



Trusted for generations. Our founding company has been part of the industry since 1935. In 1978, our sales team held a meeting at the Red Lion Hotel in the Washington area. Our customers wanted a line of pumps separate from the Plumbing/HVAC line. We decided to start a retail product line and thought the name Red Lion was a good fit. An aggressive marketing campaign followed and in 1979 Red Lion was born.

In 2007, the Red Lion pump line was purchased by Franklin Electric and in 2011 we merged the Red Lion line with the Little Giant Hardware line, offering the diverse product line available today. We also invested in updating our brand: with new packaging, marketing materials, and new product developments. Today we continue to increase our product line with new and innovative products. The end result is a line we are very proud of.

Our key philosophy is DIFFERENTIATION.

- Red Lion is about branding strategy we are the only pump manufacturer with RED pumps.
 What's so special about red pumps? It grabs the consumer's attention. We've redesigned our packaging to help simplify the selection process for consumers and store personnel and we've created eye-catching, color-coordinated marketing materials to further assist the consumer.
- Red Lion is everything you'd expect from a manufacturer who's been in the business since 1935 – quality, availability, and innovation.
- Red Lion is about service the best way to identify and correct problems is going to the stores directly
 and that's exactly what our experienced sales force does. We interact with your staff, providing marketing
 materials, plan-o-gram services, training sessions, and even on-the-spot aisle training.
- Red Lion is about product knowledge we have one of the most comprehensive training programs on the market.
 Our knowledgeable pump experts pass on their expertise and provide valuable tools and tips which help reduce returns and increase your sales.



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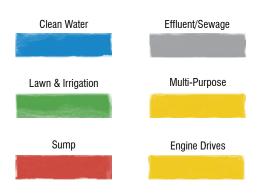
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Every effort has been made to ensure the accuracy of the information provided in this catalog. We reserve the right to change any information contained in this catalog without notice. Stenographic and clerical errors are subject to corrections.

EASY COLOR & WARRANTY GUIDE







FEATURED PRODUCTS

RL-SWJ SERIES CAST IRON SHALLOW WELL JET PUMPS

APPLICATIONS

Ideal for the supply of fresh water to rural homes, farms, and cabins that have suction lifts down to 25'.

FEATURES & BENEFITS

- Shallow well jet pump ideal for use in shallow well applications down to 25'
- · Rugged cast iron construction
- Includes factory pre-set 30/50 pressure switch producing up to 50 psi
- 115/230 Volt heavy-duty motor

RL-33SC/RL-50SC SNAP-ACTION SUMP/EFFLUENT PUMPS

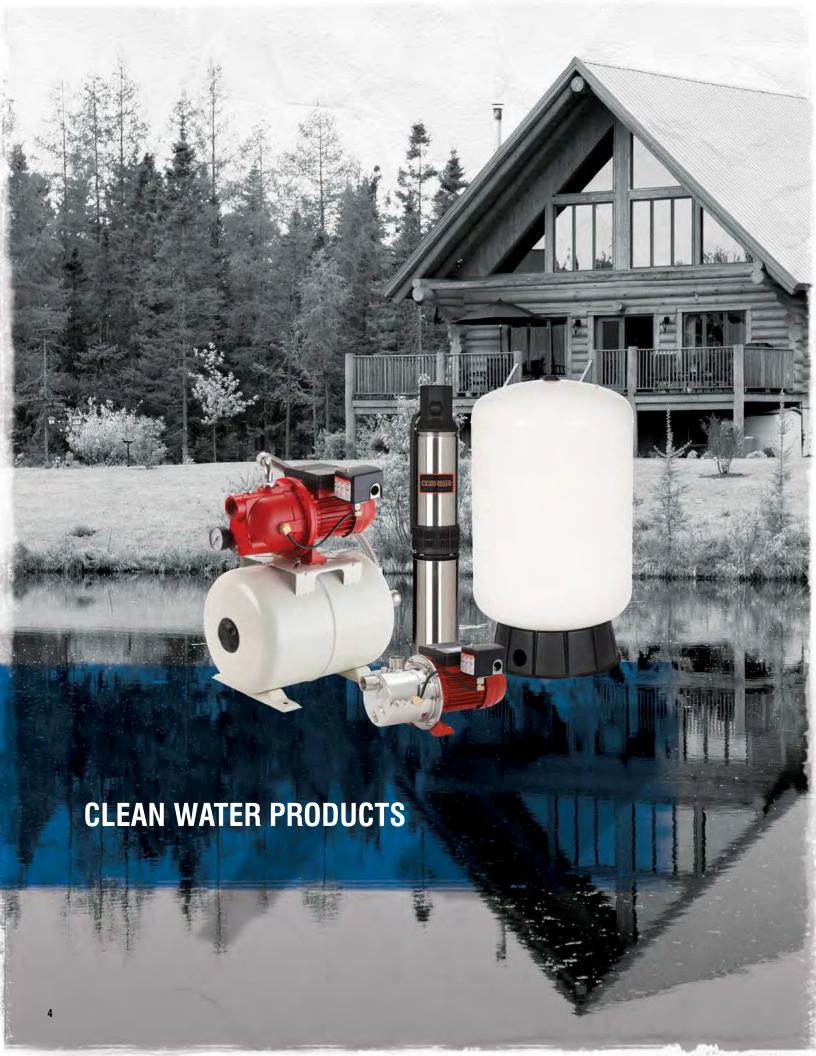
APPLICATIONS

Ideal for average-to high-volume water and effluent removal in residential spaces such as basements, laundry facilities, and crawl spaces.

FEATURES & BENEFITS

- · Automatic submersible cast iron sump/effluent pump
- 1-1/2" FNPTdischarge
- Integrated snap-action float switch suitable for use in narrow basins (11" or greater)
- Solid float will never become waterlogged
- Built-in rod protection prevents float from contacting basin
- Clog-resistant design (1/2" diameter semi-solids handling)
- 10' cord





CLEAN WATER

Why do you need a well pump?

A well pump supplies water to your home from within the ground. You may need a Red Lion well pump to replace an existing or undersized pump or to install in a new home. Whether you purchase a pump for replacement or new installation purposes, it is important to determine and select the correct pump.

New installation

New installation, although not difficult, does require a bit more consideration:

1. What is the well's depth to water?

The depth of the well to water is easily determined by attaching a small floatable device to the end of a string. Lower the string into the well until the device floats. Simply mark the string at ground level, remove from the well, and measure the length.

2. What type of pump do you need?

Based on your well's depth to water, choose your pump.

25 ft or less	Shallow well jet pump See illustration "A"
25 ft to 90 ft	Convertible jet pump See illustration "B"
25 ft to 400 ft	Submersible well pump See illustration "C"

There are both 2-wire and 3-wire submersible pumps. All 1 hp and smaller 3-wire submersible pumps include a control panel, which is required for installation.

3. What pump size do you need?

Determine well pump size by calculating how much water your house will use. This is easily done by counting the number of water fixtures in your home: showers, faucets, outdoor spigots, and waterusing appliances (dishwashers, clothes washers, refrigerators). Each fixture requires one gallon per minute (gpm) of flow. The gpm is clearly marked on the front of each Red Lion box.

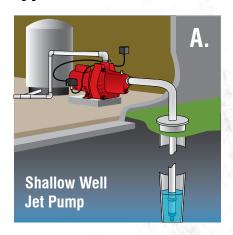
Tools needed

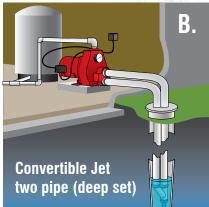


Replacing an existing pump

Both shallow and deep well jet pumps pump water out of your well through one or two inlet pipes that run down below the ground into your well. Look at the number of pipes to determine the type of pump you need. If your pump has one pipe, you need a shallow well jet pump or a deep well submersible pump; two pipes mean you need a convertible jet pump for deep well application.

Typical installations







RedLionProducts.com Hotline: 1.888.956.0000

PREMIUM SHALLOW WELL JET PUMPS

APPLICATIONS

Ideal for the supply of fresh water to rural homes, farms, and cabins that have suction lifts down to 25° .

FEATURES & BENEFITS

- High performance shallow well jet pump

 Able to handle the water demands of large homes, cottages, and farms
- Rugged cast iron casing
 For years of service and reliability
- Heavy-duty dual voltage (115/230 Volt) motor with capacitor
 For increased starting power
- Includes factory pre-set 30/50 pressure switch Produces up to 50 psi with automatic shut-off
- Glass-filled thermoplastic impeller and diffuser
 For superior performance and efficient water flow

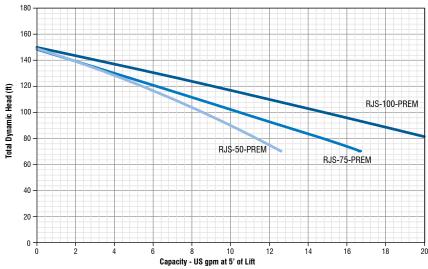


										arge Pr	ressure	(PSI)	Max.	
Model	Item Number	UPC	HP	Volts	Amps	Intake	Discharge	Suction Lift	30	40	50	60	Pressure	Max. Head
	Trumbo.								Ga	llons P	er Min	ute	PSI	nouu.
					11 0 A @ 11E V			5'	12.6	10	6.1	2	65	150'
RJS-50-PREM	602206	0 10121 14702 7	1/2	115/230	11.8 A @ 115 V 5.9 A @ 230 V	1-1/4" FNPT	1" FNPT	15'	10	7.9	4	-	60	139'
			0.3 A @ 230 V				25'	6.9	6.2	2.5	-	55	127'	
					44440044514			5'	16.7	12.5	7	1.8	65	150'
RJS-75-PREM	602207	0 10121 14704 1	3/4	115/230	14.4 A @ 115 V 7.2 A @ 230 V	1-1/4" FNPT	1" FNPT	15'	13.1	10	4.9	-	60	139'
					1.2 A @ 230 V	D 230 V 174 1111	I I FINFI	25'	8.4	7.1	2.1	-	55	127'
					1701011511			5'	23.2	16.8	10.6	3.5	65	150'
RJS-100-PREM 6	602208	602208 0 10121 14705 8	1	115/230	17.6 A @ 115 V 8.8 A @ 230 V	1-1/4" FNPT	1" FNPT	15'	19.5	14.1	7.7	-	60	139'
					0.0 A W 230 V			25'	13.3	11.5	5.3	-	55	127'

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RJS-50-PREM	10.5"	20.5"	10.25"	38	1.28	24	6	4
RJS-75-PREM	10.5"	20.5"	10.25"	39	1.28	24	6	4
RJS-100-PREM	10.5"	20.5"	10.25"	40	1.28	24	6	4

Premium Cast Iron Shallow Well Jet Pumps



CAST IRON SHALLOW WELL JET PUMPS

APPLICATIONS

Ideal for the supply of fresh water to rural homes, farms, and cabins that have suction lifts down to 25'.

FEATURES & BENEFITS

- Shallow well jet pump Ideal for use in shallow wells less than 25' deep
- Heavy-duty cast iron construction For years of service and reliability
- Includes factory pre-set 30/50 pressure switch Produces up to 50 psi with automatic shut-off
- 115/230 Volt heavy-duty motor
 TEFC design with simple connection to existing power source

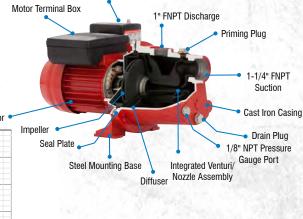


CLEAN WATER

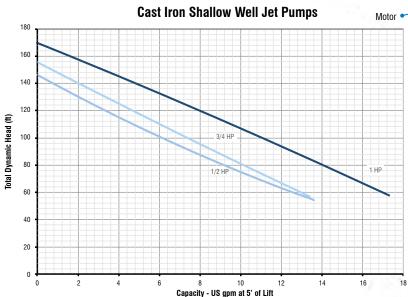
									Dis	scharg	e Press	sure (P	SI)	Max.			
Model	Item Number	UPC	HP	Volts	Amps	Intake	Discharge	Suction Lift	20	30	40	50	60	Pressure	Max. Head		
	Trullipor									Gallon	s Per I	Minute		PSI	Houd		
					8.4 A @ 115 V	1 1//"		5'	13.6	12.6	7.3	3.4	1	64	148'		
RL-SWJ50	97080502	0 10121 14671 6	1/2	115/230	0.4 A @ 113 V	FNPT	1" FNPT	15'	9.7	9.5	5.5	2.8	0.3	60	139'		
					4.2 A @ 230 V		-1	25'	4.7	5	4.1	1.7	-	57	133'		
								5'	13.4	13	9.1	4.8	1.5	70	161'		
RL-SWJ75	97080701	0 10121 14672 3	3/4	115/230	9 A @ 115 V		1-1/4" 1" FNPT	15'	9.8	9.7	7.2	3.4	0.8	66	152'		
			-, .	,	4.5 A @ 230 V	FNPT		25'	4.4	5.2	4.8	1.8	0.4	62	144'		
								5'	17.3	17	12.9	8.5	4.4	74	172'		
RL-SWJ100	97081001	0 10101 14672 0	4	115/230	13.2 A @ 115 V 1- 6.6 A @ 230 V F		1-1/4"	/ 1-1/4"	1" ENDT	15'	12.7	12.4	10.9	0.5	2.7	74 72	166'
HT-24/1100	97001001	0 10121 14673 0	1	113/230				25'	6.7	6.5		ر د ۲	2.1	68			
								ZD.	0.7	0.0	6.6	5.2	2	80	156'		

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SWJ50	12"	17.25"	11.75"	23	1.41	32	8	4
RL-SWJ75	12"	17.25"	11.75"	24.55	1.41	32	8	4
RL-SWJ100	12"	17.25"	11.75"	30.55	1.41	32	8	4



30/50 Pressure Switch



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STAINLESS STEEL SHALLOW WELL JET PUMP

APPLICATIONS

Ideal for supply of fresh water to rural homes, farms, and cabins that have suction lifts down to 25'.

FEATURES & BENEFITS

RED HON

- Shallow well stainless steel jet pump Ideal for use in pumping at depths of 25' or less
- Corrosion-resistant stainless steel pump housing For years of service and reliability
- Includes factory pre-set 30/50 pressure switch Produces up to 50 psi with automatic shut-off
- 115/230 Volt heavy-duty motor
 TEFC design with simple connection to existing power source



							Pressure			Discharge	Pressure			
Model	Item	UPC	HP	Volts	Amps	Intake/ Discharge	Gauge	Suction Lift	30 PSI	40 PSI	50 PSI	60 PSI	Max. Pressure	Max. Head
							Port			Gallons P	er Minute			
								5'	12.8	9.1	5.3	2.1	73 PSI	169'
RJS-75SS	97080702	0 10121 14939 7	3/4	115/230	9.0 A @ 115 V 4.5 A @ 230 V	1" FNPT	1/8" NPT	15'	9.4	7.4	3.9	1.7	68 PSI	158'
								25'	4.9	4.9	2.7	0.2	65 PSI	150'

Carton Specifications

Model	Length (in)	Width (in)	Height (in)	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RJS-75SS	12.25"	17.5"	11.75"	18.5	1.46	24	6	4

Motor Terminal Box

1" FNPT Discharge

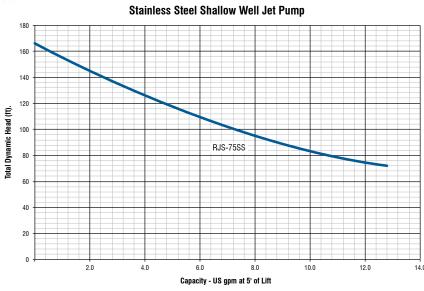
Priming Plug

1" FNPT Suction

Drain Plug

Intergrated Ventri/
Nozzle Assembly

Steel Mounting Base



APPLICATIONS

Ideal for the supply of fresh water to rural homes, farms, and cabins that have suction lifts down to 90'.

FEATURES & BENEFITS

- · Convertible jet pump with deep well injector Ideal for use in shallow well (less than 25') and deep well (25' to 90') applications
- · Rugged cast iron casing Ideal for supplying fresh water to rural homes, farms, and cabins
- Heavy-duty motor, 115/230 Volts For years of service and reliability
- · Includes factory pre-set 30/50 pressure switch Produces up to 50 psi with automatic shut-off
- · Glass-filled thermoplastic impeller and diffuser For high performance and efficient water flow



Impeller

Pressure gauge included on pump and tank system only

										Disc	harge	Pres	sure (PSI)	Max.		May
Model	Item Number	UPC	HP	Volts	Amps	Intake	Discharge	No. of Pipes	Suction Lift	20	30	40	50	60	Pressure	Max. Head	Max. Flow GPM
	Italiiboi							Tipou			allon	s Per	Minut	е	PSI	Houd	GPM
								1	5'	11.1	10.9	10.7	7.4	4.5	76.2	176'	
					11.0.4.0.115.1//			1	15'	8.1	7.9	7.7	5.9	3.1	71.7	165'	
RJC-50	602036	0 10121 12282 6	1/2	115/230	11.2 A @ 115 V /	1-1/4"	1" FNPT	2	20'	-	9.2	6.5	4.5	2.9	85.0	196'	11.1
					5.0 A @ 230 V			2	50'	-	5.8	4.0	2.4	1.3	72.0	166'	
								2	80'	-	3.4	2.2	1.0	-	59.0	136'	
		0 10121 12283 3						1	5'	18 2	17.7	143	97	5.1	71.0	164'	
								1	15'		12.4			3.0	66.7	154'	
RJC-75	602037		3/4	115/230	12.6 A @ 115 V /	1-1/4"	1" FNPT	2	20'		9.8	6.8	4.7		86.0		18.2
1100 10	002001	0 10121 12200 0	٥, ١	110,200	6.3 A @ 230 V	, .		2	50'	_	6.1	4.1	2.5	1.3	73.0	169'	10.2
								2	90'	-	3.5		1.0	-	60.0	139'	
								_		00.0			44.4	- 0			
								1	5'		19.9				71.0	164'	
RJC-100					16 4 A @ 115 V /			1	15'	14.5	14.1		8.7	3.3	66.7	154'	
	602038	0 10121 12284 0	10121 12284 0 1	115/230	16.4 A @ 115 V / 8.2 A @ 230 V	1-1/4"	1" FNPT	2	20'	-	10.5	7.3	5.2	3.6	87.0	201'	20
					5.2 /1 @ 200 V			2	50'	-	7.2	5.0	3.4	1.9	74.0	171'	
								2	90'	-	3.4	1.9	0.7	-	56.7	131'	

Carton Specifications 1" NPT Cast Iron Discharge Casing Carton Cubes Qty. per Layer Weight (lbs) **Pallet** Layers per Width Height **Priming Plug** Model Length Quantity **Pallet** (cu ft) **Brass Flow** Control Valve RJC-50 10.33" 20.25" 11.5" 36 1.39 32 8 Pressure Gauge RJC-75 10.33" 20.25" 37 1.39 32 8 4 (optional) RJC-100 10.33" 20.25" 11.5" 38 1.39 32 8 Vacuum Tapping 30/50 Pressure Switch Carbon/Ceramic 1-1/4" NPT Shaft Seal Suction Nozzle Venturi Injector Kit Included Mounting Drain Plug Base Seal Plate

PRE-CHARGED PRESSURE TANKS

APPLICATIONS

For maintaining the water pressure in a residential water pump system when the pump is not running.

FEATURES & BENEFITS

• ANSI/NSF Standard 61 approved Assures safe, clean drinking water

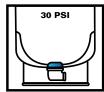
eolton

- · Blended butyl rubber diaphragm system Isolates the air charge from the water chamber and provides long tank life
- · Heavy-duty steel construction 16 gauge cold rolled steel with appliancequality paint
- Steel clench ring protects diaphragm from rubbing against tank wall Eliminates abrasion and reduces condensation
- · Brass air valve with O-ring seal Allows adjustment of air pre-charge















Model	Item Number	UPC	Gallons	Drawdown @ 30/50 PSI (gal)	Fixtures	Туре	System Connect
RL2	604452	0 10121 12335 9	2.1	0.7	-	Inline	3/4" MNPT
RL4	604453	0 10121 12336 6	4.8	1.5	-	Inline	3/4" MNPT
RL8	604454	0 10121 12337 3	8.5	2.6	-	Inline	3/4" MNPT
RL6H	604529	0 10121 12126 3	5.3	1.6	1	Horizontal	3/4" MNPT
RL14H	604493	0 10121 12124 9	14	4.3	4	Horizontal	3/4" MNPT
RL14	604456	0 10121 12338 0	14	4.8	4	Vertical	1" NPT
RL20	604457	0 10121 12339 7	20	6.8	6	Vertical	1" NPT
RL33	604449	0 10121 12334 2	33	11.3	11	Vertical	1" NPT
RL44	604459	0 10121 12341 0	44	15	14	Vertical	1-1/4" NPT
RL81	604541	0 10121 12365 6	81	27.6	27	Vertical	1-1/4" NPT
RL119	604531	0 10121 12360 1	119	40.6	39	Vertical	1-1/4" NPT

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL2	8.33"	8.33"	12.75"	5	.51	60	20	3
RL4	11.12"	11.12"	15"	10	1.07	36	12	3
RL8	13.5"	19.5"	13.5"	15.4	2.06	18	6	3
RL6H	10.5"	18"	12.25"	13.3	1.34	18	6	3
RL14H	15.75"	21.25"	17.25"	27	3.34	8	4	2
RL14	16.5"	16.5"	23"	29	3.62	8	4	2
RL20	16.75"	16.75"	30"	35	4.87	4	4	1
RL33	16.3"	16.3"	44"	55	6.77	4	4	1
RL44	21.3"	21.3"	38.25"	66	10.04	2	2	1
RL81	21.5"	21.5"	60"	101	16.05	2	2	1
RL119	26.75"	26.75"	61.5"	160	25.47	1	1	1



PUMP & TANK SYSTEMS

APPLICATIONS

Ideal for the supply of fresh water to rural homes, farms, and cabins where compact system size and ease of installation are most important.

