

# PRODUCT CATALOG



**RED LION**®

Trusted for generations.

# The Red Lion Story



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.

## RED LION®

**Rugged. Reliable. Red Lion.**

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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

|   |   |   |                   |                   |
|---|---|---|-------------------|-------------------|
| Clean Water   | Effluent/Sewage   | <b>Features/Benefits Color Indicator</b><br>(Gold, Silver, or Bronze)   |                   |                   |
|  |  |   |                   |                   |
| Lawn & Irrigation   | Multi-Purpose   | <b>Warranty Period</b><br>   |                   |                   |
|  |  |   |                   |                   |
| Sump  | Engine Drives   |   |                   |                   |
|  |  | Premium Features  | Enhanced Features | Standard Features |

# TRAINING PROGRAM

Training is what truly differentiates Red Lion from our competitors. Our team of factory trained experts provides regional or in-store training at your location. Backed by years of experience and easy-to-use training materials, your staff will truly understand the products. All training is provided free of charge, and each participant receives valuable training material that they can refer to at any time.

## Benefits of training sessions:

- Provides your staff with product knowledge
- Improves customer satisfaction
- Improves your image
- Matches the right product to the job
- Reduces warranty returns

## Feedback from our customers' stores:

- *"Best training and most informative we have ever received."*
- *"This is a very informative SALES training session for our staff."*
- *"Longest, most in-depth training we have ever received."*
- *"I attended your pump course yesterday. Having attended many courses over my working career, I rank you among the top 5 instructors. You were well prepared, answered questions easily, and offered excellent explanations with well-prepared samples. Thank you!"*



## 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

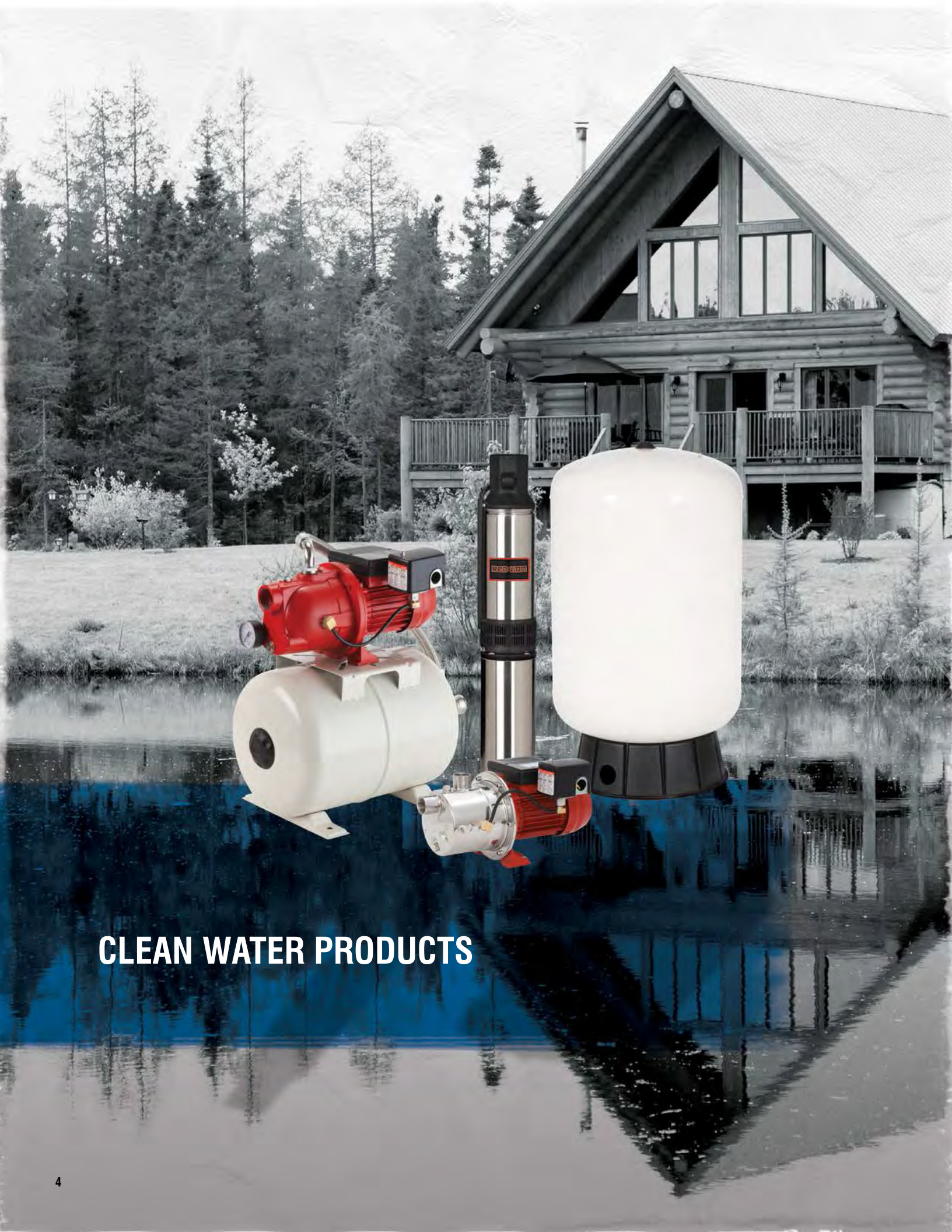
Ideal for average-to high-volume water and effluent removal in residential spaces such as basements, laundry facilities, and crawl spaces.

#### FEATURES & BENEFITS

- Automatic submersible cast iron sump/effluent pump
- 1-1/2" 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



More details found inside catalog



# CLEAN WATER PRODUCTS

## 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.

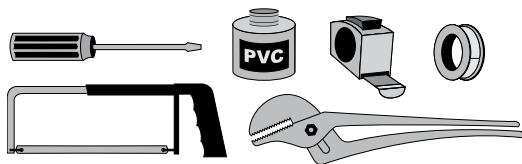
|                 |   |
|-----------------|---|
| 25 ft or less   | Shallow well jet pump<br>See illustration "A" |
| 25 ft to 90 ft  | Convertible jet pump<br>See illustration "B"  |
| 25 ft to 400 ft | Submersible well pump<br>See illustration "C" |

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 water-using 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.

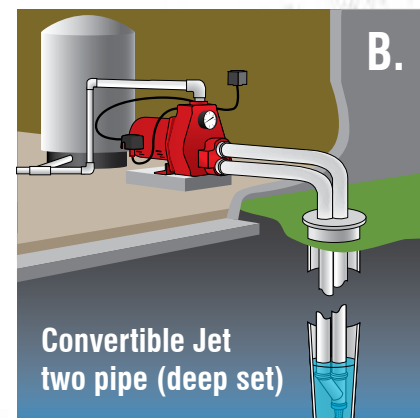
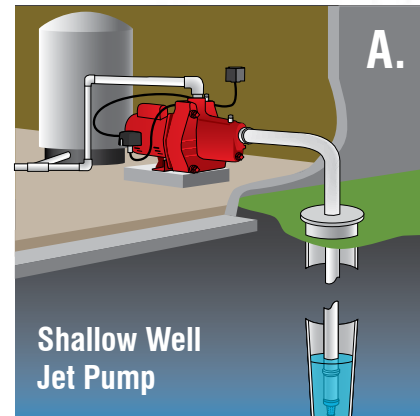
#### Tools needed



## 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



# 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

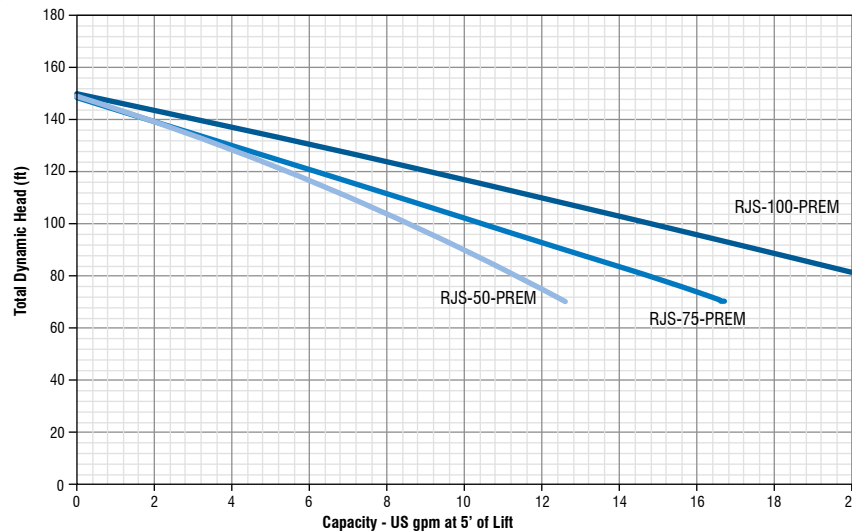


| Model        | Item Number | UPC             | HP  | Volts   | Amps                            | Intake      | Discharge | Suction Lift | Discharge Pressure (PSI) |      |      |     |                    | Max. Pressure PSI | Max. Head |  |
|--------------|-------------|-----------------|-----|---------|---------------------------------|-------------|-----------|--------------|--------------------------|------|------|-----|--------------------|-------------------|-----------|--|
|              |             |                 |     |         |                                 |             |           |              | 30                       | 40   | 50   | 60  | Gallons Per Minute |                   |           |  |
|              |             |                 |     |         |                                 |             |           |              |                          |      |      |     |                    |                   |           |  |
| RJS-50-PREM  | 602206      | 0 10121 14702 7 | 1/2 | 115/230 | 11.8 A @ 115 V<br>5.9 A @ 230 V | 1-1/4" FNPT | 1" FNPT   | 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  | 602207      | 0 10121 14704 1 | 3/4 | 115/230 | 14.4 A @ 115 V<br>7.2 A @ 230 V | 1-1/4" FNPT | 1" FNPT   | 5'           | 16.7                     | 12.5 | 7    | 1.8 | 65                 | 150'              |           |  |
|              |             |                 |     |         |                                 |             |           | 15'          | 13.1                     | 10   | 4.9  | -   | 60                 | 139'              |           |  |
|              |             |                 |     |         |                                 |             |           | 25'          | 8.4                      | 7.1  | 2.1  | -   | 55                 | 127'              |           |  |
| RJS-100-PREM | 602208      | 0 10121 14705 8 | 1   | 115/230 | 17.6 A @ 115 V<br>8.8 A @ 230 V | 1-1/4" FNPT | 1" FNPT   | 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'              |           |  |

## 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

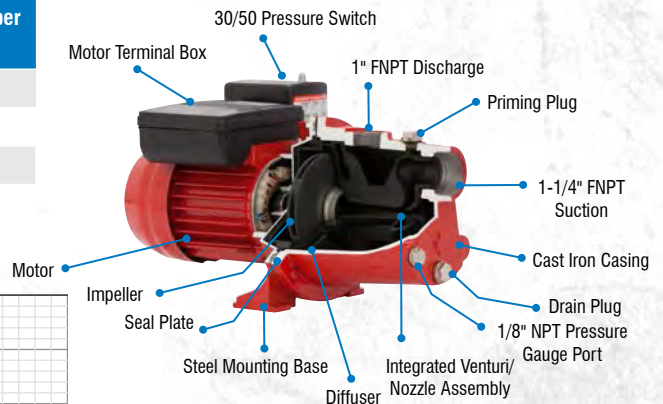
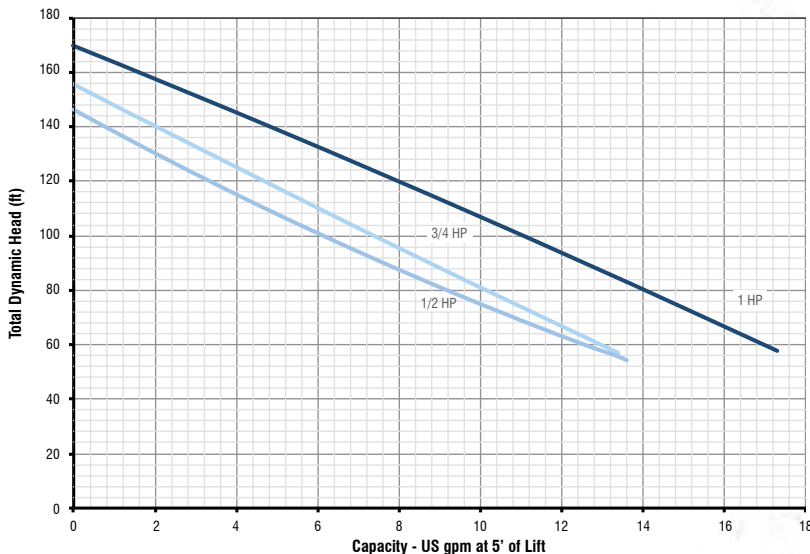


| Model     | Item Number | UPC             | HP  | Volts   | Amps                            | Intake      | Discharge | Suction Lift | Discharge Pressure (PSI) |      |      |     |     | Max. Pressure PSI | Max. Head |
|-----------|-------------|-----------------|-----|---------|---------------------------------|-------------|-----------|--------------|--------------------------|------|------|-----|-----|-------------------|-----------|
|           |             |                 |     |         |                                 |             |           |              | 20                       | 30   | 40   | 50  | 60  |                   |           |
|           |             |                 |     |         |                                 |             |           |              | Gallons Per Minute       |      |      |     |     |                   |           |
| RL-SWJ50  | 97080502    | 0 10121 14671 6 | 1/2 | 115/230 | 8.4 A @ 115 V<br>4.2 A @ 230 V  | 1-1/4" FNPT | 1" FNPT   | 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  | 97080701    | 0 10121 14672 3 | 3/4 | 115/230 | 9 A @ 115 V<br>4.5 A @ 230 V    | 1-1/4" FNPT | 1" FNPT   | 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 | 97081001    | 0 10121 14673 0 | 1   | 115/230 | 13.2 A @ 115 V<br>6.6 A @ 230 V | 1-1/4" FNPT | 1" FNPT   | 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'      |

