ZOELLER®
PUMP COMPANY

50 Hz Products

Utility

Sump / Effluent

Sewage

Grinders

Specialty Products

Accessories

Controls



Trusted. Tested. Tough.®



WHAT SETS ZOELLER PUMPS APART?

Since 1939, Zoeller Company has been manufacturing water pumps of many types. From pedestal pumps in the beginning to large HP, submersible, non-clog pumps in recent years, we have gained invaluable manufacturing experience from our humble beginning in August Zoeller's basement workshop.

Over the years, one of our most important mottos has been, 'We excel at 1,000 little things'. From start to finish, we take pride in our products. When you have residential or commercial wastewater issues, you can count on Zoeller to deliver the very best solutions. Our commitment to unsurpassed quality offers years of service and durability with a responsive and knowledgeable product support team just a phone call away.

• MANUFACTURING IS IN OUR BLOOD...

Rather than using a 'puzzle piece' mentality and simply buying components from other sources and assembling them, we manufacture most of our products from start to finish, continually checking the quality throughout the entire process.

Quality is always the most important element at Zoeller. Above all, quality is what has made us successful and continues to drive the decisions we make. A quality product cannot be manufactured with low-grade components. By bringing in high-quality raw castings as well as machining and powder coating the pieces in house, we are able to control the quality of each part and identify any defect throughout the manufacturing process. Each piece is subjected to numerous quality checkpoints along the way to guarantee that it is the best of the best.

• FACTORY TESTING IS NOT JUST A BUZZWORD...

Instead of running 'audits' on a calculated number of pumps, all submersible Zoeller pumps are 100% factory tested underwater prior to shipment. Each pump is subjected to a leak test to ensure that all gaskets, seals and mating surfaces will hold under pressure. After the pressurized leak test, the pump is powered up and run underwater to ensure that it is capable of the published head capacity and flow rate listed in our catalog and specification sheets. This testing allows us to guarantee the pump will operate out of the box every time, and you can rest assured that YOUR Zoeller pump was tested underwater for both electrical and hydraulic performance.

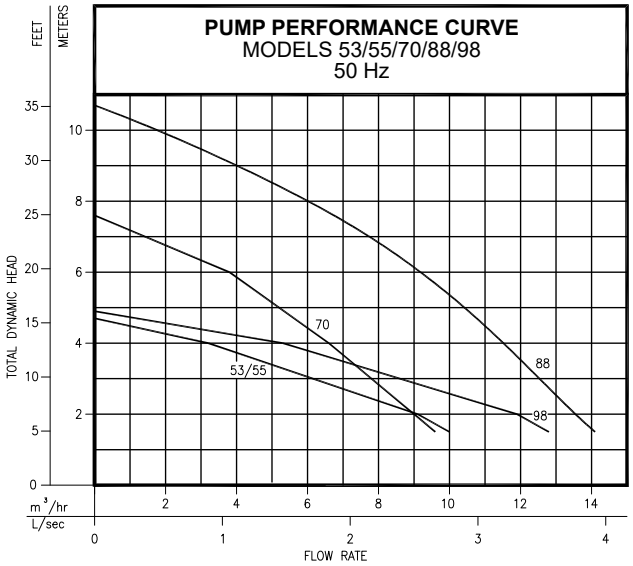
• FULL BREADTH OF PRODUCT LINE...

Zoeller is your 'one stop shop' when dealing with dewatering and wastewater systems. We offer everything from a small fractional sump pump to a large, 60 HP, non-clog pump. From battery back-ups, check valves, sewage grinder systems, small prepackaged residential units or large prepackaged municipal systems, Zoeller can offer it all. Next time you are looking for a water or wastewater system, reach for the only catalog you will ever need... Zoeller Company!

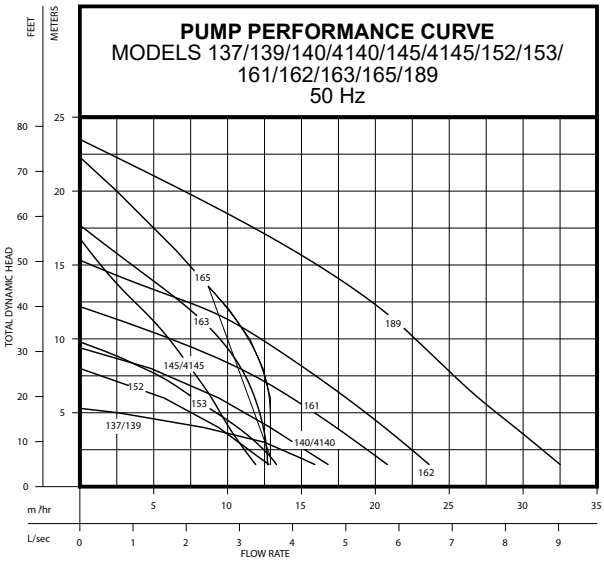
Information within is accurate at time of publication and subject to change. Visit the digital edition for updates.

Composite Pump Curves

SUMP

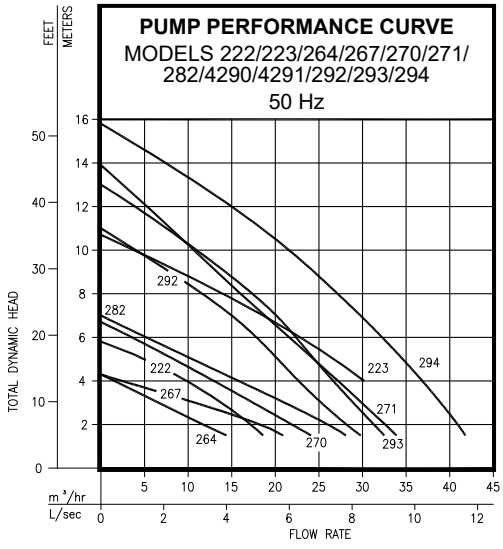


EFFLUENT



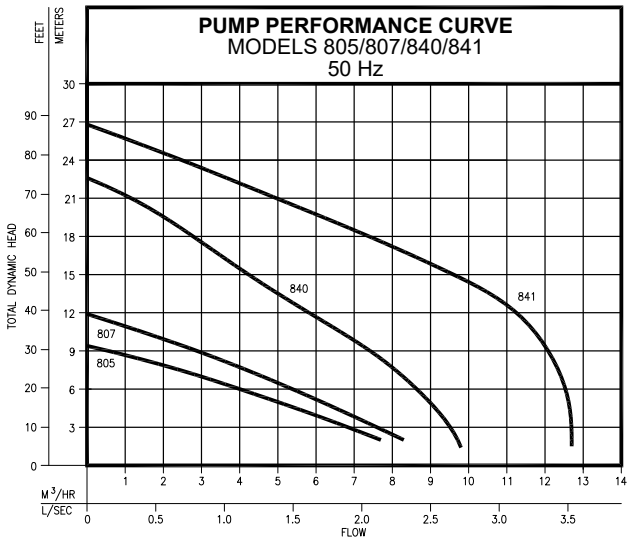
152100

SEWAGE



151888

GRINDER



156948

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FEATURES:

- Engineered thermoplastic and stainless steel components provide improved corrosion resistance
- Vent hole prevents air lock
- Carrying handle for easy installation and removal
- Removable screened bottom for easy cleaning

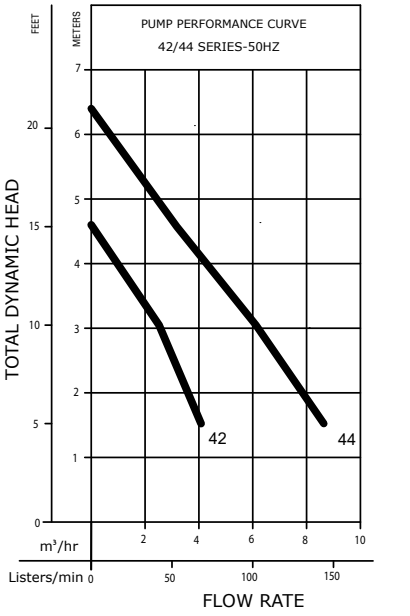
APPLICATIONS: (for mostly clear water)

- Garden spraying
- Lake/river water transfer
- Rainwater removal
- Basement water removal

OPTIONAL:

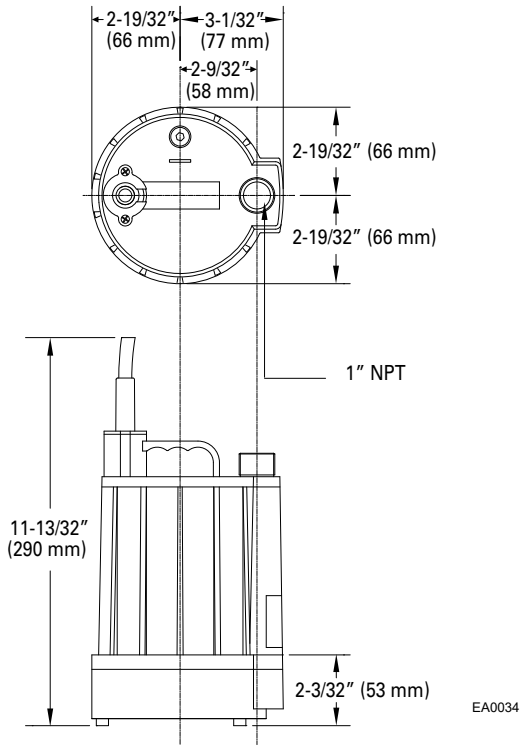
- Additional cord lengths available in 6.0 m (20') or 10.0 m (33')
- Available with a 4.5 m (15') cord and a type G plug

* Power cords less than 10.0 m (33') are intended for indoor use only.



081150

Nonautomatic Design



EA0034

CE*

Model	Mode	Volt	Ph	Amp	Motor		Weight	
Single Seal					kW (p1)	HP	kg.	Lbs.
V42	Non	220	1	0.6	0.14	1/6	4	9
LU44	Auto	220	1	1.4	0.32	1/4	4	9
V44	Non	220	1	1.4	0.32	1/4	4	9

PUMP	**Material**	
	Pump Housing	Glass-filled polypropylene
	Impeller	Engineered plastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	NBR
	Power Cord	H07RN-F
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Power Cord Length	4.5 m (15') standard for CE models
MOTOR	Motor Housing	Engineered thermoplastic
	Type	Permanent split capacitor
	RPM	2800
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IPX8
	Cooling	Oil free
Maximum Fluid Temperature		40 °C (104 °F)
Discharge Size		1" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
Pumps Floor Dry		3 mm (1/8")

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Recessed, non-clogging vortex impeller design provides great solids-passing capability
- Carrying handle for easy installation and removal
- Removable screened bottom for easy cleaning

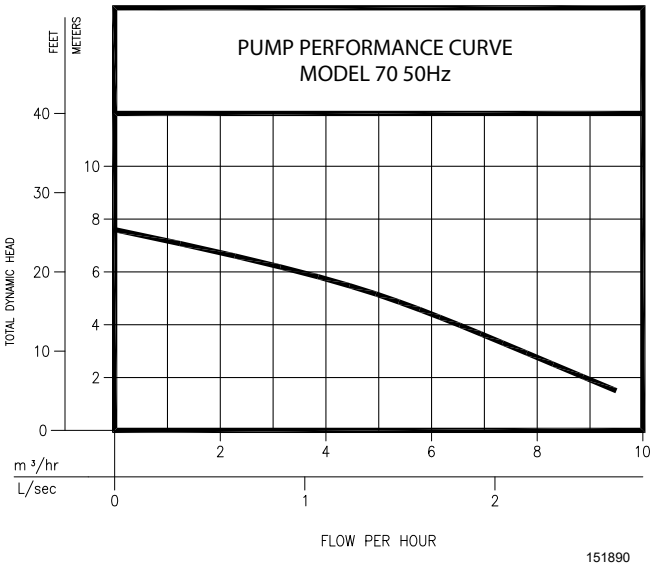
APPLICATIONS:

- Sump / effluent handling
- Dewatering
- Water transfer

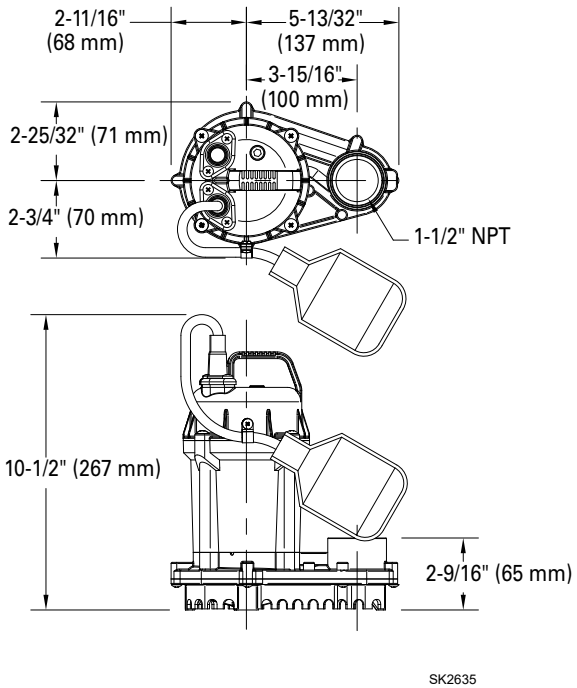
OPTIONAL:

- Additional cord lengths available in 7.6 m (25') and 10.6 m (35')
- Available with a 4.5 m (15') cord and a type G plug

* Power cords less than 10.0 m (33') are intended for indoor use only.