FEATURES & BENEFITS

- Jet pump and pre-charged pressure tank are factory assembled and ready to install
- Pump casing is made of rugged cast iron
- Pre-charged steel tank has a high grade diaphragm water chamber 5.3 to 14 gallons
- · Low profile, compact horizontal pressure tank
- · Includes factory pre-set 30/50 pressure switch
- · Can be set for use with 115 Volts or 230 Volts



RJS-50/RL14H

		Discharge Pressure (PSI)																		
		ltem								Pressure Gauge	Suction	No. of		_	$\overline{}$			_ Max.	Max.	
Model	Warranty	ltem Number	UPC	HP	Gallons	Volts	Amps	Intake	Discharge	Gauge Port	Lift	Pipes	20	30	40	50	60	Pressure PSI	Head	
										FUIL			G	allons	e Per	Minut	e	гы		
RL-	A STATE OF THE STA		0.10101			115/	0 / / @ 115 // /	1 1//			5'		13.6	12.6	7.3	3.4	1	64	148'	
SWJ50/	TWO 2 YEAR	97080503	0 10121 14942 7	1/2	5.8	115/ 230	8.4 A @ 115 V / 4.2 A @ 230 V	FNPT	1" FNPT	1/8" NPT	15'	1	9.7	9.5	5.5	2.8	0.3	60	139'	
RL6H	A. D. R. L.		17372 1			200	4.2 A @ 200 V	I IVI I			25'		4.7	5	4.1	1.7	0	57	133'	
											5'		12.8	12.3	11 2	6.9	2	64.2	148'	
RJS-50/		602099	0 10121 12241 3	1/2	5.3		11.2 A @ 115 V /		1" FNPT	1/4" NPT	15'	1	9.8	9.6	9.4	4.7	_	59.9	138'	
RL6H		002033	12241 3	1/2	0.0	230	5.6 A @ 230 V	FNPT	1 1141 1	1/ -7 IVI I	25'	'	5.6			2.3		55.5	128'	
RJS-50/	PREMIUM		0 10121			115/	11.2 A @ 115 V /	1_1/4"			5'			12.3			2	64.2	148'	
RL14H	TWO 2 YEAR	602014	0 10121 12230 7	1/2	14	230	5.6 A @ 230 V		1" FNPT	1/4" NPT	15'	1	9.8	9.6	9.4	4.7	-	59.9	138'	
	SARWANT!						0.071 @ 2007				25'		5.6	5.5	5.3	2.3	-	55.5	128'	
											5'	1	11.1	10.9	10.7	7.4	4.5	76.2	176'	
											15'	1	8.1	7.9	7.7	5.9	3.1	71.7	165'	
RJC-50/	TWO THEAT	602102	0 10121 12240 6	1/2	5.3		11.2 A @ 115 V /		1" FNPT	1/4" NPT	20'	2	-	9.2	6.5	4.5	2.9	85	196'	
RL6H	TO THE REAL PROPERTY.		12240 6	-, =		230	5.6 A @ 230 V	FNPT		.,	50'	2	-	5.8	4	2.4	1.3	72	166'	
											80'	2	-	3.4	2.2	1	-	59	136'	
											F.	_				7.4	4.5	70.0		
											5'	1		10.9	10.7			76.2	176'	
RJC-50/	PREMIUN	000000	0 10121	4 10		115/	11.2 A @ 115 V /	1-1/4"	4 ENDT	4 (4) NDT	15'	1	8.1	7.9	1.1	5.9	3.1	71.1	165'	
RL14H	TWO YEAR	602063	0 10121 12239 0	1/2	14	230	5.6 A @ 230 V	FNPT	1" FNPT	1/4" NPT	20'	2	-	9.2	6.5	4.5	2.9	85	196'	
	ARRANT	mant	12									50'	2	-	5.8	4.0	2.4	1.3	72	166'
											80'	2	-	3.4	2.2	1	-	59	136'	

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SWJ50 / RL6H	22.85"	14.5"	25.25"	38.4	4.84	4	4	1
RJS-50 / RL6H	24.6"	14"	26"	53	5.18	4	4	1
RJS-50 / RL14H	23.5"	17"	32"	67	7.40	4	4	1
RJC-50 / RL6H	24.6"	12.6"	27"	54	4.84	4	4	1
RJC-50 / RL14H	23.5"	17"	32"	74	7.40	4	4	1

Additional Features

Model	Includes
RL-SWJ50 / RL6H	Pressure gauge
RJS-50 / RL6H	Pressure gauge, foot valve
RJS-50 / RL14H	Pressure gauge, foot valve
RJC-50 / RL6H	Injector, pressure gauge, foot valve
RJC-50 / RL14H	Injector, pressure gauge, foot valve

4" SUBMERSIBLE WELL PUMPS

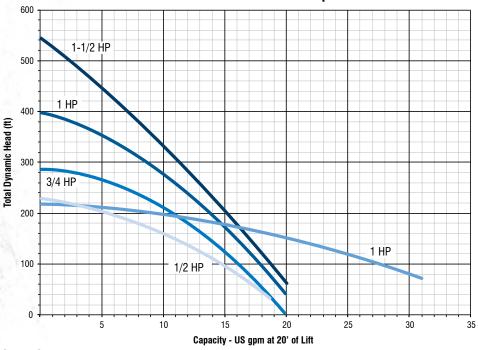
APPLICATIONS

Ideal for the supply of fresh water to rural homes, farms, and cabins that have 4" and greater diameter drilled wells to depths of 250'.

FEATURES & BENEFITS

- · Powered by industry standard 2- or 3-wire motors
- · Thermoplastic discharge and motor bracket
- · Stainless steel pump shell
- · Built-in suction screen and check valve
- 12 gpm and 22 gpm models available
- Control box included with all 3-wire pumps (1/2 hp to 1 hp)

4" Submersible Well Pumps





Carton Specifications

[3]									
Model	Item Number	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
Pumps only									
RL12G05-2W1V	14942401	4.6"	4.6"	28.5"	21	.35	100	10	10
RL12G05-2W2V	14942402	4.6"	4.6"	29"	21	.36	100	10	10
RL12G07-2W2V	14942403	4.6"	4.6"	29"	24	.36	100	10	10
RL12G10-2W2V	14942404	4.6"	4.75"	29"	28	.37	100	10	10
RL12G05-3W2V	14942405	4.6"	5.75"	38.25"	25	.59	80	8	10
RL12G07-3W2V	14942406	4.6"	5.75"	38.25"	28	.59	80	8	10
RL12G10-3W2V	14942407	4.75"	6"	43.75"	32	.72	60	6	10
RL12G15-3W2V	14942408	4.6"	4.6"	39.25"	36	.48	100	10	10
RL22G10-3W2V	14942409	4.6"	5.75"	43.75"	31	.67	70	7	10
Sub-Pacs									
RL12G05-2W2V-SP (USA)	14942410	9.25"	12.75"	31.75"	52	2.17	15	5	3
RL12G07-2W2V-SP (USA)	14942411	9.25"	12.75"	31.75"	56	2.17	15	5	3
RL12G05-2W1V-SP (CAN)	14942412	9.25"	12.75"	31.75"	52	2.17	15	5	3
RL12G05-2W2V-SP (CAN)	14942413	9.25"	12.75"	31.75"	52	2.17	15	5	3
BI 12G07-2W2V-SP (CAN)	14942414	9.25"	12.75"	31.75"	56	2.17	15	5	3

Nomenclature: RL = Red Lion, 12G = 12 Gallon, ## = HP (05 = 1/2, 07 = 3/4, 10 = 1, 15 = 1.5), #W = Number of Wires, #V = Voltage (1 = 115, 2 = 230), SP = Sub-Pac Example: RL12G05-2W1V = 12 Gallon, 1/2 hp, 2-Wire, 115 Volt

Engine Drive

Multi-Purpose

Effluent/Sewage

Sump

Lawn & Irrigation

CLEAN WATER



									-	-	delle	-	4			_			-	
									D	isch	arge	Pres	ssure	PSI					Max.	
Model	Item Number	UPC	HP	Wires	Volts	Amps	Depth	0 1							0 8	0 D	ischarge	Shut-		Availability
							to water						Minu				3-	Off	GPM	,
RL12G05-2W1V RL12G05-2W1V-SP (CAN)	14942401 14942412 (CAN)	0 10121 14177 3 0 10121 14188 9	1/2	2	115	10	20' 40' 60' 80' 100' 140' 200'	18 1 17 1 16 1 14 1	18 17 16	18 16 16 15	16 15 14	15 14	14 13	12 1 11	0 6 7 2 3 - 	2	1-1/4" FNPT	231'	12	Canada only
RL12G05-2W2V RL12G05-3W2V* RL12G05-2W2V-SP (CAN)	14942402 14942405 14942413 (CAN)	0 10121 14178 0 0 10121 14181 0 0 10121 14189 6	1/2	2 3 2	230	6	20' 40' 60' 80' 100' 140' 200'	- 1 19 1 18 1 17 1 16 1	19 18 17 16	16 15	14		14 13 11 8 4	11	0 67 223	2	1-1/4" FNPT	231'	12	Canada only
RL12G07-2W2V RL12G07-3W2V* RL12G07-2W2V-SP (CAN)	14942403 14942406 14942414 (CAN)	0 10121 14179 7 0 10121 14182 7 0 10121 14190 2	3/4	2 3 2	230	8	20' 40' 60' 80' 100' 140' 200' 240'	20 1 19 1 18 1 17 1 15 1	20 19 18 17	18 17 17 16 15	17 16 15 14	16 15 14	15 14	14 13 11	4 1 3 1 1 9 6 3 	1	1-1/4" FNPT	291'	12	Canada only
RL12G10-2W2V RL12G10-3W2V*	14942404 14942407	0 10121 14180 3 0 10121 14183 4	1	2 3	230	9.8	20' 40' 60' 80' 100' 140' 200' 240' 280' 300' 340' 380'	- 20 1 19 1 18 1 17 1 15 1 14 1 10	- 20 19 18 17 16	20 19 18 17 17 16 13	18 17 17 16 15	17 17 16 15	16 16 15 14	16 15 14 13 12	2 1	4 3 2 1	1-1/4" FNPT	399'	12	
RL12G15-3W2V	14942408	0 10121 14184 1	1-1/2	3	230	10	20' 40' 60' 80' 100' 140' 200' 240' 280' 300' 340' 380' 440' 500'	20 1 19 1 18 1 17 1 16 1 15 1 14 1 13 1 12 1	19 18 17 16 15 14 14	19 18 18 17 16 15 14 13	19 18 18 17 16 15 14 13 12	18 18 17 17 16 15 14 12	18 17 17 16 15 14 13 11	17 16 16 15 13 12 10 9	3 1	6 5 5 4 2 0 8	1-1/4" FNPT	545'	12	
RL22G10-3W2V*	14942409	0 10121 14185 8	1	3	230	9.8	20' 40' 60' 80' 100' 140' 200'	- - - 3 - 2 30 2 25 2	- 33 29 27 23	29 27 25 18	28 16 24	26 24 21 16	24	20	9 1 2 1 3		1-1/4" FNPT	221'	22	

Control Boxes for 4" Submersible Well Pumps

Item Number	UPC	НР	Volts	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Master Pack Qty.	Pallet Quantity	Qty. per Layer	Layers per Pallet
640188	0 10121 12203 1	1/2	115	8.75"	5.25"	3.25"	3	.09	10	45 Master Packs	9 Master Packs	5
640189	0 10121 12204 8	1/2	230	8.75"	5.35"	3.25"	3	.09	10	45 Master Packs	9 Master Packs	5
640190	0 10121 13096 8	3/4	230	9.0"	5.25"	3.0"	3	.08	10	45 Master Packs	9 Master Packs	5
640191	0 10121 13097 5	1	230	9.0"	5.5"	3.5"	3	.10	10	45 Master Packs	9 Master Packs	5
640222	0 10121 13173 6	1-1/2	230	11.5"	8.25"	6.25"	6	.34	10	45 Master Packs	9 Master Packs	5
	Number 640188 640189 640190 640191	Number 640188 0 10121 12203 1 640189 0 10121 12204 8 640190 0 10121 13096 8 640191 0 10121 13097 5	640188 0 10121 12203 1 1/2 640189 0 10121 12204 8 1/2 640190 0 10121 13096 8 3/4 640191 0 10121 13097 5 1	640188 0 10121 12203 1 1/2 115 640189 0 10121 12204 8 1/2 230 640190 0 10121 13096 8 3/4 230	640188 0 10121 12203 1 1/2 115 8.75" 640189 0 10121 12204 8 1/2 230 8.75" 640190 0 10121 13096 8 3/4 230 9.0" 640191 0 10121 13097 5 1 230 9.0"	640188 0 10121 12203 1 1/2 115 8.75" 5.25" 640189 0 10121 12204 8 1/2 230 8.75" 5.35" 640190 0 10121 13096 8 3/4 230 9.0" 5.25" 640191 0 10121 13097 5 1 230 9.0" 5.5"	640188 0 10121 12203 1 1/2 115 8.75" 5.25" 3.25" 640189 0 10121 12204 8 1/2 230 8.75" 5.35" 3.25" 640190 0 10121 13096 8 3/4 230 9.0" 5.25" 3.0" 640191 0 10121 13097 5 1 230 9.0" 5.5" 3.5"	640188 0 10121 12203 1 1/2 115 8.75" 5.25" 3.25" 3 640189 0 10121 12204 8 1/2 230 8.75" 5.35" 3.25" 3 640190 0 10121 13096 8 3/4 230 9.0" 5.25" 3.0" 3 640191 0 10121 13097 5 1 230 9.0" 5.5" 3.5" 3	Refin Number UPC HP Volts Length Width Height (lbs) Weight (lbs) Cubes (cu ft) 640188 0 10121 12203 1 1/2 115 8.75" 5.25" 3.25" 3 .09 640189 0 10121 13096 8 3/4 230 9.0" 5.25" 3.25" 3 .09 640190 0 10121 13097 5 1 230 9.0" 5.25" 3.0" 3 .08 640191 0 10121 13097 5 1 230 9.0" 5.5" 3.5" 3 .10	640188 0 10121 12203 1 1/2 115 8.75" 5.25" 3.25" 3 .09 10 640189 0 10121 12204 8 1/2 230 8.75" 5.35" 3.25" 3 .09 10 640190 0 10121 13096 8 3/4 230 9.0" 5.25" 3.0" 3 .08 10 640191 0 10121 13097 5 1 230 9.0" 5.5" 3.5" 3 .10 10	640188 0 10121 12203 1 1/2 115 8.75" 5.25" 3.25" 3 .09 10 45 Master Packs 640189 0 10121 12204 8 1/2 230 8.75" 5.35" 3.25" 3 .09 10 45 Master Packs 640190 0 10121 13096 8 3/4 230 9.0" 5.25" 3.0" 3 .08 10 45 Master Packs 640191 0 10121 13097 5 1 230 9.0" 5.5" 3.5" 3 .10 10 45 Master Packs	640188 0 10121 12203 1 1/2 115 8.75" 5.25" 3.25" 3 .09 10 45 Master Packs 9 Master Packs 640189 0 10121 12204 8 1/2 230 8.75" 5.35" 3.25" 3 .09 10 45 Master Packs 9 Master Packs 640190 0 10121 13096 8 3/4 230 9.0" 5.25" 3.0" 3 .08 10 45 Master Packs 9 Master Packs 640191 0 10121 13097 5 1 230 9.0" 5.5" 3.5" 3 .10 10 45 Master Packs 9 Master Packs

For cable size information please see the technical data section

RedLionProducts.com | Hotline: 1.888.956.0000 13

^{*} Includes control box. SP indicates Sub-pac which includes factory spliced power cable, control center, pressure switch and gauge, pressure relief valve, and tank cross.

1-2-3 EASY GUIDE TO PUMP & TANK SELECTION

DEPTH TO THE PUMPING WATER LEVEL

리미[버미

0 - 25 feet Shallow well or convertible jet pump, install in shallow (single pipe) configuration.

25 - 90 feet Convertible jet pump, installed in deep (two pipe)

configuration or deep well submersible pump.

0 - 250 feet Deep well submersible pump.

250+ feet Call pump hotline: 1-888-956-0000

"Pumping water level" is the depth to the water while the well is being pumped. It is usually deeper than the depth to the water when the pump is not running. For a lake or cistern installation, it is the depth to the surface of the water.

For Jet pumps, it is the vertical distance from the pumping water level to the suction opening of the pump.

For Submersible pumps, it is the vertical distance from the pumping water level to the point of water usage.

New installation information is available on the Well Driller's **Report.** For replacement installations, use the equivalent style and horsepower pump, providing it was suitable when it was operational.

NOTE: A foot valve or check valve is required for proper operation of any system. The suction line must extend at least 5' below the pumping water level and be at least 10' above the well bottom.



HOW MUCH WATER IS REQUIRED

The gpm (gallons per minute) of the pump must equal the total number of fixtures. Fixtures include all faucets, toilets, and water consuming appliances (do not include water treatment appliances, such as a hot water tank or water filter). Example: A house with one full bathroom (sink, tub/shower, toilet), kitchen sink, basement sink, outside faucet, washing machine, and dishwasher would require 8 gpm.



MINIMUM WELL DIAMETER

2½" – Jet pumps in shallow well applications (depth less than 25') should be installed using 11/4" suction piping with a foot valve.

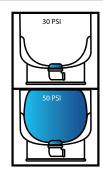
4" – Convertible jet pumps used in deep well applications (depth greater than 25') and deep well submersible pumps.

TANK CHART

NOTE: Refer to Step 2 above.

The easy way to size a tank is take the gpm system requirement that you determined in Step 2, multiply by 3 and go to the next largest tank size.

Example: 8 gpm x 3 = 24 gallons – therefore use an RL33 tank.





PUMP CHART

Read across the top of the chart for correct pumping water level in feet. Read down the side for correct flow required (gpm). The letter(s) corresponds to the minimum recommended pump options. Higher horsepower models of the same categories may be substituted for jet pumps.

Flow			Pump	ing W	ater Le	evel in	Feet		
Required (GPM)	5	15	25	50	80	100	150	200	250
3	A,D	A,D	A,D,G	D,G	D,G	G	G,H	H,I	I
4	A,D	A,D	A,D,G	D,G	E,G	G,H	G,H	H,I	- 1
5	A,D	A,D	A,E,G	D,G	F,G	G,H	G,H	H,I	- 1
6	A,D	A,D	B,E,G	D,G	G	G,H	Н	- 1	- 1
7	A,D	A,D	B,E,G	F,G	G,H	G,H	Н	-1	-1
8	A,D	A,E	C,F,G	G	G,H	G,H	Н	- 1	- 1
9	A,D	A,E	C,G	G	G,H	G,H	- 1	- 1	J
10	A,D	B,E	C,G	G,H	G,H	G,H	1	- 1	J
11	A,E	B,E	G	G,H	Н	Н	- 1	J	J
12	A,E	C,E	G	G,H	Н	Н	I,J	J	J
13	B,E	C,F	G	G,H	H,I	I,J	J	J	J
14	B,E	C,F	G	I	I,J	J	J	J	J
15	B,E	С		- 1	J				
16	C,E	С							
17	C,E	С							

NOTE: For depths greater than 250', consult tech support.

Shallow Well	Convertible	Deep Well
Jet Pumps	Jet Pumps	Submersible Pumps
$A = RJS-50-PREM \frac{1}{2} hp$ $B = RJS-75-PREM \frac{3}{4} hp$ $C = RJS-100-PREM 1 hp$	$E = RJC-75 \frac{3}{4} hp$	



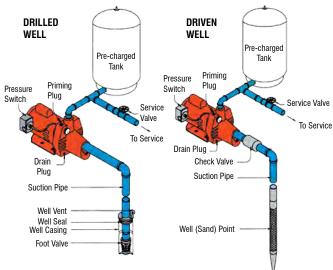
Tank Capacities	Total Tank Volume (gal)	Drawdown @ 30/50 PSI (gal)
RL2	2.1	0.7
RL4	4.8	1.5
RL6H	5.3	1.6
RL8	8.5	2.6
RL14H	14	4.3
RL14	14	4.8
RL20	20	6.8
RL33	33	11.3
RL44	44	15
RL81	81	27.6
RL119	119	40.6

TYPICAL INSTALLATIONS

SHALLOW WELL JET PUMP

Down to 25 feet

Suitable for applications where the pumping water level does not exceed 25'. Requires a single 11/4" suction pipe. May be used in wells 2" or larger in diameter.



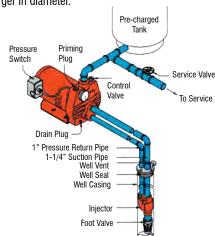
To complete installation, the following is required:

- Jet pump
- · Pressure tank
- Pump to tank fittings
- 11/4" suction piping
- · Foot valve or check valve

CONVERTIBLE JET PUMP

Deep well configuration - down to 90 feet

Suitable for applications where the pumping water level does not exceed 90'. Requires a double suction pipe. May be used in wells 4" or larger in diameter.



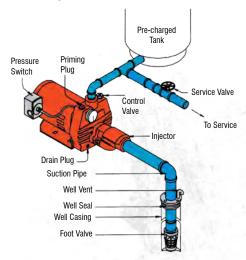
To complete installation:

- Jet pump, which includes: pressure switch, flow control valve, and injector (installed on the pump)
- · Pressure tank
- · Pump to tank fittings
- 1¼" suction piping and 1" pressure return piping
- · Foot valve

CONVERTIBLE JET PUMP

Shallow well configuration – down to 25 feet

Suitable for applications where the pumping water level does not exceed 25'. Requires a single $1\frac{1}{4}$ " suction pipe. May be used in wells $2\frac{1}{2}$ " or larger in diameter.

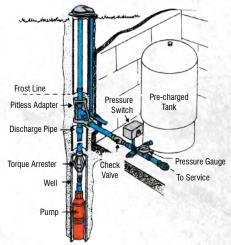


To complete installation:

- Jet pump, which includes: pressure switch, flow control valve, and injector (installed on the pump)
- · Pressure tank
- Pump to tank fittings
- 11/4" suction piping
- · Foot valve or check valve (for driven well)

DEEP WELL SUBMERSIBLE PUMP Down to 250 feet

Suitable for applications where the pumping water level does not exceed 250'. Requires a double suction pipe. May be used in wells 4" or larger in diameter.



To complete installation:

- Submersible pump sub-pac, which includes pressure switch, pressure gauge, service tee, relief valve, sub cable, and built-in check valve
- Pressure tank
- Torque arrester
- Well seal or pitless adapter
- · 1" discharge piping



Why do you need a sprinkler pump?

Sprinkler pumps transport water from a lake or pond to supply irrigation for a lawn or garden. Because they are designed to move large volumes of water, sprinkler pumps are also useful in high-volume applications such as filling pools, water transfer, and boosting household water pressure.

What size sprinkler pump do you need?

For pump replacement, simply select the same horsepower (hp) as your current pump.

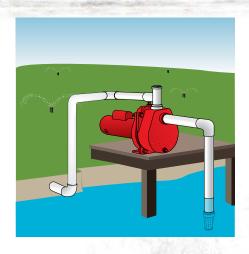
When selecting a new sprinkler pump, use the following steps to easily determine the needed size:

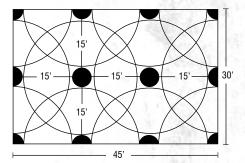
Suction lift and the number of sprinkler heads operating at any given time are the key determining factors in selecting a sprinkler pump. Determine the number of heads and multiply them by 3. The sum (gpm requirement) should be compared with the pump performance chart found on the pump carton. Find the pump that will deliver your gpm requirement at the suction lift distance determined performing at 30 psi.

Tools needed



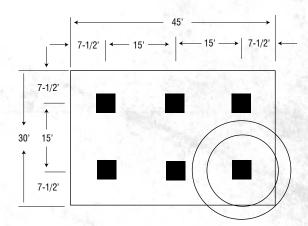
Typical installations





Example 1:

(of a typical front yard) Using full, half, and quarter circle patterns. Advantages: Full coverage with no water on sidewalks, using 12 sprinklers.



Example 2:

Alternate plan (more economical) using only 6 sprinklers, requiring an "overthrow", if this is no problem on sidewalk or street.





APPLICATIONS

Ideal for pressure boosting, sprinkler systems, and general purpose applications where portability is important.