## 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                 |

Cast Iron Shallow Well Jet Pumps



## 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

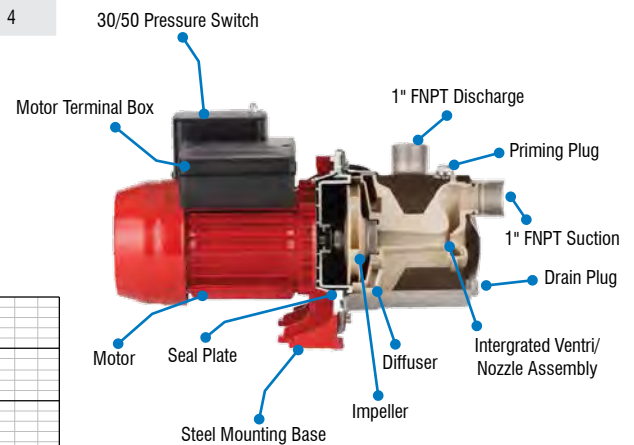
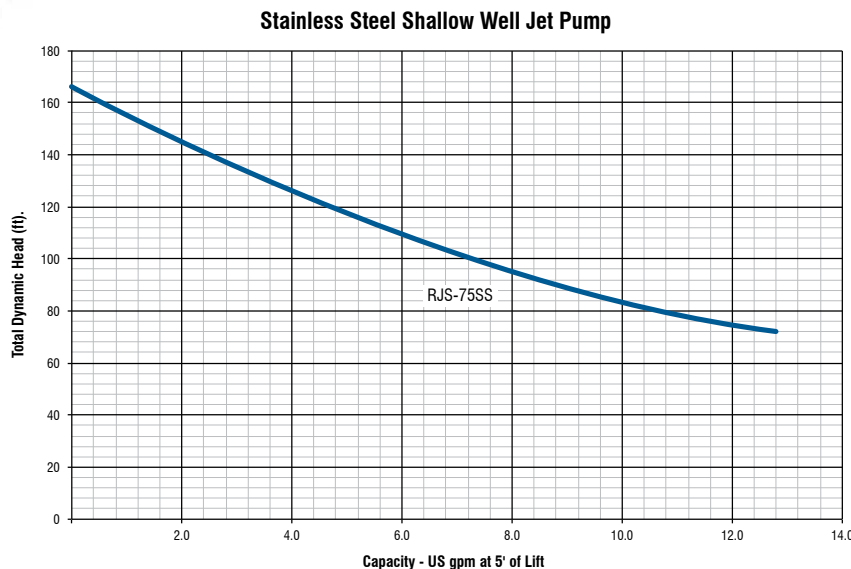
- **Shallow well stainless steel jet pump**  
Ideal for use in pumping at depths of 25' or less
- **Corrosion-resistant stainless steel pump housing**  
For years of service and reliability
- **Includes factory pre-set 30/50 pressure switch**  
Produces up to 50 psi with automatic shut-off
- **115/230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



| Model    | Item     | UPC             | HP  | Volts   | Amps                           | Intake/Discharge | Pressure Gauge Port | Suction Lift | Discharge Pressure |        |        |        | Max. Pressure | Max. Head |
|----------|----------|-----------------|-----|---------|--------------------------------|------------------|---------------------|--------------|--------------------|--------|--------|--------|---------------|-----------|
|          |          |                 |     |         |                                |                  |                     |              | 30 PSI             | 40 PSI | 50 PSI | 60 PSI |               |           |
|          |          |                 |     |         |                                |                  |                     |              | Gallons Per Minute |        |        |        |               |           |
| RJS-75SS | 97080702 | 0 10121 14939 7 | 3/4 | 115/230 | 9.0 A @ 115 V<br>4.5 A @ 230 V | 1" FNPT          | 1/8" NPT            | 5'           | 12.8               | 9.1    | 5.3    | 2.1    | 73 PSI        | 169'      |
|          |          |                 |     |         |                                |                  |                     | 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                 |



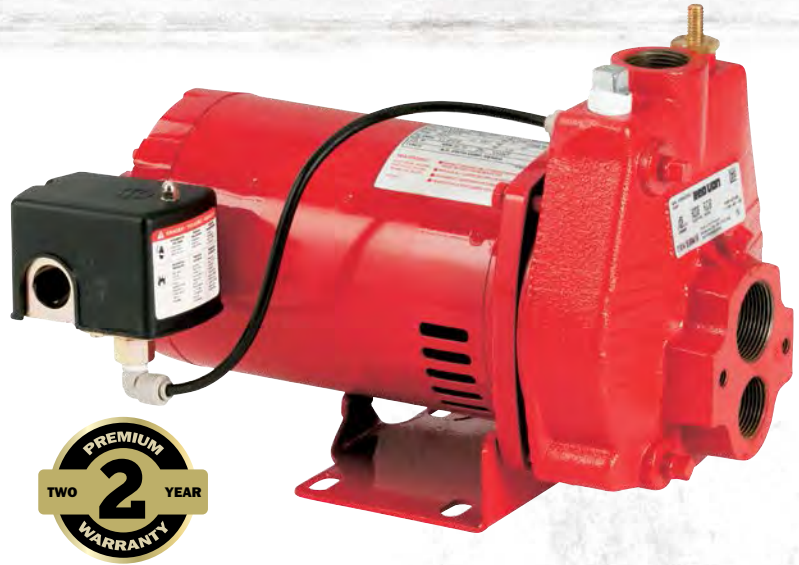
# HIGH PERFORMANCE CAST IRON CONVERTIBLE JET PUMPS

## 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



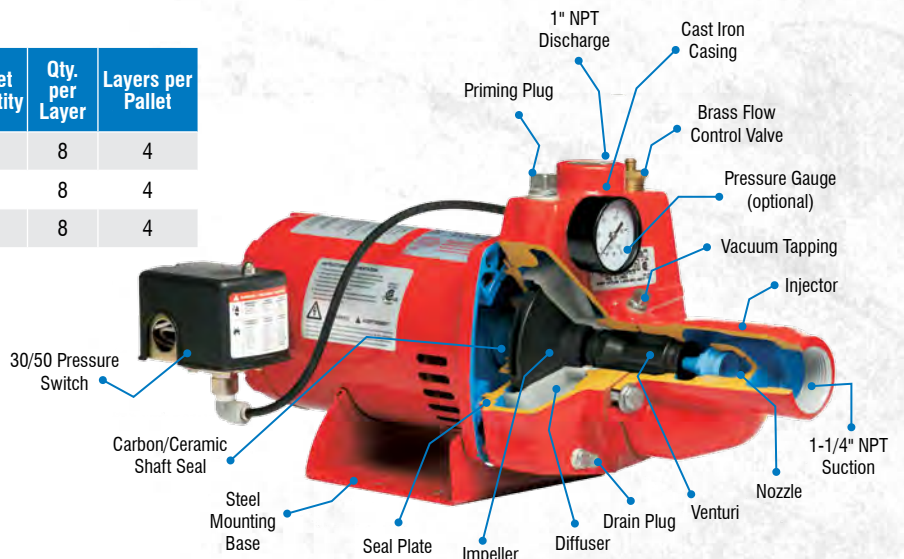
| Model   | Item Number | UPC             | HP  | Volts   | Amps                              | Intake | Discharge | No. of Pipes | Suction Lift | Discharge Pressure (PSI) |      |      |      |     | Max. Pressure PSI | Max. Head | Max. Flow GPM |      |      |      |
|---------|-------------|-----------------|-----|---------|-----------------------------------|--------|-----------|--------------|--------------|--------------------------|------|------|------|-----|-------------------|-----------|---------------|------|------|------|
|         |             |                 |     |         |                                   |        |           |              |              | 20                       | 30   | 40   | 50   | 60  |                   |           |               |      |      |      |
| RJC-50  | 602036      | 0 10121 12282 6 | 1/2 | 115/230 | 11.2 A @ 115 V /<br>5.6 A @ 230 V | 1-1/4" | 1" FNPT   | 1            | 5'           | 11.1                     | 10.9 | 10.7 | 7.4  | 4.5 | 76.2              | 176'      | 11.1          |      |      |      |
|         |             |                 |     |         |                                   |        |           |              | 15'          | 8.1                      | 7.9  | 7.7  | 5.9  | 3.1 |                   |           |               | 71.7 | 165' |      |
|         |             |                 |     |         |                                   |        |           |              | 20'          | -                        | 9.2  | 6.5  | 4.5  | 2.9 |                   |           |               | 85.0 | 196' |      |
|         |             |                 |     |         |                                   |        |           |              | 2            | 50'                      | -    | 5.8  | 4.0  | 2.4 |                   |           |               | 1.3  | 72.0 | 166' |
|         |             |                 |     |         |                                   |        |           |              | 2            | 80'                      | -    | 3.4  | 2.2  | 1.0 |                   |           |               | -    | 59.0 | 136' |
|         |             |                 |     |         |                                   |        |           |              | 1            | 5'                       | 18.2 | 17.7 | 14.3 | 9.7 |                   |           |               | 5.1  | 71.0 | 164' |
| RJC-75  | 602037      | 0 10121 12283 3 | 3/4 | 115/230 | 12.6 A @ 115 V /<br>6.3 A @ 230 V | 1-1/4" | 1" FNPT   | 1            | 5'           | 12.7                     | 12.4 | 12.0 | 7.5  | 3.0 | 86.0              | 199'      | 18.2          |      |      |      |
|         |             |                 |     |         |                                   |        |           |              | 15'          | -                        | 9.8  | 6.8  | 4.7  | 3.0 |                   |           |               | 86.0 | 199' |      |
|         |             |                 |     |         |                                   |        |           |              | 2            | 20'                      | -    | 6.1  | 4.1  | 2.5 |                   |           |               | 1.3  | 73.0 | 169' |
|         |             |                 |     |         |                                   |        |           |              | 2            | 50'                      | -    | 6.1  | 4.1  | 2.5 |                   |           |               | 1.3  | 73.0 | 169' |
|         |             |                 |     |         |                                   |        |           |              | 2            | 90'                      | -    | 3.5  | 2.1  | 1.0 |                   |           |               | -    | 60.0 | 139' |
|         |             |                 |     |         |                                   |        |           |              | 1            | 5'                       | 18.2 | 17.7 | 14.3 | 9.7 |                   |           |               | 5.1  | 71.0 | 164' |
| RJC-100 | 602038      | 0 10121 12284 0 | 1   | 115/230 | 16.4 A @ 115 V /<br>8.2 A @ 230 V | 1-1/4" | 1" FNPT   | 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' |
|         |             |                 |     |         |                                   |        |           |              | 2            | 50'                      | -    | 7.2  | 5.0  | 3.4 |                   |           |               | 1.9  | 74.0 | 171' |
|         |             |                 |     |         |                                   |        |           |              | 2            | 90'                      | -    | 3.4  | 1.9  | 0.7 |                   |           |               | -    | 56.7 | 131' |
|         |             |                 |     |         |                                   |        |           |              | 1            | 5'                       | 18.2 | 17.7 | 14.3 | 9.7 |                   |           |               | 5.1  | 71.0 | 164' |