Automatic Design



Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
WU70	Auto	220	1	2.2	0.44	1/3	5	11
U70	Auto	220	1	2.2	0.44	1/3	5	11
V70	Non	220	1	2.2	0.44	1/3	5	11

PUMP	**Material**	
	Pump Housing	Glass-filled polypropylene
	Impeller	Engineered plastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	NBR
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	9 mm (3/8") spherical solids
	Power Cord Length	4.5 m (15') standard for CE models
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	2800
	Rotor	SAE 1117 carbon steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IPX8
	Cooling	Oil filled
Maximum Fluid Temperature		40 °C (104 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		28.6 cm (11-1/4") / 10.5 cm (4-1/8")

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FEATURES:

- Cast iron construction with powder coated epoxy finish
- Designed to provide great heat dissipation
- Recessed, non-clogging vortex impeller design provides great solids-passing capability
- Solid, buoyant polypropylene float
- Model 53 features a cast iron switch case, motor and pump housing and a glass-filled plastic impeller.
- Model 55 features a bronze switch case, motor and pump housing and a glass-filled plastic impeller

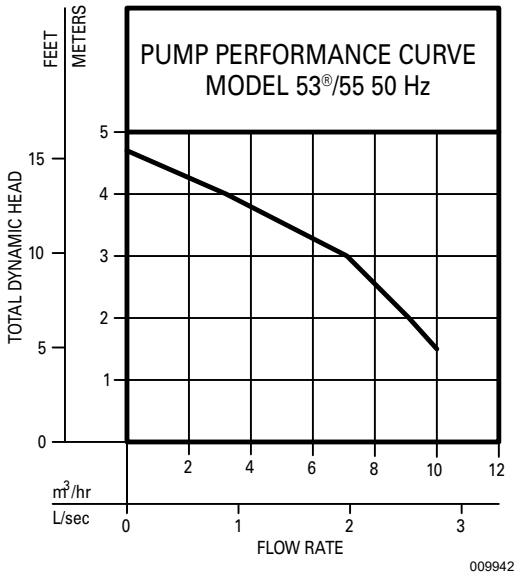
OPTIONAL:

- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

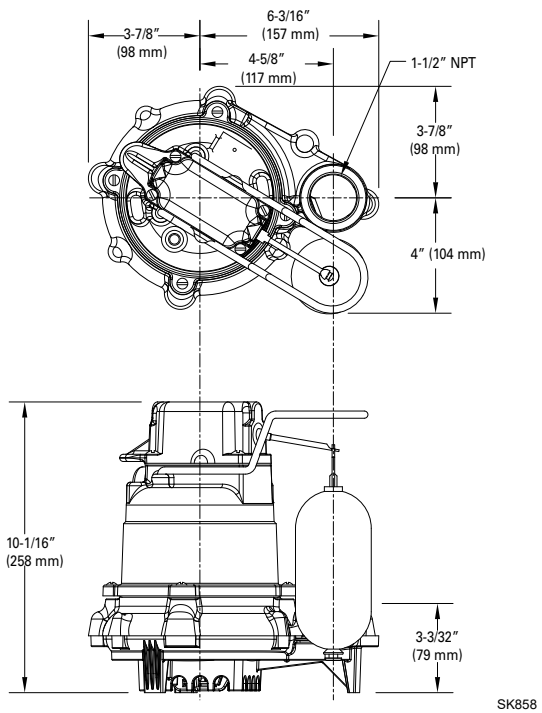
* Power cords less than 10.0 m (33') are intended for indoor use only.

APPLICATIONS:

- Sump / effluent handling
- Dewatering
- Water transfer



Automatic Design



Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U53	Auto	220	1	5.2	0.72	3/10	10	22
V53	Non	220	1	5.2	0.72	3/10	10	22
U55	Auto	220	1	5.2	0.72	3/10	14	31
V55	Non	220	1	5.2	0.72	3/10	14	31

PUMP	**Material**	
	Pump Housing	Cast iron or bronze
	Impeller	Glass-filled plastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Sleeve bearing upper/lower
	Solid Passing	12 mm (1/2") spherical solids
	Power Cord Length	4.5 m (15') standard for CE models
MOTOR	Motor Housing	Cast iron or bronze
	Type	Shaded pole
	RPM	1300
	Rotor	AISI 1215 cold roll steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		18.4 cm (7-1/4") / 7.6 cm (3")

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Cast iron pump housing
- Stainless steel components provide improved corrosion resistance
- Vent hole prevents air lock
- Lifting handle for easy installation and removal

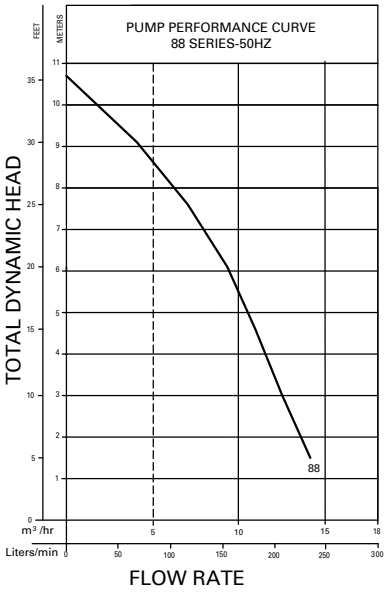
APPLICATIONS:

- Water transfer
- Construction site water removal
- Basement water removal

OPTIONAL:

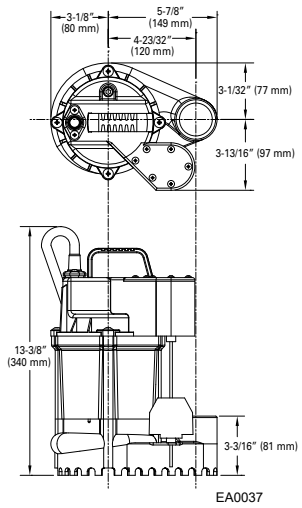
- Additional cord lengths available in 6.0 m (20') or 10.0 m (33')
- Available with a 4.5 m (15') cord and a type G plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

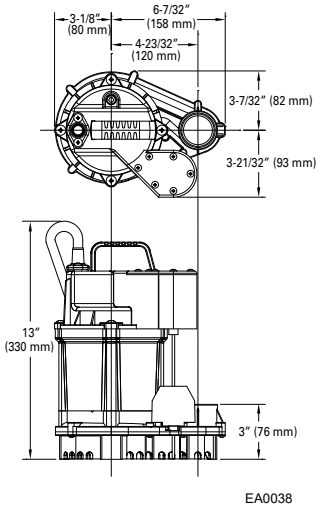


081185

Automatic Design



EA0037



EA0038

Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U88	Auto	220	1	3.8	0.76	3/4	11	24
WU88	Auto	220	1	3.8	0.76	3/4	11	24
V88	Non	220	1	3.8	0.76	3/4	11	24

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Engineered plastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	NBR
	Power Cord	H07RN-F
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	9 mm (3/8") spherical solids
	Power Cord Length	4.5 m (15') standard for CE models
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	2800
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IPX8
	Cooling	Oil filled
Maximum Fluid Temperature		40 °C (104 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		18 cm (7") / 7.6 cm (3")

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Designed to provide great heat dissipation from the motor
- Recessed, non-clogging vortex impeller design provides great solids-passing capability
- Solid, buoyant polypropylene float

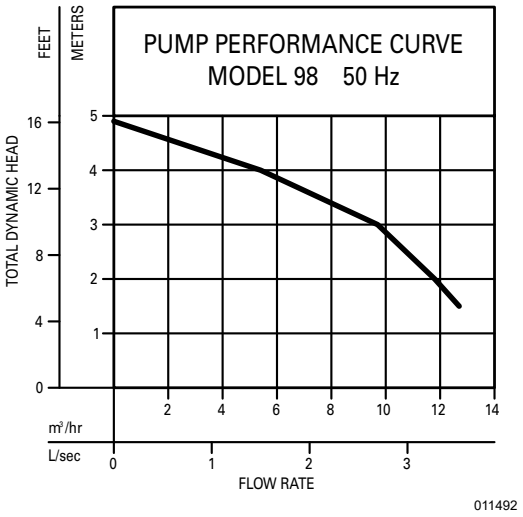
APPLICATIONS:

- Sump / effluent handling
- Dewatering
- Water transfer

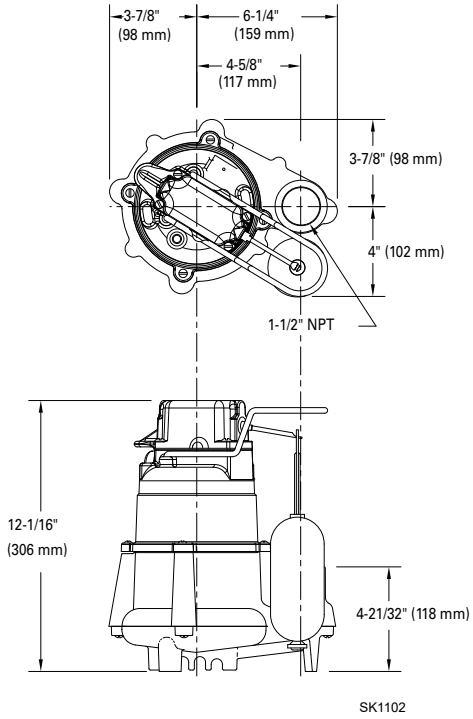
OPTIONAL:

- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.



Automatic Design



Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U98	Auto	220	1	4.7	0.77	1/2	16	35
V98	Non	220	1	4.7	0.77	1/2	16	35

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Engineered plastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Power Cord	SJEOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Sleeve bearing upper/lower
	Solid Passing	12 mm (1/2") spherical solids
	Power Cord Length	4.5 m (15') standard for CE models
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	1400
	Rotor	AISI 1215 cold roll steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IP68
	Cooling	Oil-filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		24 cm (9-1/2") / 8 cm (3")

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FEATURES:

- Cast iron construction with powder coated epoxy finish
- Designed to provide great heat dissipation from the motor
- Recessed, non-clogging vortex impeller design provides great solids-passing capability
- Solid, buoyant polypropylene float
- Model 137 features all cast iron construction, and model 139 is all bronze

APPLICATIONS:

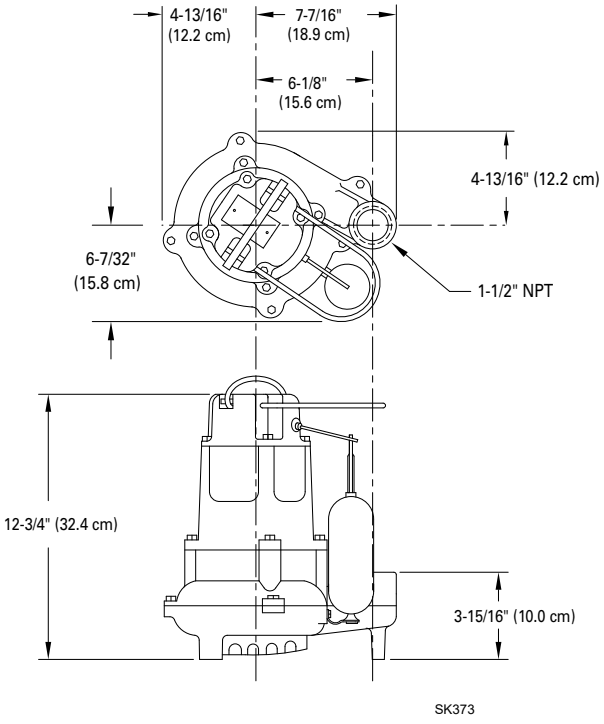
- Sump / effluent handling
- Dewatering
- Water transfer

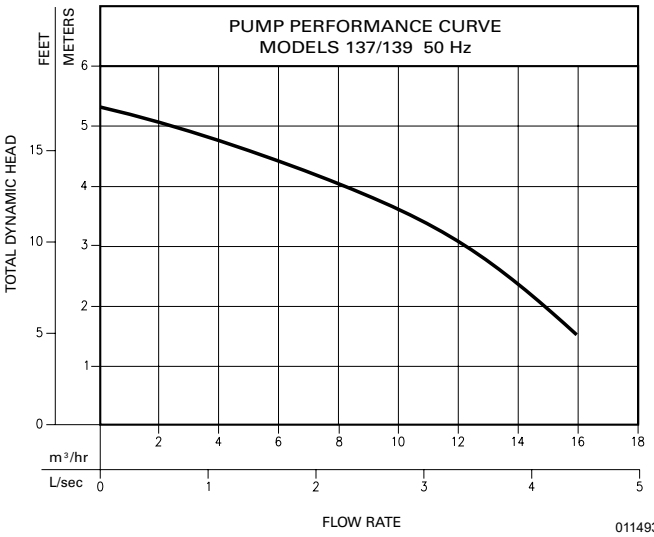
OPTIONAL:

- Extra duty option for ambient water temperature of 60 °C (140 °F)
- Bronze impeller available on model 137.
- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

Automatic Design





Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U137	Auto	220	1	4.2	1.0	1/2	21	46
V137	Non	220	1	4.2	1.0	1/2	21	46
AK137	Non	380	3	4.2	0.6	1/2	21	46
U139	Auto	220	1	4.2	1.0	1/2	23	51
V139	Non	220	1	4.2	1.0	1/2	23	51

PUMP	**Material**	
	Pump Housing	Cast iron or bronze
	Impeller	Cast iron or bronze
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Sleeve bearing upper/lower
	Solid Passing	15 mm (5/8") spherical solids
	Power Cord Length	4.5 m (15') standard for CE models
MOTOR	Motor Housing	Cast iron or bronze
	Type	Split phase
	RPM	1400
	Rotor	AISI 1215 cold roll steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload (1 Ph)
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		25.4 cm (10") / 7 cm (2-3/4")

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140/4140, 145/4145



FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Designed to provide great heat dissipation from the motor
- Recessed, non-clogging vortex impeller design provides great solids-passing capability
- Double seal models prevent leaks and damage to seals or bearings during dry run conditions

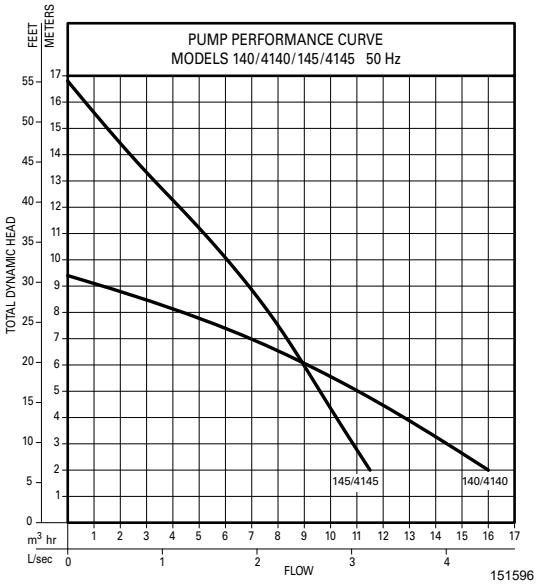
APPLICATIONS:

- Sump / effluent handling
- Dewatering
- Water transfer

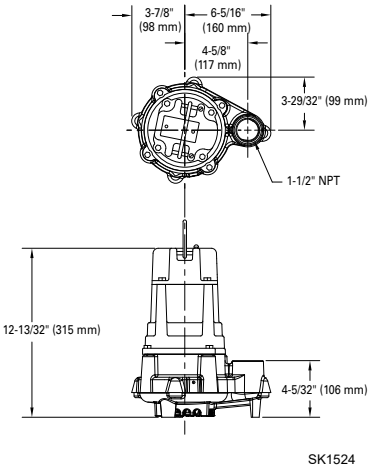
OPTIONAL:

- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

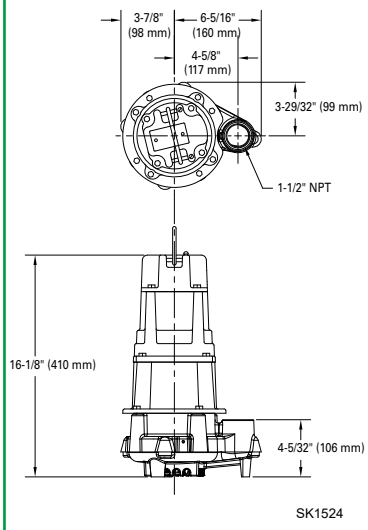
* Power cords less than 33' (10 m) are intended for indoor use only.



