



RED LION®

CLEANWATER PRODUCTS





Since 1935, Red Lion has delivered quality pumping products that help our customers move water reliably, even in the toughest conditions. Backed by a global company with expertise in the development of industry-leading water systems, our promise is to be there for our customers with pumping solutions and technical support that help them own, install and operate our equipment with confidence.

Why Choose a Red Lion Cleanwater Pump?

When you need to pump water from a well to a home, Red Lion gets the job done. We test all pump components for drinking water safety, durability and reliability. Every pump also includes a pressure switch that turns the pump off or on as needed, for performance you can count on.

How do pressure switches work?

When the pressure in a well falls below 30 psi, the pump will start. When the pressure reaches 50 psi, the pump will stop. This helps assure you have the water you need while optimizing the performance of the pump.

Pump Options

Red Lion offers three types of well pumps: shallow well jet pumps, convertible jet pumps and 4" submersible pumps. All pumps are designed for new or replacement installations.

Shallow Well Jet Pumps

Shallow well jet pumps are designed for wells with a pumping depth less than 25' (figure A). They are available in cast iron or stainless-steel construction. Stainless steel pumps should be used in applications with harsh water conditions.

Convertible Jet Pumps

Convertible jet pumps can be used in either shallow or deep wells up to 90'. They are ideal in areas with a fluctuating water table.

4" Submersible Pumps

4" submersible pumps can be used in either shallow or deep wells, including wells greater than 90' deep. Their quiet operation makes them ideal for areas near homes or where noise can be a concern.

Selecting The Right Pump For Your Application

For new installations, determine the well’s depth to the water. Attach a small, floatable device to the end of a string. Lower the string into the well until the device floats. Mark the string at ground level, remove from the well, and measure the length. Based on your well’s depth to water, choose from one of these three options:

25 ft or less	Shallow well jet pump (figure A) or Convertible jet pump set up for shallow well (figure B) Submersible well pump (figure D)
25 ft to 90 ft	Convertible jet pump set up for deep well (figure C) Submersible well pump (figure D)
25 ft to 400 ft	Submersible well pump (figure D)

Pumps Replacement

For replacement installations, determine the type of pump you’re currently using:

- Submersible well pumps are located inside the well. These can be used for both deep well and shallow well applications.
- Shallow well jet pumps and convertible jet pumps are installed in a dry area outside of the well such as in a basement or a pump house. Shallow well jet pumps use one suction pipe (figure A or B) while convertible jet pumps use two suction pipes (figure C).



Should You Choose a 2-Wire or 3-Wire Submersible Pump?

Submersible pumps (figure D) are available in either 2-wire or 3-wire models (not including the ground wire). A 2-wire pump will be wired directly into the power source. A 3-wire pump will need to be wired into a control box; the control box then gets wired into the power source. A 2-wire pump is easier to install, but the pump's electronics are located inside the pump. If these electronics fail, the pump will need to be replaced. Since a 3-wire pump uses an external control box, electronic issues can be remedied quickly by replacing the control box or control box components. If the control box is faulty, the pump doesn't have to be pulled from the well. All Red Lion 1 HP and smaller 3-wire submersible pumps include a control box.

What Size Pump Do You Need?

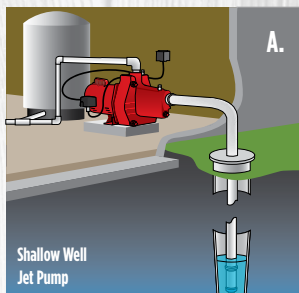
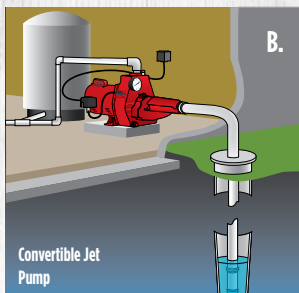
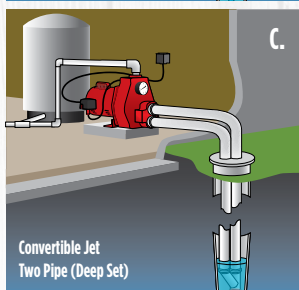
To get the best performance from your pump, proper sizing is important. Calculate your water usage using these steps:

- Count the number of water fixtures in your home: showers, faucets, outdoor spigots and water using appliances (dishwashers, clothes washers, refrigerators).
- Each fixture will require one gallon per minute (gpm) of flow.
- The front of each Red Lion carton indicates the total gpm it can accommodate.

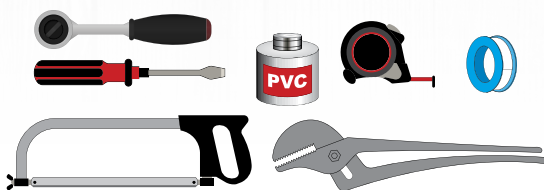
What Size Tank Should You Use?