## Carton Specifications

| Model   | Length | Width  | Height | Weight (lbs) | Carton Cubes (cu ft) | Pallet Quantity | Qty. per Layer | Layers per Pallet |
|---------|--------|--------|--------|--------------|----------------------|-----------------|----------------|-------------------|
| RJC-50  | 10.33" | 20.25" | 11.5"  | 36           | 1.39                 | 32              | 8              | 4                 |
| RJC-75  | 10.33" | 20.25" | 11.5"  | 37           | 1.39                 | 32              | 8              | 4                 |
| RJC-100 | 10.33" | 20.25" | 11.5"  | 38           | 1.39                 | 32              | 8              | 4                 |



Injector Kit Included



Pressure gauge included on pump and tank system only

## 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
- **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 appliance-quality 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



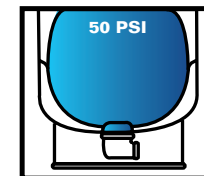
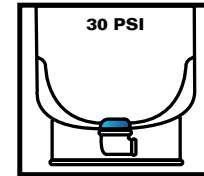
Inline



Horizontal



Vertical



| Model | Item Number | UPC             | Gallons | Drawdown @ 30/50 PSI (gal) | Fixtures | Type       | 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



RJC-50/RL14H

RL-SWJ50/RL6H

RJS-50/RL14H

| Model         | Warranty | Item Number | UPC             | HP  | Gallons | Volts   | Amps                           | Intake      | Discharge | Pressure Gauge Port | Suction Lift | No. of Pipes | Discharge Pressure (PSI) |      |      |     |     | Max. Pressure PSI | Max. Head |      |
|---------------|----------|-------------|-----------------|-----|---------|---------|--------------------------------|-------------|-----------|---------------------|--------------|--------------|--------------------------|------|------|-----|-----|-------------------|-----------|------|
|               |          |             |                 |     |         |         |                                |             |           |                     |              |              | 20                       | 30   | 40   | 50  | 60  |                   |           |      |
|               |          |             |                 |     |         |         |                                |             |           |                     |              |              | Gallons Per Minute       |      |      |     |     |                   |           |      |
| RL-SWJ50/RL6H |          | 97080503    | 0 10121 14942 7 | 1/2 | 5.8     | 115/230 | 8.4 A @ 115 V / 4.2 A @ 230 V  | 1-1/4" FNPT | 1" FNPT   | 1/8" NPT            | 5'           | 1            | 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 | 0   | 57                | 133'      |      |
| RJS-50/RL6H   |          | 602099      | 0 10121 12241 3 | 1/2 | 5.3     | 115/230 | 11.2 A @ 115 V / 5.6 A @ 230 V | 1-1/4" FNPT | 1" FNPT   | 1/4" NPT            | 5'           | 1            | 12.8                     | 12.3 | 11.2 | 6.9 | 2   | 64.2              | 148'      |      |
|               |          |             |                 |     |         |         |                                |             |           |                     | 15'          |              | 9.8                      | 9.6  | 9.4  | 4.7 | -   | 59.9              | 138'      |      |
|               |          |             |                 |     |         |         |                                |             |           |                     | 25'          |              | 5.6                      | 5.5  | 5.3  | 2.3 | -   | 55.5              | 128'      |      |
| RJS-50/RL14H  |          | 602014      | 0 10121 12230 7 | 1/2 | 14      | 115/230 | 11.2 A @ 115 V / 5.6 A @ 230 V | 1-1/4" FNPT | 1" FNPT   | 1/4" NPT            | 5'           | 1            | 12.8                     | 12.3 | 11.2 | 6.9 | 2   | 64.2              | 148'      |      |
|               |          |             |                 |     |         |         |                                |             |           |                     | 15'          |              | 9.8                      | 9.6  | 9.4  | 4.7 | -   | 59.9              | 138'      |      |
|               |          |             |                 |     |         |         |                                |             |           |                     | 25'          |              | 5.6                      | 5.5  | 5.3  | 2.3 | -   | 55.5              | 128'      |      |
| RJC-50/RL6H   |          | 602102      | 0 10121 12240 6 | 1/2 | 5.3     | 115/230 | 11.2 A @ 115 V / 5.6 A @ 230 V | 1-1/4" FNPT | 1" FNPT   | 1/4" NPT            | 5'           | 1            | 11.1                     | 10.9 | 10.7 | 7.4 | 4.5 | 76.2              | 176'      |      |
|               |          |             |                 |     |         |         |                                |             |           |                     | 15'          |              | 8.1                      | 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' |
| RJC-50/RL14H  |          | 602063      | 0 10121 12239 0 | 1/2 | 14      | 115/230 | 11.2 A @ 115 V / 5.6 A @ 230 V | 1-1/4" FNPT | 1" FNPT   | 1/4" NPT            | 5'           | 1            | 11.1                     | 10.9 | 10.7 | 7.4 | 4.5 | 76.2              | 176'      |      |
|               |          |             |                 |     |         |         |                                |             |           |                     | 15'          |              | 8.1                      | 7.9  | 7.7  | 5.9 | 3.1 | 71.1              | 165'      |      |
|               |          |             |                 |     |         |         |                                |             |           |                     | 20'          |              | 2                        | -    | 9.2  | 6.5 | 4.5 | 2.9               | 85        | 196' |
|               |          |             |                 |     |         |         |                                |             |           |                     | 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

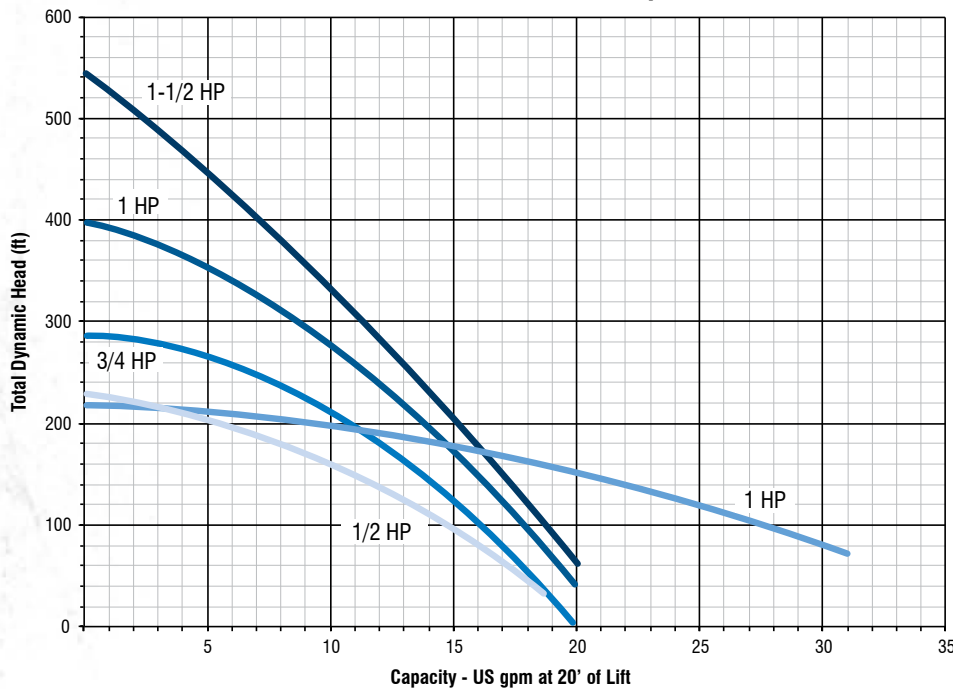
Ideal for the supply of fresh water to rural homes, farms, and cabins that have 4" and greater diameter drilled wells to depths of 250'.

## 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

| Model                 | Item Number | Length | Width  | Height | Weight (lbs) | Carton Cubes (cu ft) | Pallet Quantity | Qty. per Layer | Layers per Pallet |
|-----------------------|-------------|--------|--------|--------|--------------|----------------------|-----------------|----------------|-------------------|
| <b>Pumps only</b>     |             |        |        |        |              |                      |                 |                |                   |
| 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                |
| <b>Sub-Pacs</b>       |             |        |        |        |              |                      |                 |                |                   |
| 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                 |
| RL12G07-2W2V-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

