



Zoeller 185-0024, Model IX185, X180 Series, Explosion Proof High Head Effluent Pump, 1 HP, 200-208 Volts, 1 Phase, 1-1/2" NPT Flange Vertical Discharge, 85 GPM Max, 73 ft Max Head, 20 ft Cord, Manual



SKU #: 185-0024 Brand: Zoeller

✔ Available For Order! ((Usually Ships 3-5 Days))

✔ Free Shipping

Price:

**\$2,770.38**

✔ Call Sales Counter!

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Ship

Weight (119.00 lbs)

**QUESTIONS?**



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1-800-429-0800

## DESCRIPTION

## FEATURES

Zoeller IX185 Explosion Proof High Head Effluent Pump

This submersible pump is designed for use in residential or commercial dewatering or effluent applications in Class I, Division 1, Group C and D locations. Each pump is FM/CSA approved and features innovative motor and electrical enclosures that are designed to reduce the risk of vapor ignition both inside and outside the pump. Should vapors inside the electrical enclosure become ignited, the enclosure is engineered to contain the event and prevent escalation. Each pump is constructed of hardware that will allow it to operate safely and efficiently in extreme conditions. As with every Zoeller pump, each one is 100% factory tested to ensure quality and reliability for years of trouble free performance. This pump should not be subjected to heads less than 30 feet TDH.

**WARNING: Not for use in acidic, methanol, or ethyl acetate atmospheres.**

## Features

- Corrosion-resistant, powder-coated epoxy finish
- Durable cast iron constructed cover, motor adapter and pump housing
- Stainless steel plate, bolts, handle, guard and float rod guide, switch arm and actuator assembly
- Shaft seal: stainless steel wetted parts, carbon and ceramic rotary face seal
- Includes a stainless steel lifting bracket for easy installation and removal
- FM listed motor for Class I, Division 1, Group C and D locations
- Oil-filled, hermetically-sealed motor, automatic reset thermal overload protected
- Moisture sensors pre-wired in motor housing (functionality requires indicator circuit in panel)
- Non-clogging bronze vortex impeller design
- Upper ball bearing and lower ball bearing running in bath of oil
- Stainless steel rotor shaft
- Neoprene square ring seals
- UL listed 5-wire SOOW cord
- Sensor leads and power leads in one cord for easy installation
- Maximum temperature for effluent or dewatering is 104°F
- Passes 3/4" spherical solids
- Major width: 13-5/16"
- Major height: 22"
- 100% submerged and computerized tested
- This model is also available with 25, 35, and 50 ft cord lengths
- Control panel with intrinsically safe relays and a moisture indicator is required

## Control Panel Options

Below are Zoeller control panels that can be used with this pump.

- 10-1242
- 10-1297

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## COMPATIBILITY

## MANUALS

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FM2857 Technical Data, X180, X190 Series 60 Hz.pdf



FM1973 Wiring Diagram, Hazardous Location 60 Hz.pdf



FM2298 Owner's Manual, Hazardous Location Pumps 60 Hz.pdf

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## SPECIFICATIONS

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Please see the manuals for specifications on this item

## REPAIR PARTS

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## REPAIR DIAGRAM

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## BUYERS GUIDES

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The X180 and X190 series of submersible pumps are designed for use in residential or commercial dewatering or effluent applications in Class I, Division 1, Group C and D locations. Each pump is FM/CSA approved and features innovative motor and electrical enclosures that are designed to reduce the risk of vapor ignition both inside and outside the pump. Should vapors inside the electrical enclosures become ignited, the enclosures are engineered to contain the event and prevent escalation. Each pump is constructed of hardware that will allow it to operate safely and efficiently in extreme conditions. As with every Zoeller pump, each one is 100% factory tested to ensure quality and reliability for years of trouble free performance!

**WARNING: Not for use in acidic, methanol, or ethyl acetate atmospheres.**

### Features

Automatic models are available with an optional seal failure panel (P/N 10- 1031).

Nonautomatic units require a Zoeller control panel with intrinsically safe relays and a moisture indicator.

Surface temperature code T5 (1 Ph) or T6 (3 Ph).

Includes a stainless steel lifting bracket for easy installation and removal.

All models are hermetically sealed to be watertight, dust-tight, and completely submersible.