A properly sized tank will prevent your pump from cycling on and off frequently. For example, a 6-gallon tank will require your pump to run every time you flush your toilet or every time you fill the sink. This constant operation can lead to early pump failure. In contrast, a 33-gallon tank will reduce the number of cycles by over five times, extending the life of your pump. To select the right size, count the number of water fixtures in a home, including all faucets, toilets, and water consuming appliances (do not include water treatment appliances such as a hot water tank or water filters). Multiply the number of fixtures by three and select the next largest tank. For example, 8 fixtures $\times 3 = 24$ gallons. Therefore, an RL34A would be the best tank for this application.

Typical Installations



Tools Needed



Need additional help?

Our Technical Support Hotline can help you with pump selection, installation questions or troubleshooting. They can be reached during normal business hours at 888.885.9254.

Pressure Boosting System

Ideal for homes with a municipal water source and incoming water pressure that is less than 45 psi. The system helps maintain steady pressure when more than one water fixture is in use.

- System is preassembled and ready to install
- Built-in control unit eliminates the need for a pressure switch and tank, which saves space and reduces cost
- Run-dry feature protects the pump from damage if the water source is turned off
- Auto-run feature flushes the system if idle for more than 24 hours preventing debris build-up and damage to the impeller



Model	Item No.	HP	Volts	Amps	Intake	Discharge	
RBSS-75FC	97080708	3/4	115	9	1" FNPT	1" MNPT	
Incoming Water Pressure from Main Water Supply			10 PSI	20 PSI	30 PSI	40 PSI	45 PSI
Outgoing Water Pressure at 2 GPM Flow*			55 PSI	65 PSI	75 PSI	75 PSI	75 PSI

* Maximum pressure boost with pressure regulator installed

To prevent damage to pipes, all installations must include a pressure regulator set no higher than 72.5 psi. Follow all instructions included in the Owner's Manual.



Premium Shallow Well Jet Pumps

Ideal for supplying fresh water to large rural homes, farms and cabins that have suction lifts down to 25'. Designed for high use and heavy water demands.

- Rugged cast iron casing
- 1-1/4" FNPT suction and 1" FNPT discharge
- Includes 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- Dual voltage motor, 115/230 V*, with capacitor for increased starting power



1/4" MNPT Pressure
Gauge Included



Model	HP	Total Suction Lift	Discharge Pressure (PSI)				Max. Pressure (PSI)	Max. Head
			30	40	50	60		
			Gallons Per Minute					
RJS-50-PREM	1/2	5'	12.6	10	6.1	2	65	150'
		15'	10	7.9	4	-	60	139'
		25'	6.9	6.2	2.5	-	55	127'
RJS-75-PREM	3/4	5'	16.7	12.6	7.2	1.8	65	150'
		15'	13.1	10.2	4.7	-	60	139'
		25'	8.4	7.2	2.9	-	55	127'
RJS-100-PREM	1	5'	23.2	16.8	10.6	3.5	65	150'
		15'	19.5	14.1	7.7	-	60	139'
		25'	13.3	11.5	5.3	-	55	127'

Model	Item Number	Voltage	Amps
RJS-50-PREM	602206	115/230	11.8 A @ 115 V 5.9 A @ 230 V
RJS-75-PREM	602207	115/230	14.4 A @ 115 V 7.2 A @ 230 V
RJS-100-PREM	602208	115/230	17.6 A @ 115 V 8.8 A @ 230 V

* Pumps are factory set at 230 V. Instructions for switching the voltage to 115 V are included in the Owner's Manual.



RED LION®

Cast Iron Shallow Well Jet Pumps

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

- Heavy-duty cast iron construction
- 1-1/4" FNPT suction and 1" FNPT discharge
- Includes 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- Dual voltage motor, 115/230 V*
- TEFC design with simple connection to existing power source
- 1/8" NPT pressure gauge port



RL-SWJ50 and RL-SWJ75



RL-SWJ100

Model	HP	Total Suction Lift	Discharge Pressure (PSI)					Max. Pressure (PSI)	Max. Head
			20	30	40	50	60		
			Gallons Per Minute						
RL-SWJ50	1/2	5'	13.6	12.6	7.3	3.4	1	64	148'
		15'	9.7	9.5	5.5	2.8	0.3	60	139'
		25'	4.7	5	4.1	1.7	-	57	133'
RL-SWJ75	3/4	5'	13.4	13	9.1	4.8	1.5	70	161'
		15'	9.8	9.7	7.2	3.4	0.8	66	152'
		25'	4.4	5.2	4.8	1.8	0.4	62	144'
RL-SWJ100	1	5'	17.3	17	12.9	8.5	4.4	74	172'
		15'	12.7	12.4	10.9	7	2.7	72	166'
		25'	6.7	6.5	6.6	5.2	2	68	156'

Model	Item Number	Voltage	Amps
RL-SWJ50	97080502	115/230	8.4 A @ 115 V 4.2 A @ 230 V
RL-SWJ75	97080701	115/230	9.0 A @ 115 V 4.5 A @ 230 V
RL-SWJ100	97081001	115/230	13.2 A @ 115 V 6.6 A @ 230 V

* Pumps are factory set at 230 V. Instructions for switching the voltage to 115 V are included in the Owner's Manual.