FEATURES & BENEFITS

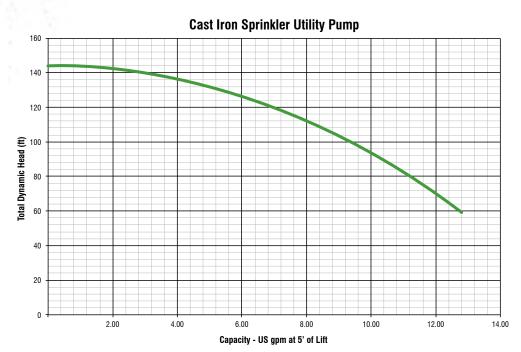
- 115 Volt motor with 8' power cord
- · Rugged cast iron construction
- · Steel handle for portability
- Self-priming to 25'
- Garden hose adapter included



												Disc	harge	Pres	sure (PSI)			Max.	Max.
Model	ltem Number	UPC	HP	Volts	Amps	Cord Length	Intake	Discharge	Suction Lift	20	25	30	35	40	45	50	55	60	Pressure	Flow
												G	allon	s Per	Minut	е			PSI	GPM
									5'	12.8	12.5	12.3	12.1	11.2	9.5	6.9	4.3	2.0	64.2	
		0 10121					4 4 / / 11		10'	11.5	11.3	11.0	10.8	10.4	8.5	6.0	3.4	1.0	62.0	
RJSE-50	614430	12/156 1	1/2	115	12.4 A @ 115 V	8'	1-1/4" FNPT	1" FNPT	15'	9.8	9.7	9.6	9.5	9.4	7.3	4.7	2.0	-	59.9	12.8
		12400 1	.,_		12.17.6 110		IIVII		20'	8.3	8.1	7.8	7.7	7.6	5.7	3.5	1.0	-	57.7	
									25'	5.6	5.55	5.5	5.4	5.3	4.1	2.3	0.2	-	55.5	

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RJSE-50		20.25"		36	1.35	32	8	4



LAWN & IRRIGATION



STAINLESS STEEL SPRINKLER UTILITY PUMP

APPLICATIONS

Ideal for pressure boosting, sprinkler systems, and general purpose applications where portability and corrosion-resistance is important.

FEATURES & BENEFITS

- Self-priming utility pump Designed to lift water up to 25'
- Corrosion-resistant stainless steel pump housing Ideal for operating lawn sprinklers, pressure boosting, and other general purpose applications
- Heavy-duty 3/4 hp 115 Volt motor For years of service and reliability
- Glass-filled thermoplastic impeller and diffuser
 For high performance and efficient water flow
- Power cord, carry handle, and garden hose adapter included For convenience and portability

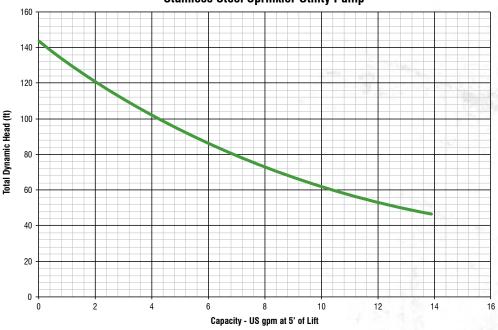


Model	Item Number	UPC	HP	Volts	Amps	Cord Length	Intake	Discharge	20	30	e Pres it 5' Li 40 s Per	ft 50	60	Max. Flow at 5' Suction Lift	Max. Pressure PSI	Max. Head FT	
RJSE-75SS	614432	0 10121 14415 6	3/4	115	7.0 A	8'	1"	1" FNPT	13.9	8.5	5.3	2.5	0.3	17 GPM	64	147	

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RJSE-75SS	8.33"	14.33"	10"	21	0.69	48	12	4

Stainless Steel Sprinkler Utility Pump



RedLionProducts.com Hotline: 1.888.956.0000

CENTRIFUGAL SELF-PRIMING SPRINKLER PUMPS

APPLICATIONS

Ideal for both residential and commercial lawn and turf sprinkling systems.

FEATURES & BENEFITS

RED HOM

- · Rugged cast iron casing and pump base
- · High efficiency thermoplastic impeller and diffuser
- · BI models are configured with a brass impeller which is recommended for more demanding applications such as weir feeders*
- 2" NPT suction and 1-1/2" NPT discharge
- Easy to prime to 25' no additional priming required after initial fill
- · Maximum pressure to 47 psi
- . Flow rates to 89 U.S. gpm
- RLSP Series can be set for use with 115 Volts or 230 Volts

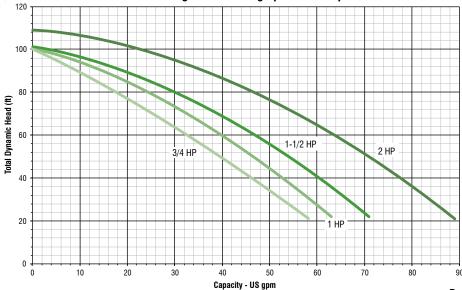


	Item								charge PSI) a			_ Max.	Max.
Model	Number	UPC	HP	Volts	Amps	Intake	Discharge	10	20	30	40	Pressure PSI	Flow GPM
								Gal	lons P	er Min	ute	101	ai iii
RLSP-75	614670	0 10121 12485 1	3/4	115/230	12.6 A @ 115 V / 6.3 A @ 230 V	2" NPT	1-1/2" NPT	58	46	29	7	43	58
RLSP-100	614671	0 10121 12486 8	1	115/230	16.4 A @ 115 V / 8.2 A @ 230 V	2" NPT	1-1/2" NPT	63	54	38	11	45	63
RLSP-150	614672	0 10121 12487 5	1-1/2	115/230	17.4 A @ 115 V / 8.7 A @ 230 V	2" NPT	1-1/2" NPT	71	60	44	15	44	71
RLSP-200	614673	0 10121 12488 2	2	115/230	20 A @ 115 V / 10 A @ 230 V	2" NPT	1-1/2" NPT	89	75	60	36	47	89
*RLSP-150-BI	614675	0 10121 14089 9	1-1/2	115/230	17.4 A @ 115 V / 8.7 A @ 230 V	2" NPT	1-1/2" NPT	71	60	44	15	41	71
*RLSP-200-BI	614676	0 10121 14090 5	2	115/230	20 A @ 115 V / 10 A @ 230 V	2" NPT	1-1/2" NPT	89	75	60	36	45	89

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RLSP-75	11.5"	20.5"	13"	54	1.77	18	6	3
RLSP-100	11.5"	20.5"	13"	57	1.77	18	6	3
RLSP-150	11.5"	20.5"	13"	60	1.77	18	6	3
RLSP-200	11.5"	20.5"	13"	63	1.77	18	6	3
RLSP-150-BI	11.5"	20.5"	13"	61	1.77	18	6	3
RLSP-200-BI	11.5"	20.5"	13"	64	1.77	18	6	3





21

CAST IRON INDUSTRIAL SPRINKLER PUMP

APPLICATIONS

Ideal for both large residential properties and commercial lawn and turf sprinkling systems.

FEATURES & BENEFITS

- Heavy-duty iron casing, diffuser, and seal plate For years of service and reliability
- High efficiency cast iron impeller and diffuser For high-performance and efficient water flow
- 2" suction and 2" discharge
 Helps to prevent debris from clogging impellers
 and maintain full-flow performance
- Easy to prime to 25'
 No additional priming required after initial fill



								Di	ischar	ge Pre	ssure	(PSI)	at 5' L	.ift	Max.	Max.
Model	ltem Number	UPC	HP	Volts	Amps	Intake	Discharge	10	20	30	40	45	50	55	Pressure	Flow
								Gallons Per Minute			PSI	GPM				
RLHE-300	614481	0 10121 12461 5	3	115/230	32 A @ 115 V 16.1 A @ 230 V	2" NPT	2" NPT	124	110	95	77	67	54	36	59	124

Dimensions

Model	Length	Width	Height	Weight (lbs)	Cu Ft	Pallet Qty.	Qty. per Layer	Layers Per Pallet
RLHE-300	26.5"	13.375"	15"	135	3.08	3	3	1

This unit is shipped in a plain carton.

Cast Iron Industrial Sprinkler Pump 140 120 40 40 20 40 60 80 100 120 140 Capacity - US gpm

RedLionProducts.com Hotline: 1.888.956.0000



What does a sump pump do?

A sump pump removes standing water from the sump basin in a basement or crawl space. When the water reaches a certain level, the sump pump turns on and removes the water through a discharge pipe or hose. A sump pump can also be used in other applications for general dewatering, storm shelters, and performing emergency water transfer. Installing a sump pump is easy and can be completed using simple household tools in about 30 minutes.

Questions before selecting your pump

1. What type of pump do you currently have?

Pedestal Sump Pump – Although effective in the application, in heavy rain or flooding situations the motor can be submerged as it is exposed above the sump basin. They can easily be replaced by a submersible pump.



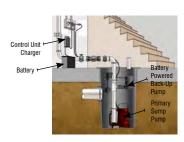


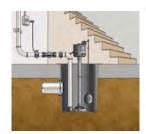
Submersible Sump Pump - These pumps are submerged under water. A submersible pump can replace a pedestal pump and is more efficient.

2. What is the size of your current pump?

For the same size pump as the one you have, check the identification plate to determine horsepower (hp). If the horsepower isn't clearly identified on the label, the model number of the product can help you determine it. If the model number contains a 25 it will most likely be a 1/4 hp pump; if the model number contains 3, 30, 31, or 33 it will most likely be a 1/3 hp pump; if the model number contains 5, 50 or 52 it will most likely be a 1/2 hp pump; if the model number contains 7 or 75 it will most likely be a 3/4 hp pump; if the model number contains 1 or 100 it will most likely be a 1 hp pump. For example an RL-SC50T is a 1/2 hp pump. Check with the pump manufacturer or call our hotline if you aren't sure.

Typical Installations





Information to consider when choosing your sump pump

Horsepower

In most cases, you will want to choose a pump that has the same horsepower as your current pump. If your existing pump isn't sufficient (water is found on basement floor), move up a size. If your existing pump is wearing out too quickly, move down a size.

НЪ	Light	Average	High Volume
nr	1/4	1/3	1/2

Type of Switch

There are three types of switches that Red Lion offers on their sump pumps. All three offer reliability and effectiveness and provide efficient service in moving large volumes of water.



Tethered Float Switch – The tethered float switch is a buoy device attached with a cord that raises and lowers with the water level, activating a switch inside the pump telling it to turn on, drain the water, and then turn off once water level has subsided. Debris can't hinder operation therefore this switch is used for sump, effluent or sewage applications. Replacement switches are available.



Vertical Float Switch – The vertical float switch is a buoy device attached with a rod that raises and lowers with the water level, activating a switch attached outside the pump telling it to turn on, drain the water and then turn off once the water level has subsided. This style allows for installation in confined areas. This switch is designed for sump applications only. Replacement switches are available.



Snap-Action Float Switch – The snap-action float switch is a contractor-preferred switch built into the pump. It's designed for confined areas, but unlike a traditional vertical float switch, debris can't hinder operation so it is suitable for sump and effluent applications. The switch features a solid float that will never become waterlogged.

Pump Housing

Depending on the model, Red Lion pump housings are constructed with reinforced thermoplastic, cast iron, or stainless steel. While all models feature quality material and workmanship, the reinforced thermoplastic housing is corrosion- and rust-resistant; the cast iron housing is stronger, heavier, and more durable. Our premium stainless steel models combine corrosion resistance with the strength and durability of the cast iron housing and features the longest warranty.

Tools needed



Lawn & Irrigation

THERMOPLASTIC SUMP PUMPS

Clean Water

APPLICATIONS

Ideal for average- to high-volume water removal in residential spaces such as basements and crawl spaces.

FEATURES & BENEFITS

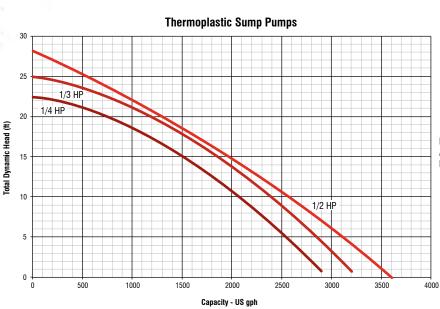
- Automatic submersible sump pumps
- 1-1/2" FNPT discharge with 1-1/4" FNPT adapter included
- · Piggyback float switch
- PSC motor and closed vane impeller design
- · Double seal system
- 8' cord



Model	Item	UPC	НР	Volts	Switch	Amno	Cord	G	allons P	er Hour	at Heig	ht	Shut-	On/Off Levels	Min. Basin
Model	Number	UFC	FIF	VUILS	SWILCH	Amps	Length	0'	5'	10'	15'	20'	Off	Oll/Oll Levels	Diameter
RL-SP25T	14942739	0 10121 14162 9	1/4	115	Tethered	6.0	8'	2900	2640	2100	1560	540	23'	On: 14.5" Off: 5.5"	14" or more
RL-SP33T	14942740	0 10121 14163 6	1/3	115	Tethered	4.4	8'	3200	2880	2520	1680	1260	25'	On: 14.5" Off: 5.5"	14" or more
RL-SP33V	14942741	0 10121 14164 3	1/3	115	Vertical	4.4	8'	3200	2880	2520	1680	1260	25'	On: 7.25" Off: 2.75"	11" or more
RL-SP50T	14942742	0 10121 14165 0	1/2	115	Tethered	5.0	8'	3600	3060	2520	1920	1320	28'	On: 14.5" Off: 5.5"	14" or more
RL-SP50V	14942743	0 10121 14166 7	1/2	115	Vertical	5.0	8'	3600	3060	2520	1920	1320	28'	On: 7.25" Off: 2.75"	11" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SP25T	7.5"	9.25"	11.75"	9.5	0.47	104	26	4
RL-SP33T	7.5"	9.25"	11.75"	11.5	0.47	104	26	4
RL-SP33V	9.05"	9.25"	13.5"	11	0.65	60	20	3
RL-SP50T	7.75"	9.25"	11.75"	14	0.49	104	26	4
RL-SP50V	9.05"	9.25"	13.5"	13	0.65	60	20	3





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APPLICATIONS

Ideal for average- to high-volume water and effluent removal in residential spaces such as basements, laundry facilities, and crawl spaces.

FEATURES & BENEFITS

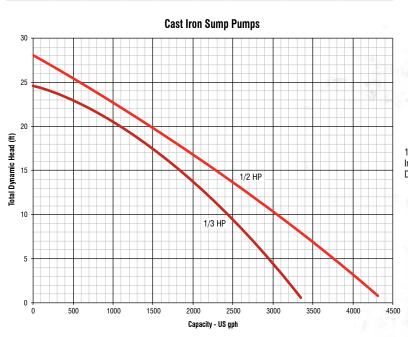
- Automatic submersible sump pumps
- 1-1/2" FNPT discharge
- · Piggyback float switch
- Clog-resistant design (1/2" semi-solids handling)
- · PSC motor
- 10' cord

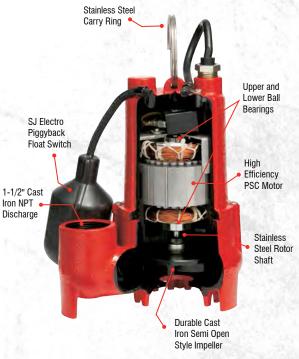


Model	Item	UPC	НР	Switch	Volts	Amps	Cord Length	Ga	allons P	er Hour	at Heig	ht	Shut-	On/Off Levels	Min. Basin
Model	Number	UFC	nr	SWILCII	VUILS	Allips	Length	0'	5'	10'	15'	20'	Off	Oll/Oll Levels	Diameter
RL-SC33T	14942744	0 10121 14167 4	1/3	Tethered	115	4.4	10'	3350	3000	2460	1860	960	25'	On: 13" Off: 5"	18" or more
RL-SC33V	14942745	0 10121 14168 1	1/3	Vertical	115	4.4	10'	3350	3000	2460	1860	960	25'	On: 7.25" Off: 2.75"	11" or more
RL-SC50T	14942746	0 10121 14169 8	1/2	Tethered	115	5.3	10'	4300	3840	3000	2220	1440	28'	On: 13" Off: 5"	18" or more
RL-SC50V	14942747	0 10121 14170 4	1/2	Vertical	115	5.3	10'	4300	3840	3000	2220	1440	28'	On: 7.25" Off: 2.75"	11" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SC33T	7.25"	8.75"	13"	20	0.48	81	27	3
RL-SC33V	6.75"	8.75"	13"	21	0.44	81	27	3
RL-SC50T	7.25"	8.75"	13"	20	0.48	75	25	3
RL-SC50V	6.75"	8.75"	13"	21	0.44	75	25	3





RedLionProducts.com Hotline: 1.888.956.0000

SUMP

1/3 HP DUAL CAST IRON SUMP PUMP SYSTEM

Clean Water

APPLICATIONS

Ideal for average- to high-volume water removal in residential spaces such as basements, laundry facilities, and crawl spaces.

This system offers worry-free operation; providing you with a back-up pump and double the flow rate when needed.*

FEATURES & BENEFITS

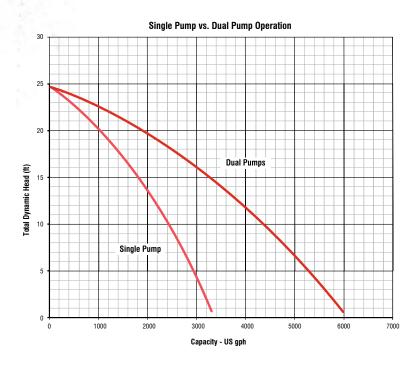
- Dual automatic submersible sump pumps
- · Pre-assembled piping and check valves included
- · Maximum head of 25' feet
- 10' power cord
- 1-1/2" FNPT discharges
- · Piggyback float switches
- Clog-resistant design (1/2" semi-solids handling)
- PSC motors





	Item	UPC	шп	Volto	Curitoh	Diochorgo	Cord	Operation	G	allons P			ht	Shut-	On/Off	Min. Basin
	Number	010	nr	VUILS	SWILCII	Discharge	Length	Operation	0'	5'	10'	15'	20'	Off	Levels	Diameter
RL-SC33DUP	14942771	0 10121 14606 8	1/3	115	Vertical	1-1/2" FNPT	10'	Single Pump Dual Pump							On: 7.25" Off: 2.75"	18"

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SC33DUP	9.5"	17.25"	14"	45	1.33	24	8	3





SNAP-ACTION CAST IRON SUMP/EFFLUENT PUMPS

APPLICATIONS

Ideal for average- to high-volume water and effluent removal in residential spaces such as basements, laundry facilities, and crawl spaces.

FEATURES & BENEFITS

- Automatic submersible cast iron sump/effluent pump
- 1-1/2" FNPT discharge
- Integrated snap-action float switch suitable for use in narrow basins (11" or greater)
- Solid float will never become waterlogged
- · Built-in rod protection prevents float from contacting basin
- Clog-resistant design (1/2" diameter semi-solids handling)
- 10' cord



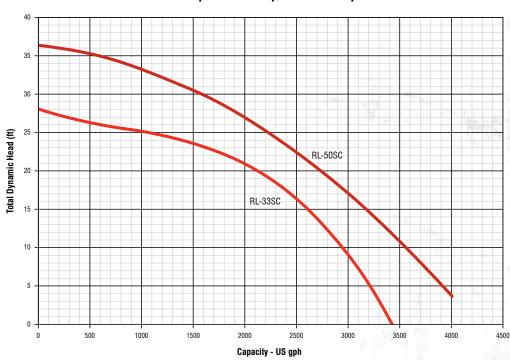


Model	Item Number	UPC	HP	Volts	Amno	Discharge	Cord	G	allons P	er Hour	at Heig	ht	Shut-	On/Off	Basin
Model	Number	UFG	пг	VUILS	Amps	Discharge	Length	5'	10'	15'	20'	30'	Off	Levels	Diameter
RL-33SC	14942652	0 10121 14579 5	1/3	115	5	1-1/2" FNPT	10'	3200	3000	2500	2200	-	28'	On: 8" - 11" Off: 2" - 5"	11" or more
RL-50SC	14942653	0 10121 14580 1	1/2	115	6.5	1-1/2" FNPT	10'	4000	3420	3090	2800	1680	36'	On: 8" - 11"	11" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-33SC	9.75"	11"	12.75"	27.75	0.79	48	16	3
RL-50SC	10.25"	11.50"	13.75"	28.46	0.94	36	12	3

Snap-Action Sump/Effluent Pumps



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PREMIUM SUBMERSIBLE STAINLESS STEEL SUMP PUMPS

Lawn & Irrigation

Clean Water

APPLICATIONS

Ideal for high-volume water removal in residential spaces such as basements and crawl spaces.

FEATURES & BENEFITS

- · Automatic submersible sump pump Ideal for high-volume water removable applications
- · Heavy-duty stainless steel and cast iron construction For years of service and reliability
- · Clog-resistant design Capable of passing 3/4" diameter semi-solids
- Piggyback float switch Reliable automatic operation

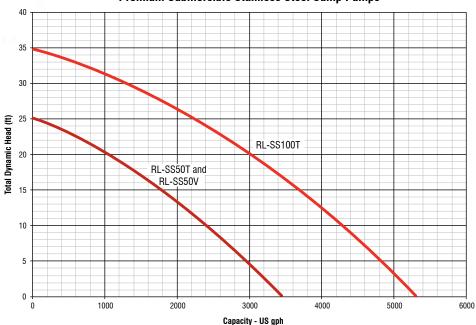


Model	Item	UPC	шв	Volts	Ouritale	Diochorgo	Amno	Cord		Gallon	s Per H	lour at	Heigh	i	Shut-	On/Off Lavels	Min. Basin Diameter
Model	Item Number	UPG	Hr	VOILS	Switch	Discharge	Amps	Cord Length	0'	5'	10'	15'	20'	30'	Off	On/Off Levels	Diameter
RL-SS50V	14942780	0 10121 14436 1	1/2	115	Vertical	1-1/2" FNPT	5	10'	3450	3000	2400	1800	-	-	25'	On: 7.5" Off: 4.5"	11" or more
RL-SS50T	14942781	0 10121 14437 8	1/2	115	Tethered	1-1/2" FNPT	5	10'	3450	3000	2400	1800	-	-	25'	On: 13.8" – 14.8" Off: 5.5"– 6.5"	18" or more
RL-SS100T	14942782	0 10121 14438 5	1	115	Tethered	2" FNPT 1-1/2" FNPT adapter included	8	20'	5300	4800	4300	3700	3000	1300	35'	On: 15" –18" Off: 7" – 10"	18" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	t Carton Cubes (cu ft) Pallet Quantity		Qty. per Layer	Layers per Pallet
RL-SS50V	7.12"	10"	17"	22.5	0.70	40	20	2
RL-SS50T	7"	10.5"	17"	22.5	0.72	40	20	2
RL-SS100T	10"	11"	18"	33.6	1.15	32	16	2

Premium Submersible Stainless Steel Sump Pumps



PEDESTAL PUMPS

APPLICATIONS

Ideal for average- to high-volume water removal in residential spaces such as basements and crawl spaces.

FEATURES & BENEFITS

- Automatic pedestal sump pumps (column style)
- · Poly or cast iron models available
- · Adjustable snap action float switch
- · Clog-resistant design

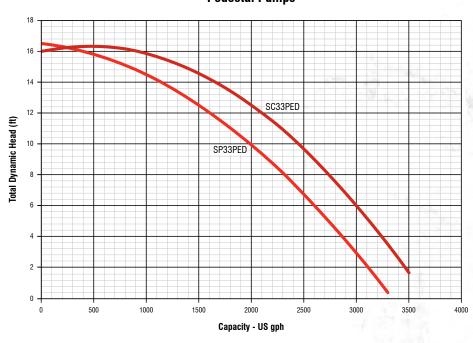


Model	Item	UPC	НР	Volts	Discharge	Amps	Cord Length	Construction	Gallo	ıs Per F	lour at l	Shut-	Min. Basin	
Model	Number	UFC	nr	VUILS	Discharge	Allips	Length	Construction	0'	5'	10'	15'	Off	Diameter
SP33PED	14942050	0 10121 11814 0	1/3	115	1-1/4" FNPT	4	8'	Thermoplastic	3300	2800	2040	620	17'	11" or more
SC33PED	14942051	0 10121 11815 7	1/3	115	1-1/4" FNPT	4	8'	Cast Iron	3500	3310	2550	600	17'	11" or more

Carton Specifications

	R	etail Cart	on	Protec	tive Oute	Carton					
Model	Length	Width	Height	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
SP33PED	8.25"	9"	33"	8.75"	10"	34"	14	1.42	20	20	1
SC33PED	8.25"	9"	33"	8.75"	10"	34"	20	1.42	20	20	1

Pedestal Pumps



Lawn & Irrigation



UNDER SINK SUMP PACKAGE

Clean Water

APPLICATIONS

Ideal for water removal from impractical gravity drainage areas and residential spaces such as under sinks and laundry trays.