Single Seal Design



Double Seal Design



Model		Mode	Volt	Ph	Amp	Motor		Weight	
Single Seal	Double Seal					kW (p1)	HP	kg.	Lbs.
V140		Non	220	1	4.5	1.0	1	20	44
	V4140	Non	220	1	4.5	1.0	1	23	51
V145		Non	220	1	4.5	0.9	3/4	20	44
	V4145	Non	220	1	4.5	0.9	3/4	23	51

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Engineered thermoplastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	140: non-clogging vortex
		145: single vane
	Bearings	Sleeve bearing upper/ball bearing lower
	Solid Passing	140 - 12 mm (1/2") spherical solids
		145 - 19 mm (3/4") spherical solids
	Power Cord Length	6 m (20') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	2800
	Rotor	AISI 1144 steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Designed to provide great heat dissipation from the motor
- Recessed, non-clogging vortex impeller design provides great solids-passing capability

APPLICATIONS:

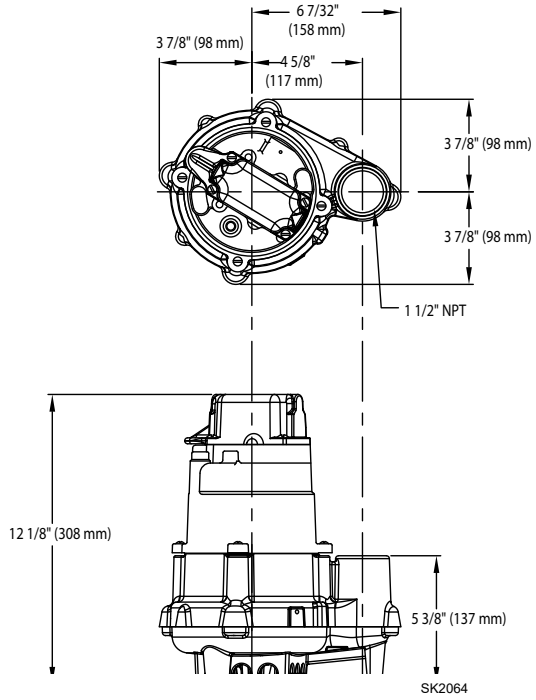
- Sump/effluent handling
- Dewatering
- Water transfer

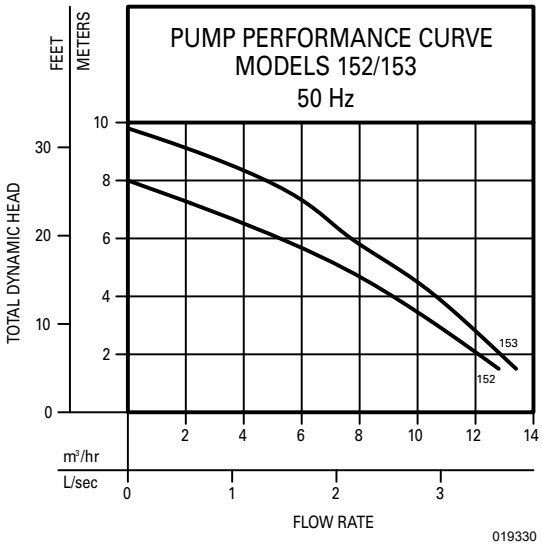
OPTIONAL:

- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

Nonautomatic Design





Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U152	Auto	220	1	3.6	0.56	4/10	17	37
V152	Non	220	1	3.6	0.56	4/10	17	37
U153	Auto	220	1	4.3	0.71	1/2	17	37
V153	Non	220	1	4.3	0.71	1/2	17	37

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Engineered thermoplastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Sleeve bearing upper/ball bearing lower
	Solid Passing	19 mm (3/4") spherical solids
	Power Cord Length	6 m (20') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	2800
	Rotor	AISI 1215 cold roll steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel

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161, 162, 163, 165



FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Finned motor housing design provides great heat dissipation
- Recessed, non-clogging vortex impeller design provides great solids-passing capability

APPLICATIONS:

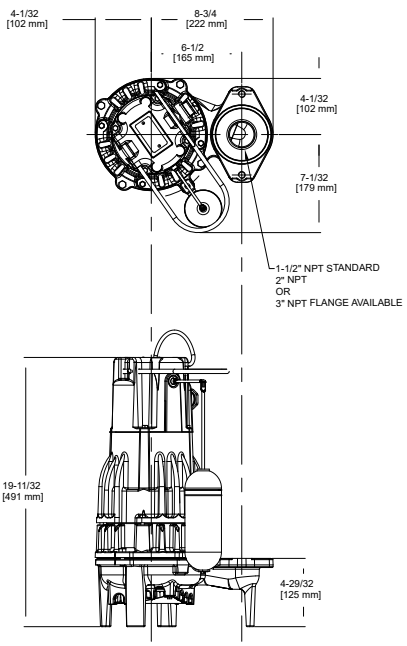
- Sump/effluent handling
- Dewatering
- Water transfer

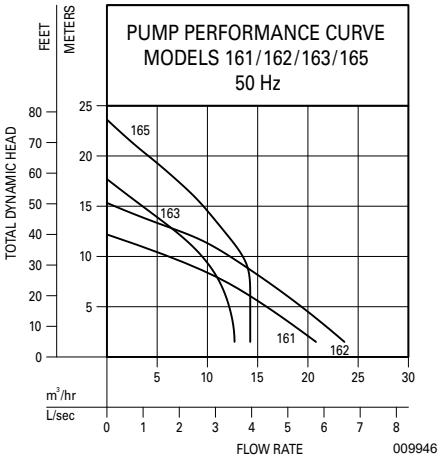
OPTIONAL:

- Available with a 2" or 3" NPT flange.
- Extra duty option for ambient water temperature of 60 °C (140 °F)
- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Single phase models available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug
- CE rated AK models available with a 10.0 m (33') cord and no molded plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

Automatic Design





Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U161	Auto	220	1	5.6	1.2	1/2	38	84
V161	Non	220	1	5.6	1.2	1/2	37	82
AK161	Non	380	3	2.0	1.2	1/2	38	84
U162	Auto	220	1	8.0	1.8	1/2	38	84
V162	Non	220	1	8.0	1.8	1/2	37	82
AK162	Non	380	3	3.0	1.8	1/2	37	82
U163	Auto	220	1	6.4	1.6	1/2	38	84
V163	Non	220	1	6.4	1.6	1/2	38	84
AK163	Non	380	3	2.9	1.6	1/2	37	82
U165	Auto	220	1	9.6	2.2	1	38	84
V165	Non	220	1	9.6	2.2	1	37	82
AK165	Non	380	3	2.0	2.2	1	37	82

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Cast iron
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	19 mm (3/4") spherical solids
	Power Cord Length	6 m (20') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor or 3 Ph
	RPM	2800
	Rotor	SAE 1117 carbon steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload (1 Ph)
	Class Protection	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		40 cm (15-3/4") / 13.3 cm (5-1/4")

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Finned motor housing design provides great heat dissipation
- Recessed, non-clogging vortex impeller design provides great solids-passing capability

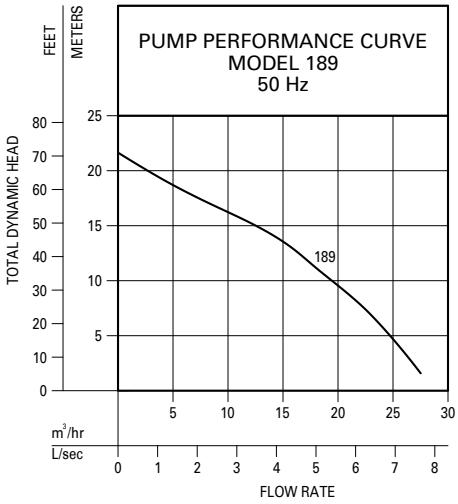
APPLICATIONS:

- Sump/effluent handling
- Dewatering
- Water transfer

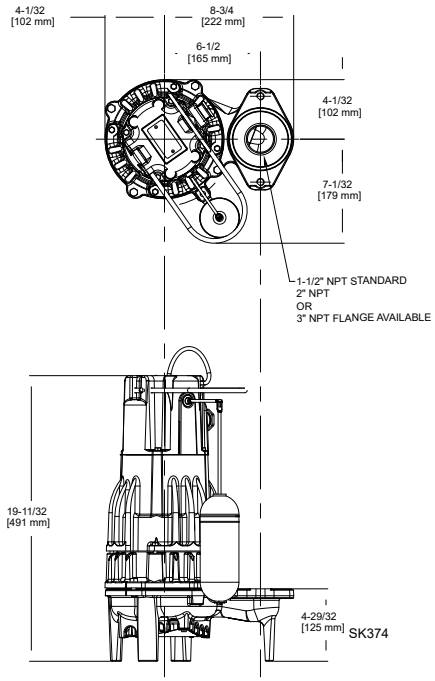
OPTIONAL:

- Available with a 2" or 3" NPT flange.
- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Single phase models available with a type E/F (5 or 10 m), G (10 m) or I (5 m) plug
- CE rated AK models available with a 10.0 m (33') cord and no molded plug

* Power cords less than 10.0 m (33') are intended for indoor use only.



Automatic Design



Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U189	Auto	220	1	14.2	2.9	2	41	90
V189	Non	220	1	14.2	2.9	2	41	90
AK189	Non	380	3	4.5	2.9	2	37	82

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Cast iron
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	19 mm (3/4") spherical solids
	Power Cord Length	6 m (20') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor or 3 Ph
	RPM	2800
	Rotor	SAE 1117 carbon steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload (1 Ph)
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		40 cm (15-3/4") / 13.3 cm (5-1/4")

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Engineered plastic and stainless steel components provide improved corrosion resistance
- Vent hole prevents air lock
- Lifting handle for easy installation and removal

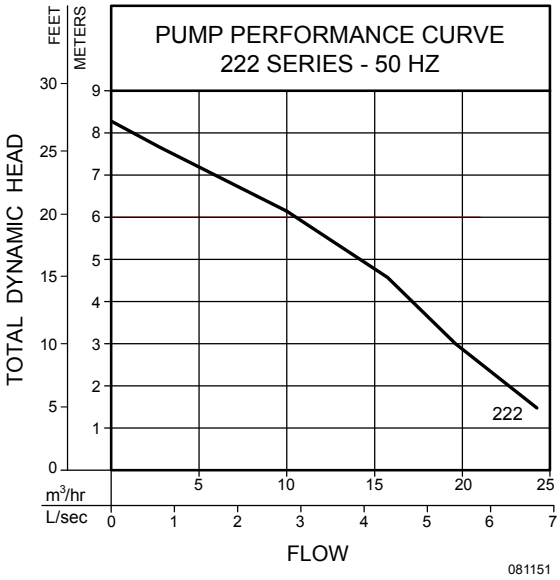
APPLICATIONS:

- Residential wastewater from septic tank
- Wastewater removal from livestock areas
- Factory wastewater removal
- Wastewater containing objects removal

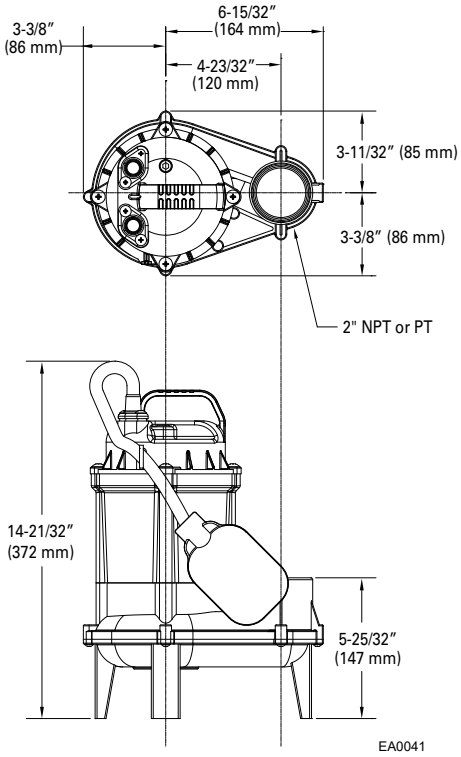
OPTIONAL:

- Additional cord lengths available in 6.0 m (20') or 10.0 m (33')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.