Shallow Well Jet Pump

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

- Cast iron construction
- Includes 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- Dual voltage motor, 115/230 V*
- TEFC design with simple connection to existing power source



Model	HP	Intake	Discharge	Suction Lift	Discharge Pressure (PSI) Gallons per minute					Max Pressure (PSI)	Max Head
					20	30	40	50	60		
PWJET50	1/2	1-1/4" FNPT	1" FNPT	5'	9.8	7.4	4	1.3	0.2	63	145'
				15'	6.7	5.9	2.9	1	-	59	137'
				25'	3.3	3.6	2	0.7	-	56	129'

Model	Item Number	Volts	Amps
PWJET50	97080501	115/230	6.6 A @ 115 V 3.3 A @ 230 V

Shallow well cast iron jet pump
Surface de jet de pompe avec boîtier en fonte
Bomba jet en fundición de hierro para pozos no profundos

Includes factory pre-set 30/50 pressure switch
Comprend un manostat 30/50 pré-réglé en usine
Incluye interruptor de presión 30/50 pre ajustado de fábrica



Rugged cast iron casing
Boîtier en fonte robuste
Resistente voluta de hierro fundido

Heavy-duty motor, 115/230 volts
Moteur à usage intensif de 115/230 volts
Motor de 115/230 voltios de uso pesado

Factory pre-set to 230V. Same as the others.

**RED LION®****CLEANWATER**

Stainless Steel Shallow Well Jet Pump

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

- Corrosion-resistant stainless steel pump housing
- 1" FNPT intake/discharge
- Includes 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- Dual voltage motor, 115/230 V*
- TEFC design with simple connection to existing power source
- 1/8" NPT pressure gauge port



Model	HP	Total Suction Lift	Discharge Pressure (PSI)				Max. Pressure (PSI)	Max. Head
			30	40	50	60		
			Gallons Per Minute					
RJS-75SS	3/4	5'	12.8	9.1	5.3	2.1	73	169'
		15'	9.4	7.4	3.9	1.7	68	158'
		25'	4.9	4.9	2.7	0.2	65	150'

Model	Item Number	Voltage	Amps
RJS-75SS	97080702	115/230	9.0 A @ 115 V 4.5 A @ 230 V

* Pumps are factory set at 230 V. Instructions for switching the voltage to 115 V are included in the Owner's Manual.

Premium Cast Iron Convertible Jet Pumps

Ideal for supplying fresh water to rural homes, farms and cabins that have suction lifts down to 90’.

- Rugged cast iron casing
- 1-1/4" FNPT suction and 1" FNPT discharge
- Includes 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- Dual voltage motor, 115/230 V*
- Tested and certified by CSA to UL 778 and CSA 108 for electrical safety and NSF/ANSI 372 for lead-free compliance



Injector Kit and Pressure Gauge Included



Model	HP	No. of Pipes	Total Suction Lift	Discharge Pressure (PSI)				Max. Pressure (PSI)	Max. Head	Max. Flow (GPM)
				30	40	50	60			
				Gallons Per Minute						
RJC-50-PREM	1/2	1	5'	14.2	10.2	5.9	1.8	64	149'	14.2
		1	15'	13.5	9.1	4.4	-	60	139'	
		2	25'	9.6	7.4	2.4	-	56	129'	14.2
		2	30'	5.8	3.7	1.8	0.2	62	143'	
		2	60'	4.3	2.7	1.4	0.3	63	146'	
		2	90'	1.6	0.7	0.1	-	51	119'	
RJC-75-PREM	3/4	1	5'	16.2	12.2	8	3.7	68	158'	16.2
		1	15'	14.3	10.6	6.1	1.3	64	147'	
		2	25'	9.8	8.9	4.7	-	61	141'	16.2
		2	30'	7.2	4.8	2.8	1.2	69	159'	
		2	60'	5.4	3.7	2.2	1.1	73	169'	
		2	90'	2.2	1.3	0.4	-	58	133'	

Shallow Well Installation

Deep Well Installation

Model	Item Number	Voltage	Amps
RJC-50-PREM	602136	115/230	14.4 A @ 115 V 7.2 A @ 230 V
RJC-75-PREM	602137	115/230	17.6 A @ 115 V 8.8 A @ 230 V

* Pumps are factory set at 230 V. Instructions for switching the voltage to 115 V are included in the Owner's Manual.



RED LION®



CLEANWATER

High Performance Cast Iron Convertible Jet Pump

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

- Rugged cast iron casing
- 1-1/4" and 1" FNPT intake/discharge
- Includes 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- Glass-filled thermoplastic impeller and diffuser for high performance and efficient water flow
- Dual voltage motor, 115/230 V*
- 1/4" NPT pressure gauge port (pressure gauge not included)
- Tested and certified by CSA to UL 778 and CSA 108 for electrical safety and NSF/ANSI 372 for lead free compliance



Model	HP	No. of Pipes	Total Suction Lift	Discharge Pressure (PSI)					Max. Pressure (PSI)	Max. Head	Max. Flow (GPM)
				20	30	40	50	60			
				Gallons Per Minute							
RJC-100	1	1	5	20.0	19.9	16.7	11.1	5.6	71.0	164'	20
			15	14.5	14.1	13.6	8.7	3.3	66.7	154'	
		2	20	-	10.5	7.3	5.2	3.6	87.0	201'	20
			50	-	7.2	5.0	3.4	1.9	74.0	171'	
			90	-	3.4	1.9	0.7	-	56.7	131'	

Shallow Well Installation

Deep Well Installation

Model	Item Number	Voltage	Amps
RJC-100	602038	115/230	17.0 A @ 115 V 8.5 A @ 230 V

* Pumps are factory set at 230 V. Instructions for switching the voltage to 115 V are included in the Owner's Manual.