FEATURES & BENEFITS

- 1/3 hp sump pump
- · Engineered thermoplastic construction
- 6 gallon polypropylene basin
- · Pre-assembled water removal system
- Up to 3200 gph

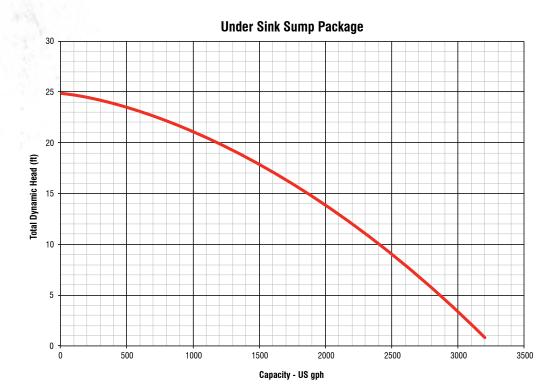


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Model	Item Number	UPC	НР	Switch	Volto	Discharge	Vent	Amps	Cord Length	Gallons Per Hour at Height					Shut-	Basin
Model			l ur	SWILCII	VUILS					0'	5'	10'	15'	20'	Off	Size
RL-SPS33	14942736	0 10121 14159 9	1/3	Vertical	115	1-1/2" FNPT	1-1/2" FNPT	4.4	8'	3200	2880	2520	1680	1260	25'	6 Gallon

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SPS33		15"	13.5"	18.5	1.76	18	6	3



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Lawn & irrigation

BACK-UP SUMP SYSTEM

APPLICATIONS

Provides emergency protection from water damage due to primary sump pump failure or power outages in residential areas such as basements and crawl spaces.

FEATURES & BENEFITS

- · Automatic sump pump back-up system
- 12 Volt DC/980 mA battery charger with alarm
- System includes charger, pump, 1-1/2" street elbow, 1-1/2" check valve, 1-1/2" coupling, battery box, vertical float switch

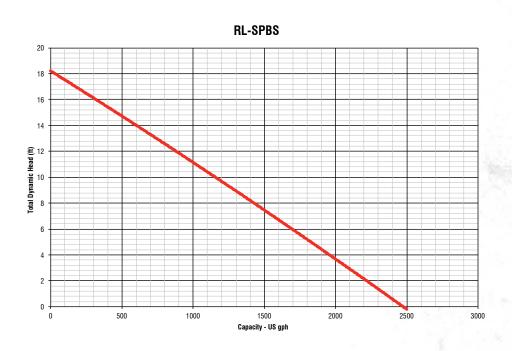


*Not for sale in California

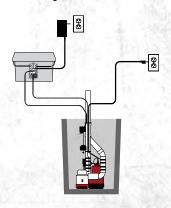
Model	Item	UPC	Switch	Volts	Discharge	Δmne		Gallor	s Per F	Shut-	Basin		
Model	Number	UFC	SWILLII	Vulla	Discilarye	Alliha	Length	0'	5'	10'	15'	Off	Diameter
RL-SPBS	14942790	0 10121 14655 6	Vertical	Pump: 12 V DC Charger: 120 V	1-1/2"	14	Charger: 6'	2500	1750	1200	500	18'	11" or more

Carton Specifications

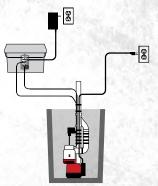
Mode	el Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SP	3S 15.25"	15.25"	13.5"	17	1.79	18	6	3



Regular Installation



Alternate Installation





What is an effluent pump?

Effluent pumps are designed to pump filtered effluent (gray water) from a septic tank to a leach field. They typically are designed to handle ½" semi-solids. Because these pumps can handle small semi-solids, many people use effluent pumps as **sump pumps** where grass clippings, leaves, or other small debris might clog the screen of the typical sump pump.

There are two types of effluent pumps available.

A **submersible effluent pump** is used in a septic tank effluent pump system. In a septic tank system the pump is located in a separate chamber. The sewage sinks to the bottom and is eventually pumped out by a sewage removal truck. When the gray water reaches a certain level it flows into the second part of the treatment system. This gray water is then pumped out into a leach field or the town's sewage system (See Figure 1).

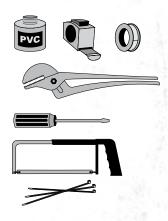
A **self-priming surface effluent pump** (see Figure 2) is installed in the house basement where it is readily available for servicing and maintenance. A suction pipe runs from the second chamber of the septic tank and the gray water is pumped to a sewage disposal field. This pump uses an open trash type impeller and a choice of switch (such as electrodes, diaphragm switch, or float switch), which is suspended in the second chamber of the septic tank. The casing of the pump is designed to keep water over the impeller and allows the pump to re-prime itself.

Replacing an existing effluent pump

Determine the horsepower of your current pump. This will be located on the identification plate of your existing pump. Select a pump with the same horsepower as your existing pump. If the horsepower is not clearly identified on the label, the model number of the product can help you determine it. If the model number contains a 3, 30, 31, or 33 it will most likely be a 1/3 hp pump; if the model number contains a 5, 50 or 52 it will most likely be a 1/2 hp pump; if the model number contains 7 or 75 it will most likely be a 3/4 hp pump; if the model number contains 1 or 100 it will most likely be a 1 hp pump. For example an RL-50SC is a 1/2 hp pump. Check with the pump manufacturer or call our technical support hotline if you are unsure.

If you have recently added plumbing fixtures (such as a bathroom addition), please call our technical support hotline and they can assist you in finding the correct size pump for your needs.

Tools needed



Typical installations

Figure 1

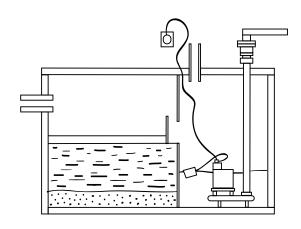
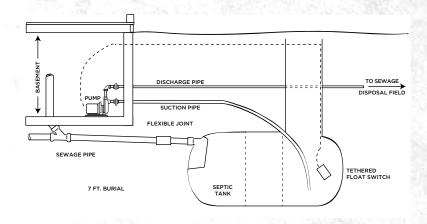


Figure 2



Sump



What is a sewage pump?

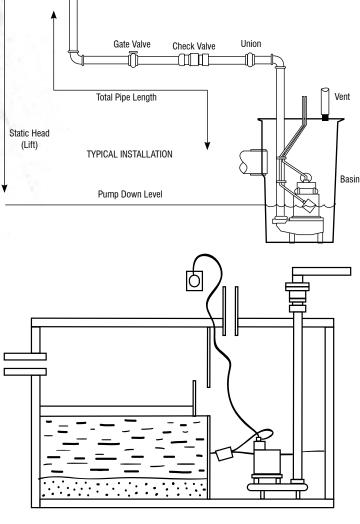
Sewage pumps are used in homes with basement toilets or those without a gravity sewage drain provided by the community. In a basement toilet installation, a sewage pump lifts flushable waste up to 2" in diameter from the sewage basin into the main sewer line.

For homes that use a sewage tank system, it works much like an effluent system, when the waste water reaches a certain level it flows into the second part of the treatment system. This waste water is then pumped out into a leach field or the town's sewage system.

Never use a sewage pump for a sump pump application. Because of the power of the sewage pump it will cycle on and off too frequently which can shorten the life of the motor.

Typical installations

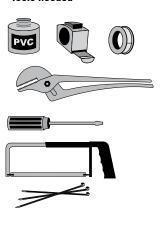
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Replacing an existing sewage pump

- 1. Determine the horsepower of your current pump. This will be located on the identification plate of your existing pump. Select a pump with the same horsepower as your existing pump. If the horsepower is not clearly identified on the label, the model number of the product can help you determine it. If the model number contains a 5, 50 or 52 it will most likely be a 1/2 hp pump; if the model number contains 7 or 75 it will most likely be a 3/4 hp pump; if the model number contains 1 or 100 it will most likely be a 1 hp pump. For example an RL-WC50TA is a 1/2 hp pump. Check with the pump manufacturer or call our technical support hotline if you are unsure.
- Determine the size and type of discharge pipe you have. Sewer lines are 2" in diameter or larger, so it is important to measure the line. Ensure the discharge size on the pump (this information is found on the carton) matches the discharge pipe you have.
- If you have recently added plumbing fixtures (such as a bathroom addition), please call our technical support hotline and they can assist you in finding the correct size pump for your needs.





RedLionProducts.com Hotline: 1.888.956.0000

CAST IRON SURFACE EFFLUENT PUMPS

APPLICATIONS

Ideal for pumping liquid from septic tanks, as well as pumping out flooded basements, irrigation, and general dewatering.

FEATURES & BENEFITS

- · Self-priming effluent pump with built-in check valve
- · Rugged cast iron casing
- Heavy-duty motor, 115/230 Volts
- · Cast iron impeller

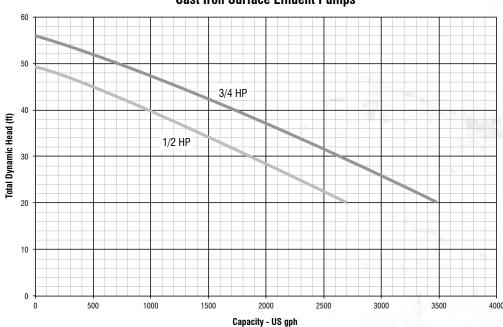


Model	Item	UPC	HP	Volts	Discharge	Cord		ıs Per H	lour at H	leight	Shut-	Max.
Monei	Number	UFG	nr	VUILS	Discharge	Length	20'	30'	40'	50'	Off	PSI
RL-S50	621810	0 10121 12643 5	1/2	115/230	1-1/4" FNPT	8'	2700	1860	960	-	49'	21
RL-S75	621826	0 10121 12647 3	3/4	115/230	1-1/4" FNPT	8'	3480	2640	1740	600	56'	24

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-S50	10.25"	20"	11.75"	42	1.39	32	8	4
RL-S75	10.25"	20"	11.75"	44	1.39	32	8	4

Cast Iron Surface Effluent Pumps



CAST IRON SUMP/EFFLUENT PUMPS

APPLICATIONS

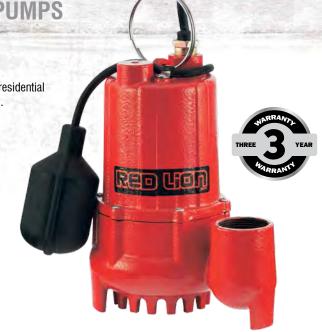
Ideal for average- to high-volume water and effluent removal in residential spaces such as basements, laundry facilities, and crawl spaces.

FEATURES & BENEFITS

· Automatic submersible sump/effluent pumps

30 Kon

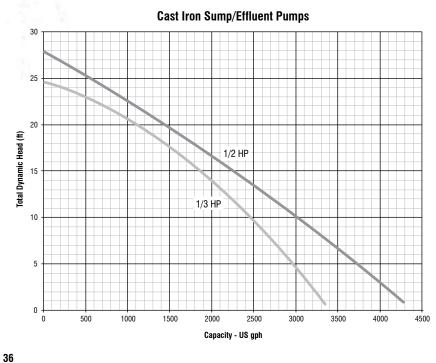
- 1-1/2" FNPT discharge
- · Piggyback float switch
- Clog-resistant design (1/2" semi-solids handling)
- · PSC motor
- 10' cord



Model	Item Number	UPC	НР	Curitoh	Volto	Amno	Discharge	Cord	Ga	allons P	er Hour	at Heig	ht	Shut-	Basin
	Number	UFG	HI	SWILCII	Voits	Allips	Discharge	Length	0'	5'	10'	15'	20'	Off	Diameter
RL-SC33T	14942744	0 10121 14167 4	1/3	Tethered	115	4.4 A	1-1/2" FNPT	10'	3350	3000	2460	1860	960	25'	18" or more
RL-SC50T	14942746	0 10121 14169 8	1/2	Tethered	115	5.3 A	1-1/2" FNPT	10'	4300	3840	3000	2220	1440	28'	18" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SC33T			13"	20	0.48	81	27	3
RL-SC50T	7.25"	8.75"	13"	20	0.48	75	25	3





SNAP-ACTION CAST IRON SUMP/EFFLUENT PUMPS

APPLICATIONS

Ideal for average- to high-volume water and effluent removal in residential spaces such as basements, laundry facilities, and crawl spaces.

FEATURES & BENEFITS

- · Automatic submersible cast iron sump/effluent pump
- 1-1/2" FNPT discharge
- Integrated snap-action float switch suitable for use in narrow basins (11" or greater)
- · Solid float will never become waterlogged
- · Built-in rod protection prevents float from contacting basin
- Clog-resistant design (1/2" diameter semi-solids handling)
- 10' cord



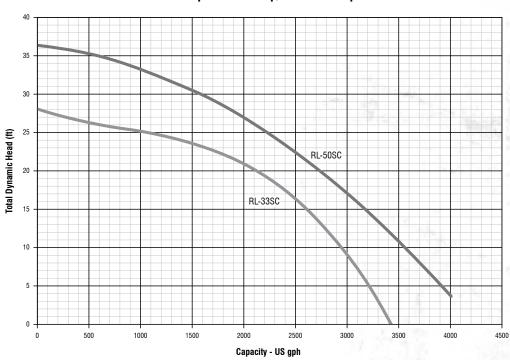


Model	Item	UPC	НР	Volts	Amps	Discharge	Cord Length	G	allons P	er Hour	at Heig	ht	Shut-	On/Off	Basin
Monei	Number	UFG	nr	VUILS	Alliha	Discilarye	Length	5'	10'	15'	20'	30'	Off	Levels	Diameter
RL-33SC	14942652	0 10121 14579 5	1/3	115	5	1-1/2" FNPT	10'	3200	3000	2500	2200	-	28'	On: 8 - 11" Off: 2 - 5"	11" or more
RL-50SC	14942653	0 10121 14580 1	1/2	115	6.5	1-1/2" FNPT	10'	4000	3420	3090	2800	1680	36'	On: 8 - 11" Off: 2 - 5"	11" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-33SC				27.75		48	16	3
RL-50SC	10.25"	11.50"	13.75"	28.46	0.94	36	12	3

Snap-Action Sump/Effluent Pumps





PREMIUM SUBMERSIBLE STAINLESS STEEL SUMP/EFFLUENT PUMPS

Clean Water

APPLICATIONS

Ideal for high volume water and effluent removal in residential spaces such as basements, laundry facilities, and crawl spaces.

FEATURES & BENEFITS

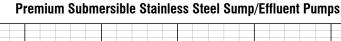
- · Automatic submersible sump pump Ideal for high-volume water removable applications
- · Heavy-duty stainless steel and cast iron construction For years of service and reliability
- · Clog-resistant design Capable of passing 3/4" diameter semi-solids
- Tethered float switch Reliable automatic operation for use in basins 15" diameter or greater

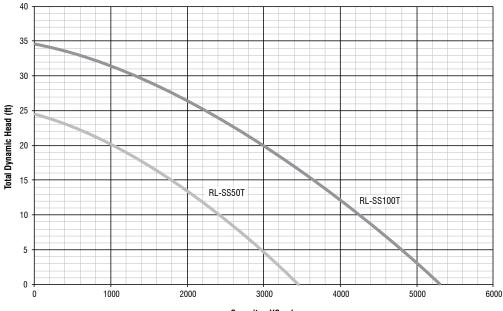


Model	Item Number	UPC	НР	Volte	Amps	Discharge	Cord Length		Gallor	ıs Per H	lour at l	Height		Shut-	Min. Basin	On/Off Levels
Monei	Number	UFC	nr	VUILS	Alliha	Discharge	Length	0'	5'	10'	15'	20'	30'	Off	Diameter	Oli/Oli Levels
RL-SS50T	14942781	0 10121 14437 8	1/2	115	5	1-1/2" FNPT	10'	3450	3000	2400	1800	-	-	25'	18" or more	On: 13.8" – 14.8" Off: 5.5' '– 6.5"
RL-SS100T	14942782	0 10121 14438 5	1	115	8	2" FNPT 1-1/2" FNPT adapter included	20'	5300	4800	4300	3700	3000	1300	35'	18" or more	On: 15" –18" Off: 7" – 10"

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-SS50T	7"	10.5"	17"	22.5	0.72	40	20	2
RL-SS100T	10"	11"	18"	33.6	1.15	32	16	2





Capacity - US gph

HEAVY-DUTY CAST IRON EFFLUENT PUMF

APPLICATIONS

Ideal for liquid effluent pumping applications, as well as light commercial applications with up to 11/16" diameter semi-solids.

FEATURES & BENEFITS

- 1/3 hp 115 Volt thermal overload protected continuous duty motor
- · Rugged cast iron construction
- · Heavy-duty cast iron pump base and impeller
- · Automatic piggyback float switch



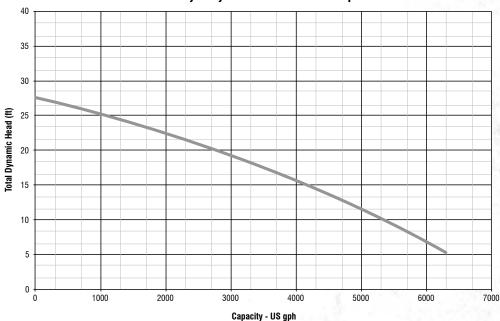


Model	Item	UPC	ШΒ	Amno	Volto	Discharge	Cord	G	allons P	er Hour	at Heig	ht	Shut-	Min. Basin
Model	Number	UFG	HP	Allips	VUILS	Discharge	Length	5'	10'	15'	20'	25'	Off	Diameter
RL31EA	620040	0 10121 12134 8	1/3	10.4	115	2" NPT	20'	6300	5400	4200	2700	900	28'	18" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL31EA	9.75"	12.5"	21.5"	52	1.52	24	12	2





CAST IRON SEWAGE PUMP

APPLICATIONS

Ideal for high volume sewage, effluent, and general wastewater applications in places like parking lots, leaching fields, and laundry facilities.

Clean Water

Lawn & Irrigation

Sump

FEATURES & BENEFITS

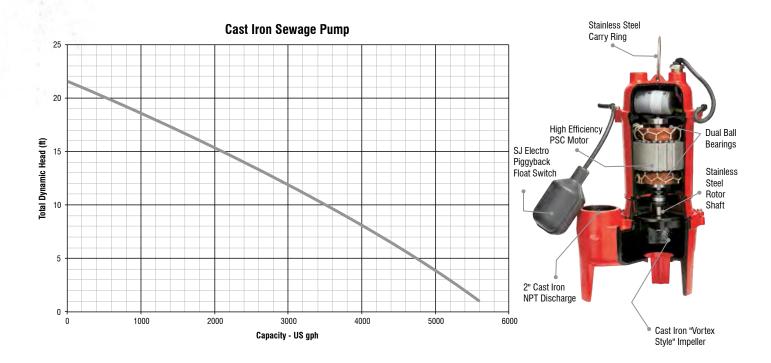
- · Automatic submersible cast iron sewage pump
- · PSC dual bearing motor with overload protection
- Capable of passing up to 2" diameter semi-solids
- · Piggyback tethered float switch
- 10' power cord



Model	Item	UPC	ШΒ	Volte	Amne	Discharge	Cord	G	allons P	er Hour	at Heig	ht	Shut-	On/Off Levels	Min. Basin
Model	Number	UFG	nr	Volts	Hillha	Discharge	Length	0'	5'	10'	15'	20'	Off	Oll/Oll Levels	Diameter
RL-WC50	TA 14942748	0 10121 14171 1	1/2	115	9	2" FNPT	10'	5600	4920	3720	1680	480	22'	On: 17.5" Off: 7.5"	18" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-WC50TA	8.5"	8.9"	18.4"	40	0.81	40	20	2



PREMIUM CAST IRON SEWAGE PUMP

APPLICATIONS

Ideal for high volume sewage, effluent, and general wastewater applications in places like parking lots, leaching fields, and laundry facilities.

FEATURES & BENEFITS

- Automatic submersible cast iron sewage pump
- PSC dual bearing motor with overload protection
- Capable of passing up to 2" diameter semi-solids
- · Piggyback tethered float switch

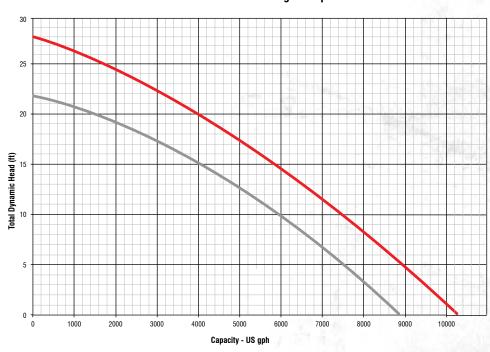


Model	Item	UPC	НР	Volto	Amno	Diochorgo	Cord		Gallo	ns Per H	lour at l	Height		Shut- Off	On/Off Levels	Min. Basin Diameter
Model	Number	UFG	HF	VUILS	Allips	Discharge	Length	0'	5'	10'	15'	20'	25'	Off	Oll/Oll Levels	Diameter
RL52WAM	620051	0 10121 13855 1	1/2	115	11.4	2" FNPT	20'	9000	7200	6000	4500	960	-	22'	On: 16" –18" Off: 9" –11"	18" or more
RL75WAM	14942635	0 10121 14583 2	3/4	115	10.3	2" FNPT	10'	10500	9300	7620	5880	4200	1740	28'	On: 17.5" Off: 10.5"	18" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL52WAM	11"	13.5"	16"	50	1.38	27	9	3
RL75WAM	11.75"	13.75"	15.5"	57	1.45	27	9	3

Premium Cast Iron Sewage Pump





HEAVY-DUTY CAST IRON SEWAGE PUMP

Clean Water

Lawn & Irrigation

Sump

APPLICATIONS

Ideal for raw sewage applications, as well as light commercial applications with up to 2" diameter semi-solids.

FEATURES & BENEFITS

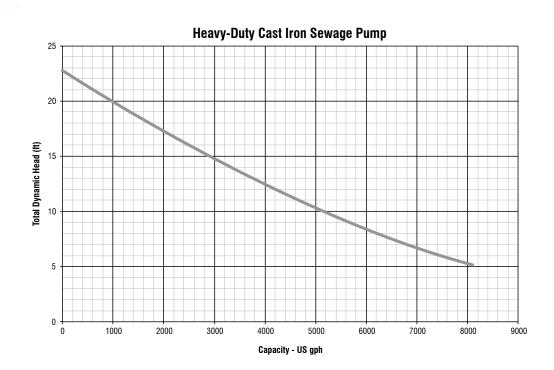
- 1/2 hp 115 Volt thermal overload protected motor
- Rugged cast iron construction
- Heavy-duty cast iron pump base and impeller
- Automatic piggyback float switch



ı	Model	Item	UPC	μр	Amno	Volto	Diochorgo	Cord	Gallo	ns Per H	lour at H	leight	Shut-	Min. Basin
ı	Monei	Number	UFG	nr	Alliha	VUILS	Discharge	Length	5'	10'	15'	20'	Off	Diameter
	RL52SA	620043	0 10121 12135 5	1/2	11.6	115	2" NPT	20'	8100	5400	2820	840	23'	18" or more

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL52SA	9.75"	12.5"	21.5"	58	1.52	24	12	2



SEWAGE BASIN SYSTEM

APPLICATIONS

Ideal for the collection and removal of sewage, effluent, drainage or seepage water from low lying areas.