Automatic Design



Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U222	Auto	220	1	5.2	1.03	3/4	9	20
WU222	Auto	220	1	5.2	1.03	3/4	9	20
V222	Non	220	1	5.2	1.03	3/4	9	20

PUMP	**Material**	
	Pump Housing	Engineered plastic
	Impeller	Engineered plastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	NBR
	Power Cord	H07RN-F
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	50 mm (2") spherical solids
	Power Cord Length	4.5 m (15') standard for CE models
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	2800
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IPX8
	Cooling	Oil filled
Maximum Fluid Temperature		40 °C (104 °F)
Discharge Size		2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		24 cm (9-7/16") / 14 cm (5-1/2")

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FEATURES:

- Thermal overload protection motor and rugged cast iron motor housing for long life
- High efficient motor; oil-filled for enhanced heat dissipation
- Engineered thermoplastic and stainless steel components provide improved corrosion resistance
- Vent hole prevents air lock
- Non-clogging vortex impeller passes up to 50 mm (2") spherical solids
- Carrying handle for convenient pump placement
- Standard 10 m (33') cord
- Maximum operating water temperature 40 °C (104 °F)
- Switch on/off point: on: 450 mm (17-23/32"), off: 180 mm (7-3/32")

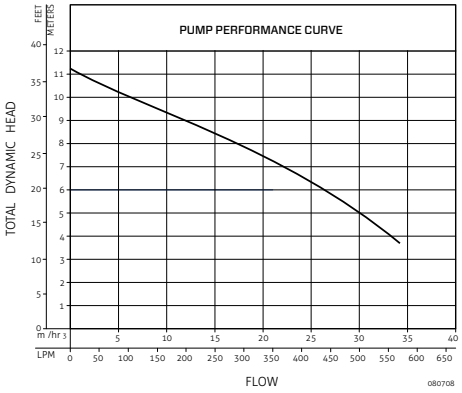
OPTIONAL:

- Additional cord lengths available in 3.0m(9') or 6.0m (20')
- Available with a type E/F [4.5m(15') or 10.0m(33')] G [4.5m(15') or 10.0m(33')] or I [4.5m(15') or 10.0m(33')] plug.

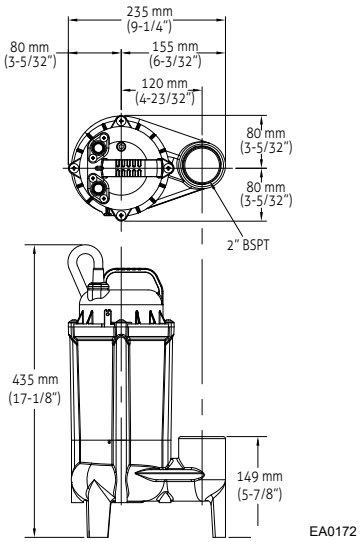
* Power cords less than 10.0 m (33') are intended for indoor use only.

APPLICATIONS:

- Wastewater removal for residential septic systems
- Factory wastewater removal
- Wastewater removal for livestock
- Wastewater removal containing solids
- General wastewater removal



Automatic Design



Model	Mode	Volt	Ph	Amp	Motor		Weight	
					kW (p1)	HP	kg.	Lbs.
V223	Non-Auto	220 V	1	8.5	1.86	1	18.1	39.9
WU223	Auto-Tethered	220 V	1	8.5	1.86	1	18.1	39.9

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Engineered plastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	NBR
	Power Cord	H07RN-F
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	50mm (2") spherical solids
	Power Cord Length	4.5 m (15')
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	2850
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IPX8
	Cooling	Oil filled
Maximum Fluid Temperature		40 °C (104 °F)
Discharge Size		2"NPT
Max. Submersion Depth		6m (20')
Hardware		Stainless steel
On/Off Point		450 mm (17-23/32"), off: 180 mm (7-3/32")

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Engineered plastic and stainless steel components provide improved corrosion resistance.
- Vent hole prevents air lock
- Lifting handle for easy installation and removal

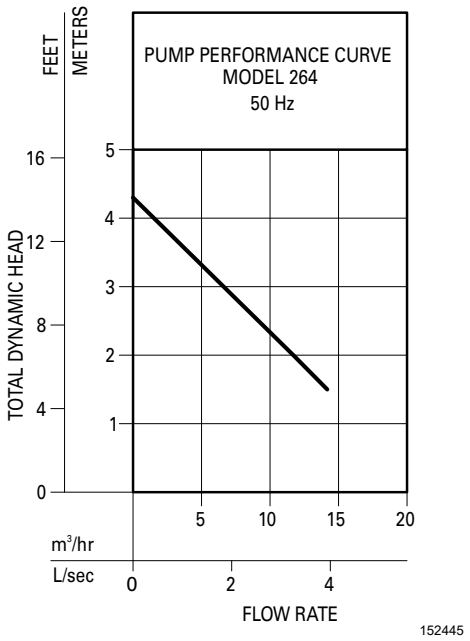
APPLICATIONS:

- Residential wastewater removal from septic tank
- Wastewater removal from livestock areas
- Factory wastewater removal
- Wastewater containing objects removal

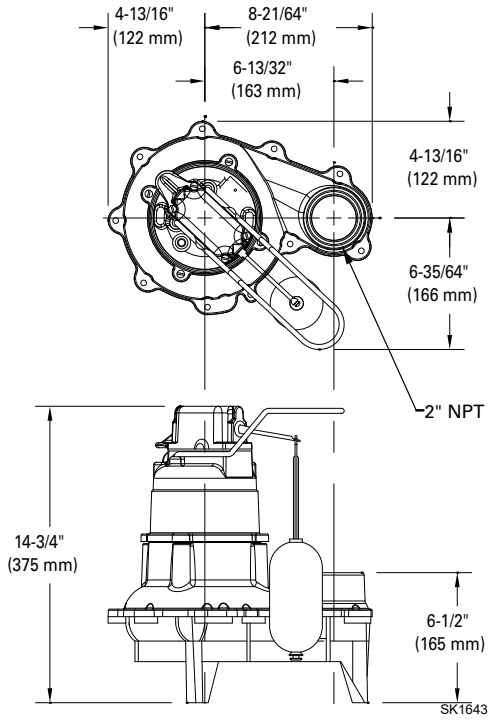
OPTIONAL:

- Additional cord lengths available in 7.6 m (25') or 10.6 m (35') and 15.2 m (50')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.



Automatic Design



Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
U264	Auto	220	1	4.9	0.94	4/10	16	36
V264	Non	220	1	4.9	0.94	4/10	16	36

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Engineered plastic
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Power Cord	SJEOW
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Sleeve bearing upper/lower
	Solid Passing	50 mm (2") spherical solids
	Power Cord Length	4.5 m (15') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	1400
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		31.8 cm (12-1/2") / 11.4 cm (4-1/2")

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Designed to provide great heat dissipation from the motor
- Recessed, non-clogging vortex impeller design provides great solids-passing capability

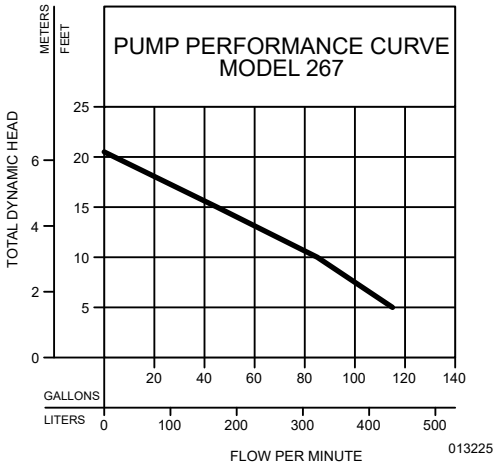
APPLICATIONS:

- Wastewater / sewage handling
- Dewatering
- Water transfer

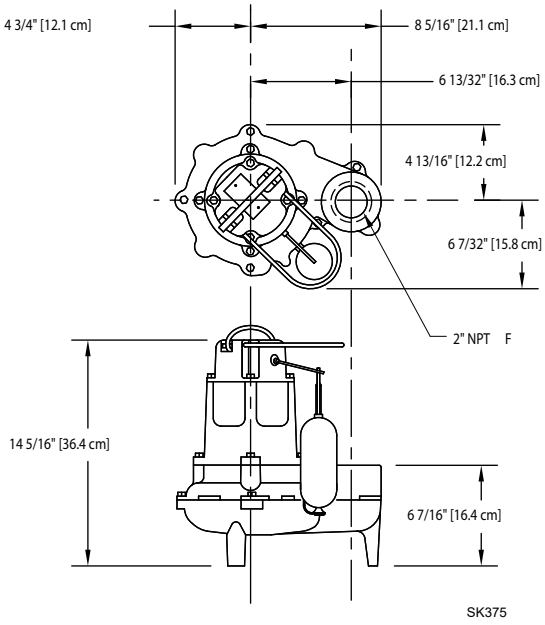
OPTIONAL:

- Extra duty option for ambient water temperature of 60 °C (140 °F)
- Cast iron impeller available
- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.



Automatic Design



Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	KW (p1)	HP	Kg.	Lbs.
U267	Auto	220	1	5.8	1.0	1/2	22	49
V267	Non	220	1	5.8	1.0	1/2	22	49

PUMP	**Material**	
	Pump Housing	Cast iron
	Base	Cast iron
	Impeller	Engineered plastic w/ metal insert
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Sleeve bearing upper/lower
	Solid Passing	50 mm (2") spherical solids
	Power Cord Length	4.5 m (15') auto, 4.5 m (15') nonauto
MOTOR	Motor Housing	Cast iron
	Type	Split phase
	RPM	1400
	Rotor	AISI 1215 cold roll steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		30.4 cm (12") / 10.1 cm (4")

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270/4270, 271/4271



FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Designed to provide great heat dissipation from the motor
- Recessed, non-clogging vortex impeller design provides great solids-passing capability
- Double seal models prevent leaks and damage to seals or bearings during dry-run conditions

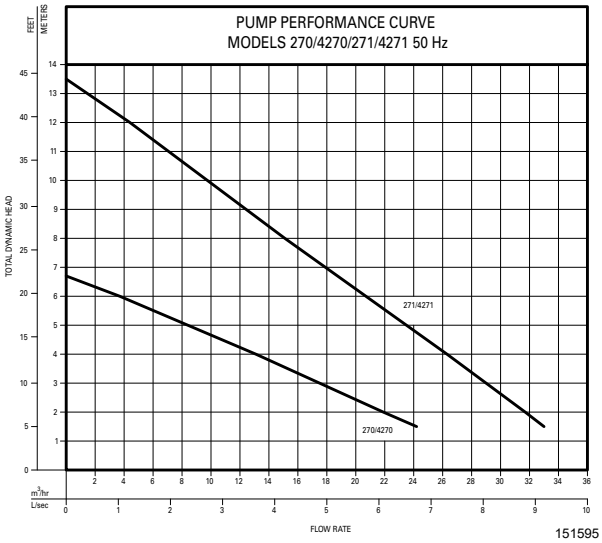
APPLICATIONS:

- Wastewater / sewage handling
- Dewatering
- Water transfer

OPTIONAL:

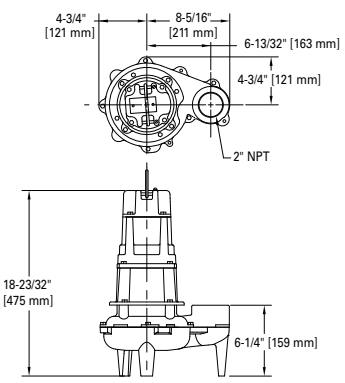
- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

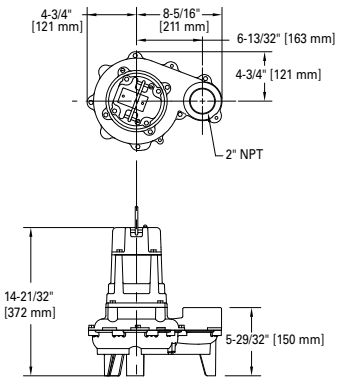


151595

Double Seal Design



Single Seal Design



SK1532

Model		Mode	Volt	Ph	Amp	Motor		Weight	
Single Seal	Double Seal					kW (p1)	HP	kg.	Lbs.
WU270		Auto	220	1	6.2	1.1	1	22	49
V270		Non	220	1	6.2	1.1	1	22	49
	V4270	Non	220	1	6.2	1.1	1	33	73
WU271		Auto	220	1	8.5	1.7	1	22	49
V271		Non	220	1	8.5	1.7	1	22	49
	V4271	Non	220	1	8.5	1.7	1	33	73
AK271		Non	380	3	3.0	1.7	1	22	49

PUMP	**Material**	
	Pump Housing	Cast iron
	Base	270/271: engineered plastic
		4270/4271: cast iron
	Impeller	Engineered thermoplastic or cast iron
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Sleeve bearing upper/ball bearing lower
	Solid Passing	50 mm (2") spherical solids
	Power Cord Length	6 m (20') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor or 3 Ph
	RPM	2800
	Rotor	AISI / 144 steel or SIS S45C steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload (1 Ph)
	Protection Class	IXP8
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel

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FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Automatic units include a float-operated, submersible, 2-pole mechanical switch.
- Small footprint design allows for easy installation
- Finned motor housing design provides great heat dissipation

APPLICATIONS:

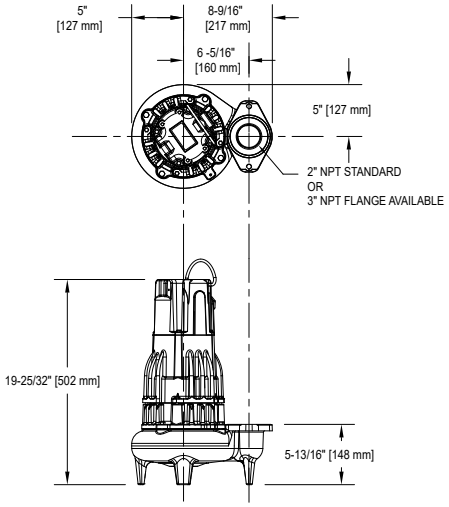
- Wastewater / sewage handling
- Dewatering
- Water transfer