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## ZOELLER X180 & X190 SERIES EFFLUENT PUMPS

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Model Comparison Chart

Model	Discharge (NPT Flange Vertical)	HP	Voltage	Phase	GPM	Max. Head
<u>EX185</u>	1-1/2"	1	230	1	85	73'
<u>IX185</u>	1-1/2"	1	200-208	1	85	73'
<u>JX185</u>	1-1/2"	1	200-208	1	85	73'
<u>GX185</u>	1-1/2"	1	460	3	85	73'
<u>FX185</u>	1-1/2"	1	230	1	85	73'
<u>EX186</u>	1-1/2"	1-1/2	230	1	58	114'

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<u>EX188</u>	1-1/2"	1-1/2	230	1	145	91'
<u>IX186</u>	1-1/2"	1-1/2	200-208	1	58	114'
<u>IX188</u>	1-1/2"	1-1/2	200-208	1	145	91'
<u>EX191</u>	1-1/2"	2	230	1	45	137'
<u>EX189</u>	1-1/2"	2	230	1	145	110'
<u>GX186</u>	1-1/2"	1-1/2	460	3	58	114'
<u>FX186</u>	1-1/2"	1-1/2	230	3	58	114'
<u>JX186</u>	1-1/2"	1-1/2	200-208	3	58	114'
<u>IX189</u>	1-1/2"	2	200-208	1	145	110'
<u>GX188</u>	1-1/2"	1-1/2	460	3	145	91'
<u>FX188</u>	1-1/2"	1-1/2	230	3	145	91'
<u>JX188</u>	1-1/2"	1-1/2	200-208	3	145	91'
<u>GX189</u>	1-1/2"	2	460	3	145	110'
<u>FX189</u>	1-1/2"	2	230	3	145	110'
<u>JX189</u>	1-1/2"	2	200-208	3	145	110'
<u>DX185</u>	1-1/2"	1	230	1	85	75

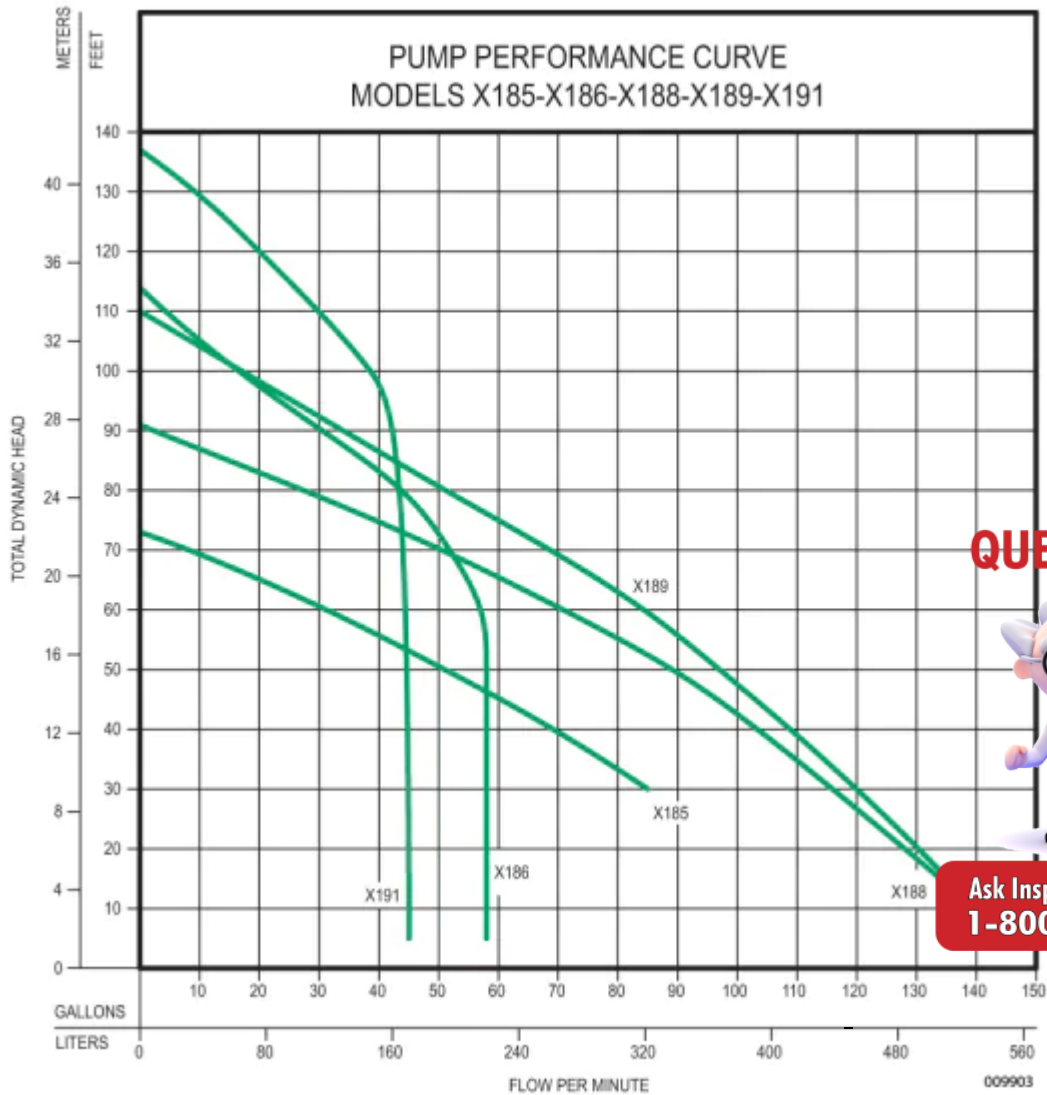
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<u>DX186</u>	1-1/2"	1-1/2	230	1	58	114'
<u>DX188</u>	1-1/2"	1-1/2	230	1	145	91'
<u>DX189</u>	1-1/2"	2	230	1	145	110'
<u>HX188</u>	1-1/2"	1-1/2	200-208	1	145	91'
<u>HX189</u>	1-1/2"	2	200-208	1	145	110'
<u>DX191</u>	1-1/2"	2	230	1	45	137'