FEATURES & BENEFITS

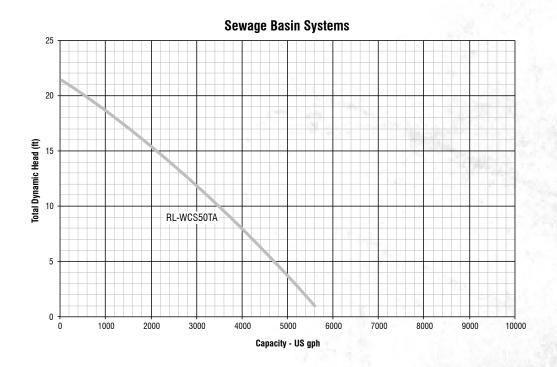
- 18" x 30" polyethylene basin
- 2" full-flow sewage check valve
- · Cover assembly and hardware
- Includes 1/2 hp sewage pump
- Discharge pipe pump to basin cover
- · Heavy-duty cast iron pump base and impeller
- · Automatic piggyback float switch



Model	Item	UPC	шъ	Amno	Volto	Disabarga	Cord	Ga	allons P	er Hour	at Heig	ht	Shut-	On/Off Levels	Assembly
Monei	Number	UFG	nr	Amps	Anira	Discharge	Length	0'	5'	10'	15'	20'	Off	Oll/Oll Levels	Required
RL-WCS50TA	14942749	0 10121 14172 8	1/2	9	115	2" FNPT	10'	5600	4920	3720	1680	480	22'	On: 17.5" Off: 7.5"	Assembly Required

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-WCS50TA	18"	18"	36"	55	6.75	4	2	2







General specifications

MULTI-PURPOSE

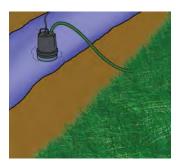
Whether selecting a submersible or non-submersible, emergency or permanent use multi-purpose pump, rest assured that your Red Lion pump is crafted to perform and last.

Typical installations

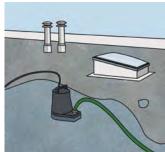
Red Lion offers multi-purpose pumps for a complete range of household applications. Whatever you need, Red Lion has the pump for you. Our multi-purpose pumps are ideal for:

Removing or transferring water from basements, rooftops, hot tubs, crawl spaces, and general dewatering

Models: MP16, MP25, MP25A, RL50CON



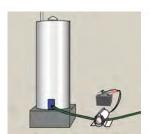






Draining waterbeds, hot water tanks, appliances, aquariums, and other emergency dewatering needs Models: MPFVK115, MPFV12, MPDP, MPTC





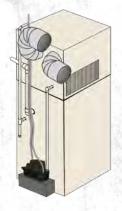
Boosting household water pressure for washing vehicles, sidewalks, and driveways, or for use in general water transfer applications **Model: MPTC**





Removing condensation build-up from air handlers, boilers, furnaces,

ice makers, and dehumidifiers Models: C15, C20ST

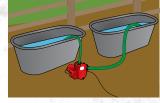


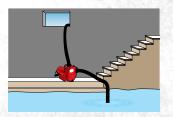


Dewatering and water feature applications Models: RL-160U, RL-250U,









THERMOPLASTIC UTILITY PUMPS

Clean Water

APPLICATIONS

Ideal for general water transfer applications and household water removal in places like basements, aquariums, and window wells.

FEATURES & BENEFITS

- Submersible 115 Volt utility pumps
- · Reinforced engineered thermoplastic construction
- · Screened bottom intake design
- Removes water to within 3/16" of surface
- · Includes garden hose adapter









RL-MP25

RL-MP50

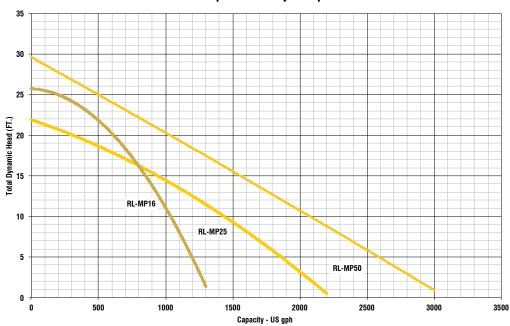
Model	Item Number	UPC	НР	Amno	Volts	Discharge	Intake	Cord	Ga	allons P	er Hour	at Heig	ht	Shut- Off
	Number	UFC	nr	Amps		Discharge	IIIIake	Length	0'	5'	10'	15'	20'	Off
RL-MP16	14942731	0 10121 14154 4	1/6	2	115	1" MNPT 3/4" GHT	Screened Bottom	8'	1300	1223	1068	864	550	26'
RL-MP25	14942732	0 10121 14155 1	1/4	2.5	115	1-1/4" MNPT 3/4" GHT	Screened Bottom	8'	2200	1920	1440	900	-	22'
RL-MP50	14942721	0 10121 14584 9	1/2	4	115	1-1/2' FNPT 3/4" GHT	Screened Bottom	8'	3000	2671	2158	1543	930	30'

Carton Specifications

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Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-MP16	6.3"	6.3"	11.75"	7.25	0.27	168	42	4
RL-MP25	6.3"	6.3"	12"	7.5	0.28	168	42	4
RL-MP50	8.5"	8.5"	15"	7.75	0.63	60	20	3

Thermoplastic Utility Pump



ALUMINUM UTILITY PUMPS

APPLICATIONS

Ideal for general water transfer applications and household water removal in places like basements, crawl spaces, rooftops, and window wells.

FEATURES & BENEFITS

- Submersible 115 Volt utility pumps
- · Corrosion-resistant aluminum casing for superior heat dissipation
- · Lightweight portability
- Removes water to within 1/4" of surface
- 3/4" garden hose adapter included
- · Oil-free motor design





.

RL-160U

Mod	Model	Item	UPC	НР	Amno	Volto	Discharge	Intake	Cord	Ga	allons P	er Hour	at Heig	ht	Shut-
		Number	UFC	пг	Allips	VUILS	Discharge	Шаке	Length				15'	20'	Off
	RL-160U	620109	0 10121 12595 7	1/6	2.1	115	1" FNPT 3/4" GHT	Screened Bottom	10'	1300	1200	840	420	-	19'
	RI-250U	14942734	0 10121 14157 5	1/4	3.2	115	1" FNPT 3/4" GHT	Screened Bottom	10'	1500	1440	1140	720	180	21'

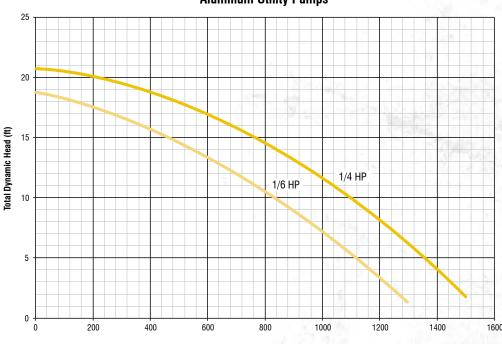
Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Master Pack Qty.
RL-160U	6"	6"	12"	9	0.25	6
RL-250U	6"	6"	12"	9.5	0.25	6

Master Pack Specifications

Model	Length	Width	Height	Weight	Carton Cubes	Pallet Quantity	Qty. per Layer	Layers
				(Ins)	(cu ft)			per Fallet
RL-160U				54		21 Master Packs		
RL-250U	18.75"	12.75"	13"	57	1.80	21 Master Packs	7 Master Packs	3

Aluminum Utility Pumps



Capacity - US gph

AUTOMATIC UTILITY PUMP

APPLICATIONS

Ideal for general water transfer applications and household water removal in places like basements, crawl spaces, rooftops, and other areas where automatic operation is required. This pump activates in three minute intervals to detect if water is present. If water is present, pump will continue to operate until water is removed.

Clean Water

Lawn & Irrigation

FEATURES & BENEFITS

- · Automatic submersible 115 Volt utility pump
- Reinforced engineered thermoplastic construction
- · Technologically advanced switch for automatic operation
- · Checks for water every three minutes
- Screened bottom intake design removes water within 3/4" of surface or 1/4" of surface without the screen
- · Includes garden hose adapter



Sump

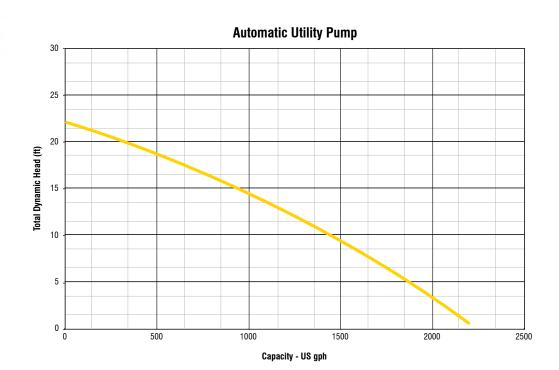


Model	Item	UPC	НР	Amps	Volto	Diochargo	Intake	Cord	Gallor	ıs Per H	lour at l	leight	Shut-
Model	Number	UFC	nr	Allips	VUILS	Discharge	ilitake	Length				15'	Off
RL-MP25A	14942735	0 10121 14158 2	1/4	2.0	115	1-1/4" MNPT 3/4" GHT	Screened Bottom	10'	2200	1920	1440	900	22'

Carton Specifications

48

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-MP25A	6.5"	6.25"	11.75"	7.5	0.28	168	42	4



HEAVY-DUTY SUBMERSIBLE UTILITY PUMP

APPLICATIONS

Construction-grade, heavy-duty submersible utility pump designed for the most demanding applications such as dewatering construction sites, ponds, and ditches.

FEATURES & BENEFITS

- · Rugged construction with stainless steel motor housing and suction strainer
- · Special urethane rubber impeller
- High efficiency, 115 V permanent split capacitor (PSC) motor, with thermal overload protection as well as upper and lower ball bearings for extended operation
- Double-seal system (silicon carbide primary mechanical seal with a carbon ceramic secondary seal)
- 20' extended length power cord



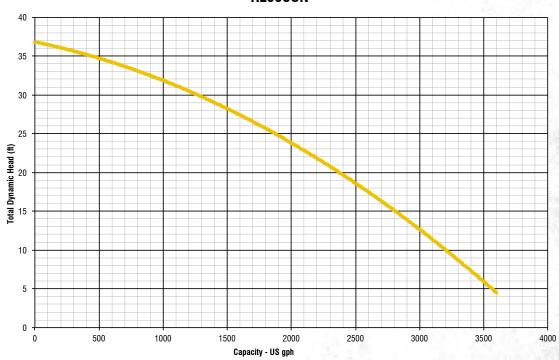


Model	Item	UPC	un	Amno	Volto	Discharge	Intake	Cord	Ga	allons P	er Hour	at Heig	ht	Shut-
Model	Number	010	nr	Allips	VUILS	Discharge	IIIIake	Length			20'	30'	37'	Off
RL50CON	14942722	0 10121 14585 6	1/2	5.0	115	2" MNPT	Screened Bottom	20'	3600	3240	2400	1200	0	37'

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
		9.25"	13.33"	26	0.55	50	25	2

RL50CON



Clean Water

UTILITY TRANSFER PUMPS

APPLICATIONS

Ideal for draining hot water tanks, appliances, and aquariums as well as water transfer applications where easy portability is required.

FEATURES & BENEFITS

- · Portable non-submersible transfer pumps
- · Choice of 115 Volt or 12 Volt DC models
- · Stainless steel construction
- Dual threaded intake and discharge fits both 3/4" male garden hose thread and 3/8" FNPT pipe connection
- · Includes replacement impeller kit
- · MPFVK115 includes hoses and suction attachment



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Model	Item	UPC	НР	Amno	Volts	Intake	Discharge	Cord	Gallor	ıs Per H	lour at l	Height
Model	Number	UFC	III AIII		VUILS	IIIIake	Discharge	Length				15'
MPFVK115	14942015	0 10121 00615 7	1/10	1.6	115	3/4" GHT, 3/8" FNPT	3/4" GHT, 3/8" FNPT	6'	365	330	300	280
MPFV12	14942004	0 10121 11803 4	1/10	7	12 V DC	3/4" GHT, 3/8" FNPT	3/4" GHT, 3/8" FNPT	6' leads	300	270	240	222

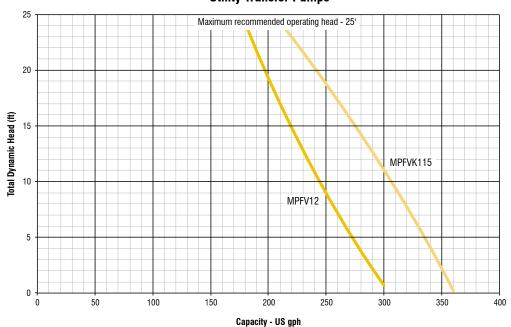
Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Master Pack Qty.
MPFVK115	11"	12"	5"	8.6	0.38	2
MPFV12	4.75"	5.5"	7.5"	4.5	0.11	6

Master Pack Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
						36 Master Packs		
MPFVK12	14.75"	11"	8.25"	26.7	0.77	36 Master Packs	12 Master Packs	3

Utility Transfer Pumps



MULTI-PURPOSE TRANSFER PUMP

APPLICATIONS

Ideal for boosting household water pressure to wash vehicles and driveways and for use in other water transfer and removal applications.

FEATURES & BENEFITS

- Non-submersible utility pump
- · Heavy-duty cast iron construction
- Includes 3/4" brass garden hose adapters

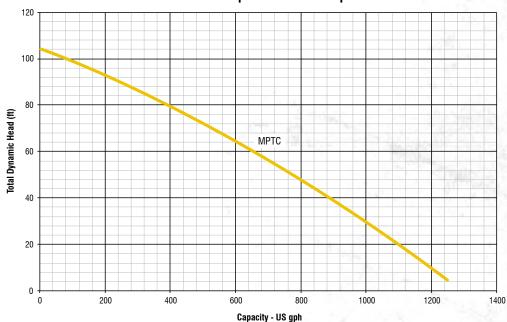


	Model		UPC	НР	Amno	Volts	Intake	Diochorgo	Cord		Gallor	ıs Per H	lour at l	leight		Shut-
Model	Number	UPC		Amps		IIIIake	Discharge	Length		20'				100'	Off	
	MPTC	14942006	0 10121 11805 8	1/2	9	115	3/4" GHT	3/4" GHT	10'	1250	1152	912	648	372	90	105'

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
MPTC	6.6"	10.6"	10.5"	18	0.43	96	24	4

Multi-Purpose Transfer Pump



Sump

SELF-PRIMING MULTI-PURPOSE TRANSFER PUMP

Clean Water

APPLICATIONS

Ideal for pumping out flooded basements, livestock watering, flood irrigation, and general dewatering where portability is preferred.

FEATURES & BENEFITS

- Self-priming transfer pump with built-in suction check valve
- · Rugged cast iron casing
- Heavy-duty 1/2 hp 115 Volt motor
- . Self-priming to 25'
- · Power cord, carry handle, and garden hose adapter included

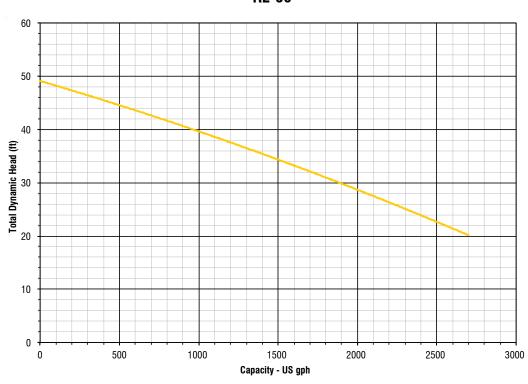


Model	Item	UPC		Amps	Volto	Intoko	Discharge	Cord		Gallo	ns Per		at Hei	ght		Shut-	Max.	Max. Flow at 5'
	Number	UFC		Hillha		IIIIake	Discharge	Length	20'	25'					49'		Pressure	Suction Lift
RL-50	621804	0 10121 12640 4	1/2	9	115	1-1/4"	1" FNPT	8'	2700	2340	1860	1440	960	480	0	49'	21	2700 gph

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
RL-50		20.5"	11.6"	43	1.41	24	6	4





CONDENSATE REMOVAL PUMPS

APPLICATIONS

Ideal for use in removing condensation build-up from air handlers, boilers, and furnaces.

FEATURES & BENEFITS

- Automatic operation
- · High impact ABS construction
- · Removable check valve
- · Contains 3 inlet drain holes
- 15' and 20' models available



Model	Warranty	Item	une	Amno	Volto	Discharge	Tubing	Cord	Gallor	ıs Per F	lour at l	Height 15'	Shut-
	warranty	Item Number	UPC	Allips	VUILS	Discharge		Length	0'		10'	15'	Off
C15	TWO 2 YEAR	14942600	0 10121 11806 5	1	115	3/8" Barb	N/A	6'	68	50	25	0	15'
C20ST	THREE 3 YEAR	14942601	0 10121 11807 2	1.5	115	3/8" Barb	Included	6'	82	70	52	25	20'

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
C15			7.35"			126	21	6
C20ST	7.25"	12.25"	7.35"	6.25	0.38	90	15	6

DRILL POWERED TRANSFER PUMP

APPLICATIONS

A cost-effective device that uses an ordinary drill to pump out water and other liquids. Ideal for draining sinks, dishwashers, water heaters, and aquariums as well as emergency pumping of shallow flooded areas.

FEATURES & BENEFITS

- · Multi-purpose drill pump
- Thermoplastic self-priming construction for best pump performance and extended service life
- · Connects to standard drill and garden hose makes easy work out of household jobs

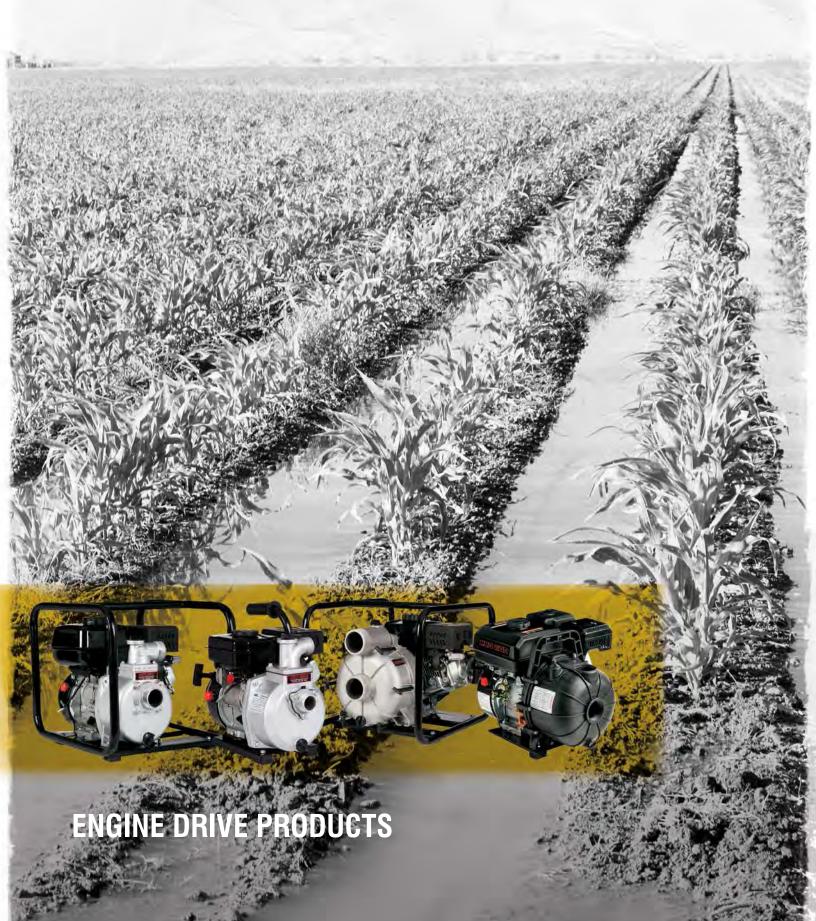
Model	Item Number	UPC	Length	Width	Height	Weight (lbs)	Max. Flow GPH
MPDP	14942003	0 10121 11802 7	2.5"	5"	7.75"	0.5	156*

^{*}Based on 2500 rpm

Master Pack Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Master Pack Quantity	Pallet Quantity	Qty. per Layer	Layers per Pallet
MPDP	15.5"	9"	5.5"	3	0.44	6	104 Master Packs	13 Master Packs	8







What does an engine drive pump do?

The majority of gasoline powered pumps sold in North America are referred to as general purpose, utility, or transfer. This is simply moving liquid from one point to another. Pump construction can be a variety of materials. Preference is given to light weight and portability.

Types of engine drive pumps

Agricultural

Pumps designed to handle today's agricultural chemicals (fertilizer, herbicides, and pesticides) would fall into this category. Construction is either a poly derivative or cast iron. Aluminum is usually not used as it does not provide strong chemical resistance. Solids handling is not required. The seal elastomer is usually EPDM or fluorelastomer.

Semi-Trash

A pump is considered semi-trash if it has some semi-solids handling capabilities. The pump impeller is usually semi-open vane clearance to pass a spherical solid $\frac{1}{2}$ " to $\frac{3}{4}$ " in diameter. The mechanical seal faces are usually of a hard material like silicon carbide. This is for abrasion resistance. Typical application is drainage, construction dewatering, etc.

Trash

Similar in application to the above except that solids handling is typically 50% of suction port size. (Usually greater than 1" solids) and most manufacturers allow for a removable casing to allow access to internal hydraulics for cleaning and repair.

Category	Construction	Application Examples
General Purpose	Poly Aluminum Cast Iron	Water Transfer Flood Control
Agricultural	Poly Aluminum Cast Iron	Chemical Transfer (Fertilizer) Nurse Trailer
Solids Handling	Aluminum Cast Iron	Construction Semi-Trash Trash
High Pressure	Aluminum Cast Iron	Irrigation Fire Fighting

Lawn & Irrigation

ALUMINUM WATER TRANSFER PUMP

Clean Water

APPLICATIONS

Ideal for general purpose use where portability is required such as liquid transfer and contractor de-watering applications.

FEATURES & BENEFITS

- · Durable cast iron semi-open style impeller
- · Lightweight aluminum construction with base and handle for portability
- . Self-priming to 25' of suction lift
- · Built-in check valve
- · EPA certified
- · Includes 1" adapter



Model	Item Number	UPC	cc	Intake	Discharge	Suction Lift	Max. Head	Max. Flow GPM	Fuel Tank (qt)	Engine
2RLAG-1L	617031	0 10121 14500 9	79	1-1/2" MNPT	1-1/2" MNPT	25'	79'	60 gpm	1.7	Air Cooled 4 Stroke 79cc OHV

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
2RLAG-1L	14"	20.75"	17.75"	43	2.98	8	4	2



ALUMINUM WATER TRANSFER PUMP

APPLICATIONS

Ideal for general purpose use in high volume liquid transfer and contractor de-watering applications.

FEATURES & BENEFITS

- Powered by commercial grade Honda GX120 engine
- · Durable cast iron semi-open style impeller
- Lightweight aluminum outer casing: includes heavy-duty roll frame
- Self-priming to 25' of suction lift
- · Built-in check valve
- EPA certified

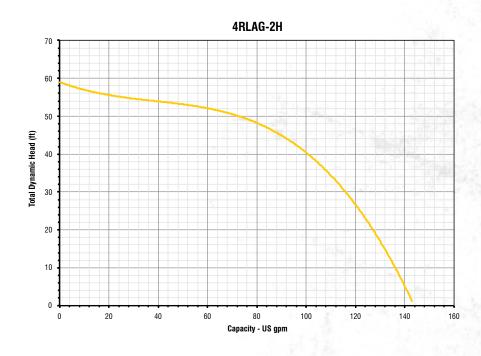




Model	Item Number	UPC		Intake	Discharge	Suction Lift	Max. Head	Max. Flow GPM	Fuel Tank (qt)	Engine
4RLAG-2H	617053	0 10121 13751 6	118cc	2" MNPT	2" MNPT	25'	59'	143 gpm	2.1	Honda GX120 (118cc)

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
4RLAG-2H	15.25"	19.5"	15.25"	52	2.62	18	6	3



ALUMINUM WATER TRANSFER PUMP

Clean Water

APPLICATIONS

Ideal for general purpose use in high volume liquid transfer and contractor de-watering applications.