OPTIONAL:

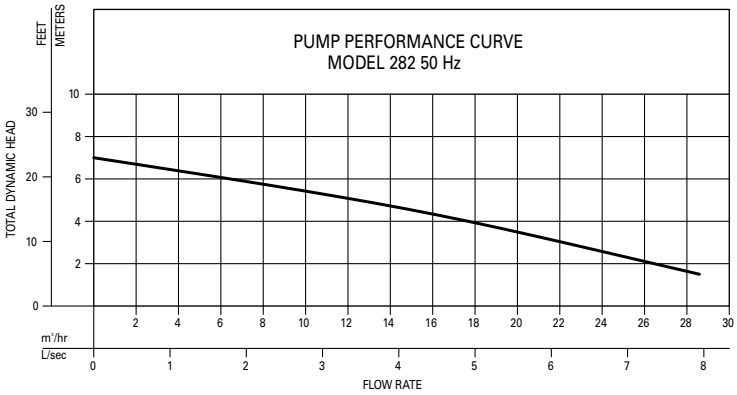
- Available with a 3" flange
- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Single phase models Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [10.0 m (33')] or I [4.5 m (15')] plug
- CE rated AK models available with a 10.0 m (33') cord and no molded plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

Single Seal Design



SK1023



012410

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Cast iron
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	50 mm (2") spherical solids
	Power Cord Length	4.5 m (15')
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	1400
	Rotor	SAE 1117 carbon steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload (1 Ph)
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		41.9 cm (16-1/2") / 13.3 cm (5-1/4")

Model	Mode	Volt	Ph	Amp	Motor		Weight	
Single Seal					kW (p1)	HP	kg.	Lbs.
U282	Auto	220	1	5.7	1.1	1/2	37	82
V282	Non	220	1	5.7	1.1	1/2	37	82

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292, 293, 294



FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Automatic units equipped with float-operated, submersible mechanical switch
- Small footprint design allows for easy installation
- Finned and oil-filled motor housing design provides great heat dissipation

APPLICATIONS:

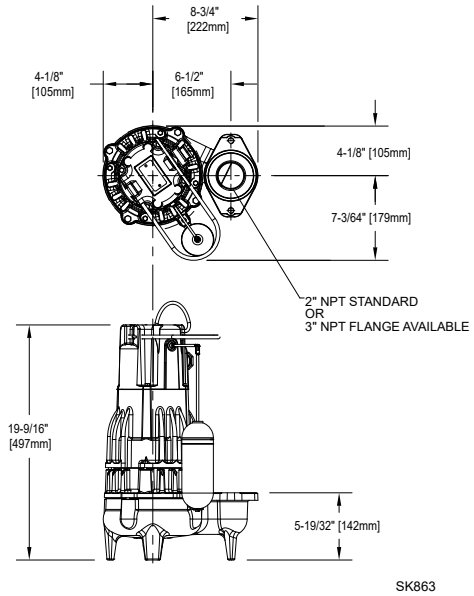
- Wastewater / sewage handling
- Dewatering
- Water transfer

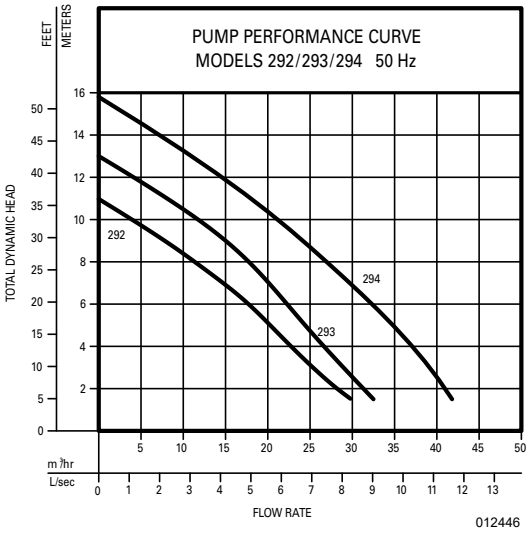
OPTIONAL:

- Available with a 3" NPT flange
- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Single phase models available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

Automatic Design





Model		Mode	Volt	Ph	Amp	Motor		Weight	
Single Seal						kW (p1)	HP	kg.	Lbs.
U292		Auto	220	1	7.4	1.5	1/2	40	88
V292		Non	220	1	7.4	1.5	1/2	40	88
AK292		Non	380	3	3.0	1.7	1/2	40	88
U293		Auto	220	1	8.2	1.8	1	42	93
V293		Non	220	1	8.2	1.8	1	40	88
AK293		Non	380	3	3.5	1.8	1	40	88
U294		Auto	220	1	14.3	3.0	1-1/2	41	90
V294		Non	220	1	14.3	3.0	1-1/2	41	90
AK294		Non	380	3	4.7	3.0	1-1/2	41	90

PUMP	Material	
	Pump Housing	Cast iron
	Impeller	Cast iron
	Shaft Seal	Carbon and ceramic
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	50 mm (2") spherical solids
	Power Cord Length	6 m (20') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor or 3 Ph
	RPM	2800
	Rotor	SAE 1117 carbon steel
	Insulation Class	B (292, 293), F (294)
	Motor Protection	Auto reset thermal overload (1 Ph)
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel
On/Off Point		37.5 cm (14-3/4") / 12.7 cm (5")

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805, 807



THE SHARK SERIES

APPLICATIONS:

- Residential wastewater
- Light commercial

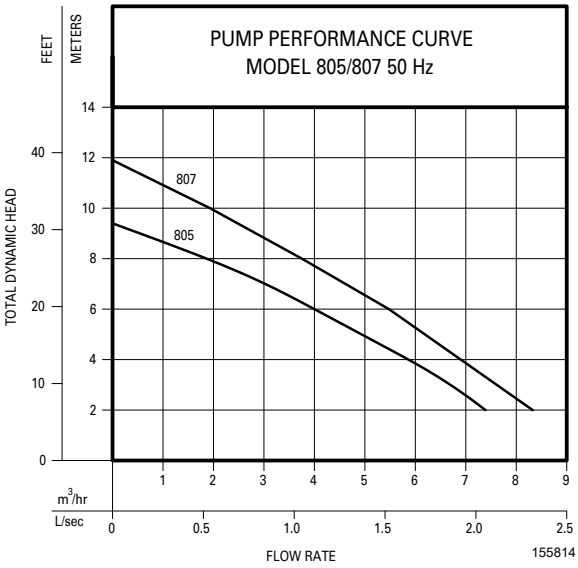
FEATURES:

- 1-1/4" NPT discharge
- Cast iron construction
- Oil-filled for optimal heat dissipation
- Thermally-protected motor

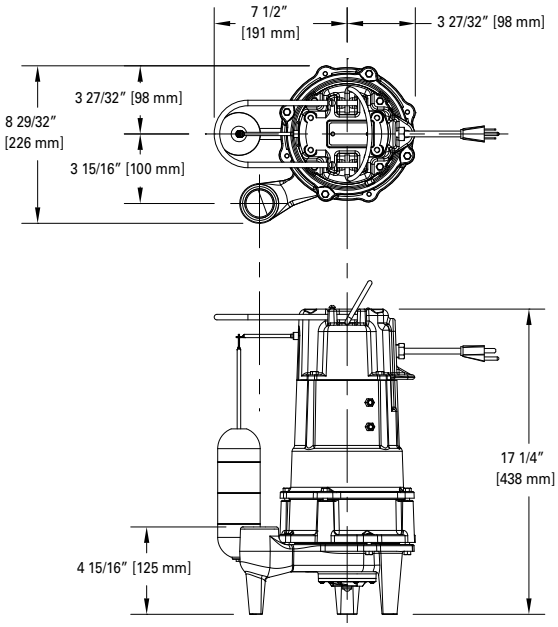
OPTIONAL:

- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [4.5 m (15') or 10.0 m (33')] or I [4.5 m (15')] plug

* Power cords less than 10.0 m (33') are intended for indoor use only.



Automatic Design



Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW	HP	kg.	Lbs.
U805	Auto	230	1	3.3	0.6	0.75	29	65
V805	Non	220	1	3.3	0.6	0.75	29	65
U807	Auto	220	1	3.5	0.7	1	29	65
V807	Non	220	1	3.5	0.7	1	29	65

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Engineered plastic
	Shaft Seal	Carbon and ceramic
	Seal	Neoprene
	Power Cord	SOW / SOOW
	Design Features	
	Impeller	Non-clogging Vortex
	Bearings	Ball Bearing upper/ lower
	Power Cord Length	4.5 m (15') standard
MOTOR	Motor Housing	Cast Iron
	Type	Capacitor Start / Capacitor Run
	RPM	2800
	Rotor	AISI 1215 Cold rool steel
	Insulation Class	Class B
	Motor Protection	Auto reset thermal overload
	Protection Class	IPX8
	Cooling	Oil Filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/4 " NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless Steel
Cutter/Cutter Plate		440C Stainless Steel

815

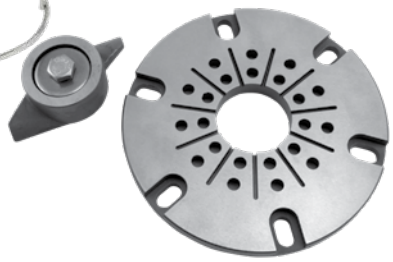


FEATURES:

- Progressive cavity grinder pump with a hardened, stainless steel cutter and cutter plate
- Stainless steel mounting stand for free-standing installation
- Cast iron motor housing with powder coated epoxy finish
- Finned motor housing design provides great heat dissipation

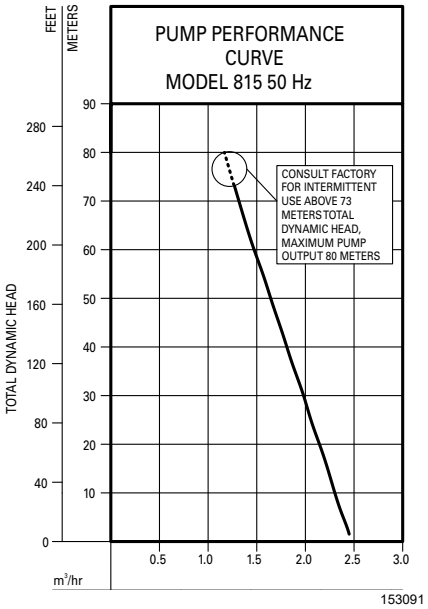
APPLICATIONS:

- Low pressure sewer systems
- High head sewage systems
- Residential and commercial

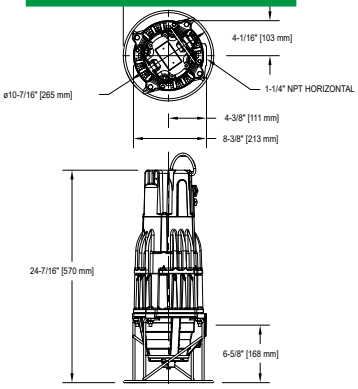


OPTIONAL:

- Available with a CE rated 10.0 m (33') H07RN cord, no sensor cord and no molded plug



Model 815



SK2533

NSF / ANSI 46

Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
Z815	Non	230	1	8.5	2.0	2	41	91

PUMP	**Material**	
	Pump Housing	Cast iron
	Hydraulic Rotor	Stainless steel
	Hydraulic Stator	Buna-N
	Shaft Seal	Carbon and ceramic
	Seal	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Helical
	Bearings	Ball bearing upper/lower
	Power Cord Length	6 m (20') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor
	RPM	1400
	Rotor	AISI 416 stainless steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload (1 Ph)
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		40 °C (104 °F)
Discharge Size		1-1/4" NPT
Max. Submersion Depth		9 m (30')
Hardware		Stainless steel
Cutter/Cutter Plate		440C Stainless steel/RockWell C 55-60

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840, 841



FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Finned motor housing design provides great heat dissipation
- Moisture probes and leads
- Dual shaft seals
- Model 840 has reversible cutting action (3PH only)

APPLICATIONS:

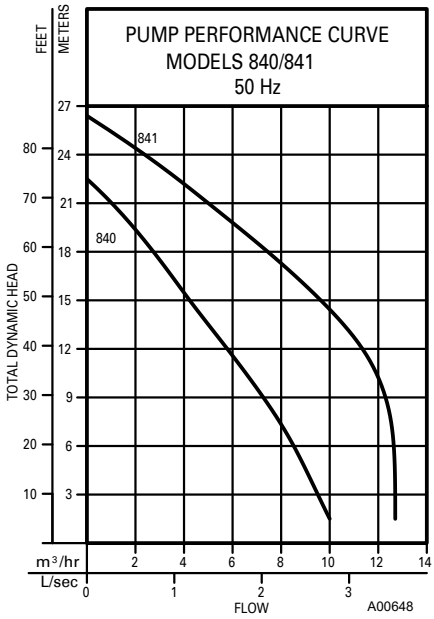
- Low pressure sewer systems
- High head sewage systems
- Municipal, commercial and industrial



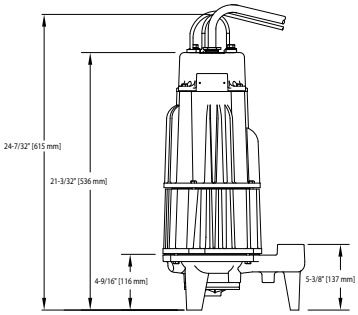
OPTIONAL:

- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Available with a CE rated 10.0 m (33') H07RN cord, sensor cord and no molded plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