| Model                                 | Item Number                | UPC                                | HP    | Wires | Volts | Amps | Depth to water | Discharge Pressure PSI |    |    |    |    |    |    |    |    |             |      | Discharge | Shut-Off    | Max. Flow GPM | Availability |
|---------------------------------------|----------------------------|------------------------------------|-------|-------|-------|------|----------------|------------------------|----|----|----|----|----|----|----|----|-------------|------|-----------|-------------|---------------|--------------|
|                                       |                            |                                    |       |       |       |      |                | 0                      | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      |                | Gallons Per Minute     |    |    |    |    |    |    |    |    |             |      |           |             |               |              |
| RL12G05-2W1V<br>RL12G05-2W1V-SP (CAN) | 14942401<br>14942412 (CAN) | 0 10121 14177 3<br>0 10121 14188 9 | 1/2   | 2     | 115   | 10   | 20'            | -                      | 19 | 18 | 16 | 15 | 14 | 12 | 10 | 6  | 1-1/4" FNPT | 231' | 12        | Canada only |               |              |
|                                       |                            |                                    |       |       |       |      | 40'            | 19                     | 18 | 16 | 15 | 14 | 13 | 11 | 7  | 2  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 60'            | 18                     | 17 | 16 | 14 | 13 | 11 | 7  | 3  | -  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 80'            | 17                     | 16 | 15 | 13 | 11 | 8  | 3  | -  | -  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 100'           | 16                     | 15 | 13 | 11 | 8  | 4  | -  | -  | -  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 140'           | 14                     | 12 | 9  | 5  | -  | -  | -  | -  | -  |             |      |           |             |               |              |
| RL12G05-2W2V<br>RL12G05-3W2V*         | 14942402<br>14942405       | 0 10121 14178 0<br>0 10121 14181 0 | 1/2   | 3     | 230   | 6    | 20'            | -                      | 19 | 18 | 16 | 15 | 14 | 12 | 10 | 6  | 1-1/4" FNPT | 231' | 12        | Canada only |               |              |
|                                       |                            |                                    |       |       |       |      | 40'            | 19                     | 18 | 16 | 15 | 14 | 13 | 11 | 7  | 2  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 60'            | 18                     | 17 | 16 | 14 | 13 | 11 | 7  | 3  | -  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 80'            | 17                     | 16 | 15 | 13 | 11 | 8  | 3  | -  | -  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 100'           | 16                     | 15 | 13 | 11 | 8  | 4  | -  | -  | -  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 140'           | 14                     | 12 | 9  | 5  | -  | -  | -  | -  | -  |             |      |           |             |               |              |
| RL12G07-2W2V<br>RL12G07-3W2V*         | 14942403<br>14942406       | 0 10121 14179 7<br>0 10121 14182 7 | 3/4   | 3     | 230   | 8    | 20'            | -                      | 20 | 18 | 17 | 16 | 16 | 15 | 14 | 12 | 1-1/4" FNPT | 291' | 12        | Canada only |               |              |
|                                       |                            |                                    |       |       |       |      | 40'            | 20                     | 19 | 17 | 17 | 16 | 15 | 14 | 13 | 11 |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 60'            | 19                     | 18 | 17 | 16 | 15 | 14 | 13 | 11 | 9  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 80'            | 18                     | 17 | 16 | 15 | 14 | 13 | 11 | 9  | 6  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 100'           | 17                     | 16 | 15 | 14 | 13 | 12 | 9  | 6  | 3  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 140'           | 15                     | 15 | 14 | 13 | 10 | 7  | 4  | -  | -  |             |      |           |             |               |              |
| RL12G10-2W2V<br>RL12G10-3W2V*         | 14942404<br>14942407       | 0 10121 14180 3<br>0 10121 14183 4 | 1     | 3     | 230   | 9.8  | 20'            | -                      | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 12 | 1-1/4" FNPT | 399' | 12        |             |               |              |
|                                       |                            |                                    |       |       |       |      | 40'            | -                      | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 60'            | 20                     | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 80'            | 19                     | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 12 |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 100'           | 18                     | 17 | 17 | 16 | 15 | 14 | 13 | 12 | 11 |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 140'           | 17                     | 16 | 16 | 15 | 14 | 13 | 12 | 10 | 8  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 200'           | 15                     | 14 | 13 | 11 | 11 | 9  | 7  | 5  | 2  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 240'           | 14                     | 12 | 11 | 10 | 8  | 6  | 3  | -  | -  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 280'           | 12                     | 10 | 8  | 6  | 4  | 1  | -  | -  | -  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 300'           | 10                     | 9  | 7  | 4  | 1  | -  | -  | -  | -  |             |      |           |             |               |              |
| RL12G15-3W2V                          | 14942408                   | 0 10121 14184 1                    | 1-1/2 | 3     | 230   | 10   | 20'            | -                      | -  | -  | 20 | 19 | 18 | 17 | 17 | 16 | 1-1/4" FNPT | 545' | 12        |             |               |              |
|                                       |                            |                                    |       |       |       |      | 40'            | -                      | -  | 20 | 19 | 18 | 18 | 17 | 17 | 16 |             |      |           |             | 16            |              |
|                                       |                            |                                    |       |       |       |      | 60'            | -                      | 20 | 19 | 18 | 18 | 17 | 17 | 16 | 16 |             |      |           |             | 16            |              |
|                                       |                            |                                    |       |       |       |      | 80'            | 20                     | 19 | 18 | 18 | 17 | 17 | 16 | 16 | 15 |             |      |           |             | 15            |              |
|                                       |                            |                                    |       |       |       |      | 100'           | 19                     | 18 | 18 | 17 | 17 | 16 | 16 | 15 | 15 |             |      |           |             | 15            |              |
|                                       |                            |                                    |       |       |       |      | 140'           | 18                     | 17 | 17 | 16 | 16 | 15 | 15 | 14 | 14 |             |      |           |             | 14            |              |
|                                       |                            |                                    |       |       |       |      | 200'           | 17                     | 16 | 16 | 15 | 15 | 14 | 13 | 13 | 12 |             |      |           |             | 12            |              |
|                                       |                            |                                    |       |       |       |      | 240'           | 16                     | 15 | 15 | 14 | 14 | 13 | 12 | 11 | 10 |             |      |           |             | 10            |              |
|                                       |                            |                                    |       |       |       |      | 280'           | 15                     | 14 | 14 | 13 | 12 | 11 | 10 | 9  | 8  |             |      |           |             | 8             |              |
|                                       |                            |                                    |       |       |       |      | 300'           | 14                     | 14 | 13 | 12 | 12 | 10 | 9  | 8  | 6  |             |      |           |             | 6             |              |
|                                       |                            |                                    |       |       |       |      | 340'           | 13                     | 13 | 12 | 11 | 10 | 8  | 7  | 5  | 3  |             |      |           |             | 3             |              |
|                                       |                            |                                    |       |       |       |      | 380'           | 12                     | 11 | 10 | 9  | 7  | 5  | 3  | 1  | -  |             |      |           |             | -             |              |
|                                       |                            |                                    |       |       |       |      | 440'           | 9                      | 8  | 6  | 4  | 2  | -  | -  | -  | -  |             |      |           |             | -             |              |
|                                       |                            |                                    |       |       |       |      | 500'           | 5                      | 3  | -  | -  | -  | -  | -  | -  | -  |             |      |           |             | -             |              |
| RL22G10-3W2V*                         | 14942409                   | 0 10121 14185 8                    | 1     | 3     | 230   | 9.8  | 20'            | -                      | -  | -  | 31 | 28 | 26 | 23 | 19 | 11 | 1-1/4" FNPT | 221' | 22        |             |               |              |
|                                       |                            |                                    |       |       |       |      | 40'            | -                      | -  | 32 | 28 | 26 | 24 | 20 | 12 | 1  |             |      |           |             |               |              |
|                                       |                            |                                    |       |       |       |      | 60'            | -                      | 33 | 29 | 16 | 24 | 20 | 14 | 3  | -  |             |      |           |             | -             |              |
|                                       |                            |                                    |       |       |       |      | 80'            | -                      | 29 | 27 | 24 | 21 | 15 | 4  | -  | -  |             |      |           |             | -             |              |
|                                       |                            |                                    |       |       |       |      | 100'           | 30                     | 27 | 25 | 22 | 16 | 6  | -  | -  | -  |             |      |           |             | -             |              |

\* 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.

**Control Boxes for 4" Submersible Well Pumps**

| Model      | Item Number | UPC             | HP    | Volts | Length | Width | Height | Weight (lbs) | Carton Cubes (cu ft) | Master Pack Qty. | Pallet Quantity | Qty. per Layer | Layers per Pallet |
|------------|-------------|-----------------|-------|-------|--------|-------|--------|--------------|----------------------|------------------|-----------------|----------------|-------------------|
| RLCB05-115 | 640188      | 0 10121 12203 1 | 1/2   | 115   | 8.75"  | 5.25" | 3.25"  | 3            | .09                  | 10               | 45 Master Packs | 9 Master Packs | 5                 |
| RLCB05-230 | 640189      | 0 10121 12204 8 | 1/2   | 230   | 8.75"  | 5.35" | 3.25"  | 3            | .09                  | 10               | 45 Master Packs | 9 Master Packs | 5                 |
| RLCB07-230 | 640190      | 0 10121 13096 8 | 3/4   | 230   | 9.0"   | 5.25" | 3.0"   | 3            | .08                  | 10               | 45 Master Packs | 9 Master Packs | 5                 |
| RLCB10-230 | 640191      | 0 10121 13097 5 | 1     | 230   | 9.0"   | 5.5"  | 3.5"   | 3            | .10                  | 10               | 45 Master Packs | 9 Master Packs | 5                 |
| RLCB15-230 | 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                 |



For cable size information please see the technical data section

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

## 1

### DEPTH TO THE PUMPING WATER LEVEL

- 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.

## 2

### 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.

## 3

### MINIMUM WELL DIAMETER

2½" – Jet pumps in shallow well applications (depth less than 25') should be installed using 1¼" suction piping with a foot valve.

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

### 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 Required (GPM) | Pumping Water Level in Feet |     |       |     |     |     |     |     |     |
|---------------------|-----------------------------|-----|-------|-----|-----|-----|-----|-----|-----|
|                     | 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 | I   |
| 5                   | A,D                         | A,D | A,E,G | D,G | F,G | G,H | G,H | H,I | I   |
| 6                   | A,D                         | A,D | B,E,G | D,G | G   | G,H | H   | I   | I   |
| 7                   | A,D                         | A,D | B,E,G | F,G | G,H | G,H | H   | I   | I   |
| 8                   | A,D                         | A,E | C,F,G | G   | G,H | G,H | H   | I   | I   |
| 9                   | A,D                         | A,E | C,G   | G   | G,H | G,H | I   | I   | J   |
| 10                  | A,D                         | B,E | C,G   | G,H | G,H | G,H | I   | I   | J   |
| 11                  | A,E                         | B,E | G     | G,H | H   | H   | I   | J   | J   |
| 12                  | A,E                         | C,E | G     | G,H | H   | H   | 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                         | C   |       | I   | J   |     |     |     |     |
| 16                  | C,E                         | C   |       |     |     |     |     |     |     |
| 17                  | C,E                         | C   |       |     |     |     |     |     |     |

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

| Shallow Well Jet Pumps | Convertible Jet Pumps | Deep Well Submersible Pumps |
|------------------------|-----------------------|-----------------------------|
| A = RJS-50-PREM ½ hp   | D = RJC-50 ½ hp       | G = RL12G05 ½ hp            |
| B = RJS-75-PREM ¾ hp   | E = RJC-75 ¾ hp       | H = RL12G07 ¾ hp            |
| C = RJS-100-PREM 1 hp  | F = RJC-100 1 hp      | I = RL12G10 1 hp            |
|                        |                       | J = RL12G15 1½ hp           |

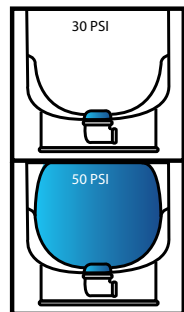


### TANK CHART

**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.



| 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                       |

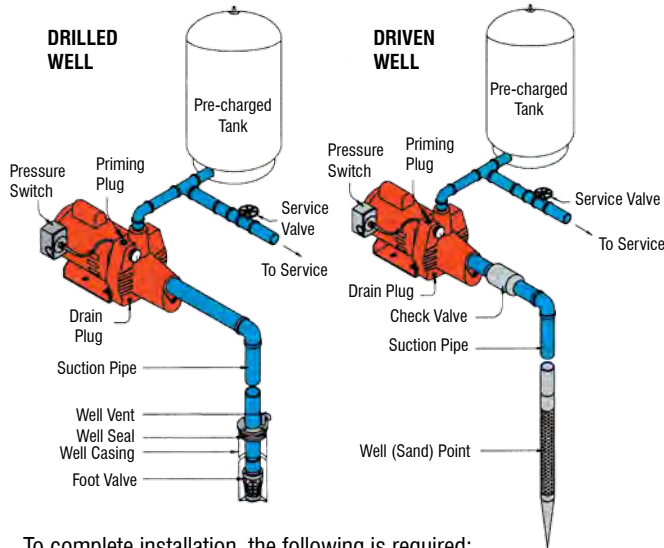


## TYPICAL INSTALLATIONS

### SHALLOW WELL JET PUMP

#### Down to 25 feet

Suitable for applications where the pumping water level does not exceed 25'. Requires a single 1¼" suction pipe. May be used in wells 2" or larger in diameter.



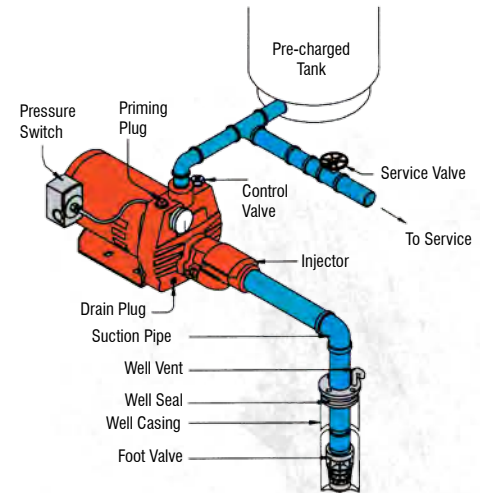
To complete installation, the following is required:

- Jet pump
- Pressure tank
- Pump to tank fittings
- 1¼" suction piping
- Foot valve or check 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 1¼" suction pipe. May be used in wells 2½" or larger in diameter.



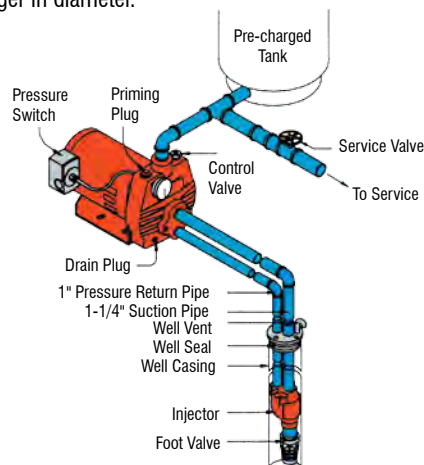
To complete installation:

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

### 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.



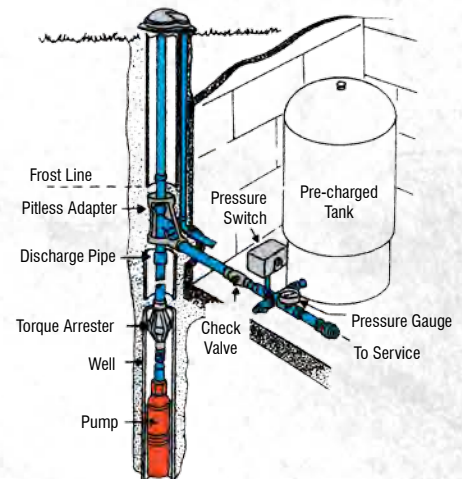
To complete installation:

- 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

### 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



**LAWN & IRRIGATION PRODUCTS**

## 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.

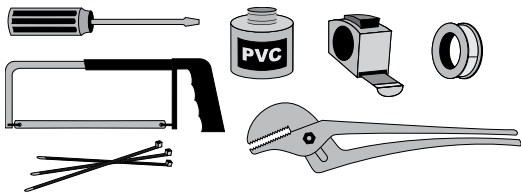
## What size sprinkler pump do you need?