Convertible Jet Pumps

Ideal for supplying fresh water to rural homes, farms and cabins that have suction lifts down to 70'.

- Rugged cast iron casing
- Dual voltage motor, 115/230 V*
- Includes 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- Glass-filled thermoplastic impeller and diffuser for high performance and efficient water flow
- Injector kit included



Model	HP	No. of Pipes	Suction Lift	Discharge Pressure				Max. Pressure (PSI)	Max. Head
				U.S. gallons per minute/ Liters per minute					
				30 psi	40 psi	50 psi	60 psi		
PW-CJ50	1/2	1	5'	7.9	7.2	4.8	3.1	86 psi	198'
			15'	6.2	5.7	4.1	2.6	81 psi	188'
		2	30'	6.3	3.9	2	0.5	64 psi	147'
			50'	3.6	2.3	1.3	0.5	69 psi	160'
			70'	2	1	0.3	-	55 psi	128'
PW-CJ75	3/4	1	5'	8.1	7.9	6.2	4	86 psi	199'
			15'	6.4	6.3	5.1	3.2	82 psi	190'
		2	30'	7.5	5.1	3	1.3	69 psi	160'
			50'	4.4	3	1.9	1	76 psi	176'
			70'	2.5	1.6	0.7	0.1	62 psi	143'

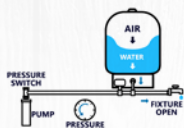
Model	Intake	Discharge	Item Number	Volts	Amps
PW-CJ50	1-1/4" FNPT	1" FNPT	97090501	115/230	13.2 A @ 115 V 6.6 A @ 230 V
PW-CJ75			97090701	115/230	14.2 A @ 115 V 7.1 A @ 230 V

* Pumps are factory set at 230 V. Instructions for switching the voltage to 115 V are included in the Owner's Manual.

Pre-Charged Diaphragm Pressure Tanks

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

- Heavy-duty 20-gauge steel construction
- 304 stainless steel water connection with patented leak safe technology
- High-performance variable geometry butyl rubber diaphragm membrane
- Internal polypropylene liner
- Certified for safe, clean drinking water: NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372 approved
- Can be installed in series or in parallel for increased system capacity



Internal diaphragm operation from 30 to 50 psi range

Model	Item Number	Gallons	Drawdown @ 30/50 PSI (gal)	Fixtures	Type	System Connect
RL2A	604652	2.0	0.7	-	Inline	3/4" MNPT Straight
RL4A	604653	4.5	1.5	-	Inline	3/4" MNPT Straight
RL6AH	604629	6.0	1.9	1	Horizontal	3/4" MNPT Straight
RL14AH	604693	14.0	4.8	4	Horizontal	3/4" MNPT Straight
RL14A	604687	14.0	4.9	4	Vertical	1" FNPT Elbow
RL20A	604682	20.0	7.2	6	Vertical	1" FNPT Elbow
RL34A	604683	34.0	10.8	11	Vertical	1" FNPT Elbow
RL44A	604684	44.0	12.7	14	Vertical	1-1/4" FNPT Elbow
RL81	604541	81.0	27.6	27	Vertical	1-1/4" NPT

Model	Length	Width	Height
RL2A	8.3	8.3	12.6
RL4A	11.0	11.0	15.4
RL6AH	16.9	11.8	13.4
RL14AH	21.3	15.7	17.7
RL14A	15.7	15.7	24.4
RL20A	17.7	17.7	27.6
RL34A	17.7	17.7	41.7
RL44A	21.7	21.7	37.0
RL81	21	21	62



C US
NSF/ANSI/CAN 61 by WQA
NSF/ANSI/CAN 372 by WQA



Pump and Tank Systems

Ideal for supplying fresh water to rural homes, farms and cabins where compact system size and ease of installation are required.

- 1/2 hp 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
- Low profile, compact horizontal pressure tank
- Stainless steel hose and fittings connect the pump to the tank
- Includes 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- Dual voltage motor, 115/230 V*
- All units come with a pressure gauge