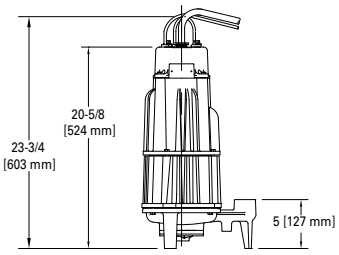


Model 840



SK1322

Model 841



SK2365

Model					Motor		Weight	
Single Seal	Mode	Volt	Ph	Amp	kW (p1)	HP	kg.	Lbs.
V840	Non	220	1	12.0	3.0	2	60	132
AK840	Non	380	3	4.4	2.5	2	60	132
V841	Non	220	1	12.0	3.0	2	60	132
AK841	Non	380	3	4.4	2.5	2	60	132

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Ductile iron (840, 841)
	Shaft Seal	Carbon and ceramic
	Seal	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Power Cord Length	6 m (20') standard
MOTOR	Motor Housing	Cast iron
	Type	Capacitor start capacitor run or 3 Ph
	RPM	2800
	Rotor	AISI 416 stainless steel
	Insulation Class	F
	Motor Protection	Auto reset thermal overload (1 Ph) or Thermal sensor (3 Ph)
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/4" NPT
Max. Submersion Depth		9 m (30')
Hardware		Stainless steel
Cutter/Cutter Plate		440C Stainless steel/RockWell C 55-60

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371, 372, 373



FEATURES:

- Continuous-duty evaporative cooling pumps
- Cast iron motor housing with powder coated epoxy finish
- Designed to provide great heat dissipation from the motor
- Recessed, non-clogging vortex impeller design provides great solids-passing capability

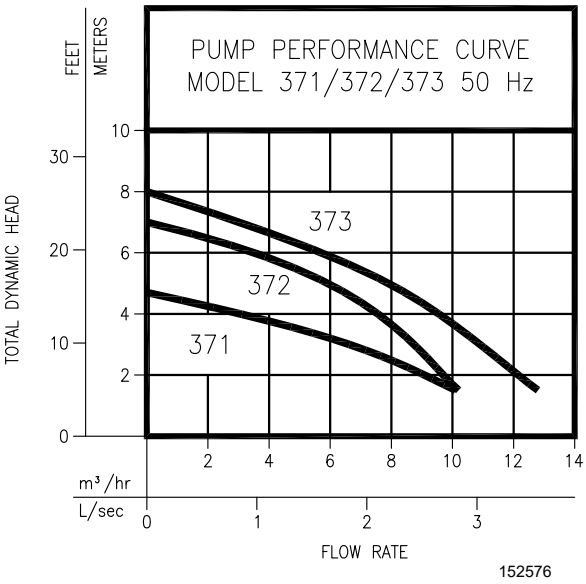
APPLICATIONS:

- Poultry industry
- Dewatering
- Water transfer

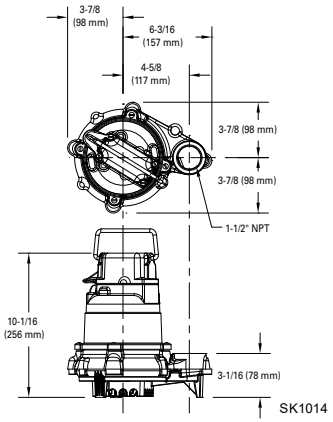
OPTIONAL:

- Additional cord lengths available in 7.6 m (25'), 10.6 m (35') and 15.2 m (50')
- Single phase models Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [10.0 m (33')] or I [4.5 m (15')] plug

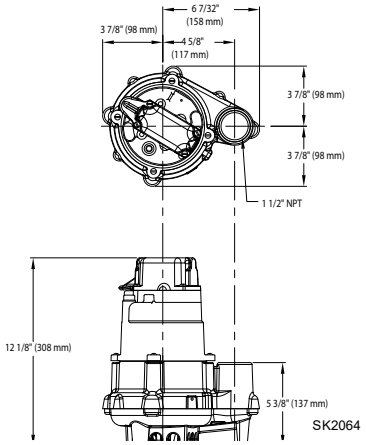
* Power cords less than 10.0 m (33') are intended for indoor use only.



Model 371



Model 372/373



Model		Volt	Ph	Amp	Motor		Weight	
Single Seal	Mode				kW (p1)	HP	kg.	Lbs.
V371	Non	220	1	5.2	0.72	1/3	10	21
V372	Non	220	1	2.6	0.46	1/3	15	32
V373	Non	220	1	3.6	0.56	1/2	17	37

PUMP	**Material**	
	Pump Housing	Cast iron
	Impeller	Engineered thermoplastic
	Shaft Seal	Silicon carbide/carbon
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel (if ball bearings)
	Power Cord	H07RN-F
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Sleeve bearing upper/sleeve ball bearing lower
	Solid Passing	12 mm (1/2") or 19 mm (3/4") spherical solids
	Power Cord Length	8 m (25') standard
MOTOR	Motor Housing	Cast iron
	Type	Shaded pole, permanent split capacitor
	RPM	1300 or 2800
	Rotor	SAE 1117 carbon steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		1-1/2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel

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4290, 4291



FEATURES:

- Cast iron motor housing with powder coated epoxy finish
- Finned motor housing design provides great heat dissipation
- Recessed, non-clogging vortex impeller design provides great solids-passing capability
- Double seal models prevent leaks and damage to seals or bearings during dry run conditions

APPLICATIONS:

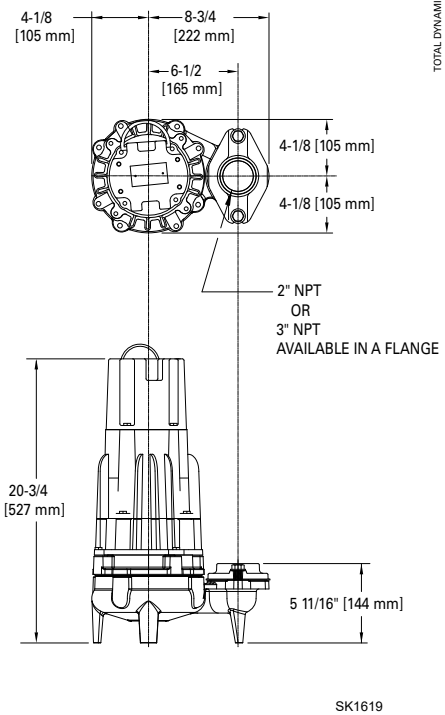
- Agricultural
- Lagoon recirculation systems
- Sump pit systems

OPTIONAL:

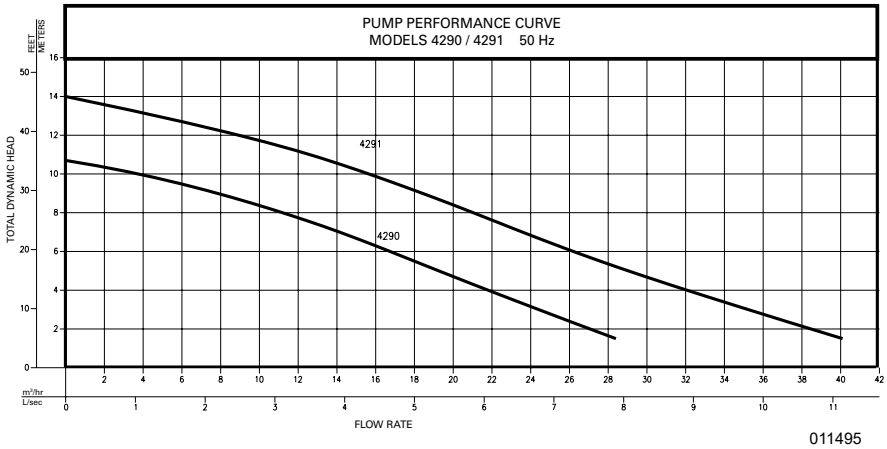
- Available with a 3" NPT flange.
- Additional cord lengths available in 22.9 m (75') and 30.4 m (100')
- Single phase models available with a type E/F (10.0 m) or G plug.
- Model V4290 is available with a type I [4.5 m(15')] plug
- CE rated AK models available with a 10.0 m (33') cord and no molded plug

* Power cords less than 10.0 m (33') are intended for indoor use only.

Nonautomatic Design



SK1619



011495

	Material	
PUMP	Pump Housing	Cast iron
	Impeller	Bronze
	Shaft Seal	Silicon carbide/carbon (upper) Silicon carbide/silicon carbide (lower)
	Seal and gasket	Neoprene
	Bearings	High carbon chrome steel
	Power Cord	SOW/SOOW (CE model H07RN-F)
	Design Features	
	Impeller	Non-clogging vortex
	Bearings	Ball bearing upper/lower
	Solid Passing	38 mm (1-1/2") spherical solids
	Power Cord Length	15 m (50') standard
MOTOR	Motor Housing	Cast iron
	Type	Permanent split capacitor or 3 Ph
	RPM	2800
	Rotor	AISI 416 stainless steel
	Insulation Class	B
	Motor Protection	Auto reset thermal overload (1 Ph)
	Protection Class	IP68
	Cooling	Oil filled
Maximum Fluid Temperature		54 °C (130 °F)
Discharge Size		2" NPT
Max. Submersion Depth		6 m (20')
Hardware		Stainless steel

Model	Mode	Volt	Ph	Amp	Motor		Weight	
Double Seal					kW (p1)	HP	kg.	Lbs.
V4290	Non	220	1	5.9	1.4	1	46	101
V4291	Non	220	1	14.0	2.8	2	47	104
AK4291	Non	380	3	3.5	2.1	2	47	104

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Drain Pump Series 105, 135

Removes water from areas where gravity flow is not available





Model 105

NO INLET FILTERS OR SCREENS TO CLEAN

FEATURES:

- 100% factory tested and pre-assembled
- Quick & easy installation
- Oil-filled, hermetically-sealed motor with automatic reset thermal overload protection
- Compact design
- May be installed with internal trap for space savings
- Handles fluid temperatures up to 54 °C (130 °F)
- Durable cast iron pump with non-clogging vortex impeller passes lavatory lint (no strainer)
- Stainless steel hardware

APPLICATIONS:

- Laundry tray pumps (fits under a single or double tub)
- Wet bar sink
- Lavatories
- Condensation removal
- Residential diswasher and garbage disposal water removal
- Dehumidifier units

OPTIONAL:

- Available with a type E/F [4.5 m (15') or 10.0 m (33')], G [10.0 m (33')] or I [4.5 m (15')] plug



Model 135 High Head

NOTE: Products may not be exacty as pictured.

EASY INSTALLATION - NO NEED TO DIG A SUMP

INCLUDES:

- Automatic cast iron pump with tank, cord seals and hardware
- Basin and gas-tight cover
- Internal discharge pipe to lid (trap supplied by others)
- Check valve (model 105: 30-0181; model 135: 30-0102)

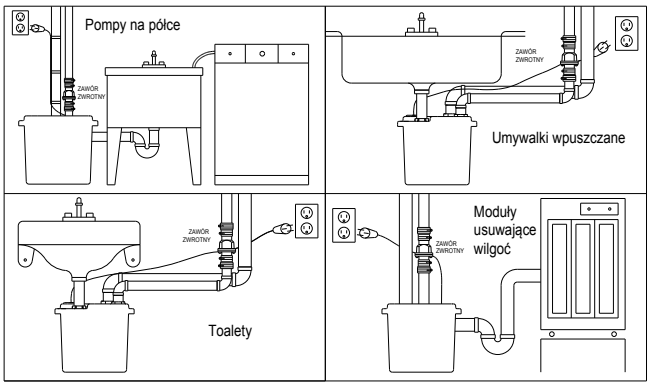
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Drain Pump Series 105, 135

TECHNICAL INFORMATION:

MODEL 105 FEATURES:

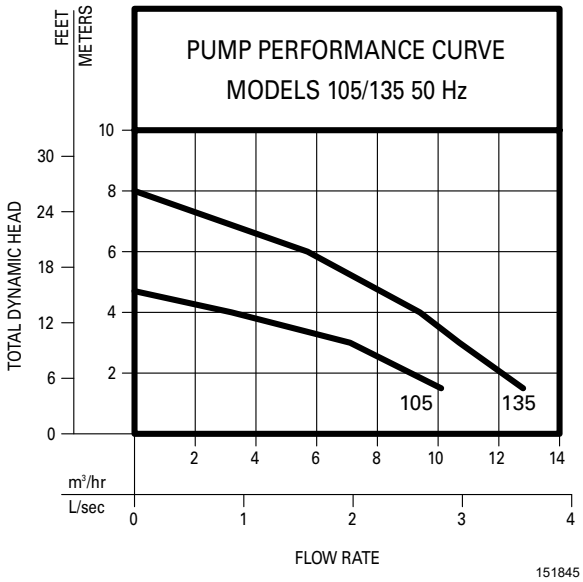
- 16 liter (4.2 gal.) polypropylene tank
- Model 53 pump
- Upper and lower sleeve bearings
- Passes 12 mm (1/2") spherical solids
- DN40 (1-1/2") drain inlet (top or side); DN50 (2") NPT vent; DN40 (1-1/2") NPT discharge
- DN40 (1-1/2") or DN32 (1-1/4") slip x slip union "full flow" PVC check valve (30-0181)
- 4.5 m (15') cord (other cord lengths available upon request)
- Shipping wt. 16 kg. (35 lbs.)
- Max. head: 4.7 m (15.5')
- Max. flow: 10.1 m^3/hr (44 GPM)



Model	Mode	Volt	Ph	Amp	Motor		Weight	
Single Seal					kW (p1)	HP	kg.	Lbs.
105	Auto	220	1	5.2	0.72	3/10	16	35
135	Auto	220	1	3.6	0.56	4/10	22	49