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

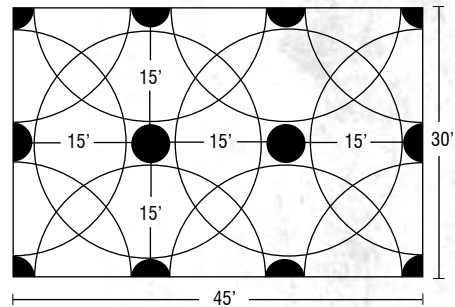
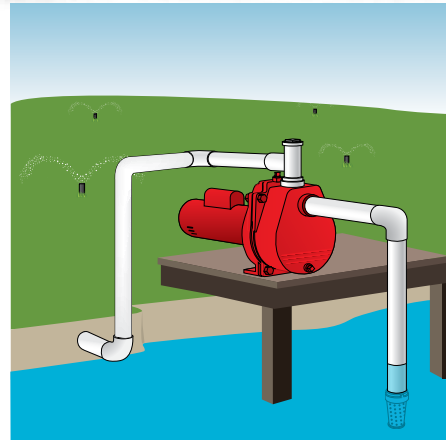
When selecting a new sprinkler pump, use the following steps to easily determine the needed size:

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

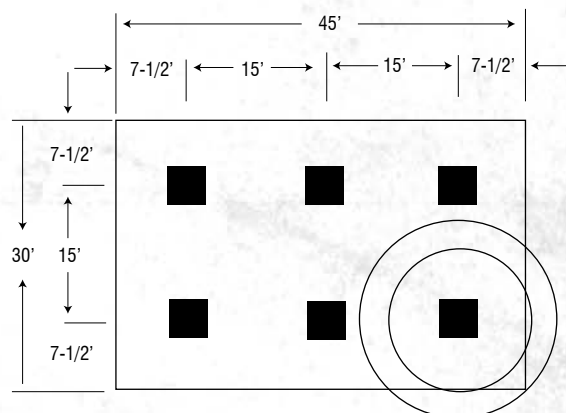


## Typical installations



### 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.

# CAST IRON SPRINKLER UTILITY PUMP

## 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

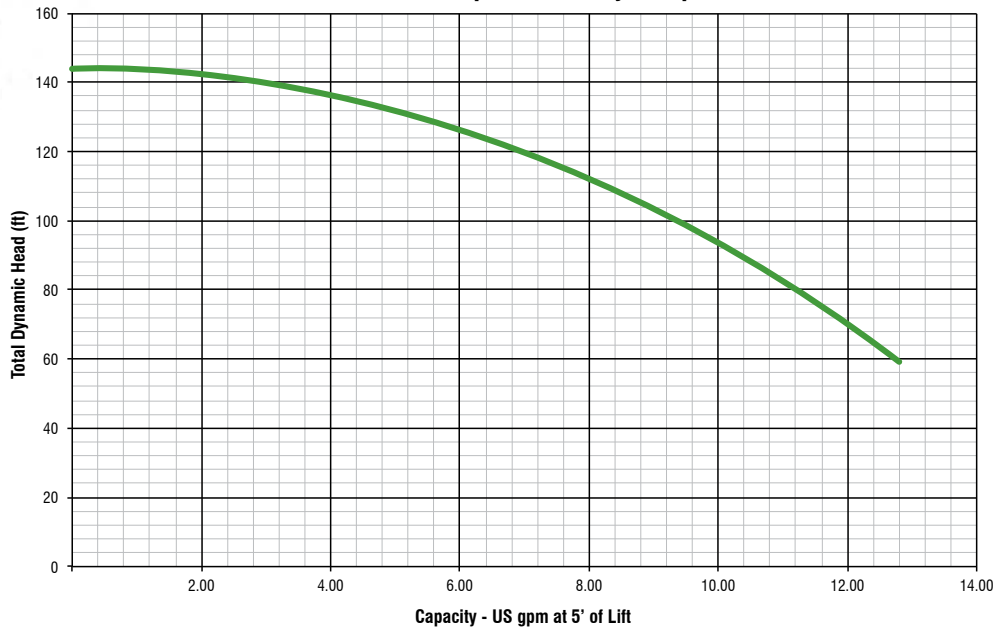


| Model   | Item Number | UPC             | HP  | Volts | Amps           | Cord Length | Intake      | Discharge | Suction Lift | Discharge Pressure (PSI) |      |      |      |      |     |     |     | Max. Pressure PSI | Max. Flow GPM |      |
|---------|-------------|-----------------|-----|-------|----------------|-------------|-------------|-----------|--------------|--------------------------|------|------|------|------|-----|-----|-----|-------------------|---------------|------|
|         |             |                 |     |       |                |             |             |           |              | 20                       | 25   | 30   | 35   | 40   | 45  | 50  | 55  |                   |               | 60   |
|         |             |                 |     |       |                |             |             |           |              | Gallons Per Minute       |      |      |      |      |     |     |     |                   |               |      |
| RJSE-50 | 614430      | 0 10121 12456 1 | 1/2 | 115   | 12.4 A @ 115 V | 8'          | 1-1/4" FNPT | 1" FNPT   | 5'           | 12.8                     | 12.5 | 12.3 | 12.1 | 11.2 | 9.5 | 6.9 | 4.3 | 2.0               | 64.2          | 12.8 |
|         |             |                 |     |       |                |             |             |           | 10'          | 11.5                     | 11.3 | 11.0 | 10.8 | 10.4 | 8.5 | 6.0 | 3.4 | 1.0               | 62.0          |      |
|         |             |                 |     |       |                |             |             |           | 15'          | 9.8                      | 9.7  | 9.6  | 9.5  | 9.4  | 7.3 | 4.7 | 2.0 | -                 | 59.9          |      |
|         |             |                 |     |       |                |             |             |           | 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 | 10"    | 20.25" | 11.5"  | 36           | 1.35                 | 32              | 8              | 4                 |

Cast Iron Sprinkler Utility Pump



# 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

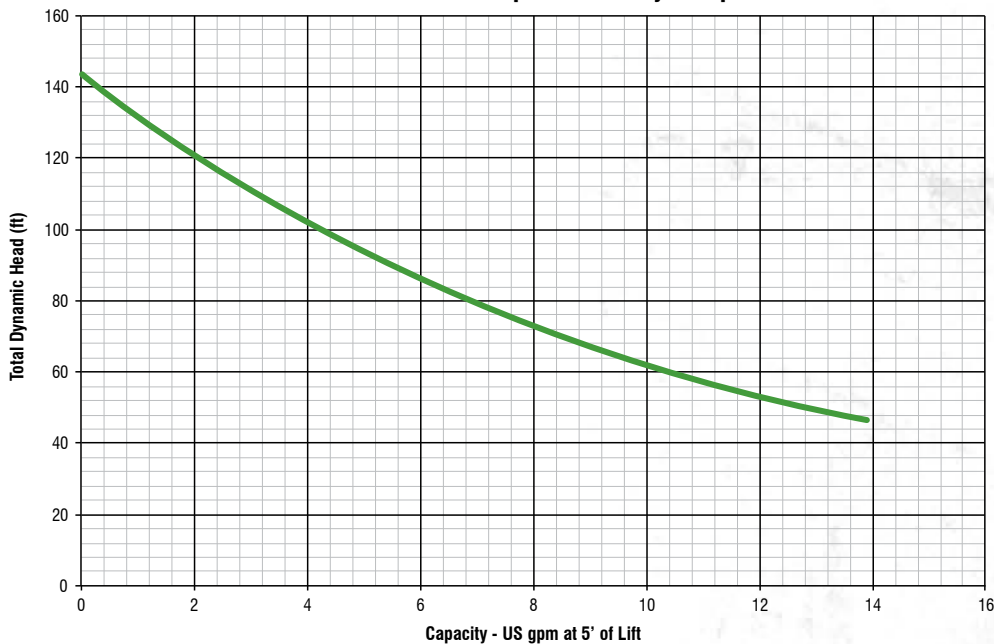


| Model     | Item Number | UPC             | HP  | Volts | Amps  | Cord Length | Intake | Discharge | Discharge Pressure PSI at 5' Lift |     |     |     |     | Max. Flow at 5' Suction Lift | Max. Pressure PSI | Max. Head FT |
|-----------|-------------|-----------------|-----|-------|-------|-------------|--------|-----------|-----------------------------------|-----|-----|-----|-----|------------------------------|-------------------|--------------|
|           |             |                 |     |       |       |             |        |           | 20                                | 30  | 40  | 50  | 60  |                              |                   |              |
|           |             |                 |     |       |       |             |        |           | Gallons Per Minute                |     |     |     |     |                              |                   |              |
| 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



# CENTRIFUGAL SELF-PRIMING SPRINKLER PUMPS

## APPLICATIONS

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

## FEATURES & BENEFITS

- 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

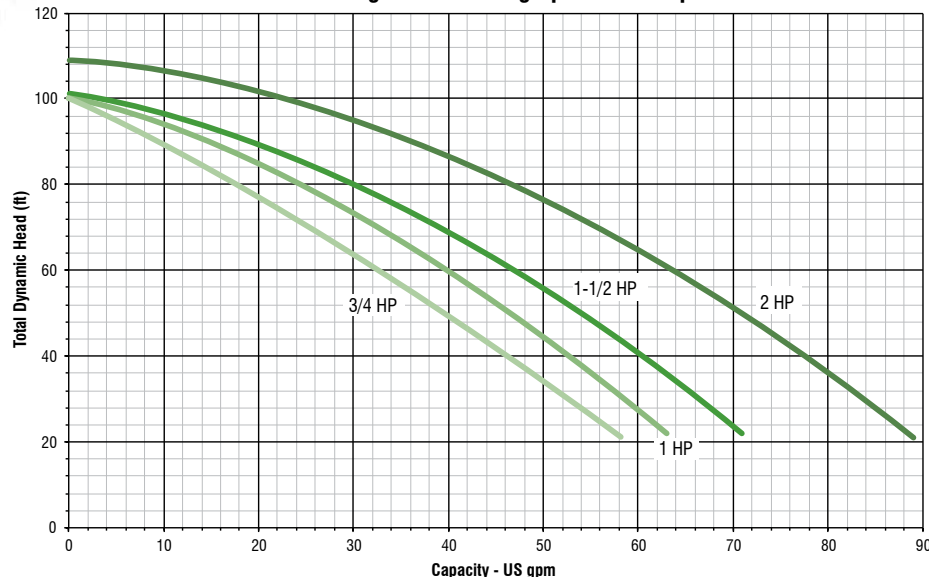


| Model        | Item Number | UPC             | HP    | Volts   | Amps                           | Intake | Discharge  | Discharge Pressure (PSI) at 5' Lift |    |    |    | Max. Pressure PSI | Max. Flow GPM |
|--------------|-------------|-----------------|-------|---------|--------------------------------|--------|------------|-------------------------------------|----|----|----|-------------------|---------------|
|              |             |                 |       |         |                                |        |            | 10                                  | 20 | 30 | 40 |                   |               |
| 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                 |