## PERFORMANCE CURVES

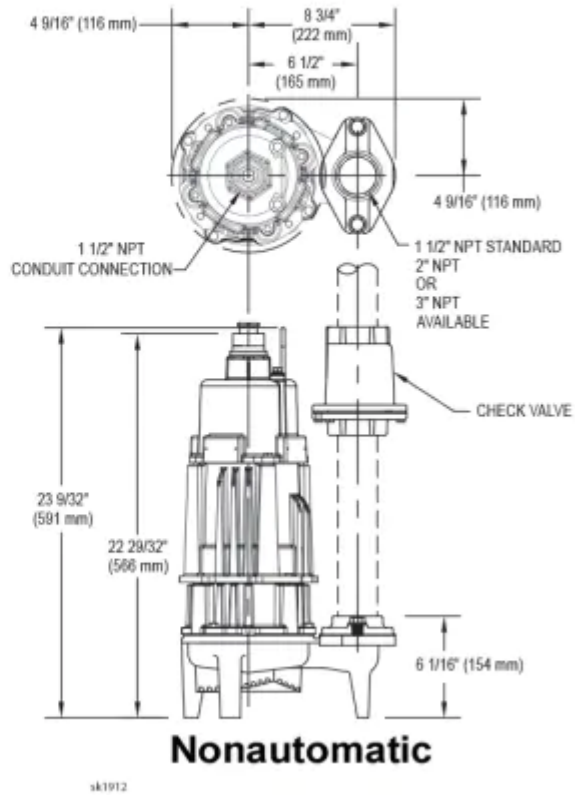
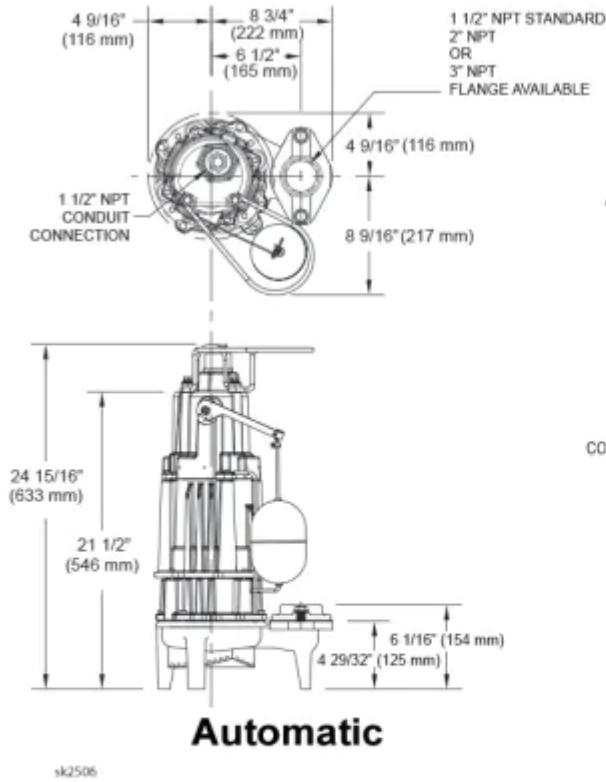


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# DIMENSIONS



# SERVICE CHECKLIST

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## SERVICE CHECKLIST



**▲ WARNING** Electrical precautions. Before servicing the pump, always shut off the main power circuit. Make sure you are wearing insulated protective sole shoes and not standing in water. Under flooded conditions, contact your local electric company or a qualified licensed electrician for disconnecting electrical service to the pump prior to removal.



**▲ WARNING** Pumps contain oil which becomes pressurized and hot under operating conditions. Allow 2-1/2 hours after shut down before servicing pump.