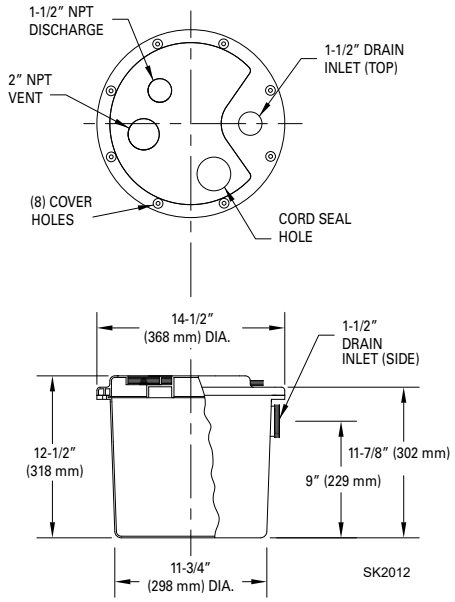
MODEL 135 FEATURES:

- 23 liter (6 gal.) polyethylene tank
- Model 152 pump
- Upper sleeve bearing and lower ball bearing running in a bath of oil
- Passes 19 mm (3/4") spherical solids
- DN50 (2") NPT drain inlet (side); DN50 (2") NPT vent; DN 40 (1-1/2") NPT discharge
- DN40 (1-1/2") solvent weld, "full flow" PVC check valve (30-0102)
- 6 m (20') cord (other cord lengths available upon request)
- Shipping wt. 22 kg. (48 lbs.)
- Max. head: 9.8 m (32')
- Max. flow: 13.4 m^3/hr (59.2 GPM)

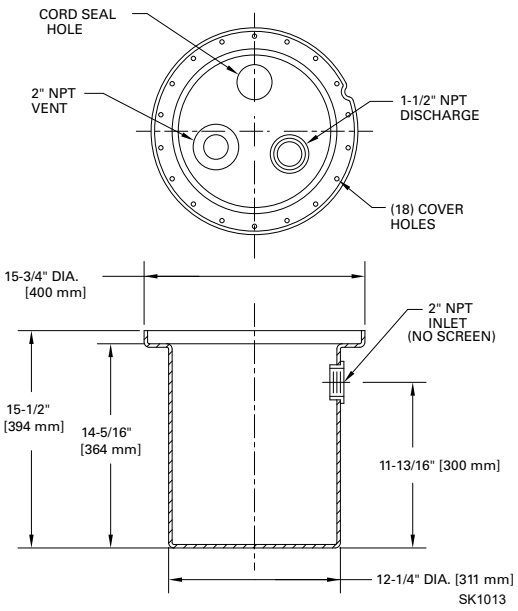


BASIN DIMENSIONS

Model 105



Model 135



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MAKING BATHROOM INSTALLATIONS EASY!

QWIK JON® PREMIER

FEATURES:

- A quiet, preassembled grinder pump system requiringminimal space for installation!
- Install a complete bathroom without breaking concrete!
- Easily connects to a tub, shower, sink, or other fixtures with 2" NPT or 1-1/2" (DN25) slip side inlets!
- Tri-Slice® Cutter Technology - three independent cutting channels, 50 Hz - provide over 200,000 cuts per minute.
- Install as a freestanding unit or behind a wall with the extension kit.
- Automatic reset thermal overload protects the pump.
- Carbon/Ceramic mechanical shaft seal for long life.
- Upper and lower ball bearings for efficient and quiet operation.
- Non-clogging vortex impeller for reliable operation.
- Recessed side handles for carrying
- Withstands total immersion (IP68)
- 1" Discharge elbow with built-in check valve.
- Standard 6' (1.8 m) cord with right angle plug.
- Premium investment-cast 440C stainless steel cutter and cutter plate.



201-0006

QWIK JON® CHOICE:

FEATURES:

- A quiet, preassembled pump and macerator system requiring minimal space for installation!
- Install a complete bathroom without breaking concrete!
- Easily connects to a tub, shower, sink, or other fixtures with 2" NPT or 1-1/2" (DN25) slip side inlets!
- No gravity drain required.
- Install as a freestanding unit.
- Automatic reset thermal overload protects the pump.
- Carbon/Ceramic mechanical shaft seal for long life.
- Upper and lower ball bearings for efficient and quiet operation.
- Non-clogging vortex impeller for reliable operation.
- Recessed side handles for carrying.
- Convenient snap-fit covers for easy access t macerator and electrical juntion box.
- Discharge elbow with built-in check valve.
- Standard 6' (1.8 m) cord.
- For recessed or behind-the-wall installations, use Extention Kit PN 10-3050.



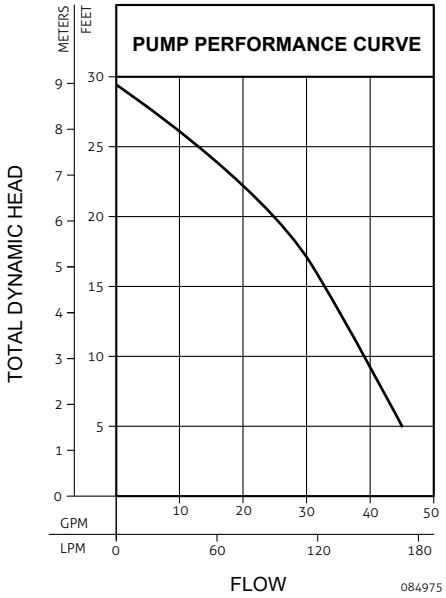
200-0006

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TECHNICAL INFORMATION:

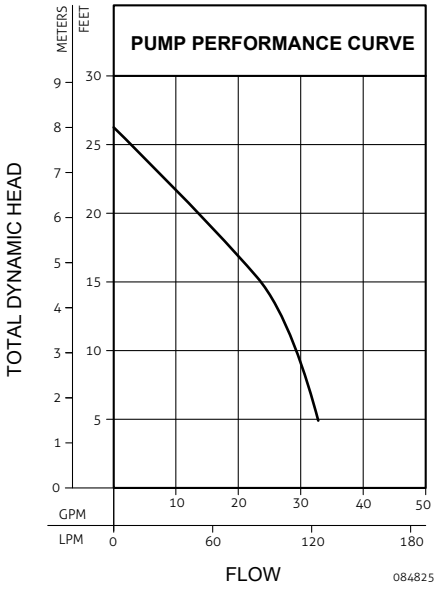
QWIK JON® PREMIER

Model	Mode	Volts (V)	Ph Ø	Amps (A)	Motor		Weight	
					kW (p1)	HP	kg	lbs
201	Vertical Switch	220	1	3.3	0.71	1/2	13.5	29.8



QWIK JON® CHOICE

Model	Mode	Volts (V)	Ph Ø	Amps (A)	Motor		Weight	
					kW (p1)	HP	kg	lbs
200	Vertical Switch	220	1	2.5	0.46	1/3	11	24.3



ACCESSORIES TO COMPLETE YOUR BATHROOM PROJECT



202-3002

202-2000



10-3050



10-5090

170468
MEETS UPC
COMPLIES WITH
ASME A112.3.4
AND CSA B45.9

227875
Tested to Standard
UL778 and Certified
to CSA Standard
C22.2 No.108

When used with 1.28 gallon tank and fill valve.

Model 202 meets the Americans with Disabilitie ct guidelines and ANSI 117.1 requirements for accessible and usable facilities - check local codes

Oil Guard® System Model 941



Simplex system shown with model V53 pump

Designed to help protect the environment and equipment from the dispersion of oils and/or hydrocarbons.

APPLICATIONS:

- Transformer vaults
- Manufacturing facilities
- Any application where there is a need to remove water containing oil

SYSTEMS:

- Operation of the Zoeller Oil Guard® System has been independently verified by OnSpeX, div. of CSA, when installed in accordance with our instructions.
- Choose from four pump models. Includes pump, switch and alarm (optional control panel)

PUMP FEATURES:

- Durable cast iron construction with powder coated epoxy finish and all stainless steel fittings

OIL SMART® LIQUID ALARM PANEL SPECIFICATION:

- 240 VAC
- Type 4X non-metallic enclosure
- External dimensions: 15 cm x 15 cm x 10 cm (6" x 6" x 4")
- 94V-2 Polycarbonate, IP-56 rating
- Alarm only; cannot be used to operate pump



FEATURES:

- External mounting feet for quick installation to any flat surface
- Silence switch and test switch
- Mounting hardware included
- Red beacon alarm light
- Alarm automatically resets
- High 85 decibel audible alarm and dry contact
- Easily accessible terminal blocks
- Liquid Smart alarm switch 6 m (20') cord; available up to 61 m (200')

SIMPLEX PANEL FEATURES:

- Oil Smart® liquid alarm sensor
- Oil Smart® pump switch (10-2447)
- 220 volts, single phase
- NEMA 4X watertight enclosure with lockable latch
- 30 amp motor start relay
- Pump HOA switch
- Top mounted red alarm beacon light
- 81 - 84 decibel rated alarm horn
- Horn silence and alarm test switches
- Alarm automatically resets
- Dry auxiliary alarm contacts
- Separate circuit protection for alarm
- Circuit breaker protection
- Pump run indicator light



C SP® US
229594

DUPLEX ALTERNATING PANEL FEATURES:

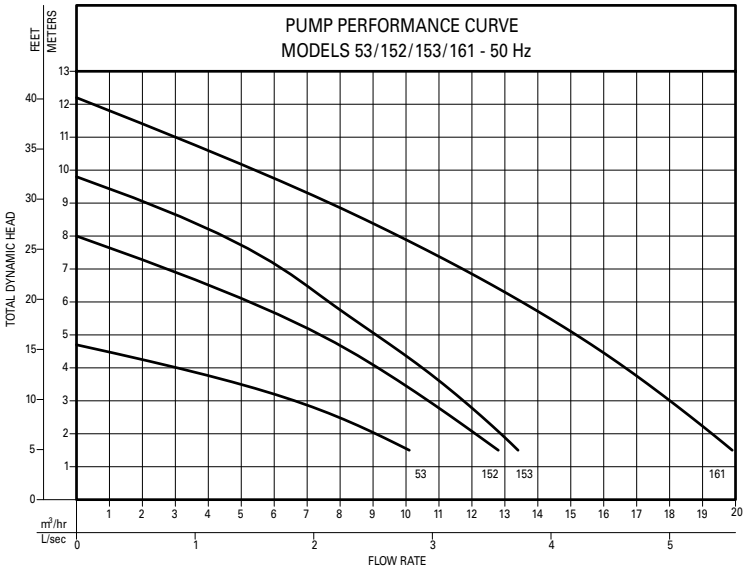
- Oil Smart® liquid alarm sensor
- Oil Smart® pump switch (10-2447)
- Oil Smart® high-water alarm switch for high demand two-pump operation
- 220 volts, single phase
- NEMA 4X water-tight enclosure with lockable latch
- Two 30-amp motor start relays
- Pump HOA (Hand-Off-Auto) switches
- Top-mounted red alarm beacon light
- 81 - 84 decibel rated alarm horn
- Horn silence and alarm test switches
- Alarm automatically resets
- Dry auxiliary alarm contacts
- Separate circuit protection for alarm
- Pump run indicator light

C SP® US
229594



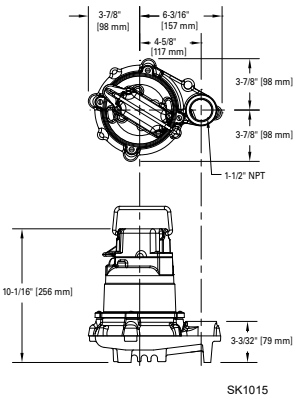
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Oil Guard® Systems continued



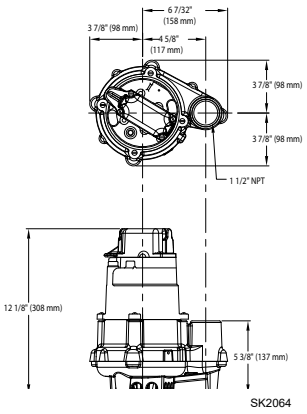
019547_50hz

Model 53



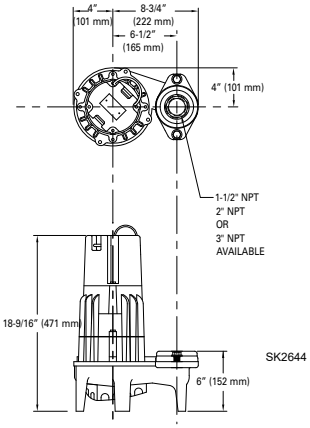
SK1015

Model 152/153



SK2064

Model 161



SK2644

Build your own system or choose a prepackaged system, see below.

CONTROLS:

Part Number	Description	Control Panel	Oil Smart® Pump Switch	Oil Smart® Liquid Alarm Sensor	Oil Smart® High Liquid Alarm Switch
10-3149	Oil Smart® Liquid Alarm Panel	√	....	√	....
10-2447	Oil Smart® Pump Switch w/o Plug	....		....	....
10-2284	Oil Smart® Simplex Panel	√	√	√	....
10-2285	Oil Smart® Duplex Panel	√	√	√	√

√ (included)

CHOOSE A PREPACKAGED SYSTEM:

Part Number	Description	Control Panel	Nonauto Pump P/N
941-0005	Oil Smart® Control, Simplex with 0.3 HP V53	10-2284	53-0073
941-0006	Oil Smart® Control, Simplex with 0.4 HP V152	10-2284	152-0016
941-0007	Oil Smart® Control, Simplex with 0.5 HP V153	10-2284	153-0013
941-0008	Oil Smart® Control, Simplex with 0.5 HP V161	10-2284	161-0070

Note: Check local codes for minimum required flow.

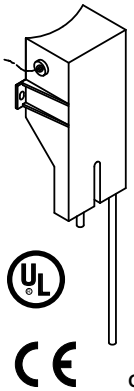
PUMPS:

Pump	Nonauto Model	Volts	Ph	kW	HP	Amps
53-0073	V53	220	1	0.72	3/10	5.2
152-0016	V152	220	1	0.56	4/10	3.6
153-0013	V153	220	1	0.71	1/2	4.3
161-0070	V161	220	1	1.20	1/2	5.6

These systems are not designed for explosion-proof environments. Please consult factory for special options and requirements.