Centrifugal Self-Priming Sprinkler Pumps



# 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



\*Color of motor may vary

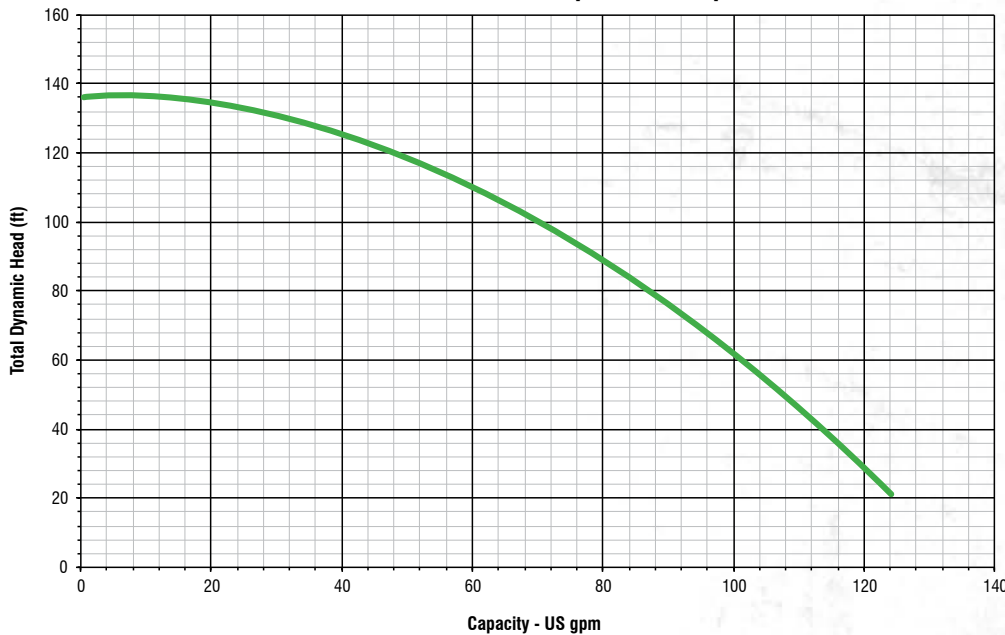
| Model    | Item Number | UPC             | HP | Volts   | Amps                           | Intake | Discharge | Discharge Pressure (PSI) at 5' Lift |     |    |    |    |    |    |                    | Max. Pressure PSI | Max. Flow GPM |  |
|----------|-------------|-----------------|----|---------|--------------------------------|--------|-----------|-------------------------------------|-----|----|----|----|----|----|--------------------|-------------------|---------------|--|
|          |             |                 |    |         |                                |        |           | 10                                  | 20  | 30 | 40 | 45 | 50 | 55 | Gallons Per Minute |                   |               |  |
|          |             |                 |    |         |                                |        |           |                                     |     |    |    |    |    |    |                    |                   |               |  |
| RLHE-300 | 614481      | 0 10121 12461 5 | 3  | 115/230 | 32 A @ 115 V<br>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) | Carton Cubes (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





# SUMP PRODUCTS



# 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.

# 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.

| HP | Light | Average | High Volume |
|----|-------|---------|-------------|
|    | 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.

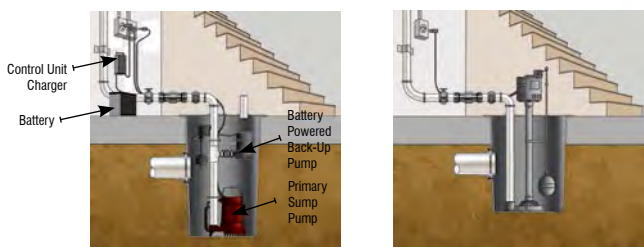


**Snap-Action Float Switch** – The snap-action float switch is a contractor-preferred switch built into the pump. It's designed for confined areas, but unlike a traditional vertical float switch, debris can't hinder operation so it is suitable for sump and effluent applications. The switch features a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

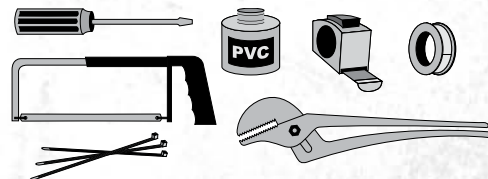
## Pump Housing

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.

# Typical Installations



## Tools needed



## THERMOPLASTIC SUMP PUMPS

### 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



RL-SP50T

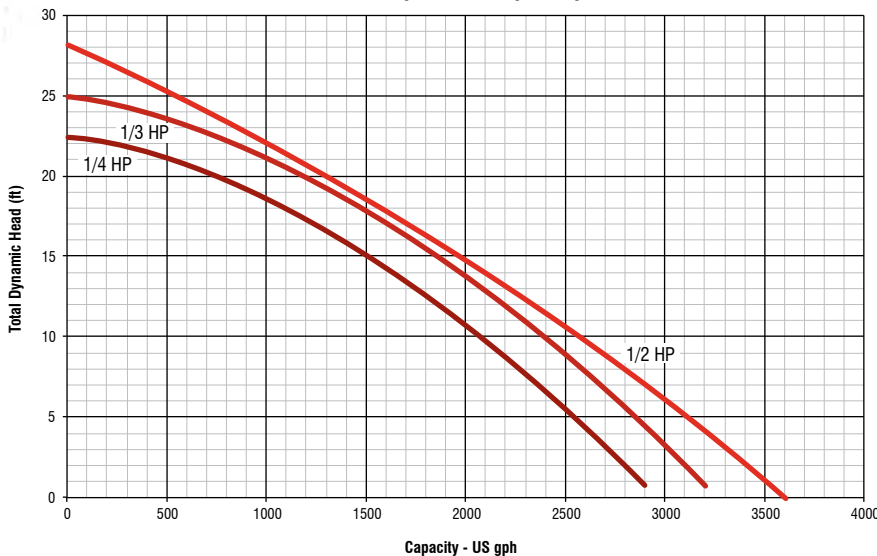
RL-SP50V

| Model    | Item Number | UPC             | HP  | Volts | Switch   | Amps | Cord Length | Gallons Per Hour at Height |      |      |      |      | Shut-Off | On/Off Levels        | Min. Basin Diameter |
|----------|-------------|-----------------|-----|-------|----------|------|-------------|----------------------------|------|------|------|------|----------|----------------------|---------------------|
|          |             |                 |     |       |          |      |             | 0'                         | 5'   | 10'  | 15'  | 20'  |          |                      |                     |
| 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                 |

Thermoplastic Sump Pumps



# CAST IRON SUMP 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 pumps
- 1-1/2" FNPT discharge
- Piggyback float switch
- Clog-resistant design (1/2" semi-solids handling)
- PSC motor
- 10' cord

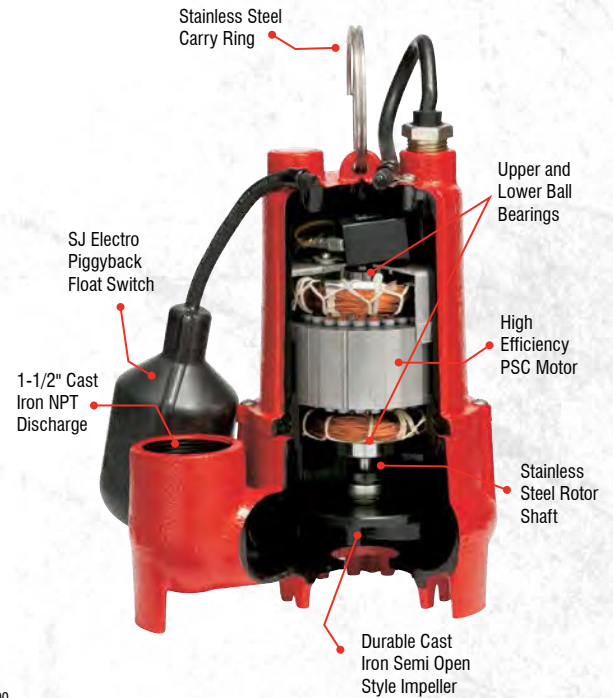
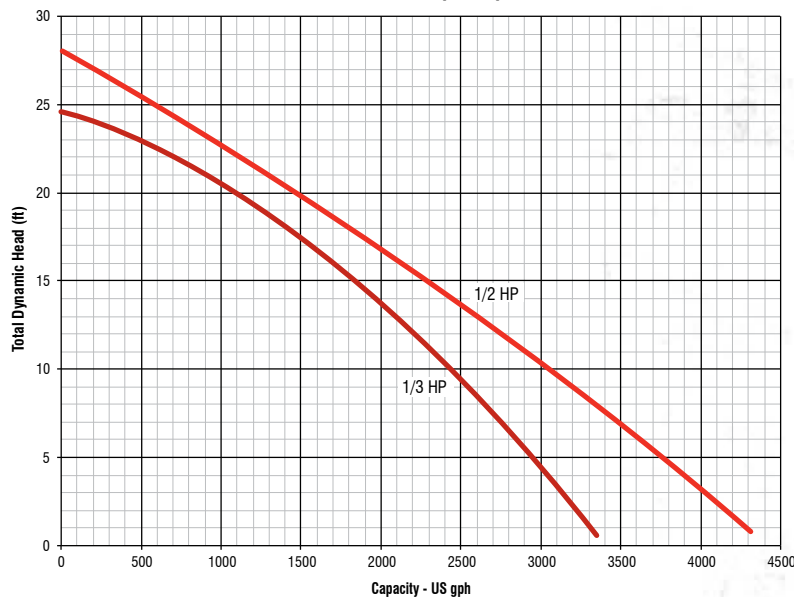


| Model    | Item Number | UPC             | HP  | Switch   | Volts | Amps | Cord Length | Gallons Per Hour at Height |      |      |      |      | Shut-Off | On/Off Levels        | Min. Basin Diameter |
|----------|-------------|-----------------|-----|----------|-------|------|-------------|----------------------------|------|------|------|------|----------|----------------------|---------------------|
|          |             |                 |     |          |       |      |             | 0'                         | 5'   | 10'  | 15'  | 20'  |          |                      |                     |
| 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                 |

Cast Iron Sump Pumps



## 1/3 HP DUAL CAST IRON SUMP PUMP SYSTEM

### 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

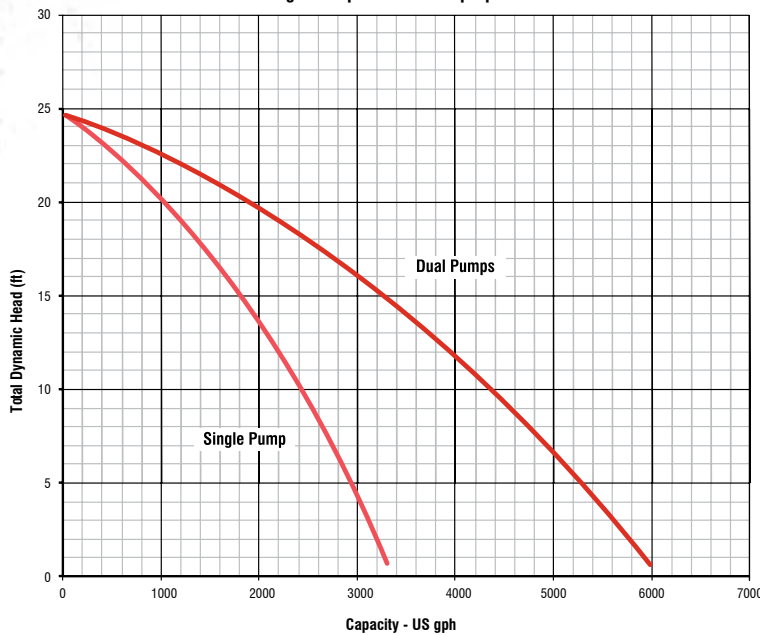
- Dual automatic submersible sump pumps
- Pre-assembled piping and check valves included
- Maximum head of 25' feet
- 10' power cord
- 1-1/2" FNPT discharges
- Piggyback float switches
- Clog-resistant design (1/2" semi-solids handling)
- PSC motors



| Model      | Item Number | UPC             | HP  | Volts | Switch   | Discharge   | Cord Length | Operation                | Gallons Per Hour at Height |              |              |              |             | Shut-Off | On/Off Levels           | Min. Basin Diameter |
|------------|-------------|-----------------|-----|-------|----------|-------------|-------------|--------------------------|----------------------------|--------------|--------------|--------------|-------------|----------|-------------------------|---------------------|
|            |             |                 |     |       |          |             |             |                          | 0'                         | 5'           | 10'          | 15'          | 20'         |          |                         |                     |
| RL-SC33DUP | 14942771    | 0 10121 14606 8 | 1/3 | 115   | Vertical | 1-1/2" FNPT | 10'         | Single Pump<br>Dual Pump | 3350<br>6000               | 3000<br>5400 | 2460<br>4425 | 1860<br>3345 | 960<br>1725 | 25'      | On: 7.25"<br>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                 |