Condition	Common Causes
A. Pump will not start or run.	Blown panel or circuit breaker fuse, low voltage, thermal overload open, impeller clogged, float switch held down or defective, incorrect wiring in control panel, water in cap assembly.
B. Motor overheats and trips on overload.	Incorrect voltage, impeller blocked, negative head (discharge lower than intake of pump). Pump runs continuously at low water level. Low oil level in motor shell.
C. Pump will not shut off.	Air lock, debris under float assembly, incoming sewage exceeds capacity of pump.
D. Pump operates but delivers little or no water.	Intake clogged with grease or sludge, pump air locked (clear vent hole), low or incorrect voltage, clogged discharge line, operating near shut-off head.
E. Pump starts and stops too often.	Check valve stuck open. Sump pit too small to handle incoming sewage. Level control out of adjustment. Thermal overload tripping.
F. Large red flashing light comes on at control box.	High water in pit. Check pump for clogging, or overload trip. See "A" and "D" above.
G. Grease and solids accumulate in pit around pump.	Break up solids and run pump with water running into the pit. Allow level to lower to the pump intake. Continue until solids are cleared from the pit. Do not drain kitchen grease down the sink.

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## SPECIFICATIONS

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### QUESTIONS?



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<b>MOTOR</b>	Horse Power	1 - 2 HP
	Voltage	200 - 575
	Phase	1 or 3 Ph
	Hertz	60 Hz
	RPM	3450
	Type	Permanent split capacitor or 3 Ph
	Insulation	Class B/X185, Class F/X186-X191
	Amps	3.3 - 20.5
<b>PUMP</b>	Operation	Automatic or nonautomatic
	Auto On/Off Points	19-1/2" (495 mm) / 9-3/4" (248 mm)
	Discharge Size	1-1/2" NPT (optional 2" or 3" flange available)
	Solids Handling	3/4" (19 mm) X180 series, 5/8" (15 mm) X190 series spherical solids
	Cord Length	20' (6 m) standard
	Cord Type	UL listed 5-wire (1 Ph) or 8-wire (3 Ph) SOOW
	Max. Head	137' (42 m)
	Max. Flow Rate	145 GPM (549 LPM)
	Max. Operating Temp.	104° F (40° C)
	Cooling	Oil filled
	Motor Protection	Auto reset thermal overload (1 Ph) or thermal sensor (3 Ph)
<b>MATERIALS</b>	Upper Bearing	Ball bearing
	Lower Bearing	Ball bearing
	Mechanical Seals	Carbon and ceramic with stainless steel parts
	Impeller Type	Non-clogging vortex
	Impeller	Bronze
	Hardware	Stainless steel or brass
	Motor Shaft	416 stainless steel
	Gasket	Neoprene square rings

All Class 30 cast iron construction.

**QUESTIONS?**

TDH FLOW PER MINUTE



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MODELS		X185		X186		X188		X189		X191	
Feet	Meters	Gal.	Liters	Gal.	Liters	Gal.	Liters	Gal.	Liters	Gal.	Liters
5	1.5	--	--	58	220	145	549	145	549	45	170
10	3.0	--	--	58	220	140	530	140	530	45	170
20	6.1	--	--	58	220	128	484	130.5	494	45	170
30	9.1	85	322	58	220	116	439	120	454	45	170
40	12.2	70	265	58	220	103.5	392	109	413	45	170
50	15.2	51	193	58	220	90	341	97	367	45	170
60	18.3	32	121	58	220	71	269	85	322	45	170
70	21.3	9	34	52	197	51	193	69	261	45	170
80	24.4	--	--	45	170	28	106	51	193	45	170
90	27.4	--	--	30.5	115	2	8	34	129	45	170
100	30.5	--	--	16	60	--	--	17	64	40	151
110	32	--	--	4	15	--	--	--	--	30	114
120	36.6	--	--	--	--	--	--	--	--	20	76
130	39.6	--	--	--	--	--	--	--	--	10	38
Shut-off Head		73 ft. (22m)		114 ft. (35m)		91 ft. (28m)		110 ft. (34m)		137 ft. (42m)	

## OWNER'S MANUAL

### Zoeller X180 & X190 Series Effluent Pumps Owners Manual

## SPECIFICATIONS

### Zoeller X180 & X190 Series Effluent Pumps Specifications

## TECHNICAL DATA

### Zoeller X180 & X190 Series Effluent Pumps Technical Data

**QUESTIONS?**

## WIRING DIAGRAM

### Zoeller X180 & X190 Series Effluent Pumps Wiring Diagram



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\* **Note:** Picture is illustrative and may not reflect the actual product. \*

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