RL-SWJ50/RL6H



RJC-50/RL6H

Model	Warranty	Item Number	Pump Type	Gallons	Amps/Volts	Pressure Gauge Port	Dis-charge	Suction Lift	No. of Pipes	Discharge Pressure (psi)				Max. Pressure (PSI)	Max. Head
										30	40	50	60		
										Gallons per Minute					
RL-SWJ50/RL6H		97080503	Shallow	5.8	8.4 A / 115 V 4.2 A / 230 V	1/8" NPT	1"	5'	1	12.6	7.3	3.4	1	64	148'
								15'		9.5	5.5	2.8	0.3	60	139'
								25'		5	4.1	1.7	-	57	133'
RJS-50/RL6H**		602099	Shallow	5.3	11.2 A / 115 V 5.6 A / 230 V	1/4" NPT	3/4"	5'	1	12.3	11.2	6.9	2	64.2	148'
								15'		9.6	9.4	4.7	-	59.9	138'
								25'		5.5	5.3	2.3	-	55.5	128'
RJC-50/RL6H †		602102	Convertible	5.3	11.2 A / 115 V 5.6 A / 230 V	1/4" NPT	3/4"	5'	1	10.9	10.7	7.4	4.5	76.2	176'
								15'	1	7.9	7.7	5.9	3.1	71.7	165'
								20'	2	9.2	6.5	4.5	2.9	85	196'
								50'	2	5.8	4	2.4	1.3	72	166'
								80'	2	3.4	2.2	1	-	59	136'

* Pumps are factory set at 230 V. Instructions for switching the voltage to 115 V are included in the Owner's Manual.

** Comes with foot valve.

† Comes with injector kit and foot valve.

Pump and Tank Systems

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

- Jet pump and pre-charged pressure tank are factory assembled and ready to install
- Pump casing and tank are made of corrosion-resistant stainless steel
- Pre-charged stainless steel tank has high grade butyl rubber diaphragm water chamber - 15 U. S. gallons (57 litres)
- Low profile, compact horizontal pressure tank
- Shallow well jet pump - 3/4 HP, 115/230 V
- Includes pressure gauge and 30/50 Pressure Switch set to shut pump off automatically at 50 psi
- See Owner's Manual for available repair kits



RJS-75SS/RL15HS

Model	Item No.	HP	Gallons	Volts	Amps	Intake/ Dis-charge	Pressure Gauge Port	Suction Lift	No. of Pipes	Discharge Pressure (psi)				Max. Pressure (PSI)	Max. Head
										30	40	50	60		
										Gallons per Minute					
RJS-75SS/ RL15HS	602240	3/4	15.0	115/230	9.0A @ 115V 4.5A @ 230V	1" FNPT 1" FNPT	1/8" NPT	5'	1	12.8	9.1	5.3	2.1	73 PSI	169'
								15'		9.4	7.4	3.9	1.7	68 PSI	158'
								25'		5.4	4.9	2.7	0.2	65 PSI	150'

	Model	Length	Width	Height	Weight (lbs)	Carton Cube (cu ft)	Pallet Quantity	Quantity per Layer	Layers per Pallet
Product only	RJS-75SS/RL15HS	22.7" 57.6 cm	15.8" 40.0 cm	25.9" 65.9 cm	36.22 (16.43 kgs)				
Product in carton	RJS-75SS/RL15HS	25.2" 64.0 cm	17.7" 45.0 cm	28.0" 71.0 cm	44.14 (20.02 kgs)	7.221	12	4	3

4" Submersible Well Pumps - RS Series

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

- 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
- 1-1/4" FNPT discharge

See next page for specifications.



*Control box included with all 3-wire Red Lion RL Series 1/2, 3/4 and 1 HP - 4" Submersible Deep Well Pumps.

Control Boxes for 4" Submersible Well Pumps

Model	Item No.	HP	Volts
RLCB05-230	640199	1/2	230
RLCB07-230	640190	3/4	230
RLCB10-230	640191	1	230
RLCB15-230	640222	1-1/2	230





Model	Item Number	HP	Wires	Volts	Amps	PSI	Discharge Pressure(PSI)										Shut-Off	Max. Flow (GPM)
							80	100	120	140	160	180	200	240	280			
							Gallons per Minute											
12 GPM																		
RL12G05-2W1V	14942401	1/2	2	115	12	0	14	13	12	11	9	8	6			212	12	
						10	13	12	10	9	7	6						
						20	11	10	9	7								
						30	10	9	7									
						40	8	6										
						50	6											
						60												
						70												
						80												
						Shut off PSI						67	58	50	41			32
RL12G05-2W2V	14942402	1/2	2	230	6	0	14	13	12	11	9	8	6			212	12	
						10	13	12	10	9	7	6						
						20	11	10	9	7								
						30	11	10	9	7								
						40	10	9	7									
						50	8	7										
						60	6											
						70												
						80												
						Shut off PSI						67	58	50	41			32
RL12G07-2W2V	14942403	3/4	2	230	8	0		14	14	13	12	11	11	9	6	333	12	
						10	14	14	13	12	11	10	10	7				
						20	13	13	12	11	10	9	8	6				
						30	13	12	11	10	9	8	7					
						40	13	11	10	9	8	7	6					
						50	11	10	9	8	7							
						60	10	9	8	7								
						70	9	8	6									
						80	7	6										
						Shut off PSI						110	101	92	84			75
RL12G10-2W2V	14942404	1	2	230	10.4	0				14	14	13	13	11	10	434	12	
						10				14	14	13	12	12	11			9
						20		14	14	13	12	12	11	10	8			
						30	14	13	13	12	12	11	10	9	7			
						40	13	13	12	12	11	10	10	8	6			
						50	13	12	11	11	10	9	9	7				
						60	12	11	11	10	9	8	8	6				
						70	11	11	10	9	8	7	6					
						80	11	10	9	8	7	6						
						Shut off PSI						153	145	136	127			119
RL12G10-3W2V*	14942407	1	2	230	10.4	0				14	14	13	13	11	10	434	12	
						10				14	14	13	12	12	11			9
						20		14	14	13	12	12	11	10	8			
						30	14	13	13	12	12	11	10	9	7			
						40	13	13	12	12	11	10	10	8	6			
						50	13	12	11	11	10	9	9	7				
						60	12	11	11	10	9	8	8	6				
						70	11	11	10	9	8	7	6					
						80	11	10	9	8	7	6						
						Shut off PSI						153	145	136	127			119



