upper and lower high-carbon chromium steel ball bearings
- 9. Stainless steel shaft and hardware resists corrosion.
- 10. Standard: Seal leak detector probes with an external checking circuit

SK1987

- 11. Standard: Thermal sensor protection. Three phase motors have 2 normally closed temperature sensors imbedded in windings. Single phase motors have overload protectors.
- 12. Balanced vortex impeller with top pump out vanes for seal protection
- 13. Concentric case reduces radial loading for longer bearing and seal life.
- 14. 1-1/2", 2" & 3" NPT vertical discharge
- 15. Units protected with corrosion resistant baked on epoxy powder coating.
- 16. Finned motor housing for superior heat dissipation
- 17. 1-1/2" NPT threads available for cordage protection
- 18. Viton square rings

For additional information on 6100 Series pumps, refer to catalog on performance data, ZM1801; dimensional data, ZM1792; guide specifications, ZM1835.

For information on additional Zoeller products refer to catalog on rail systems, ZM1347; control panels, ZM1342; float switch brackets and pump lifting cable, ZM1328; check valves and piping accessories, ZM1348.

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X6160 & X6180 HAZARDOUS LOCATION SERIES

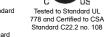
Class I, Division 1, Groups C & D Rated and Class I, Zone 1, Groups IIA & IIB Gas Areas

or

Class II, Division 1, Groups E, F & G and Zone 20 Dust Areas



TECHNICAL DATA Commercial Duty Effluent





C22.2 No. 145 Tested to FM Standard 3600 & 3615 & 3616

MODEL NUMBER:	□ X6161	□ X6163	□ X6165	□ X6185	□ X6186	□ X6188	□ X6189
PUMP NAME PLATE HORSEPOWER: HP	.5	.5	1.0	1.0	1.5	1.5	2.0
DISCHARGE SIZE:	□ 1-1/2" NPT		□ 2" NPT			□ 3" NPT	

PUMP NET WEIGHT: lbs. (kg)	ET WEIGHT: lbs. (kg) 125-133 lbs (57-60 kg)		SERVICE FACTOR:		
SOLID SIZE: in (mm)	SOLID SIZE: in (mm) 3/4" (19 mm)		TANDEM SEALS:		
IMPELLER TYPE:	BRONZE VORTEX	MOTOR DESIGN LETTE	NEMA B		
SQUARE RING SEALS:	VITON	CORD LENGTH: ft (m)	25' (7.6 m) 🗆'		
MOTOR SHAFT:	416 SS	SENSOR CORD LENGTH:		INCLUDED W/	
RPM:	3450	SENSOR CORD LENGT	H:	POWER CORD	
MOTOR TYPE CSA	Class I Gas Area Certified	STATOR AND LEAD	X6161 - X6185	CLASS B	
APPROVED:	Class II Dust Area Certified	WIRES INSULATION:	X6186 - X6189	CLASS F	
	SUBMERSIBLE		70100 70100		
SURFACE TEMPERATURE		MAXIMUM STATOR	CLASS B	266 °F (130 °C)	
CODE:	T5 (1PH) T6 (3PH)	TEMPERATURE:	CLASS F	311 °F (155 °C)	

SHAFT SEAL	STANDARD	CARBON/CERAMIC - UPPER CARBON/SILICON CARBIDE - LOWER			
CONSTRUCTION:	OPTIONAL UPPER	CARBON/SILICON CARBIDE SILICON CARBIDE/SILICON CARBIDE			
	OPTIONAL LOWER	□SILICON CARBIDE/SILICON CARBIDE			
STANDARD SENSING	MOTOR THERMAL SHUTOFF	INTEGRAL OVERLOAD WITH AUTOMATIC RESET - 1 PHASE			
	MOTOR THERMAL SHOTOFF	THERMAL SENSOR WITH LEAD WIRES - 3 PHASE			
	MOISTURE DETECTION	MOISTURE SENSING PROBES WITH LEAD WIRES			
MINIMUM FLUID LEVEL FOR CONTINUOUS OPERATIONS: in (m)		24" (0.6 m)			
MAXIMUM WATER TEMPERAT	URE:	104 °F (40 °C)			

**Requires a circuit in control panel to function.

		□115V/	□200V/	□230V/	□200V/	□230V/	□460V/	□575V/
MODEL	HP	1PHASE	1PHASE	1PHASE	3PHASE	3PHASE	3PHASE	3PHASE
		FLA	FLA	FLA	FLA	FLA	FLA	FLA
X6161	.5	15.5	8.8	7.5	6.4	5.2	2.9	2.4
X6163	.5	15.0	8.5	7.5	6.0	4.8	2.9	2.4
X6165	1.0	N/A	12.6	10.2	7.5	7.4	3.7	3.0
X6185	1.0	N/A	11.5	9.8	7.5	7.4	3.7	3.3
X6186	1.5	N/A	17.2	13.7	10.3	9.2	4.6	N/A
X6188	1.5	N/A	16.8	14.0	10.3	8.9	4.6	3.5
X6189	2.0	N/A	20.5	17.1	13.2	11.2	6.0	5.8