FEATURES & BENEFITS

RED HON

- · Durable cast iron semi-open style impeller
- · Lightweight aluminum outer casing: includes heavy-duty roll frame
- Self-priming to 25' suction lift
- · Built-in check valve
- · EPA certified

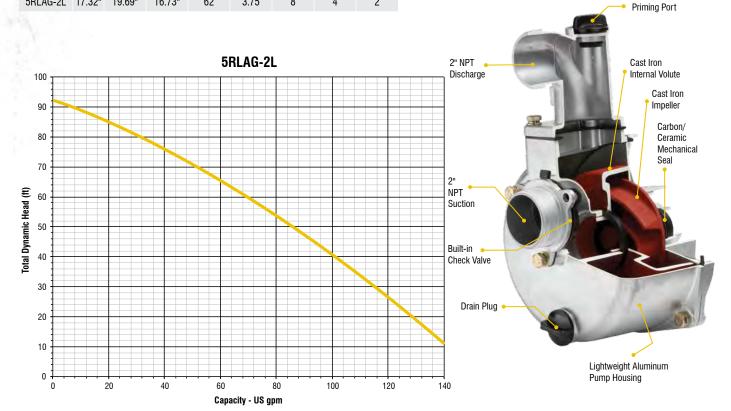




Model	Item Number	UPC	CC	Intake	Discharge	Suction Lift	Max. Head	Max. Flow GPM	Fuel Tank (qt)	Engine
5RLAG-2L	617033	0 10121 14502 3	179cc	2" MNPT	2" NPT	25'	92'	150 gpm	3.8	Air Cooled, 4 Stroke OHV (179cc)

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
5RLAG-2L	17.32"	19.69"	16.73"	62	3.75	8	4	2



Priming Port

ALUMINUM WATER TRANSFER PUMP KIT

APPLICATIONS

Ideal for general purpose use where portability is required such as liquid transfer and contractor de-watering applications.

FEATURES & BENEFITS

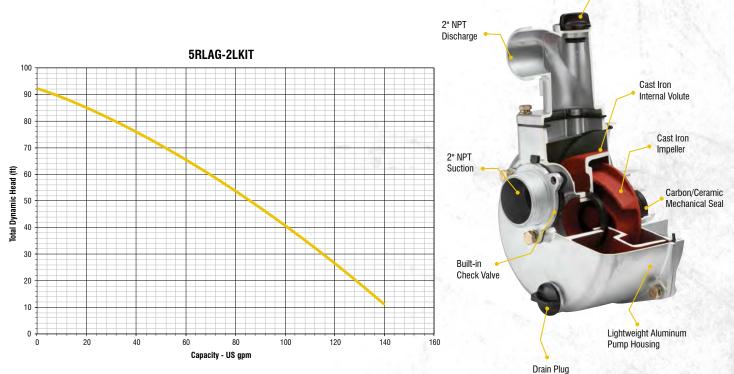
- · Durable cast iron semi-open style impeller
- · Lightweight aluminum outer casing: includes heavy-duty roll frame
- Self-priming to 25' of suction lift
- · Built-in check valve
- Includes 12' reinforced suction hose with steel suction strainer, 50' lay flat discharge hose with attached couplings, and two 2" aluminum adapters for use with quick-connect couplers



Model	Item Number	UPC		Intake	Discharge	Suction Lift	Max. Head	Max. Flow GPM	Fuel Tank (qt)	Engine
5RLAG-2LKIT	617030	0 10121 14612 9	179cc	2" NPT	2" NPT	25'	92'	150 gpm	3.8	Air Cooled, 4 Stroke OHV (179cc)

Carton Specifications

Model	Length (in)	Width (in)	Height (in)	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
5RLAG-2LKIT	17.5"	27"	17.75"	85.9	4.85	4	2	2



APPLICATIONS

Ideal for liquid transfer including most agricultural chemicals and general dewatering where rugged portability is important.

FEATURES & BENEFITS

· Heavy-duty cast iron pump casing

20 Kon

- · Durable cast iron semi-open type impeller
- · Stainless steel shaft sleeve and FKM seal
- · 2" NPT suction and discharge for convenient hookup
- · Self-priming down to 25'
- · Handles most liquid agricultural chemicals
- Handles up to 5/8" solid debris



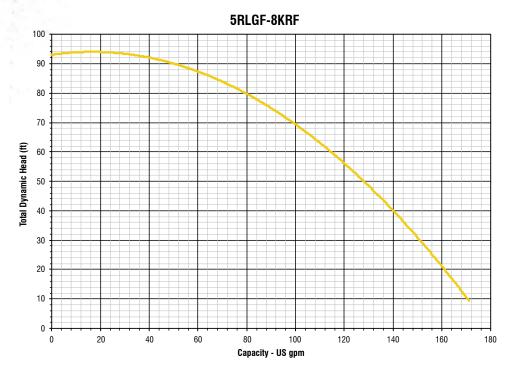


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Model	Item Number	UPC	CC		Discharge	Suction Lift	Max. Head	Max. Flow GPM	Fuel Tank (qt)	Engine
5RLGF-8KRF	617032	0 10121 14501 6	196cc	2" FNPT	2" FNPT	25'	95'	170 gpm	3.8	Kohler, Air Cooled, 4 Stroke, OHV (196cc)

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
5RLGF-8KRF	17.5"	21"	18"	74	3.93	8	4	2



THERMOPLASTIC AG CHEMICAL & TRANSFER PUMP

APPLICATIONS

Ideal for sprayer applications such as liquid fertilizers and ag chemicals.

FEATURES & BENEFITS

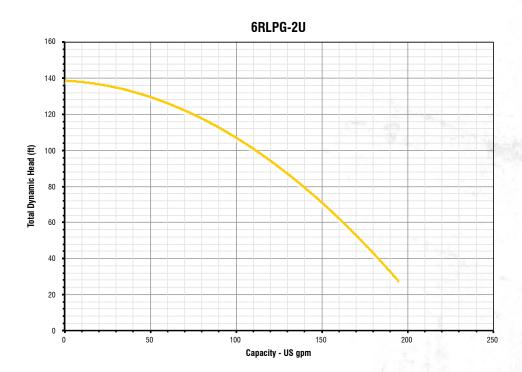
- · Lightweight corrosion-resistant construction
- Self-priming to 25' of suction lift
- · Integrated check valve and carry handle
- · Rubber feet to dampen vibration
- · EPA certified
- 3.8 qt fuel tank
- · Carbon ceramic with EPDM elastomer seal



Model	Item Number	UPC	CC		Discharge	Suction Lift	Max. Height	Max. Flow GPM	Fuel Tank (qt)	Engine
6RLPG-2U	617070	0 10121 14086 8	212cc	2" FNPT	2" FNPT	25'	140'	195 gpm	3.8	4 Stroke OHV (212cc)

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
6RI PG-2U	20"	17.5"	16"	46.5	3.24	12	4	3



THERMOPLASTIC AG CHEMICAL

APPLICATIONS

Ideal for sprayer applications such as liquid fertilizers and ag chemicals.

FEATURES & BENEFITS

- Powered by Kohler 3000 Series 6.5 hp engine
- Lightweight corrosion-resistant construction
- · Self-priming to 25' of suction lift
- · Integrated check valve
- · Includes heavy-duty roll frame
- · EPA certified
- · Carbon ceramic mechanical seal with EPDM elastomers



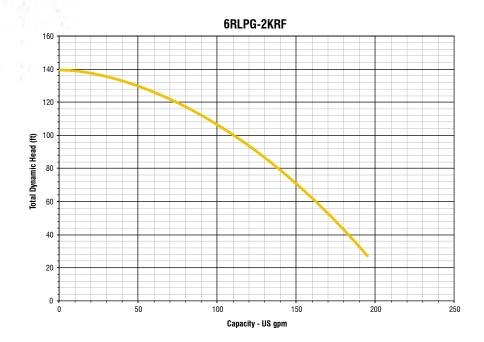


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Model	Item Number	UPC		Intake	Discharge	Suction Lift	Max. Height	Max. Flow GPM	Fuel Tank (qt)	Engine
6RLPG-2K	617071	0 10121 14413 2	196cc	2" FNPT	2" FNPT	25'	140'	195 gpm	3.8	Kohler 3000 Series (196cc)

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
6RLPG-2KRF			18"	47.5	3.68	8	4	2



ALUMINUM SEMI-TRASH PUMPS

APPLICATIONS

Ideal for high volume transfer and dewatering. Can handle liquid slurries including sand, pebbles, and suspended solids less than 1/2" in diameter.

FEATURES & BENEFITS

- · Durable cast iron semi-open style impeller
- · Lightweight aluminum outer casing: includes heavy-duty roll frame
- · Wear-resistant silicon carbide mechanical seal
- · Self-priming to 25' of suction lift
- · Built-in check valve
- · EPA certified







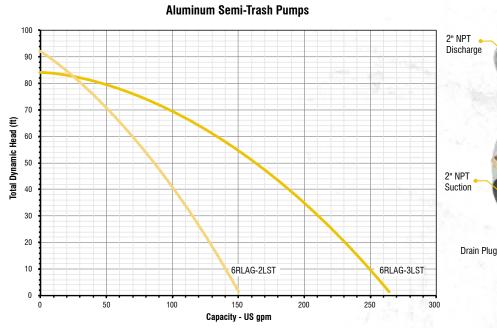
6RLAG-3LST

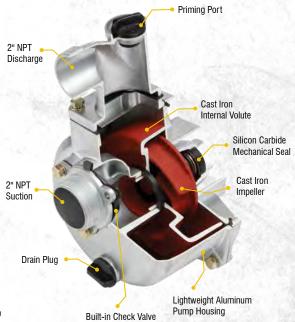
6RLAG-2LST

Model	Item Number	UPC	cc	Intake	Discharge	Suction Lift	Max. Head	Max. Flow GPM	Fuel Tank (qt)	Engine
6RLAG-2LST	617034	0 10121 14503 0	208cc	2" MNPT	2" MNPT	25'	92'	150	3.8	4 Stroke OHV (208cc)
6RLAG-3LST	617037	0 10121 14506 1	208cc	3" MNPT	3" MNPT	25'	85'	264	3.8	4 Stroke OHV (208cc)

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
6RLAG-2LST	17.5"	20"	18.25"	52	3.70	8	4	2
6RI AG-3I ST	17.75"	22.75"	19"	66	4.44	8	4	2





ENGINE DRIVEN SEMI-TRASH PUMP

Clean Water

Lawn & Irrigation

APPLICATIONS

Ideal for high volume transfer and dewatering. Can handle liquid slurries including sand, pebbles, and suspended solids less than 1/2" in diameter.

FEATURES & BENEFITS

- Powered by Commercial Grade Honda GX160 (163cc) engine
- · Durable cast iron semi-open style impeller
- · Lightweight aluminum outer casing: includes heavy-duty roll frame
- · Wear-resistant silicon carbide mechanical seal
- Self-priming to 25' suction lift
- · Built-in check valve
- · EPA certified





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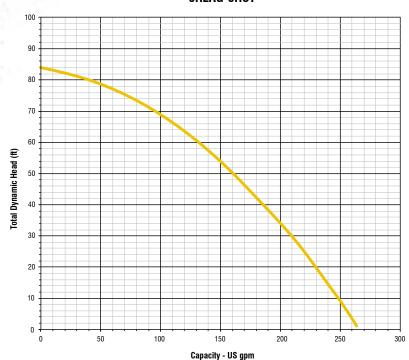
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Model	Item Number	UPC		Intake	Discharge	Suction Lift	Max. Head	Max. Flow GPM	Fuel Tank (qt)	Engine
6RLAG-3HST	617041	0 10121 14514 6	163	3" MNPT	3" MNPT	25'	85'	264	3.8 qt	Honda GX160

Carton Specifications

Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
6RLAG-3HST	18"	22"	17"	68.15 lbs	3.896	8	4	2

6RLAG-3HST



ALUMINUM TRASH PUMP

APPLICATIONS

Ideal for high volume water transfer and construction grade dewatering applications. Can handle liquid slurries containing sand, small rocks, and other debris less than 1-1/4" in diameter.

FEATURES & BENEFITS

- · Powered by 208cc 4 stroke air cooled OHV engine
- Removable aluminum outer casing with cast iron inner volute and impeller for durability
- Silicon carbide seal for abrasion resistance and trash application
- Handles up to 1-1/4" solids
- · Includes heavy-duty roll frame
- EPA certified

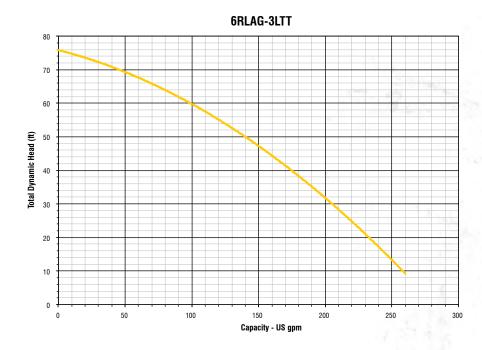




Model	Item Number	UPC	CC	Intake	Discharge	Suction Lift	Max. Height	Max. Flow GPM	Fuel Tank (qt)	Engine
6RLAG-3LTT	617038	0 10121 14507 8	208	3" NPT	3" NPT	25'	75'	285 gpm	3.8	Air Cooled, 4 Stroke OHV (208cc)

Carton Specifications

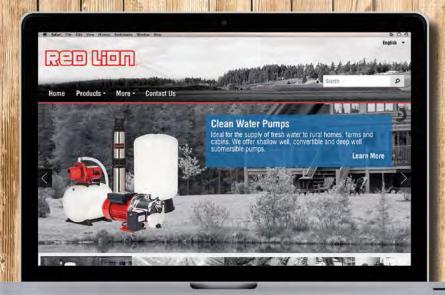
Model	Length	Width	Height	Weight (lbs)	Carton Cubes (cu ft)	Pallet Quantity	Qty. per Layer	Layers per Pallet
6RLAG-3LTT	19.5"	23"	18.5"	95	3.74	8	4	2



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Pressure Switch



Pressure Gauge



Foot Valve

WASTEWATER ACCESSORIES



Tethered Float Switch



Vertical Float Switch



Discharge Hose Kit

67

ENGINE DRIVE ACCESSORIES



617212



617201

MARKETING PROGRAM

Red Lion's well thought-out, professional marketing program is designed to grab the consumer's attention and provide the consumer with the information they need. Our trilingual carton artwork is designed with the consumer in mind. Features and benefits, typical applications, tools needed, specifications, and warranty information are clearly laid out.

COLOR-CODED TO IDENTIFY PUMP CATEGORY











PACKAGING FEATURES



MARKETING MATERIALS

Color coordinated and informative marketing materials are designed to assist customers and retail staff in the decision making process, identifying the product that best suits their individual needs.



MARKETING PROGRAM

MERCHANDISING PLANOGRAMS

Merchandising planograms are available for all retail store formats. These planograms focus retailers on the right product mix and assist in determining stock requirements. We have ready-made planograms for 4', 8', 12', and 16' gondolas. You can mix and match these easily to focus on your desired market or we can customize a planogram just for you to meet the needs for both store size and regional product preferences.



TROUBLESHOOTING GUIDE

RJS - SELF-PRIMING SHALLOW WELL JET PUMPS

- a. Motor will not start:
 - No power to pressure switch due to blown fuses, open switches or loose connections.
 - 2. Pump pressure switch not closed.
- b. Pump fails to deliver water:
 - 1. Pump not completely primed.
 - 2. Suction lift is too great.
 - 3. Foot valve is either not submerged, buried in mud or plugged.
- c. Pump loses prime:
 - 1. Air leaks in suction line.
 - 2. Well drawn down too far.
 - 3. Faulty foot valve.

- d. Pump delivers water but not at rated capacity:
 - 1. Leaks in suction or discharge line.
 - 2. Foot valve, suction line, impeller or nozzle are partially plugged.
 - 3. Suction lift is greater than recommended.
 - 4. Improper impeller rotation or low speed.
 - 5. Venturi or diffuser is plugged.
 - 6. Motor is wired for improper voltage.
 - 7. Low line voltage at motor.
 - 8. Motor does not come off starting windings (improper motor switch adjustment).
- e. Pump starts and stops too often:
 - 1. Faulty air volume control.
 - 2. Air leaks in tank above the water level.
 - 3. Incorrect setting on pressure switch.
 - 4. Tank is water logged or too small for application.

RJC – SELF-PRIMING CONVERTIBLE JET PUMPS

- a. Motor will not start:
 - No power to pressure switch due to blown fuses, open switches or loose connections.
 - 2. Pump pressure switch not closed.
- b. Pump fails to deliver water:
 - 1. Pump not completely primed.
 - 2. Suction lift is too great.
 - 3. Foot valve is either not submerged, buried in mud or plugged.
 - 4. Restrictor valve is fully closed.
- c. Pump loses prime:
 - 1. Air leaks in suction line.
 - 2. Well drawn down too far and requires a tail-pipe.
 - 3. Faulty foot valve.

- d. Pump delivers water but not at rated capacity:
 - 1. Leaks in suction or discharge line.
 - Foot valve, suction line, impeller or nozzle are partially plugged.
 - 3. Suction lift is greater than recommended.
 - 4. Improper setting of control valve on deep well units.
 - 5. Improper impeller rotation or low speed.
 - 6. Venturi or diffuser is plugged.
 - 7. Motor is wired for improper voltage.
 - 8. Low line voltage at motor.
- e. Pump starts and stops too often:
 - 1. Air leaks in tank above the water level.
 - 2. Incorrect setting on pressure switch.
 - 3. Tank is water logged or incorrectly charged.
 - 4. Foot valve leaks or is stuck open.

Sand Point Applications

Trouble	Possible Solution
Pump noisy - output requirement exceeds available capacity.	Install/adjust valve on discharge to reduce output
Pump runs hot/won't shut off. Can not build pressure due to lack of water at source.	Install low pressure cut-off switch to shut down pump prior to critical failure.
Changes in requirement not being met by current system (added bathroom, irrigations, etc.)	Increase pressure cut-off switch to offset peak period demand from insufficient source.

Recommended Maximum Flow Rates

Pipe Diameter	Gallons Per Hour (gph)	Gallons Per Minute (gpm)
3/4"	750	12.5
1"	1000	17
1-1/4"	2100	35
1-1/2"	3000	50
2"	4800	80
3"	9000	150
4"	16000	267

PRE-CHARGED PRESSURE TANKS

Can I install my Red Lion diaphragm pressure tank on its side?

Side installations are acceptable up to the RL44 size. We do not recommend horizontal installations for any tanks larger than the RL44.

What is the warranty on Red Lion tanks?

All Red Lion tanks carry a 5 year limited warranty from the date of manufacture on the original tank.

My tank was just installed and the water has a funny taste – what should I do?

Flush the new tank by allowing water to flow through three or four pump cycles. If the taste continues, you should probably have the source water tested.

Can I use chlorinated water with my Red Lion tank?

Of course. Red Lion tanks are designed with the knowledge that chlorine is often used to periodically treat a well.

What is drawdown?

Drawdown refers to the amount of water that evacuates the tank before the pressure switch will activate the pump. Drawdown is affected by the pump, the size of the tank, and the pressure settings that govern your water system.

Tank system operation

- Pump comes on and begins to fill tank.
- 2. Pump continues to run, compressing air charge in tank.
- 3. Pump shuts off.
 Drawdown water is
 available on demand.







What is pre-charge pressure?

Pre-charge pressure refers to the amount of air in psi that is pumped into a tank prior to installation – usually at the factory. Most tanks are provided with a 28 psi pre-charge (38 psi in the RL81 to RL119 sizes). The pre-charge is the "spring" that helps to create water pressure. As the diaphragm fills with water, it compresses the pre-charge. In a 30/50 system, the pump will continue to propel water into the tank until the pressure in the tank reaches 50 psi.

How much pressure (pre-charge) should be in my tank?

Your tanks should be pressurized to 2 psi less than the cut-in pressure setting (for example, if your pressure settings are 30/50, then your cut-in pressure setting is 30 psi and your tank should have a 28 psi pre-charge).

How do I check or change my pre-charge?

You must completely drain the tank to check pre-charge. To do this, shut the power off to the pump and open (turn-on) a faucet in the house. This will drain the tank and not allow it to refill. On the top of the tank you will find an air valve (similar to the air valve on your tires) – use a tire pressure gauge to check the air pressure.

4" SUBMERSIBLE WELL PUMPS

Trouble	Possible Cause	Corrective Action
Meter will not start but	No voltage to motor.	With a voltmeter check: 1) fuse box to make sure full voltage is available; 2) pressure switch terminals to make sure pressure switch is passing voltage correctly; and 3) terminal strips in pump control box or disconnect switch box to make sure voltage is available there. On 1-½ through 3 hp: push red overload reset button(s) on the bottom of the control center.
Motor will not start but does not blow fuses. WARNING! Hazardous	Cable splices or motor windings may be grounded, shorted or open-circuited.	Consult certified electrician or service technician. Do not attempt to disassemble pump or motor.
voltage. Can shock, burn or cause death. Qualified	Faulty pressure switch.	Check pressure switch; replace if necessary.
electricians should work on electrical service.	3-wire only; open circuit in pump control box; faulty connections; faulty wires.	Examine all connections and wires; examine terminal strips in the control center (3-wire only); repair if necessary.
	3-wire only; cable leads improperly connected in the control center.	Check wiring diagram on control center panel and color coding of drop cable.
	Voltage is too low; motor will run slowly, causing low discharge pressure (head) and high operating current draw.	Have a certified electrician verify voltage at the electrical disconnect box (2-wire) or control center (3-wire) while the pump is operating. If the voltage is low, the power company may need to raise it or installation may require larger wire. Discuss this with the power company or a certified electrician. Check voltage with a recording meter if trouble reoccurs.
	Faulty pressure switch.	Replace switch.
Pressure switch fails to shut off pump.	Drop pipe is leaking.	Raise one length at a time until the leak is found. When water stands in the pipe, there is no leak below this point.
	Water level in the well may become too low when pump is running.	Lower the pump further into the well, but make sure it is at least five feet from the bottom of the well. Install a control valve in the discharge pipe between the pump and pressure tank. Use the control valve to restrict the flow until the discharge rate does not exceed well recovery rate. WARNING! To prevent the possibility of dangerously high pressure, install a relief valve in the discharge pipe between the pump and flow restriction valve. The relief valve must be capable of passing full pump flow at 75 psi.
	Low or high voltage.	While the motor is running, voltage should not exceed plus 5% or minus 5% of rated voltage shown on motor nameplate. Plus 3% or minus 3% in Canada. Call your power company to adjust line voltage if it is not within these limits.
	Wire size is too small. Improperly connected in the pump control box.	See cable selection guide in the technical data section and make sure the wire sizes match specifications in table.
Fuses blow or overload protector trips when motor is running.	Cable splices or motor windings may be grounded, shorted or open-circuited.	Consult certified electrician or a service technician to determine if this is the cause of the problem or not. Do not attempt to disassemble the pump or motor.
	3-wire only; high ambient (atmospheric) temperature.	Make sure the pump control box is installed out of direct sunlight.
	3-wire only; pump control box wrong horsepower or voltage for installation.	Compare horsepower and voltage rating of motor (from motor nameplate) with those of the pump control box (from pump control box nameplate). These numbers must match.
Air or milky water discharges from your faucets.	Well water may be gaseous.	If your well is naturally gaseous and your system has a standard tank, remove the bleeder orifices and plug the tees. If the condition is serious, check with a certified well professional.