Model	Item Number	HP	Wires	Volts	Amps	PSI	Discharge Pressure(PSI)										Shut-Off	Max. Flow (GPM)
							80	100	120	140	160	180	200	240	280			
							Gallons per Minute											
RL12G15-3W2V	14942408	1-1/2	3	230	11.5	0					14	14	14	13	12	548	12	
						10					14	14	14	13	13			12
						20			14	14	14	13	13	12	12			11
						30		14	14	14	13	13	12	12	11			
						40	14	14	14	13	13	12	12	11	10			
						50	14	13	13	13	12	12	11	11	10			
						60	13	13	13	12	12	11	11	10	9			
						70	13	13	12	12	11	11	10	9	8			
						80	12	12	12	11	11	10	10	9	8			
						Shut off PSI 229 220 211 203 194 185 177 159 142												
22 GPM																		
RL22G10-3W2V*	14942409	1	3	230	10.4	0	27	26	25	23	21	20	18			260	22	
						10	26	24	23	21	19							
						20	24	23	21	19								
						30	22	21	19									
						40	20	18										
						50	18											
						60												
						70												
						80												
						Shut off PSI 48 69 61 52 43 35 26												

* Includes control box.

4" SUBMERSIBLE WELL PUMPS - RS SERIES

Ideal for supplying fresh water to rural homes, farms and cabins that have 4" and greater diameter drilled wells to depths of 250'. The stainless steel discharge is perfect for aggressive water conditions.

- Powered by industry standard 3-wire motor
- Stainless steel discharge, motor bracket and pump shell
- Built-in suction screen and check valve
- 5 gpm, 12 gpm and 22 gpm models available
- 1-1/4" FNPT discharge
- Control box is not included

See next page for specifications.



Control Boxes for 4" Submersible Well Pumps

Model	Item No.	HP	Volts
RLCB05-230	640199	1/2	230
RLCB07-230	640190	3/4	230
RLCB10-230	640191	1	230
RLCB15-230	640222	1-1/2	230



Model	Item Number	HP	Wires	Volts	Amps	PSI	Discharge Pressure(PSI)										Shut-Off	Max. Flow (GPM)
							80	100	120	140	160	180	200	240	280			
							Gallons per Minute											
5 GPM																		
RS5G05-3W2V	14942373	1/2	3	230	5.0	0	8	8	8	7	7	6	5	303	5			
						10	8	8	8	7	7	6	6			4		
						20	8	8	7	7	6	5	5					
						30	7	7	7	6	5	4						
						40	7	6	6	5	4							
						50	6	6	5	4								
						60	6	5	4									
						70	5	4										
						80												
						Shut off PSI	97	88	79	71	62	53	45			27		
RS5G07-3W2V	14942374	3/4	3	230	6.8	0			8	8	8	8	7	7	455	5		
						10			8	8	8	8	7	7			6	
						20		8	8	8	8	7	7	7			6	
						30	8	8	8	8	7	7	7	6			5	
						40	8	8	8	7	7	7	6	6			4	
						50	8	8	7	7	7	6	6	5			4	
						60	8	7	7	7	6	6	5	4				
						70	7	7	7	6	6	5	5					
						80	7	7	6	6	5	5	4					
						Shut off PSI	162	154	145	136	128	119	110	93			76	
12 GPM																		
RS12G05-3W2V	14942377	1/2	3	230	5.0	0		14	13	11	8			200	12			
						10	14	12	10	8								
						20	12	10	7									
						30	10	7										
						40	6											
						50												
						60												
						70												
						80												
						Shut off PSI	52	43	35	26	17							
RS12G07-3W2V	14942378	3/4	3	230	6.8	0				14	13	12	9	6	319	12		
						10				14	13	12	11	8				
						20			14	13	12	10	9					
						30		14	13	12	10	9	7					
						40	14	13	11	10	9	7						
						50	12	11	10	8	6							
						60	11	10	8	6								
						70	9	8	6									
						80	7											
						Shut off PSI	103	95	86	77	69	60	52	34			17	
RS12G10-3W2V	14942379	1	3	230	8.2	0							13	12	432	12		
						10							14	12			11	
						20						14	13	11			9	
						30					14	13	12	10			8	
						40			14	14	13	12	11	9			6	
						50		14	14	13	12	11	10	8				
						60	14	13	13	12	11	10	9	6				
						70	13	13	12	11	10	9	7					
						80	12	11	11	10	8	7						
						Shut off PSI	152	144	135	126	118	109	100	83			66	