Single Pump vs. Dual Pump Operation



\*Friction loss in pipe not included

# 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

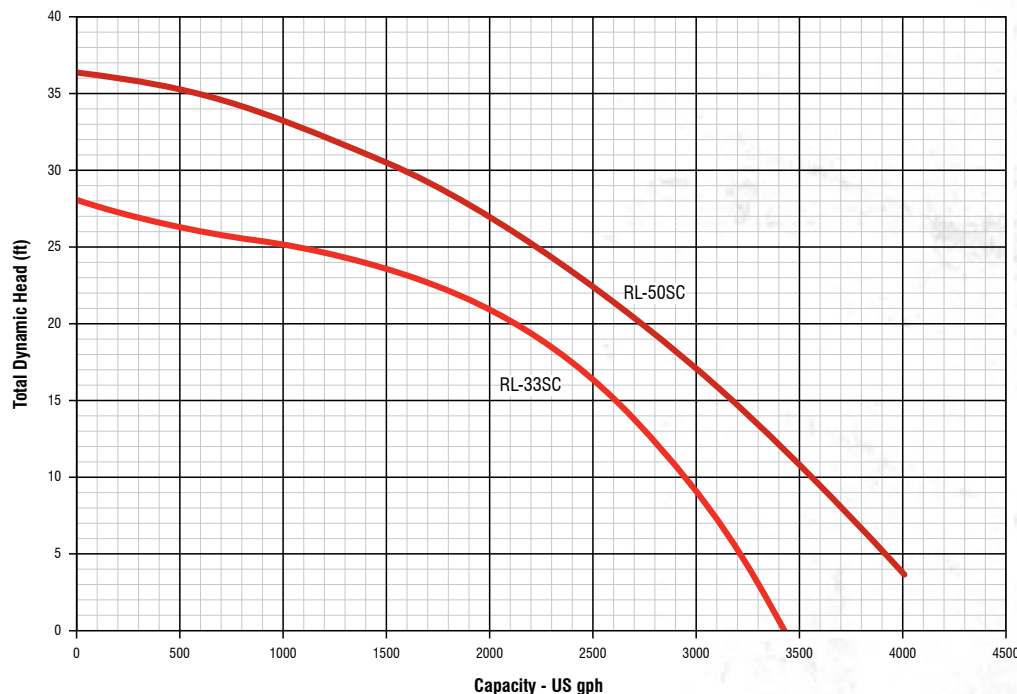


| Model   | Item Number | UPC             | HP  | Volts | Amps | Discharge   | Cord Length | Gallons Per Hour at Height |      |      |      |      | Shut-Off | On/Off Levels                | Basin Diameter |
|---------|-------------|-----------------|-----|-------|------|-------------|-------------|----------------------------|------|------|------|------|----------|------------------------------|----------------|
|         |             |                 |     |       |      |             |             | 5'                         | 10'  | 15'  | 20'  | 30'  |          |                              |                |
| RL-33SC | 14942652    | 0 10121 14579 5 | 1/3 | 115   | 5    | 1-1/2" FNPT | 10'         | 3200                       | 3000 | 2500 | 2200 | -    | 28'      | On: 8" - 11"<br>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"<br>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 | 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**



## PREMIUM SUBMERSIBLE STAINLESS STEEL SUMP PUMPS

### 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

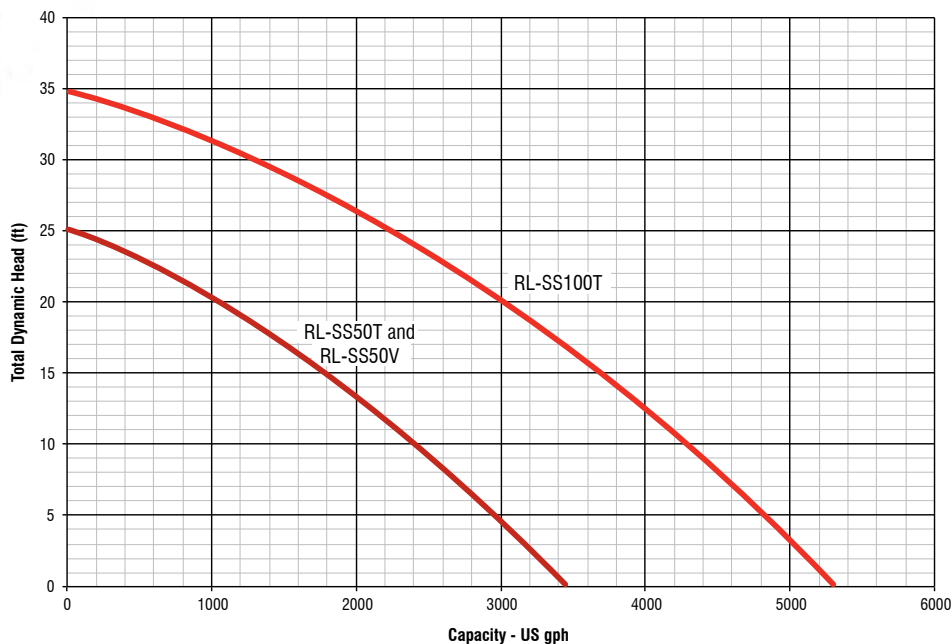


| Model     | Item Number | UPC             | HP  | Volts | Switch   | Discharge                                  | Amps | Cord Length | Gallons Per Hour at Height |      |      |      |      |      | Shut-Off | On/Off Levels                         | Min. Basin Diameter |
|-----------|-------------|-----------------|-----|-------|----------|--|------|-------------|----------------------------|------|------|------|------|------|----------|---------------------------------------|---------------------|
|           |             |                 |     |       |          |  |      |             | 0'                         | 5'   | 10'  | 15'  | 20'  | 30'  |          |                                       |                     |
| 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"<br>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"<br>Off: 5.5" – 6.5" | 18" or more         |
| RL-SS100T | 14942782    | 0 10121 14438 5 | 1   | 115   | Tethered | 2" FNPT<br>1-1/2" FNPT<br>adapter included | 8    | 20'         | 5300                       | 4800 | 4300 | 3700 | 3000 | 1300 | 35'      | On: 15" – 18"<br>Off: 7" – 10"        | 18" or more         |

### Carton Specifications

| Model     | Length | Width | Height | Weight (lbs) | 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



SC33PED



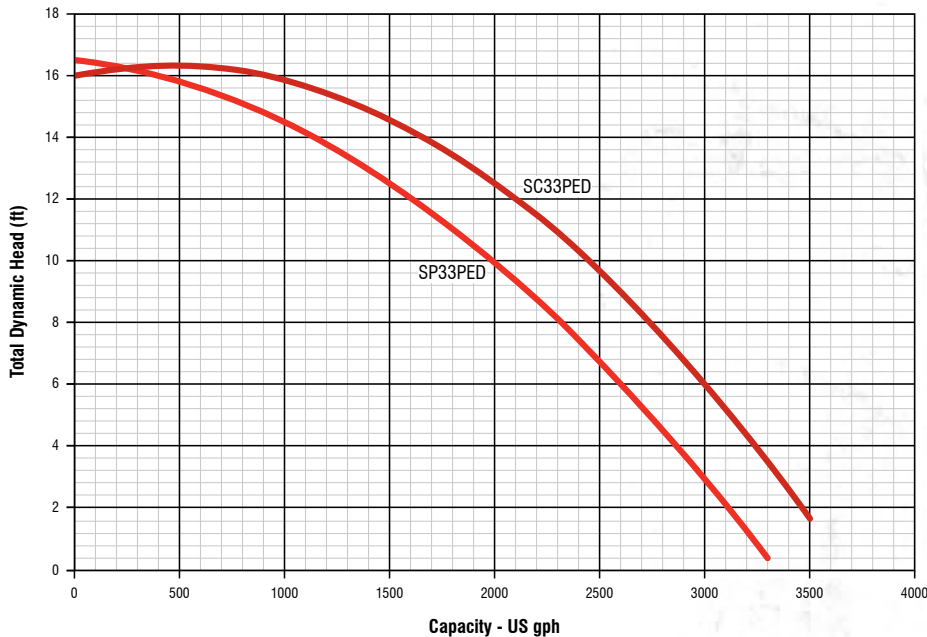
SP33PED

| Model   | Item Number | UPC             | HP  | Volts | Discharge   | Amps | Cord Length | Construction  | Gallons Per Hour at Height |      |      |     | Shut-Off | Min. Basin Diameter |
|---------|-------------|-----------------|-----|-------|-------------|------|-------------|---------------|----------------------------|------|------|-----|----------|---------------------|
|         |             |                 |     |       |             |      |             |               | 0'                         | 5'   | 10'  | 15' |          |                     |
| 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

| Model   | Retail Carton |       |        | Protective Outer Carton |       |        | Weight (lbs) | Carton Cubes (cu ft) | Pallet Quantity | Qty. per Layer | Layers per Pallet |
|---------|---------------|-------|--------|-------------------------|-------|--------|--------------|----------------------|-----------------|----------------|-------------------|
|         | Length        | Width | Height | Length                  | Width | Height |              |                      |                 |                |                   |
| 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



## UNDER SINK SUMP PACKAGE

### 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

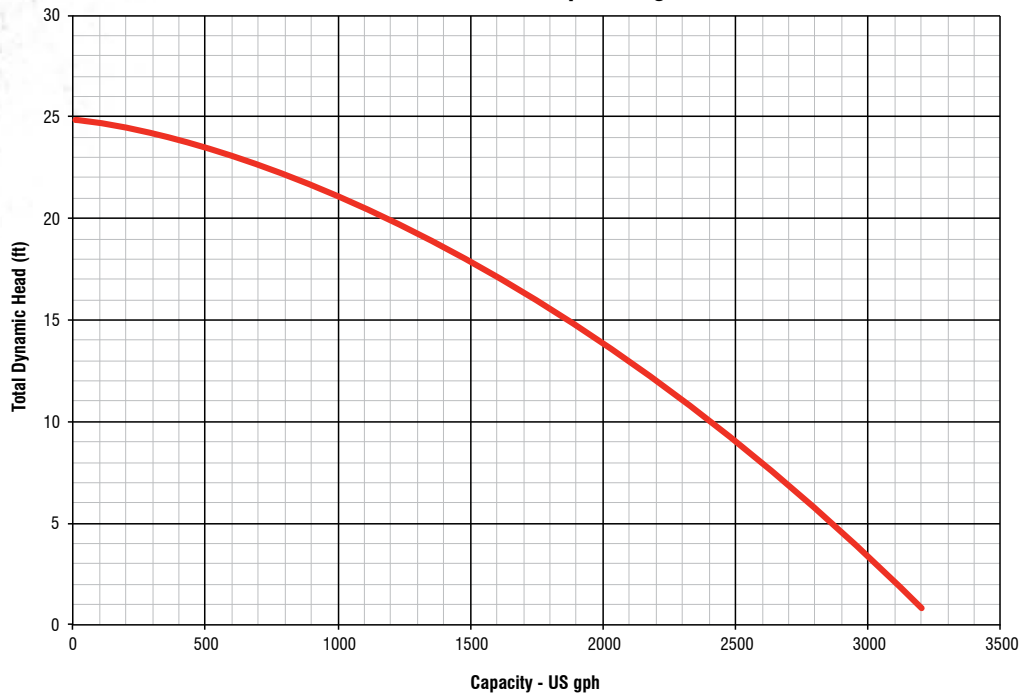


| Model    | Item Number | UPC             | HP  | Switch   | Volts | Discharge   | Vent        | Amps | Cord Length | Gallons Per Hour at Height |      |      |      |      | Shut-Off | Basin Size |
|----------|-------------|-----------------|-----|----------|-------|-------------|-------------|------|-------------|----------------------------|------|------|------|------|----------|------------|
|          |             |                 |     |          |       |             |             |      |             | 0'                         | 5'   | 10'  | 15'  | 20'  |          |            |
| 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"    | 15"   | 13.5"  | 18.5         | 1.76                 | 18              | 6              | 3                 |