Trouble	Possible Cause	Corrective Action
	Water level in a low producing well drops too low while pump is operating, causing it to air lock (resulting in loss of prime and possibly serious damage to the pump).	Lower the pump further into the well, but make sure it is at least five feet from the bottom of the well. Install a control valve in the discharge pipe between the pump and pressure tank. Use the control valve to restrict the flow until the discharge rate does not exceed well recovery rate. WARNING! To prevent the possibility of dangerously high pressure, install a relief valve in the discharge pipe between the pump and flow restriction valve. Relief valve must be capable of passing full pump flow at 75 psi.
Your pump delivers little or no water.	Intake screen is partially plugged.	Lime or other matter in the water may build up on screen. Pull pump and clean screen.
	Check valve(s) may be stuck.	Make sure that the built-in check valve in the pump and any check valves in the discharge line are free to open properly.
	Voltage is too low; the motor runs slowly, causing low discharge pressure (head) and high operating current draw.	Have a certified electrician verify voltage at the electrical disconnect box (2-wire) or control center (3-wire) while the pump is operating. If the voltage is low, the power company may need to raise it or installation may require larger wire. Discuss this with the power company or a certified electrician. Check voltage with a recording meter if trouble reoccurs.
	Leak in the pressure tank or plumbing.	Check all connections with soap suds for air leaks. Fix any leaks you find. Check the plumbing for water leaks. Fix any leaks you find.
	Pressure switch is defective or out of adjustment.	If necessary, replace switch.
	Check valve is leaking.	Inspect valves and replace if necessary.
Pump starts too frequently.	Tank is waterlogged.	Captive air tanks: Check the tank for leaks; correct if possible. Pre-charge tanks to 18 psi with a 20-40 psi switch, 28 psi for a 30-50 switch, 38 psi for a 40-60 psi switch, etc. Standard tanks: Check the tank for leaks; correct if possible. Check bleeder orifices and clean bleeders; replace if necessary.
	Drop pipe leaking.	Raise one length of pipe at a time until the leak is found. When water stands in the pipe there is no leak below this point.
	Pressure switch is too far from the tank.	Move the pressure switch to within one foot of the tank.
	Low or high voltage.	While the motor is running, voltage should not exceed plus 5% or minus 5% of rated voltage shown on motor nameplate. Plus 3% or minus 3% in Canada. Call your power company to adjust line voltage if it is not within these limits.
	Wire size is too small. Improperly connected in the pump control box.	See cable selection guide in the technical data section and make sure the wire sizes match specifications in table.
	Cable splices or motor windings may be grounded, shorted or open-circuited.	Consult certified electrician or a service technician to determine if this is the cause of the problem or not. Do not attempt to disassemble the pump or motor.
Fuses blow or overload protector trips when motor starts.	3-wire only; cable leads may be improperly connected in pump control box, pressure switch or fused disconnect switch.	Check wiring diagram on pump control box and color coding of drop cable.
	3-wire only; there may be a broken wire in the pump control box.	Employ a certified electrician to examine all connections and wiring in control panel. If necessary, repair them.
	3-wire only; starting or running capacitor in control box may be defective or vented (blown out).	Inspect capacitors. Employ a certified electrician to check capacitors and replace them if necessary. WARNING! Hazardous voltage; can shock, burn or cause death. Capacitors may still carry voltage charges even after being disconnected from wiring. Have them checked by a certified electrician.

SUBMERSIBLE UTILITY & SUMP PUMPS

Trouble	Possible Cause	Corrective Action
	Blown fuse.	Replace fuse.
	Tripped circuit.	Reset.
	Disconnected plug.	Reinstall pump.
Motor does not run.	Corroded plug.	Clean prongs.
	Tripped overload.	Allow pump to cool, investigate cause (i.e. jammed impeller).
	Defective switch.	Replace switch.
	Defective motor.	Replace pump.
	Float obstructed.	Check for freedom of movement. Ensure switch isn't touching wall of basin or pit.
	Impeller jammed.	Remove bottom plate and clean.
	Plugged check valve.	Remove valve, clean or replace.
Motor hums but flow reduced or none at all.	Partially blocked inlet.	Clean inlet.
reduced of florie at all.	Line leak.	Repair line.
	Worn impeller.	Replace pump/repair.
	Defective motor.	Replace pump.
	Plugged inlet.	Clean inlet.
Pump runs continuously.	Defective switch.	Replace switch.
	Float obstruction.	Adjust position of pump.
	Plugged check valve.	Remove valve, clean or replace.

CAUTION

A plugged pump inlet can be mistaken for a faulty switch. If the pump runs continuously or for extended periods of time between turn offs, first check for a partially plugged inlet.

RL-S - CAST IRON SURFACE EFFLUENT PUMP & RL-50 - SELF-PRIMING MULTI-PURPOSE TRANSFER PUMP

- a. Pump fails to prime or primes slowly:
 - 1. Leaks in suction line.
 - 2. Loose gasket connection due to shrinkage of the gasket.
 - 3. Collapsed or clogged suction line.
 - 4. Not enough water in the casing for priming.
 - 5. Suction lift is too great.

- b. Reduced pressure or capacity:
 - 1. Partially collapsed or clogged suction line.
 - 2. Clogged impeller.
 - 3. Leaks in the suction line.
 - 4. Strainer or end suction hose is not properly submerged.
 - 5. Suction line is improperly installed, resulting in air pockets in the suction line.
 - 6. Suction lift is too great (the greater the suction lift, the lower the capacity and pressure).
 - 7. Worn parts, such as the impeller or the pump casing.

RJSE - CAST IRON SPRINKLER UTILITY PUMP

- a. Motor will not start:
 - 1. No power to pressure switch due to blown fuses, open switches or loose connections.
 - 2. Pump pressure switch not closed.
- b. Pump fails to deliver water:
 - 1. Pump not completely primed.
 - 2. Suction lift is too great.
 - 3. Foot valve is either not submerged, buried in mud or plugged.
 - 4. Convertible jet only; restrictor valve is fully closed.
- c. Pump loses prime:
 - 1. Air leaks in suction line.
 - 2. Well drawn down too far.
 - 3. Faulty foot valve.

- d. Pump delivers water but not at rated capacity:
 - 1. Leaks in suction or discharge line.
 - 2. Foot valve, suction line, impeller or nozzle are partially plugged.
 - 3. Suction lift is greater than recommended.
 - 4. Improper impeller rotation or low speed.
 - 5. Venturi or diffuser is plugged.
 - 6. Motor is wired for improper voltage.
 - 7. Motor does not come off starting windings (improper motor switch adjustment).

RLSP/RLHE SPRINKLER PUMPS

Trouble	Possible Cause	Corrective Action
	Pump not properly primed.	Make sure pump casing and suction line are full of water. See priming instructions.
Failure to pump.	Speed too low.	Employ a certified electrician to check voltage at motor terminals and at meter when pump is operating. If low, refer to wiring instructions or check with your power company. Check loose connections. WARNING! All wiring, electrical connections, and system grounding must comply with the National Electrical Code (NEC) and with any local codes and ordinances.
	Total head is greater than what pump can handle.	Reduce total head or use a higher head pump.
	Suction lift is too great.	Locate pump closer to source of water. Make sure suction piping is large enough.
	Air pockets or leaks in suction line.	Check suction piping.
	Clogged impeller.	Remove impeller and clean.
	Strainer is too small or clogged.	Use larger strainer or clean.
Capacity and/or head	Insufficient submergence of suction line.	Add lengths of suction pipe to keep submerged end well below the water surface, or move the pump closer to source of liquid.
is reduced.	Excessive suction lift.	If caused by suction pipe friction, enlarge piping. Otherwise, move pump closer to water level.
	Total head is greater than what pump can handle.	Reduce total head or use a higher head pump.
	Excessively worn impeller.	Replace impeller.
	Air leaks in suction line.	Check suction piping.
Pump loses prime.	Excessive lift and operating too near shut-off point.	Move pump nearer water level.
	Water level drops while pumping, uncovering suction piping.	Check water supply. Add length of pipe to suction to keep submerged end under water, or move the pump closer to source of liquid.
Mechanical troubles	Bent shaft and/or damaged bearings.	Take motor to authorized motor repair shop.
and noise.	Suction and/or discharge piping not properly supported and anchored.	See that all piping is supported to relieve strain on pump assembly.

RLAG & RLGF - ENGINE DRIVEN TRANSFER PUMPS

Trouble	Possible Cause	Corrective Action
	Air leak in suction line.	Make sure suction hose is double clamped at joints, clamps are tight, fittings have thread compound and are tight, with no nicks or cuts in hose.
Pump will not pump.	The suction and/or discharge line(s) may be blocked, or the valve(s) are closed, faulty and/or blocked.	Check to see that the lines and valves are in good working order.
	The end of the suction line is not submerged.	Increase its length, or move pump closer to source of liquid.
	Total head is greater than what pump can handle.	Reduce total head or use a higher head pump.
Pump will not prime.	Excessive suction lift (*1)	Move the pump closer to liquid source.
Driming takes a long time	Suction line is quite long.	See priming instructions in owner's manual.
Priming takes a long time.	Air pockets or leaks in the suction line.	Check the line for loose connections.
	Flow is restricted due to: a. Debris build-up. b. Faulty or semi-open valve(s). c. Pipe or hose used is smaller than the thread sizes on the pump.	a. Clean the lines and fittings.b. Check to see that the valves are in good working order.c. Increase the size of hose or pipe to reduce friction losses.
Pump does not perform	Insufficient submergence of the end of the suction line.	Add lengths of suction pipe to keep submerged end well below the water surface, or move the pump closer to source of liquid.
as well as it should.	Excessively worn impeller (*2).	Replace impeller.
	Seal is damaged (*3). Liquid will be leaking through the middle of the adapter.	Replace the seal.
	Air pockets or leaks in the suction line.	Check the line for loose connections.
	Clogged impeller.	Remove casing to clean out.
	Engine throttle is in SLOW position.	Move throttle to FAST position.
Pump loses prime.	Water level drops while pumping, uncovering suction piping.	Check water supply. Add length of pipe to suction to keep submerged end under water, or move the pump closer to source of liquid.
	No fuel.	Allow engine to cool for 2 minutes, then fill fuel tank.
	Faulty spark plug.	Replace spark plug.
Pump will not start.	Fuel valve lever is in the OFF position.	Turn the fuel valve lever to the ON position.
	Ignition switch is in the OFF position.	Turn the ignition switch to the ON position.
	Choke is in the wrong position.	Slide choke lever to the RUN position.
	Choke is in the wrong position.	Slide choke lever to the RUN position.
D de de de de	Spark plug wire is loose.	Attach wire to spark plug secure.
Pump starts, but runs roughly.	Faulty spark plug.	Replace spark plug.
Tano roaginj.	Fuel is contaminated (water, debris, etc.).	Allow engine to cool for 2 minutes, then drain fuel tank and carburetor. Fill tank with fresh fuel.
Pump shuts down during operation.	No fuel.	Allow engine to cool for 2 minutes, then fill fuel tank.

- *1. Pump fails to prime or primes slowly:
 - a. Size and length of pipe.
 - b. Pipe fitting.
 - c. Elevation above sea level.

Including all of the above, we recommend that the total suction head not exceed 25 ft. $\,$

*2. An excessively worn impeller is mainly caused by a number of situations, such as:

- Restricted suction.
- b. Excessive suction lift.
- *3. The seal may be damaged due to:
 - a. Normal wear.
 - b. Overheating.
- c. Pumping chemicals that this seal is not designed for Contact an authorized service depot for further assistance.

RLCGF - END SUCTION CENTRIFUGAL PUMPS

Trouble	Possible Cause	Corrective Action
	Air leak in suction line.	Make sure suction hose is double clamped at joints, clamps are tight, fittings have thread compound and are tight, with no nicks or cuts in hose.
Pump will not pump.	The suction and/or discharge line(s) may be blocked, or the valve(s) are closed, faulty and/or blocked.	Check to see that the lines and valves are in good working order.
	The end of the suction line is not submerged.	Increase its length, or move pump closer to source of liquid.
	Total head is greater than what pump can handle.	Reduce total head or use a higher head pump.
	Excessive suction lift (*1)	Move the pump closer to liquid source.
Pump will not prime.	No foot valve is being used.	Add a foot valve to the suction line.
	Engine speed is too low.	Increase RPM
	Suction line is quite long.	See priming instructions in owner's manual.
Priming takes a long time.	Air pockets or leaks in the suction line.	Check the line for loose connections.
	No foot valve is being used.	Add a foot valve to the suction line.
	Flow is restricted due to: a. Debris build-up. b. Faulty or semi-open valve(s). c. Pipe or hose used is smaller than the thread sizes on the pump.	a. Clean the lines and fittings.b. Check to see that the valves are in good working order.c. Increase the size of hose or pipe to reduce friction losses.
Pump does not perform	Insufficient submergence of the end of the suction line.	Add lengths of suction pipe to keep submerged end well below the water surface, or move the pump closer to source of liquid.
as well as it should.	Excessively worn impeller (*2).	Replace impeller.
	Seal is damaged (*3). Liquid will be leaking through the middle of the adapter.	Replace the seal.
	Air pockets or leaks in the suction line.	Check the line for loose connections.
	Clogged impeller.	Remove casing to clean out.
	Engine throttle is in SLOW position.	Move throttle to FAST position.
Pump loses prime.	Water level drops while pumping, uncovering suction piping.	Check water supply. Add length of pipe to suction to keep submerged end under water, or move the pump closer to source of liquid.
r ump ioses prime.	Foot valve is leaking – not holding water in the suction line.	Replace foot valve.
	No fuel.	Allow engine to cool for 2 minutes, then fill fuel tank.
	Faulty spark plug.	Replace spark plug.
Pump will not start.	Fuel valve lever is in the OFF position.	Turn the fuel valve lever to the ON position.
	Ignition switch is in the OFF position.	Turn the ignition switch to the ON position.
	Choke is in the wrong position.	Slide choke lever to the RUN position.
Dump starte but	Choke is in the wrong position.	Slide choke lever to the RUN position.
	Spark plug wire is loose.	Attach wire to spark plug, secure.
Pump starts, but runs roughly.	Faulty spark plug.	Replace spark plug.
	Fuel is contaminated (water, debris, etc.).	Allow engine to cool for 2 minutes, then drain fuel tank and carburetor. Fill tank with fresh fuel.
Pump shuts down during operation.	No fuel.	Allow engine to cool for 2 minutes, then fill fuel tank.

GLOSSARY OF TERMS

Air volume control

Designed to maintain the air charge in a standard water storage tank. Pre-charged tanks do not require an air volume control.

Atmospheric pressure

A force exerted upon the earth's surface by the weight of air extending to a height of 25 miles above the earth. At sea level 14.7 pounds per square inch.

Barb fitting

A part of a fitting that a hose slides over which contains ridges, which help lock the hose to the fitting. The hose is then secured with a clamp.

Rasin

A container connected to a sink, toilet, washer or dishwasher that is used to collect refuse that comes from these appliances. Once collected, the waste is pumped from the basin to a septic tank, holding tank, leaching field, or septic field. See Minimum Basin Diameter for additional information.

Black water

Also known as sewage or wastewater. Water containing semi-solids up to 2 inches in diameter.

Centrifugal force

The force created by a spinning or rotating impeller resulting in the movement of water outward from the center point. A pump uses an impeller to create centrifugal force.

Check valve

Allows water to move in only one direction which prevents water from returning to its source.

Control box

Installs above ground. Contains electrical starting components for 3-wire submersible deep well pumps. 2-wire submersible deep well pumps do not use a control box.

Convertible jet pump

For both deep wells (where pumping water levels are as far as 90 feet below the pump) and shallow wells (where pumping water levels are no more than 25 feet below the pump). Pump/tank packages are also available.

Cut-in pressure setting

The point at which the pressure switch turns the pump on.

Deep wel

Well with a depth to water greater than 25 feet.

Deep well pump (submersible)

For use on wells where pump water levels are up to 400 feet below point of use. Pump is submerged underwater in the well.

Depth to water

The vertical measurement from pump level down to water level of water source. Pump height above water.

Discharge

The opening by which water is removed by the pump.

Discharge pressure

The amount of force or pressure of the water being discharged from the pump.

Dual voltage motor

Pump motor can then be operated on 115 Volts or 230 Volts.

Effluent

Water containing semi-solids up to ½ in diameter generated from activities such as dishwashing, bathing, laundry, etc.) Also known as gray water.

FNPT

Female National Pipe Thread – a U.S. standard for tapered threads used on threaded pipes and fittings. (The female end is larger than the male end).

Foot valve

Installs on the end of the pump suction pipe to prevent water from draining back to source. Includes strainer to minimize suction of debris into the pump.

Friction loss

A loss in pressure caused by friction when liquid moves through a pipe.

GLOSSARY OF TERMS

GHT

Garden Hose Thread (3/4").

GPH

Gallons per hour.

GPM

Gallons per minute.

Gray water

Also known as effluent. Water containing semi-solids up to ½" in diameter generated from activities such as dishwashing, bathing, laundry, etc.

Head

The vertical distance from:

the top of the well to the pressure tank

- + the top of the well to the static water level
- + the drawdown (static water level to the pumping water level)
- + the vertical distance from the well to the house

HP

Horsepower (power of motor)

Intake

The opening by which water is sucked into the pump.

Jet pump

A centrifugal pump which requires a jet to help build additional water pressure.

Minimum basin diameter

Minimum basin diameter refers to the inside diameter of the opening at the top of a basin not including the lip. It is a guideline based on average basin sizes in the industry. Minimum clearance dimensions are not provided because most basins are tapered at the bottom and it can be difficult to measure this accurately. Place the pump so the switch can move freely without touching the basin (the pump edge should be up against the side of the basin). Always test the pump to make sure the switch clears the side wall of the basin. If you have a narrow pit or basin less than 18" in diameter, a pump with a vertical or snap-action float switch is recommended.

MNPT

Male National Pipe Thread – a U.S. standard for tapered threads used on threaded pipes and fittings. (The male end is smaller than the female end).

Multi-stage jet pump

For use on deep wells only with pumping water levels as far as 210 feet below the pump.

NPT

National Pipe Thread – a U.S. standard for tapered threads used on threaded pipes and fittings.

PSI

Pounds per square inch. A volumetric pressure measurement.

Pre-charged tank

A water storage tank pre-charged with air at the factory featuring a vinyl bag to separate water from the air which prevents waterlogging. This tank design provides greater drawdown than standard tanks. Pre-charged tanks do not require an air volume control.

Pressure

A force usually expressed in pounds per square inch.

Pressure switch

The switch that automatically turns the pump on and off at specified pressures of 30/50 psi and 40/60 psi. **IMPORTANT:** always replace an old switch with a new switch with the same pressure settings.

Pressure operation - 30/50

Pressure switch turns pump on at 30 psi and off at 50 psi.

Pressure operation - 40/60

Pressure switch turns pump on at 40 psi and off at 60 psi.

GLOSSARY OF TERMS

Priming the pump

The initial filling of a jet or centrifugal pump with water so that air can be removed.

Pump capacity

The amount of water a pump is capable of moving at a given pressure.

Pumping water level

The distance below ground where the water is found when the well is being pumped at its rated capacity. Static Water Level + Drawdown = Pumping Water Level.

Safety relief valve

Required for all submersible pump and pressure boosting installations to prevent over-pressurization of water storage tank and system piping that could develop from pressure switch malfunction.

Sewage

Water containing semi-solids up to 2" in diameter. Also known as black water.

Shallow well

Well with a depth of water of 25' or less.

Shallow well pump

For use in wells where pump water levels are no more than 25' below the pump. Features a built-in jet.

Sizing

Properly matching product to application for best performance.

Standard tank

A pressurized water storage tank where air comes in contact with water. Requires air volume control for proper operation.

Static water level

The distance below ground where water is found when no pumping occurs.

Submersible deep well pump

For use on wells where pump water levels are up to 400 feet below point of use. Pump is submerged underwater in the well.

Suction lift

The vertical height from the pumping water level to the suction part of the pump.

Tank

Stores air and water under pressure to provide for automatic pump operation and a source of water when pump is not running.

TEFC design

Totally enclosed, fan cooled design.

Waterlogging

The absorption of air into water stored in a water storage tank which greatly reduces the amount of usable water drawdown available from the tank.

Water storage tank

Stores air and water under pressure to provide for automatic pump operation and a source of water when pump is not running.

Well capacity

Also known as the well's replenishment rate or well recovery rate. It is the rate at which the well refills with water – measured in gpm. This information is found on the Well Driller's Report.

Well recovery rate or well replenishment rate

Also known as the well's replenishment rate or well capacity. It is the rate at which the well refills with water – measured in gpm. This information is found on the Well Driller's Report.

TECHNICAL DATA

FRICTION LOSS CHART

Nom. Pipe Size		3/4"			1"			1-1/4"			1-1/2"			2"	
Material	Steel	Copper	Plastic												
I. D. / US GPM	0.824	0.822	0.824	1.049	1.062	1.049	1.38	1.368	1.38	1.61	1.6	1.61	2.067	2.062	2.067
1															
2	1.93	1.21	1.04	0.6	0.35	0.32									
2.5	2.91	1.82	1.57	0.92	0.55	0.48									
3	4.08	2.56	2.21	1.26	0.73	0.68									
3.5	5.42	3.4	2.93	1.7	1	0.9									
4	6.94	4.36	3.74	2.14	1.24	1.15	0.56	0.36	0.3	0.27	0.17	0.14			
4.5	8.63	5.4	4.66	2.68	1.58	1.45	0.69	0.42	0.39	0.34	0.21	0.18			
5	10.5	6.57	5.66	3.42	1.88	1.75	0.85	0.55	0.46	0.41	0.25	0.22			
5.5	12.4	7.79	6.75	3.9	2.3	2.1	1	0.62	0.53	0.49	0.3	0.26			
6	14.7	9.22	7.95	4.54	2.63	2.45	1.2	0.77	0.65	0.57	0.36	0.31			
6.5	17	10.7	9.25	5.3	3.12	2.84	1.38	0.88	0.72	0.66	0.42	0.36			
7	19.6	12.2	10.6	6.08	3.58	3.25	1.59	1.02	0.86	0.76	0.48	0.41			
7.5	22.3	13.9	12	6.92	4.03	3.68	1.82	1.16	0.98	0.86	0.54	0.46			
8	25	15.7	13.5	7.73	4.5	4.16	2.04	1.31	1.1	0.96	0.61	0.52			
8.5	27.9	17.6	15.1	8.76	5.08	4.62	2.3	1.47	1.21	1.07	0.68	0.58			
9	31.1	19.5	16.8	9.72	5.6	5.17	2.55	1.62	1.35	1.19	0.75	0.65			
9.5	34.5	21.6	18.6	10.7	6.18	5.72	2.82	1.79	1.5	1.32	0.83	0.72			
10	37.8	23.7	20.4	11.7	6.77	6.31	3.08	1.98	1.67	1.45	0.92	0.79	0.43	0.27	0.23
11	45.1	28.2	24.4	14.1	8.08	7.58	3.7	2.32	1.98	1.74	1.1	0.95	0.51	0.32	0.27
12	53	33.2	28.6	16.4	9.47	8.85	4.31	2.75	2.33	2.04	1.29	1.1	0.6	0.37	0.32
13	61.5	38.5	33.2	18.9	11	10.3	5.01	3.18	2.71	2.37	1.49	1.28	0.7	0.43	0.37
14	70.5	44.2	38	21.8	12.6	11.8	5.73	3.64	3.1	2.71	1.71	1.46	0.8	0.49	0.43
16	90.2	56.6	48.6	27.9	16.2	15.1	7.34	4.68	3.96	3.47	2.2	1.87	1.03	0.63	0.55
18	112	70.4	60.5	34.7	20.1	18.7	9.13	5.81	4.93	4.31	2.75	2.33	1.28	0.78	0.69
20	136	83.5	73.5	42.1	24.4	22.8	11.1	7.1	6	5.24	3.31	2.83	1.55	0.96	0.84
25				63.9	36.9	34.6	16.8	10.7	9.06	7.9	5	4.26	2.35	1.45	1.27
30				89.2	51.6	48.1	23.5	15	12.7	11.1	7	6	3.29	2.03	1.78
35				119	68.7	64.3	31.2	20	16.9	14.7	9.35	7.94	4.37	2.71	2.36
40				152	88	82	40	25.6	21.6	18.9	12	10.2	5.6	3.47	3.03
45				189	109	102	49.4	31.9	27	23.4	14.9	12.6	6.96	4.31	3.76
50							60.4	38.7	32.6	28.5	18.1	15.4	8.46	5.24	4.57
55							71.9	46.5	39.1	34	21.5	18.4	10.1	6.22	5.46
60							84.7	54.1	45.6	40	25.3	21.6	11.9	7.34	6.44
65							99.1	63	53.4	46.4	29	25.1	13.8	8.5	7.42
70							114	72.2	61.5	53.2	33.8	28.7	15.8	9.78	8.53
75							129	82.1	69.4	60.4	38	32.6	17.9	11.1	9.68
80							144	92.4	77.9	68.1	43.1	36.8	20.2	12.5	10.9
85							161	104	87	76.2	47.6	41.2	22.5	14	12.2
90							179	115	96.6	84.7	53.6	45.7	25.1	15.6	13.6
95										93.6	58.8	50.5	27.8	17.2	15

Loss of head in feet due to friction per 100 feet of pipe. (Based on C=100 for steel, C=130 for copper, and C=140 for plastic)

CABLE SELECTON GUIDE FOR DEEP WELL SUBMERSIBLES

Canadian

Cable selection based on a 3% voltage drop, two- or three-wire cable, 60 Hz.

