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# X180, X190 Series



## Features

This series of submersible pumps 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 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!

- 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.

Reserve Powered Design: For unusual conditions, a reserve safety factor is engineered into the design of every pump.

## Specifications

### Motor Characteristics

Motor	1 - 2 HP
Voltage	200 - 575 V
Phase	1 or 3 Ph
Hertz	60 Hz
RPM	3450 RPM
Type	Permanent split capacitor or 3 phase
Insulation	Class B
Amps	3.3 - 20.5 Amps

### Pump Characteristics

Operation	Automatic or nonautomatic
Auto On/ Off Points	19-1/2" / 9-3/4" (49.5 cm / 24.8 cm)
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 cord
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)

### Materials Characteristics

Cap	Cast iron
Motor Housing	Cast iron
Pump Housing	Cast iron
Base	Cast iron
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



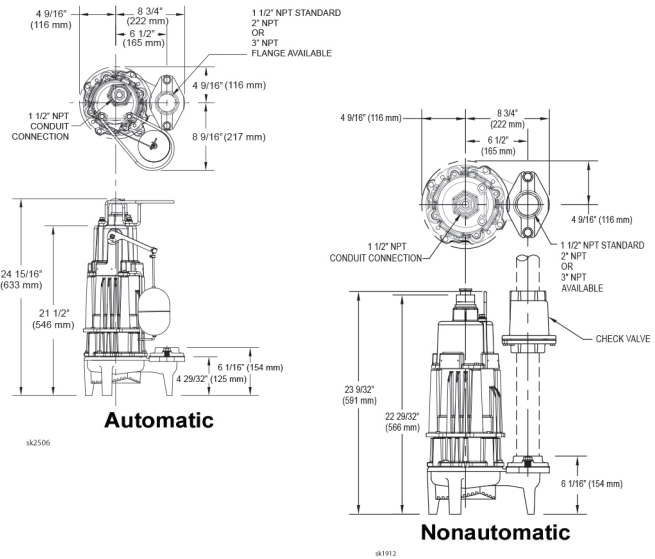
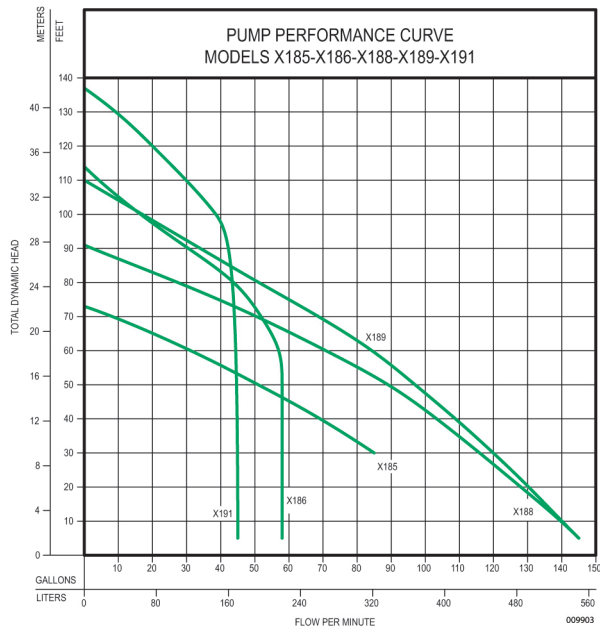
**PUMP COMPANY**

*Zoeller Family of Water Solutions™*



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## Model

Model Number	Seal	Mode	Volts	Phase	Amps	HP	Hz	Lbs	Kg
DX185/EX185	Single	Auto/Non	230	1	9.8	1	60	124/116	56/52
HX185/IX185	Single	Auto/Non	200	1	11.5	1	60	124/119	56/53
FX185	Single	Non	230	3	7.4	1	60	119	53
JX185	Single	Non	200	3	7.5	1	60	119	53
GX185	Single	Non	460	3	3.7	1	60	119	53
BAX185	Single	Non	575	3	3.3	1	60	119	53
DX186/EX186	Single	Auto/Non	230	1	13.7	1-1/2	60	128/126	58/57
HX186/IX186	Single	Auto/Non	200	1	17.2	1-1/2	60	126	57
FX186/JX186	Single	Non	230/200	3	9.2/10.3	1-1/2	60	126	57
GX186	Single	Non	460	3	4.6	1-1/2	60	126	57
DX188/EX188	Single	Auto/Non	230	1	14.0	1-1/2	60	128/126	58/57
HX188	Single	Auto	200	1	16.8	1-1/2	60	128	58
IX188	Single	Non	200	1	16.8	1-1/2	60	126	57
FX188	Single	Non	230	3	8.9	1-1/2	60	126	57
JX188	Single	Non	200	3	10.3	1-1/2	60	126	57
GX188	Single	Non	460	3	4.6	1-1/2	60	126	57
BAX188	Single	Non	575	3	3.5	1-1/2	60	126	57
DX189/EX189	Single	Auto/Non	230	1	17.1	2	60	128/126	58/57
HX189	Single	Auto	200	1	20.5	2	60	128	58
IX189	Single	Non	200	1	20.5	2	60	126	57
FX189	Single	Non	230	3	11.2	2	60	126	57
JX189	Single	Non	200	3	13.2	2	60	126	57
GX189	Single	Non	460	3	6.0	2	60	126	57
BAX189	Single	Non	575	3	5.8	2	60	126	57
DX191/EX191	Single	Auto/Non	230	1	14.5	2	60	128/129	58/58

Additional cord lengths are available in 25' (8 m), 35' (11 m) and 50' (15 m).  
Automatic units Patent No. 8,535,014

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