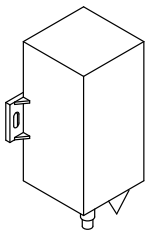
OPERATION:

Oil Smart® Pump Switch



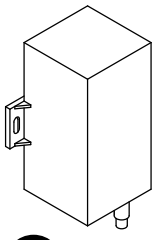
When water comes in contact with the short (on) sensor, the pump will remain on until water clears the long (off) sensor. If oil comes in contact with the on sensor, the pump will not turn on; however the pump switch will activate and pump water from under the oil. Oil does not harm the system. The sensors can oscillate through oil and water.

Oil Smart® Liquid Alarm Sensor



If a high liquid comes in contact with the sensors of the Liquid Smart Alarm sensor, the sensor will send a signal to the control panel that there is a high liquid present. Simultaneously, the alarm sensor will differentiate and indicate if oil or water is present.

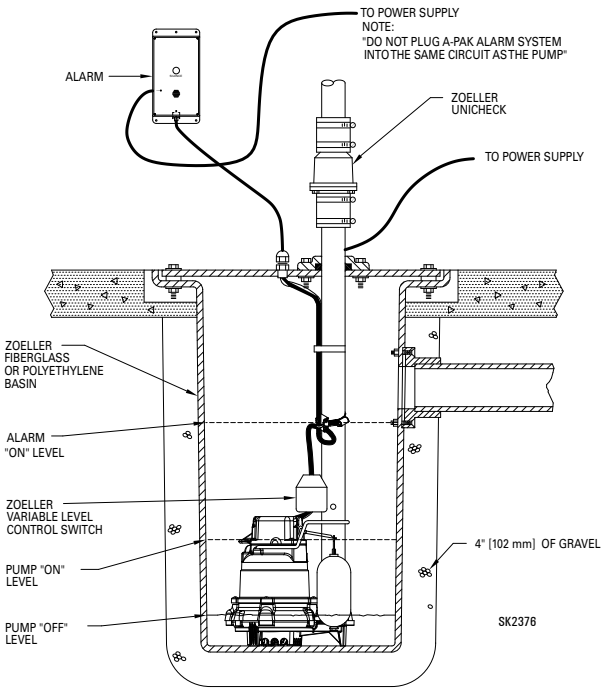
High Liquid Alarm Switch



If water continues to enter the sump and one pump cannot keep up with the inflow of water, water will make contact with the sensor of the high water two-pump demand switch. If water comes in contact with the sensor, the second pump will turn on and both pumps will continue to pump water until water clears the off sensor of the Oil Smart® switch, shutting both pumps down.

APAK® Alarm Systems

Zoeller recommends that ALL systems be installed with a check valve and high water alarm whether it is a small sump pump, sewage system, or a large outdoor lift station. From indoor residential systems to NEMA 3R commercial/industrial applications, Zoeller has the right alarm for the job.



91104-0001 A-PAK outdoor alarm features:

- NEMA 4X Outdoor use per UL 864 for US and Canada
- Alarm system (horn & light) operates to warn of a high-water condition
  -Horn is rated 82 decibels at 10' (3 m) • Auxiliary dry contacts for high level alarm, 5 Amps
- Operates on separate circuit from pump, 115 VAC
- Alarm test and horn silence switch with automatic reset



Model 91104-0001

Indoor A-Pak® Alarm features:

- NEMA 1 enclosure
- Automatic alarm reset
- Horn is rated 87 decibels at 3 m (10')
- 2 AA battery back-up (battery not included)
- 10-4011 includes 4.5 m (15') reed sensor
- 10-4012 includes 4.5 m (15') mechanical float switch
- UL / CSA listed



Model 10-4011



Model 10-4012

Full-Flow Unichecks

The Zoeller "Full-Flow" Unicheck features flexible neoprene slip x slip unions with all stainless steel clamps and screws. This saves installation time and is simple to install. No pipe threading required. Checks back flow of water and sewer gas and features an extra wide flapper hinge to prevent hinge stress. Can be installed in a vertical or horizontal line. Available in cast iron or PVC construction.

30-0021	DN50 (2") Plastic Slip x Slip Unions	Max. 4.3 psi - 3.0 m (10') head (30 kPa)
30-0151	DN50 (2") Cast iron Slip x Slip Unions	Max. 4.3 psi - 3.0 m (10') head (30 kPa)
30-0023	DN50 (2") Plastic Solvent welded couplings	Max. 25 psi - 17.6 m (58') head (172 kPa)
30-0101	DN50 (2") PVC valve/ball valve/union combination	Max. 25 psi - 17.6 m (58') head (172 kPa)
30-0103	DN50 (2") PVC valve/union combination	Max. 25 psi - 17.6 m (58') head (172 kPa)


30-0021
PVC PLASTIC


30-0151
CAST IRON


30-0103


30-0101

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Float Switches

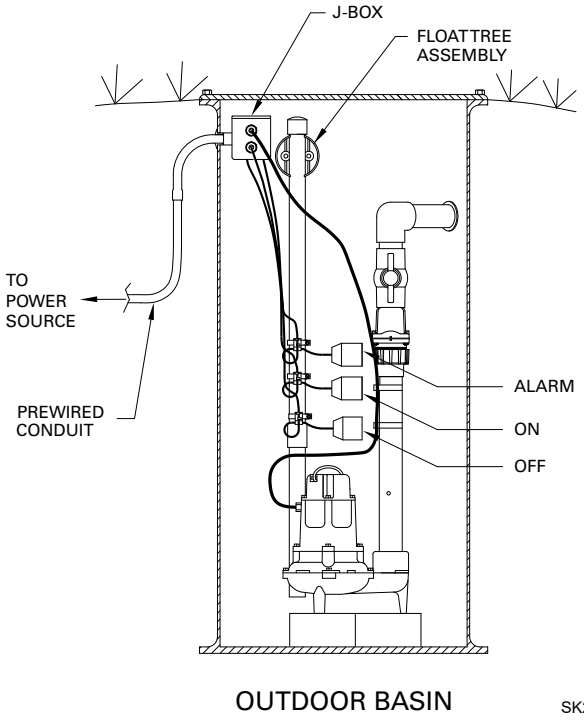
Zoeller has a full line offering of pump and control switches for applications pumping up or down. Constructed of PVC/Poly and available in various lengths. UL listed, mechanical switches. Float tree assemblies, hangers, weights and other accessories are available to meet your needs on any project.



CLAMP TYPE



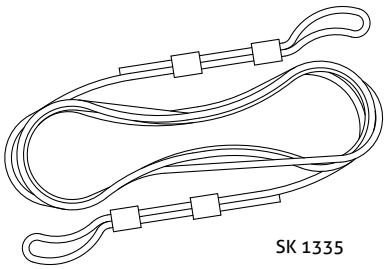
ADJUSTABLE WEIGHT TYPE



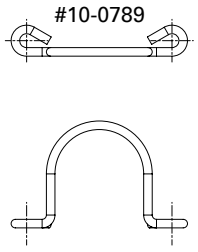
Disconnect and Rail Systems

Complete systems for sewage, effluent and grinder pumps can be field-installed or factory-installed in concrete, steel or fiberglass basins and tanks. Guide rails direct the pump to and from the base elbow. See FM0787.

1/8" Stainless Steel Lifting Cables*



SK 1335



SK2486

Part Number	Length
39-0031	8'
39-0032	12'
39-0033	16'
39-0034	20'
39-0035	24'

*Cable recommended for commercial duty pumps and 2HP grinder pumps.

Z-RAIL® DISCONNECT SYSTEM (1-1/4", 1-1/2", 2" & 3" Vertical Discharge & 1-1/4" Horizontal Discharge)

Rail & Disconnect Systems for effluent or sewage pumps allow for removal and reinstallation of pumps without getting in or removing fluid from the pit. Guide rails direct the pump to and from the coupling base. Systems are supplied complete with coupling base, sealing plate, pump discharge elbow, and upper rail support bracket. All systems use schedule 40 pipe rails (not included).

39-0134, 1-1/4" vertical x 2" NPT
39-0131, 1-1/2" vertical x 2" NPT
39-0128, 2" vertical x 2" NPT
39-0122, 3" vertical x 3" NPT
39-0137, 1-1/4" horizontal x 2" NPT
Pipe rails, pull rods and intermediate brackets not included.



Z-Rail® Disconnect System

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Control Panels



c UL us LISTED

An electrical panel is used on a simplex (single) pump application where automatic electrical cycling of the pump is desired for added protection in residential or commercial applicatons. An electrical alternator is used on a duplex (dual) pump application where automatic alternation of pumps is desired for added protection in residential or commercial applications. With one pump operating to handle normal flow, a second pump becomes operational in the event the water level continues to rise. The built-in alarm system, a standard feature, can be connected to sound when the second pump becomes operational (3-float switch system) or independently (4-float switch system) . All electrical systems must be installed by a qualified electrician and according to the governing codes. Refer to the Control Panel Selection Guide on the following page for selecting the panel most appropriate for your application.

Standard Features for Simplex and Duplex Control Panels:

- HOA (hand-off-auto) toggle switch for each pump
- Green pump run pilot light for each pump
- Alarm test and silence switches
- Audible alarm with 83 to 85 decibel rating for a high-water condition
- Red alarm beacon included with NEMA 4X enclosure
- Auxiliary dry contact
- High water alarm
- Single phase: circuit breaker for each pump
- Three phase: motor protective switch with overload protection
- Magnetic starter for each pump
- Alternating mechanism (duplex only)
- Numbered terminal strip for connecting pumps and variable level float switches
- NEMA 4X: watertight enclosures
- Integral auxiliary terminal board connections (dry contact) for remote alarm devices
- 3 or 4 variable level float switch control operation
- 2-year warranty
- The use of off-the-shelf components provides for relatively easy field maintenance and repair

Plug Types

None	E / F - CEE 7/7 Plug	G - British Standard 1363	I - CPCS - CCCC (China)
No molded plug.			

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About the Zoeller Family of Water Solutions

Founded in 1939, Zoeller Company is one of the oldest independently-owned professional pump manufacturers in North America. Headquartered in Louisville, Kentucky USA, Zoeller has over 800 employees worldwide and close to 600,000 sq. ft. of manufacturing facilities from our seven operations in North America and Asia.

Zoeller Company has established itself as an innovative leader in pumping equipment and water treatment systems by continuous research and development. The quality of our products is demonstrated by UL, CSA, CE, RCM and NSF listings as well as continued growth throughout the United States, Canada, Mexico, and over 40 other countries around the globe. The company has also expanded to include five brands, which have become the foundation of Zoeller.

ZOELLER PUMP COMPANY

The original Zoeller product line now resides in Zoeller Pump Company, which offers a broad range of submersible pumps from fractional to 7-1/2 HP for residential and commercial sump, effluent, dewatering and grinding applications.

F&W FLINT & WALLING

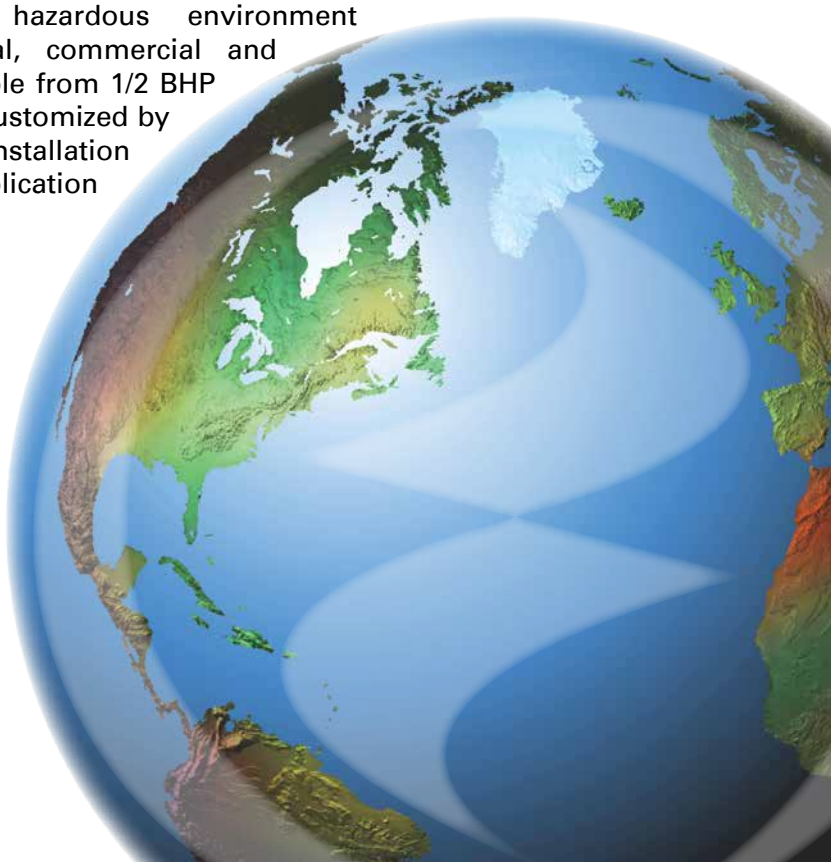
Flint & Walling, founded in 1866 in Kendallville, Indiana USA, is the only pump company in the U. S. to manufacture its own motor for jet and centrifugal pumps. This product line specializes in deep well pumps that range from 5 GPM to 1,000 GPM, as well as centrifugal, jet, booster, and submersible pumps up to 7-1/2 HP.

WOLF CUSTOMIZED PUMPS

Founded in 1952, Wolf Pump is a manufacturer of submersible turbine pumps located in Abernathy, Texas. Wolf currently produces 4" to 8" pumps with capacities ranging from 35 to 1000 GPM. These pumps are known for their efficiency and durability in demanding water applications including irrigation, municipal water supplies, dewatering applications, dairy production, mining, the oil and gas industries, aquaculture, and more.

ZOELLER ENGINEERED PRODUCTS

Zoeller Engineered Products provides products for storm water removal, sewage pumping stations and hazardous environment applications for residential, commercial and municipal markets. Available from 1/2 BHP to 100 BHP, each pump is customized by design, manufacture and installation according to exact application needs.



FM1540
0726
Supersedes
0426

ZOELLER® PUMP COMPANY

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