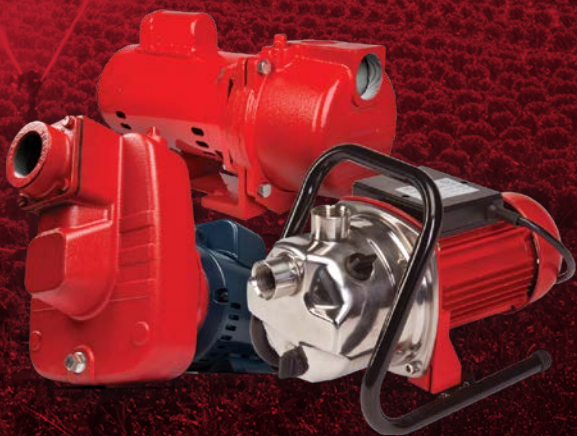
Model	Item Number	HP	Wires	Volts	Amps	PSI	Discharge Pressure(PSI)								Shut-Off	Max. Flow (GPM)									
							80	100	120	140	160	180	200	240			280								
							Gallons per Minute																		
RS12G15-3W2V	14942380	1-1/2	3	230	10.0	0									14	519	12								
						10												14	13						
						20												15	13	12					
						30												15	14	13	11				
						40												14	14	13	12	10			
						50												14	14	13	12	11	9		
						60												14	14	13	12	10	8		
						70												14	14	13	12	11	9	7	
						80												14	13	13	12	11	11	10	8
						Shut off PSI						190	181	173	164			155	147	138	121	103			
22 GPM																									
RS22G07-3W2V	14942381	3/4	3	230	6.8	0			28	25	21						178	22							
						10			28	24	20														
						20			24	19															
						30			18																
						40																			
						50																			
						60																			
Shut off PSI						42	34	25	16																
RS22G10-3W2V	14942382	1	3	230	8.2	0				29	26	22	18				213	22							
						10				28	25	22	18												
						20				28	25	21													
						30				24	21														
						40				20															
						50																			
						60																			
						70																			
Shut off PSI						58	49	40	32	23	14														
RS22G15-3W2V	14942383	1-1/2	3	230	10.0	0					29	28	26	24	18		284	22							
						10					29	28	26	24	21										
						20					29	28	26	23	20										
						30					29	27	25	23	20										
						40					27	25	22	19											
						50					24	22	19												
						60					22	18													
						70					18														
						80																			
Shut off PSI						88	80	71	62	54	45	36	19												



RED LION®



LAWN & IRRIGATION





RED LION®

Red Lion offers two types of sprinkler and irrigation pumps: portable (RJSE-75SS) and heavy-duty lawn/irrigation system pumps (RL-SPRK Series and RLHE-300). Choose from our heavy duty cast iron sprinkler pump or our corrosion-resistant stainless-steel model ideally suited for aggressive water conditions.

Portable Sprinkler Pumps (RJSE)

These portable pumps use a garden hose to draw water from a well or lake. They include a convenient handle and a power cord for easy plug-and-go watering of a lawn or garden. You can also use them to transfer water to fill a fountain or boost water pressure to wash a car, deck or driveway.

Sprinkler and Irrigation System Pumps (RL-SPRK Series and RLHE-300)

If you want to install a sprinkler system, Red Lion pumps can help drive your design.

Many sprinkler head manufacturers will provide homeowners with customized plans. These plans will include detailed instructions, sprinkler head placement, and a list of materials and tools you'll need.

Once you have your design and know how many sprinkler heads you'll be running, you can select your Red Lion pump.

New Installation Guidelines:

As a general rule, sprinkler heads with 1/2" fittings require approximately 3 gpm per head. Sprinkler heads with 3/4" fittings require approximately 6 gpm per head.

Note: This is a guideline only. For precise calculation add the total gpm requirements of all sprinkler heads in a single zone. The gpm requirements are specified on the sprinkler head packaging.



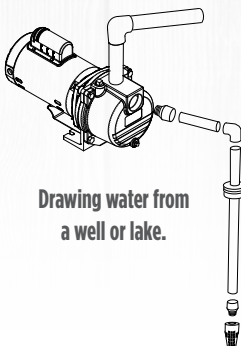
Existing Systems:

You will need to know what size pipe you currently have. You can determine this by measuring the outside of the pipe and comparing it to the chart below.

1. Expose a pipe connected to the sprinkler head and wrap a piece of string around the pipe one time.
2. Mark the length.
3. Match your measurement with the data below to determine your pipe fitting size. This brochure includes the number of sprinkler heads for both 1/2" and 3/4" pipe fittings. Select the pump that can handle at least the number of sprinkler heads for your fitting size.

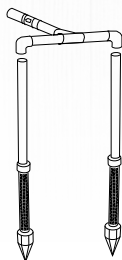
Actual Measurement		Pipe Fitting
Copper Pipe	Galvanized or PVC Pipe	
2"	2-5/8"	1/2"
2-3/4"	3-5/16"	3/4"

Typical Installations

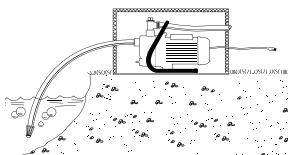


Drawing water from a well or lake.