Moto	r	(AWG) Copper Wire Size					
HP	Volts	14	12	10			
1/0	115	60	95	150			
1/2	230	240	390	610			
3/4	230	180	285	455			
1	230	150	240	375			
1-1/2	230	115	185	285			

U.S.A.

Cable selection based on a 5% voltage drop, two- or three-wire cable, 60 Hz.

Moto	r	(AWG) Copper Wire Size					
HP	Volts	14	12	10			
1/2	115	100	160	250			
1/2	230	400	650	1020			
3/4	230	300	480	760			
1	230	250	400	630			
1-1/2	230	190	310	480			

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All accessories are listed on page 67.

Item Number	Model	Description	Page Number
14942003	MPDP	Drill powered transfer pump	53
14942004	MPFV12	12 V DC, 300 gph multi-purpose transfer pump	50
14942006	MPTC	1250 gph - Multi-purpose transfer pump	51
14942015	MPFVK115	115 V, 356 gph Multi-purpose transfer pump	50
14942050	SP33PED	1/3 hp, 3300 gph Thermoplastic pedestal sump pump	29
14942051	SC33PED	1/3 hp, 3500 gph Cast iron pedestal sump pump	29
14942401	RL12G05-2W1V	1/2 hp, 12 gpm, 2-wire, 115 V, 4" Deep well submersible pump	12
14942402	RL12G05-2W2V	1/2 hp, 12 gpm, 2-wire 230 V, 4" Deep well submersible pump	12
14942403	RL12G07-2W2V	3/4 hp, 12 gpm, 2-wire, 230 V, 4" Deep well submersible pump	12
14942404	RL12G10-2W2V	1 hp, 12 gpm, 2-wire, 230 V, 4" Deep well submersible pump	12
14942405	RL12G05-3W2V	1/2 hp, 12 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
14942406	RL12G07-3W2V	3/4 hp, 12 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
14942407	RL12G10-3W2V	1 hp, 12 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
14942408	RL12G15-3W2V	1.5 hp, 12 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
14942409	RL22G10-3W2V	1.0 hp, 22 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
14942410	RL12G05-2W2V-SP	1/2 hp, 12 gpm, 2-wire 230 V, Deep well sub pak (US order no.)	12
14942411	RL12G07-2W2V-SP	3/4 hp, 12 gpm, 2-wire 230 V, Deep well sub pak (US order no.)	12
14942412	RL12G05-2W1V-SP	1/2 hp, 12 gpm, 2-wire 115 V, Deep well sub pak (CAN order number)	12
14942413	RL12G05-2W2V-SP	1/2 hp, 12 gpm, 2-wire 230 V, Deep well sub pak (CAN order number)	12
14942414	RL12G07-2W2V-SP	3/4 hp, 12 gpm, 2-wire 230 V, Deep well sub pak (CAN order number)	12
14942600	C15	68 gph Condensate removal pump - 15' lift	53
14942601	C20ST	82 gph Condensate removal pump kit - 20' lift, w/ tubing	53
14942635	RL75WAM	3/4 hp, 10500 gph Premium cast iron sewage pump	41
14942652	RL-33SC	1/3 hp, 3200 gph Cast Iron sump/effluent pump	27 & 37
14942653	RL-50SC	1/2 hp, 4000 gph Cast Iron sump/effluent pump	27 & 37
14942721	RL-MP50	1/2 hp, 3000 gph Thermoplastic utility pump	46
14942722	RL50CON	1/2 hp, 3600 gph Heavy duty submersible utility pump	49
14942731	RL-MP16	1/6 hp, 1300 gph Thermoplastic utility pump	46
14942732	RL-MP25	1/4 hp, 2200 gph Thermoplastic utility pump	46
14942734	RL-250U	1/4 hp, 1500 gph Aluminum utility pump	47
14942735	RL-MP25A	1/4 hp, 2200 gph Automatic utility pump	48
14942736	RL-SPS33	1/3 hp, 3200 gph Under sink sump package w/ 6 gal. basin	30
14942739	RL-SP25T	1/4 hp, 2900 gph Thermoplastic sump pump w/ tethered float switch	24
14942740	RL-SP33T	1/3 hp, 3200 gph Thermoplastic sump pump w/ tethered float switch	24
14942741	RL-SP33V	1/3 hp, 3200 gph Thermoplastic sump pump w/ vertical float switch	24
14942742	RL-SP50T	1/2 hp, 3600 gph Thermoplastic sump pump w/ tethered float switch	24
14942743	RL-SP50V	1/2 hp, 3600 gph Thermoplastic sump pump - w/ vertical float switch	24
14942744	RL-SC33T	1/3 hp, 3350 gph Cast iron sump pump w/ tethered float switch - 1/2" semi-solids	25 & 36
14942745	RL-SC33V	1/3 hp, 3350 gph Cast iron sump pump w/ vertical float switch - 1/2" semi-solids	25 & 30
14942746	RL-SC50T	1/2 hp, 4300 gph Cast iron sump pump w/ tethered float switch - 1/2" semi-solids	25 & 36
14942747	RL-SC50V	1/2 hp, 4300 gph Cast iron sump pump w/ vertical float switch - 1/2" semi-solids	25
14942747	RL-WC50TA	1/2 hp, 5600 gph Cast iron sewage pump w/ tethered switch	40
14942749	RL-WCS50TA	1/2 hp, 5600 gph Cast iron sewage pump w/ tethered switch includes basin	43
14942771	RL-SC33DUP	1/3 hp, Dual cast iron sump pump system	26
		1/2 hp, 3450 gph, Premium stainless steel sump pump with vertical float switch	
14942780 14942781	RL-SS50V RL-SS50T	1/2 hp, 3450 gph, Premium stainless steel sump pump with vertical float switch	28 28 & 38
14942781	RL-SS100T	1 hp, 5300 gph, Premium stainless steel sump pump with tethered float switch	28 & 38
14942762	RL-SPBS		20 & 30
602014		Backup sump system 1/2 hp. 1/4 0 gal. Shallow well jet pump 8 tank system	11
602036	RJS-50/RL14H RJC-50	1/2 hp, 14.0 gal. Shallow well jet pump & tank system 1/2 hp convertible jet pump	9
			9
602037	RJC-75	3/4 hp convertible jet pump	9
602038	RJC-100	1 hp convertible jet pump	
602063	RJC-50/RL14H	1/2 hp, 14.0 gal. Convertible jet pump & tank system	11

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All accessories are listed on page 67.

	es are listed on pag		
Item Number	Model	Description	Page Number
602099	RJS-50/RL6H	1/2 hp, 5.3 gal. Shallow well jet pump & tank system	11
602102	RJC-50/RL6H	1/2 hp, 5.3 gal. Convertible jet pump & tank system	11
602206	RJS-50-PREM	1/2 hp shallow well jet pump	6
602207	RJS-75-PREM	3/4 hp Shallow well jet pump	6
602208	RJS-100-PREM	1 hp shallow well jet pump	6
604449	RL33	33.0 gal Vertical pre-charged pressure tank	10
604452	RL2	2.1 gal Inline pre-charged pressure tank	10
604453	RL4	4.8 gal Inline pre-charged pressure tank	10
604454	RL8	8.5 gal Inline pre-charged pressure tank	10
604456	RL14	14.0 gal Vertical pre-charged pressure tank	10
604457	RL20	20.0 gal Vertical pre-charged pressure tank	10
604459	RL44	44.0 gal Vertical pre-charged pressure tank	10
604493	RL14H	14.0 gal Horizontal pre-charged pressure tank	10
604529	RL6H	5.3 gal Horizontal pre-charged pressure tank	10
604531	RL119	119.0 gal Vertical pre-charged pressure tank	10
604541	RL81	81.0 gal Vertical pre-charged pressure tank	10
614430	RJSE-50	1/2 hp, 115 V Cast iron sprinkler utility pump	18
614432	RJSE-75SS	3/4 hp, 115 V Stainless steel sprinkler utility pump	19
614481	RLHE-300	3 hp Cast iron industrial sprinkler pump	21
614670	RLSP-75	3/4 hp Self-priming sprinkler pump	20
614671	RLSP-100	1 hp Self-priming sprinkler pump	20
614672	RLSP-150	1.5 hp Self-priming sprinkler pump	20
614673	RLSP-200	2.0 hp Self-priming sprinkler pump	20
614675	RLSP-150-BI	1.5 hp Self-priming sprinkler pump, brass impeller	20
614676	RLSP-200-BI	2.0 hp Self-priming sprinkler pump, brass impeller	20
617030	5RLAG-2LKIT	179cc OHV Engine drive, 2" Aluminum water transfer pump kit	59
617031	2RLAG-1L	79cc OHV Engine driven, 1.5" Aluminum water transfer pump	56
617032	5RLGF-8KRF	196cc OHV Engine driven, 2" Cast iron transfer pump	60
617033	5RLAG-2L	179cc OHV Engine drive, 2" Aluminum water transfer pump	58
617034	6RLAG-2LST	208cc OHV Engine driven, Aluminum semi-trash pump, 2" MNPT	63
617037	6RLAG-3LST	208cc OHV Engine driven, aluminum semi-trash pump, 3" MNPT	63
617038	6RLAG-3LTT	208cc OHV Engine driven, Aluminum trash pump, 3" NPT	65
617041	6RLAG-3HST	163cc Honda engine driven, Aluminum semi-trash pump, 2" MNPT	64
617053	4RLAG-2H	118cc Honda engine driven, 2" Aluminum water transfer pump	57
617070	6RLPG-2U	212cc OHV Engine driven, Thermoplastic ag chemical & transfer pump, 2" x 2" FNPT	61
617071	6RLPG-2K	196cc Kohler 3000 Series engine driven, Thermoplastic ag chemical & transfer pump, 2" x 2" FNPT	62
620040	RL31EA	1/3 hp, 6300 gph Heavy-duty cast iron effluent pump	39
620043	RL52SA	1/2 hp, 8100 gph Cast iron sewage pump w/ tethered switch	42
620051	RL52WAM	1/2 hp, 9000 gph Cast iron sewage pump w/ tethered switch	41
620109	RL-160U	1/6 hp, 1300 gph Aluminum utility pump	47
621804	RL-50	1/2 hp, 2700 gph Self-priming multi-purpose transfer pump	52
621810	RL-S50	1/2 hp, 2700 gph Cast Iron surface effluent pump	35
621826	RL-S75	3/4 hp, 3480 gph Cast Iron surface effluent pump	35
640188	RLCB05-115	Control box, 1/2 hp, 115 V	13
640189	RLCB05-230	Control box, 1/2 hp, 110 V	13
640190		Control box, 3/4 hp, 230 V	13
640191	RLCB07-230 RLCB10-230	Control box, 1 hp, 230 V	13
640222			
	RLCB15-230	Control box, 1.5 hp, 230 V	13 7
97080502	RL-SWJ50	1/2 hp Shallow well jet pump	
97080503	RL-SWJ50/RL6H	1/2 hp, 5.8 gal. Shallow well jet pump & tank system	11
97080701	RL-SWJ75	3/4 hp Shallow well jet pump	7
97080702	RJS-75SS	3/4 hp Stainless steel sprinkler utility pump	8
97081001	RL-SWJ100	1 hp Shallow well jet pump	7

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2RLAG-1L	617031	79cc OHV Engine driven, 1.5" Aluminum water transfer pump	56
4RLAG-2H	617053	118cc Honda engine driven, 2" Aluminum water transfer pump	57
5RLAG-2L	617033	179cc OHV Engine drive, 2" Aluminum water transfer pump	58
5RLAG-2LKIT	617030	179cc OHV Engine drive, 2" Aluminum water transfer pump kit	59
5RLGF-8KRF	617032	196cc OHV Engine driven, 2" Cast iron transfer pump	60
6RLAG-2LST	617034	208cc OHV Engine driven, Aluminum semi-trash pump, 2" MNPT	63
6RLAG-3HST	617041	163cc Honda engine driven, Aluminum semi-trash pump, 2" MNPT	64
6RLAG-3LTT	617038	208cc OHV Engine driven, Aluminum trash pump, 3" NPT	65
6RLAG-3LST	617037	208cc OHV Engine driven, aluminum semi-trash pump, 3" MNPT	63
6RLPG-2K	617071	196cc Kohler 3000 Series engine driven, Thermoplastic ag chemical & transfer pump, 2" x 2" FNPT	62
6RLPG-2U	617070	212cc OHV Engine driven, Thermoplastic ag chemical & transfer pump, 2" x 2" FNPT	61
C15	14942600	68 gph Condensate removal pump - 15' lift	53
C20ST	14942601	82 gph Condensate removal pump kit - 20' lift, w/ tubing	53
MPDP	14942003	Drill powered transfer pump	53
MPFV12	14942004	12 V DC, 300 gph multi-purpose transfer pump	50
MPFVK115	14942015	115 V, 356 gph Multi-purpose transfer pump	50
MPTC	14942006	1250 gph - Multi-purpose transfer pump	51
RJC-100	602038	1 hp convertible jet pump	9
RJC-50	602036	1/2 hp convertible jet pump	9
RJC-50/RL14H	602063	1/2 hp, 14.0 gal. Convertible jet pump & tank system	11
RJC-50/RL6H	602102		11
RJC-75	602037	1/2 hp, 5.3 gal. Convertible jet pump & tank system	9
	602037	3/4 hp convertible jet pump	
RJS-100-PREM		1 hp shallow well jet pump	6
RJS-50-PREM	602206	1/2 hp shallow well jet pump	6
RJS-50/RL14H	602014	1/2 hp, 14.0 gal. Shallow well jet pump & tank system	11
RJS-50/RL6H	602099	1/2 hp, 5.3 gal. Shallow well jet pump & tank system	11
RJS-75-PREM	602207	3/4 hp Shallow well jet pump	6
RJS-75SS	97080702	3/4 hp Stainless steel sprinkler utility pump	8
RJSE-50	614430	1/2 hp, 115 V Cast iron sprinkler utility pump	18
RJSE-75SS	614432	3/4 hp, 115 V Stainless steel sprinkler utility pump	19
RL-160U	620109	1/6 hp, 1300 gph Aluminum utility pump	47
RL-250U	14942734	1/4 hp, 1500 gph Aluminum utility pump	47
RL-33SC	14942652	1/3 hp, 3200 gph Cast Iron sump/effluent pump	27 & 37
RL-50	621804	1/2 hp, 2700 gph Self-priming multi-purpose transfer pump	52
RL-50SC	14942653	1/2 hp, 4000 gph Cast Iron sump/effluent pump	27 & 37
RL-MP16	14942731	1/6 hp, 1300 gph Thermoplastic utility pump	46
RL-MP25	14942732	1/4 hp, 2200 gph Thermoplastic utility pump	46
RL-MP25A	14942735	1/4 hp, 2200 gph Automatic utility pump	48
RL-MP50	14942721	1/2 hp, 3000 gph Thermoplastic utility pump	46
RL-S50	621810	1/2 hp, 2700 gph Cast Iron surface effluent pump	35
RL-S75	621826	3/4 hp, 3480 gph Cast Iron surface effluent pump	35
RL-SC33DUP	14942771	1/3 hp, Dual cast iron sump pump system	26
RL-SC33T	14942744	1/3 hp, 3350 gph Cast iron sump pump w/ tethered float switch - 1/2" semi-solids	25 & 36
RL-SC33V	14942745	1/3 hp, 3350 gph Cast iron sump pump w/ vertical float switch - 1/2" semi-solids	25
RL-SC50T	14942746	1/2 hp, 4300 gph Cast iron sump pump w/ tethered float switch - 1/2" semi-solids	25 & 36
RL-SC50V	14942747	1/2 hp, 4300 gph Cast iron sump pump w/ vertical float switch - 1/2" semi-solids	25
RL-SP25T	14942739	1/4 hp, 2900 gph Thermoplastic sump pump w/ tethered float switch	24
RL-SP33T	14942740	1/3 hp, 3200 gph Thermoplastic sump pump w/ tethered float switch	24
RL-SP33V	14942741	1/3 hp, 3200 gph Thermoplastic sump pump w/ vertical float switch	24
RL-SP50T	14942742	1/2 hp, 3600 gph Thermoplastic sump pump w/ tethered float switch	24
RL-SP50V	14942743	1/2 hp, 3600 gph Thermoplastic sump pump - w/ vertical float switch	24
RL-SPBS	14942790	Backup sump system	31
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Model	Item Number	Description	Page Number
RL-SS100T	14942782	1 hp, 5300 gph, Premium stainless steel sump pump with tethered float switch	28 & 38
RL-SS50T	14942781	1/2 hp, 3450 gph, Premium stainless steel sump pump with tethered float switch	28 & 38
RL-SS50V	14942780	1/2 hp, 3450 gph, Premium stainless steel sump pump with vertical float switch	28
RL-SWJ100	97081001	1 hp Shallow well jet pump	7
RL-SWJ50	97080502	1/2 hp Shallow well jet pump	7
RL-SWJ50/RL6H	97080503	1/2 hp, 5.8 gal. Shallow well jet pump & tank system	11
RL-SWJ75	97080701	3/4 hp Shallow well jet pump	7
RL-WC50TA	14942748	1/2 hp, 5600 gph Cast iron sewage pump w/ tethered switch	40
RL-WCS50TA	14942749	1/2 hp, 5600 gph Cast iron sewage pump w/ tethered switch includes basin	43
RL119	604531	119.0 gal Vertical pre-charged pressure tank	10
RL12G05-2W1V	14942401	1/2 hp, 12 gpm, 2-wire, 115 V, 4" Deep well submersible pump	12
RL12G05-2W1V-SP	14942412	1/2 hp, 12 gpm, 2-wire 115 V, Deep well sub pak (CAN order number)	12
RL12G05-2W2V	14942402	1/2 hp, 12 gpm, 2-wire 230 V, 4" Deep well submersible pump	12
RL12G05-2W2V-SP	14942410	1/2 hp, 12 gpm, 2-wire 230 V, Deep well sub pak (US order no.)	12
RL12G05-2W2V-SP	14942413	1/2 hp, 12 gpm, 2-wire 230 V, Deep well sub pak (CAN order number)	12
RL12G05-3W2V	14942405	1/2 hp, 12 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
RL12G07-2W2V	14942403	3/4 hp, 12 gpm, 2-wire, 230 V, 4" Deep well submersible pump	12
RL12G07-2W2V-SP	14942411	3/4 hp, 12 gpm, 2-wire 230 V, Deep well sub pak (US order no.)	12
RL12G07-2W2V-SP	14942414	3/4 hp, 12 gpm, 2-wire 230 V, Deep well sub pak (CAN order number)	12
RL12G07-3W2V	14942406	3/4 hp, 12 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
RL12G10-2W2V	14942404	1 hp, 12 gpm, 2-wire, 230 V, 4" Deep well submersible pump	12
RL12G10-3W2V	14942407	1 hp, 12 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
RL12G15-3W2V	14942408	1.5 hp, 12 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
RL14	604456	14.0 gal Vertical pre-charged pressure tank	10
RL14H	604493	14.0 gal Horizontal pre-charged pressure tank	10
RL2	604452	2.1 gal Inline pre-charged pressure tank	10
RL20	604457	20.0 gal Vertical pre-charged pressure tank	10
RL22G10-3W2V	14942409	1.0 hp, 22 gpm, 3-wire, 230 V, 4" Deep well submersible pump	12
RL31EA	620040	1/3 hp, 6300 gph Heavy-duty cast iron effluent pump	39
RL33	604449	33.0 gal Vertical pre-charged pressure tank	10
RL4	604453	4.8 gal Inline pre-charged pressure tank	10
RL44			10
	604459	44.0 gal Vertical pre-charged pressure tank	
RL50CON	14942722	1/2 hp, 3600 gph Heavy duty submersible utility pump	49
RL52SA	620043	1/2 hp, 8100 gph Cast iron sewage pump w/ tethered switch	42
RL52WAM	620051	1/2 hp, 9000 gph Cast iron sewage pump w/ tethered switch	41
RL6H	604529	5.3 gal Horizontal pre-charged pressure tank	10
RL75WAM	14942635	3/4 hp, 10500 gph Premium cast iron sewage pump	41
RL8	604454	8.5 gal Inline pre-charged pressure tank	10
RL81	604541	81.0 gal Vertical pre-charged pressure tank	10
RLCB05-115	640188	Control box, 1/2 hp, 115 V	13
RLCB05-230	640189	Control box, 1/2 hp, 230 V	13
RLCB07-230	640190	Control box, 3/4 hp, 230 V	13
RLCB10-230	640191	Control box, 1 hp, 230 V	13
RLCB15-230	640222	Control box, 1.5 hp, 230 V	13
RLHE-300	614481	3 hp Cast iron industrial sprinkler pump	21
RLSP-100	614671	1 hp Self-priming sprinkler pump	20
RLSP-150	614672	1.5 hp Self-priming sprinkler pump	20
RLSP-150-BI	614675	1.5 hp Self-priming sprinkler pump, brass impeller	20
RLSP-200	614673	2.0 hp Self-priming sprinkler pump	20
RLSP-200-BI	614676	2.0 hp Self-priming sprinkler pump, brass impeller	20
RLSP-75	614670	3/4 hp Self-priming sprinkler pump	20
SC33PED	14942051	1/3 hp, 3500 gph Cast iron pedestal sump pump	29
SP33PED	14942050	1/3 hp, 3300 gph Thermoplastic pedestal sump pump	29