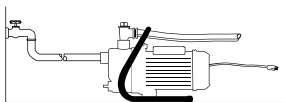
Drawing water from multiple well points.



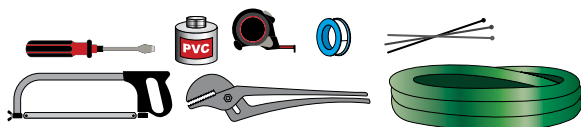
Drawing water from a lake or well



Alternative installation as a booster pump



Tools Needed





RED LION®

Do I need a brass impeller or a thermoplastic impeller?

Our premium models feature a brass impeller and are designed for more demanding applications and water conditions such as drawing water from areas with sediment (like canal ditches) or for use with weir feeders. Thermoplastic impellers are designed to draw water from a well or clear lake. Brass impeller conversion kits are available for RL-SPRK pumps.

Protecting Your Investment

The motors on Red Lion irrigation pumps are not waterproof. If storing outside, ensure the pump is protected from the elements. Keep it in a pump house, garage or crawl space. A dog house can even be used as a pump shelter.

Cold Weather Tips

To winterize your system, drain it completely before freezing temperatures arrive in your area. Some systems can be drained by opening the main drain valve(s) or by blowing out the system using compressed air (never exceed 50 psi and always wear proper eye protection). If not done properly, your sprinkler system could be damaged or you could be seriously injured. If you're not sure which method is best for your system, hire a professional to perform your system's winterization. Once the system is drained, ensure your controller has been turned off and disconnect the power to your pump. In the Spring, remember to prime the pump and reconnect it to your power source.

Stainless Steel Sprinkler Utility Pump

Ideal for pressure boosting, operating lawn sprinkler systems, and general purpose applications where portability and corrosion resistance is important. Suitable for aggressive water conditions.

- Easy to prime to 25'; no additional priming required after initial fill
- 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	HP	Discharge Pressure in PSI at 5 ft Lift							Max. PSI	Max. Head
		0	10	20	30	40	50	60		
		Pump Capacity in U.S. GPM								
RJSE-75SS	3/4	11	9.5	9	7.3	4.6	2.3	0.4	64	147'

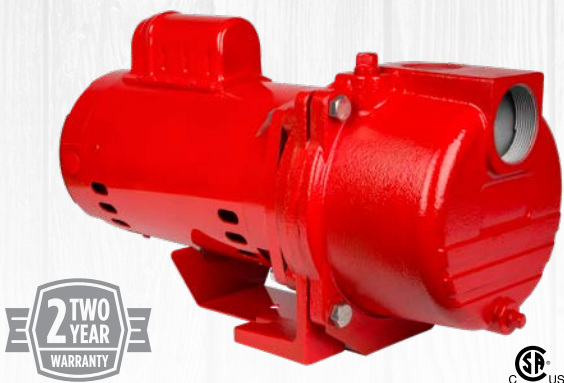
Model	Item Number	Voltage	Amps
RJSE-75SS	614432	115	6.5



Sprinkler Pumps

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

- Rugged cast iron casing
- Cast iron pump base
- High-efficiency thermoplastic impeller and diffuser
- Easy to prime to 25'; no additional priming required after initial fill
- 2" NPT suction and 1-1/2" NPT discharge
- BR models are configured with a brass impeller which is recommended for more demanding applications such as weir feeders*



Model	HP	Discharge Pressure in PSI at 5 ft Lift				Max. PSI	Max. Flow (GPM)
		10	20	30	40		
		Pump Capacity in U.S. GPM					
RL-SPRK100	1	63	54	38	11	45	63
RL-SPRK150	1.5	71	60	44	15	44	71
RL-SPRK200	2	76	75	65	47	49	76
*RL-SPRK150-BR	1.5	71	60	44	15	41	71
*RL-SPRK200-BR	2	77	75	64	48	47	77

Model	Item Number	Voltage	Amps
RL-SPRK100	97101001	115/230	14 A @ 115 V 7 A @ 230 V
RL-SPRK150	97101501	115/230	18.6 A @ 115 V 9.3 A @ 230 V
RL-SPRK200	97102001	230	10.9 A @ 230 V
*RL-SPRK150-BR	97101502	115/230	18.6 A @ 115 V 9.3 A @ 230 V
*RL-SPRK200-BR	97102002	230	10.9 A @ 230 V



Cast Iron Industrial Sprinkler Pump

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

- Heavy-duty iron casing, diffuser, and seal plate
- High efficiency cast iron impeller and diffuser
- Easy to prime to 25'; no additional priming required after initial fill
- 2" FNPT intake/discharge



Model	HP	Discharge Pressure in PSI at 5 ft Lift							Max. Pressure (PSI)	Max. Flow (GPM)
		10	20	30	40	45	50	55		
		Pump Capacity in U.S. GPM								
RLHE-300	3	124	110	95	77	67	54	36	59	124

Model	Item Number	Volts	Amps
RLHE-300	614481	230	16.1



RED LION®





RED LION®

redlionproducts.com

1.888.885.9254