Under Sink Sump Package





# 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

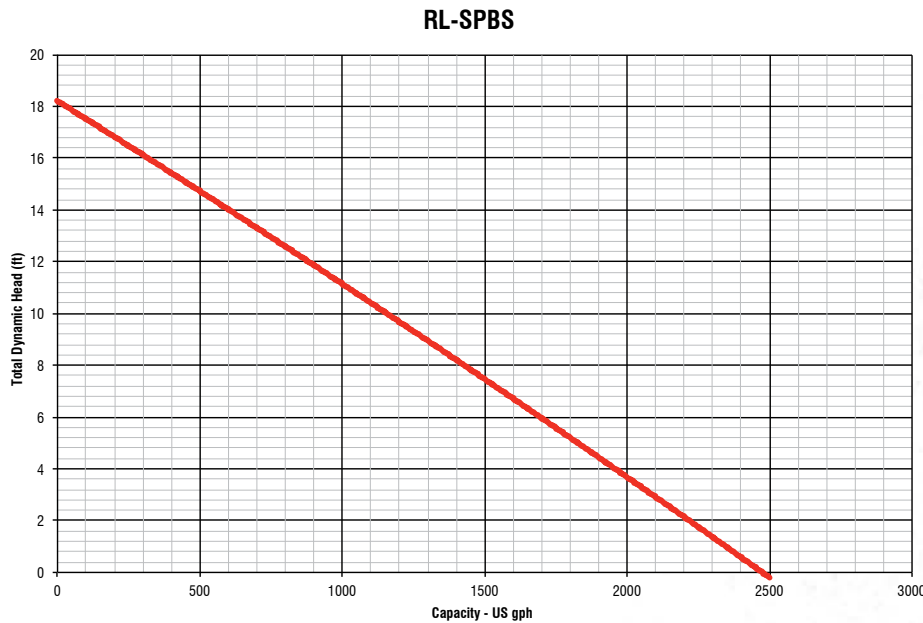


\*Not for sale in California

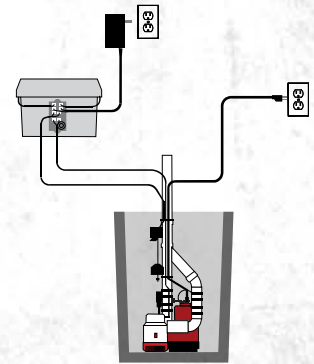
| Model   | Item Number | UPC             | Switch   | Volts                           | Discharge | Amps | Cord Length | Gallons Per Hour at Height |      |      |     | Shut-Off | Basin Diameter |
|---------|-------------|-----------------|----------|---------------------------------|-----------|------|-------------|----------------------------|------|------|-----|----------|----------------|
|         |             |                 |          |                                 |           |      |             | 0'                         | 5'   | 10'  | 15' |          |                |
| RL-SPBS | 14942790    | 0 10121 14655 6 | Vertical | Pump: 12 V DC<br>Charger: 120 V | 1-1/2"    | 14   | Charger: 6' | 2500                       | 1750 | 1200 | 500 | 18'      | 11" or more    |

## Carton Specifications

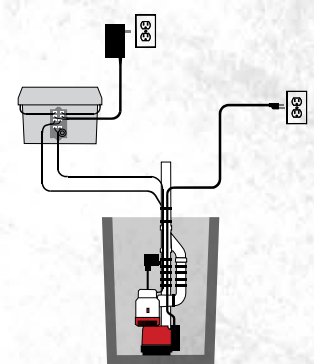
| Model   | Length | Width  | Height | Weight (lbs) | Carton Cubes (cu ft) | Pallet Quantity | Qty. per Layer | Layers per Pallet |
|---------|--------|--------|--------|--------------|----------------------|-----------------|----------------|-------------------|
| RL-SPBS | 15.25" | 15.25" | 13.5" 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



Regular Installation



Alternate Installation





**EFFLUENT/SEWAGE PRODUCTS**

## 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 1/2" 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.

## Typical installations

Figure 1

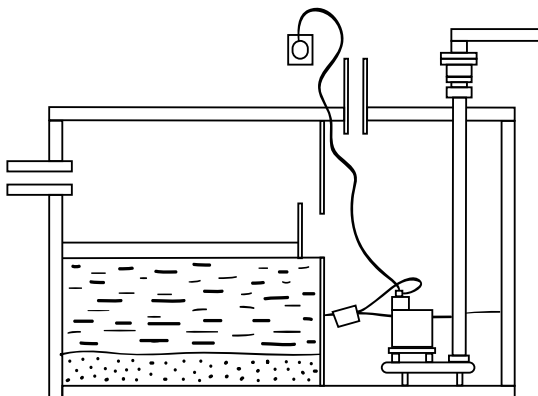
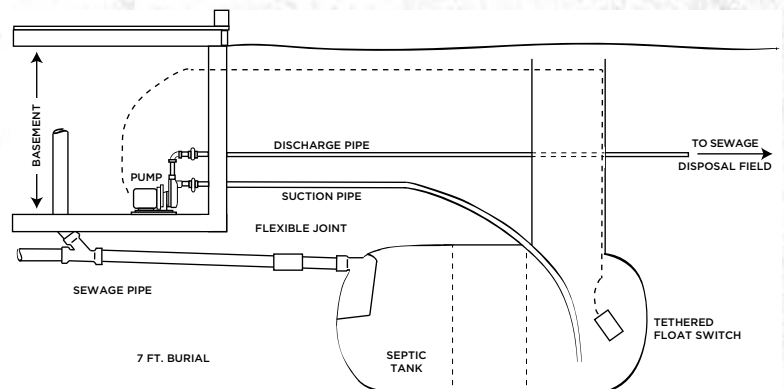


Figure 2

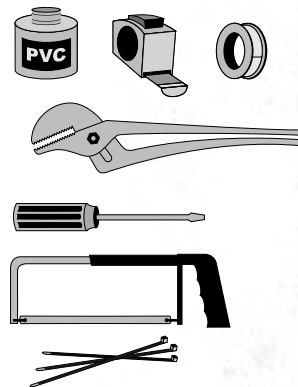


## Replacing an existing effluent pump

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



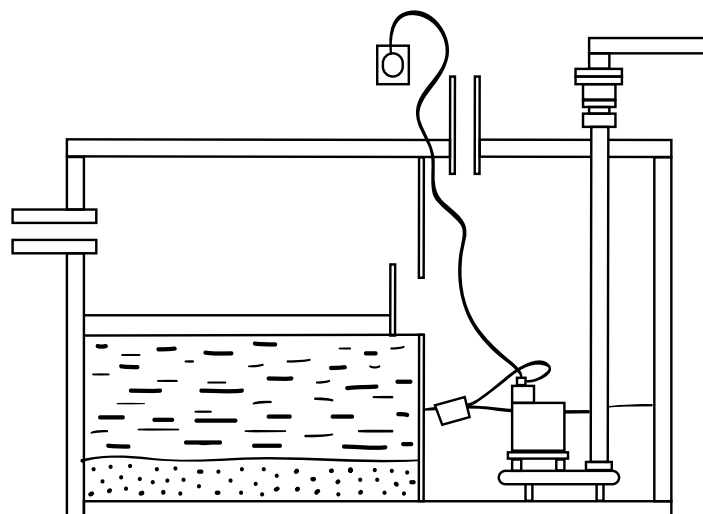
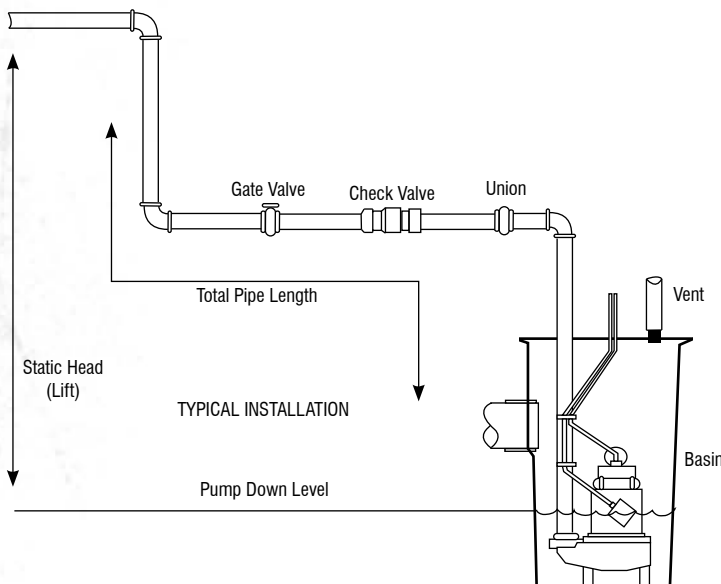
## What is a sewage pump?

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.

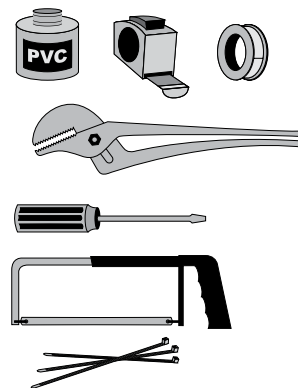
## Typical installations



## 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.
2. 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.
3. 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



# 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

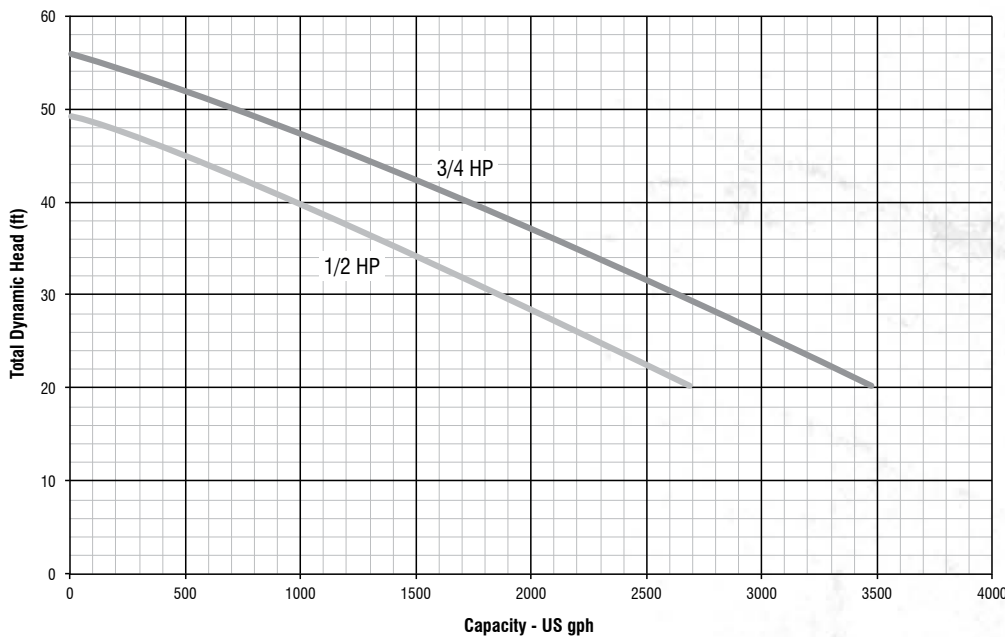


| Model  | Item Number | UPC             | HP  | Volts   | Discharge   | Cord Length | Gallons Per Hour at Height |      |      |     | Shut-Off | Max. Pressure PSI |
|--------|-------------|-----------------|-----|---------|-------------|-------------|----------------------------|------|------|-----|----------|-------------------|
|        |             |                 |     |         |             |             | 20'                        | 30'  | 40'  | 50' |          |                   |
| 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
- 1-1/2" FNPT discharge
- Piggyback float switch
- Clog-resistant design (1/2" semi-solids handling)
- PSC motor
- 10' cord

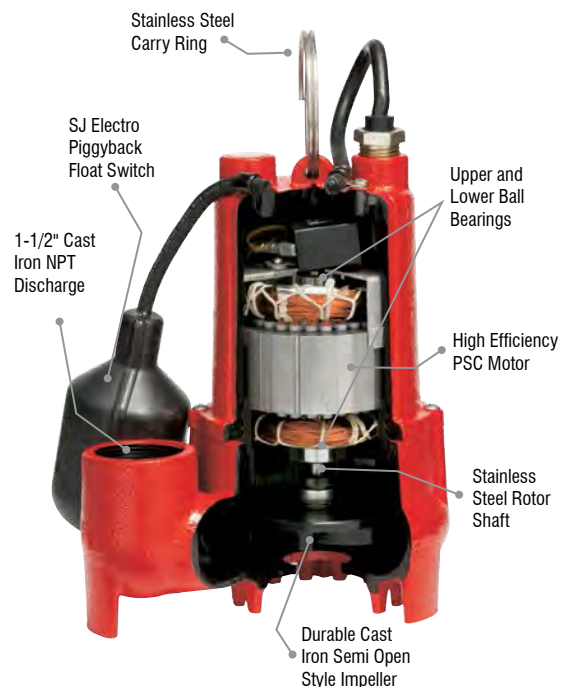
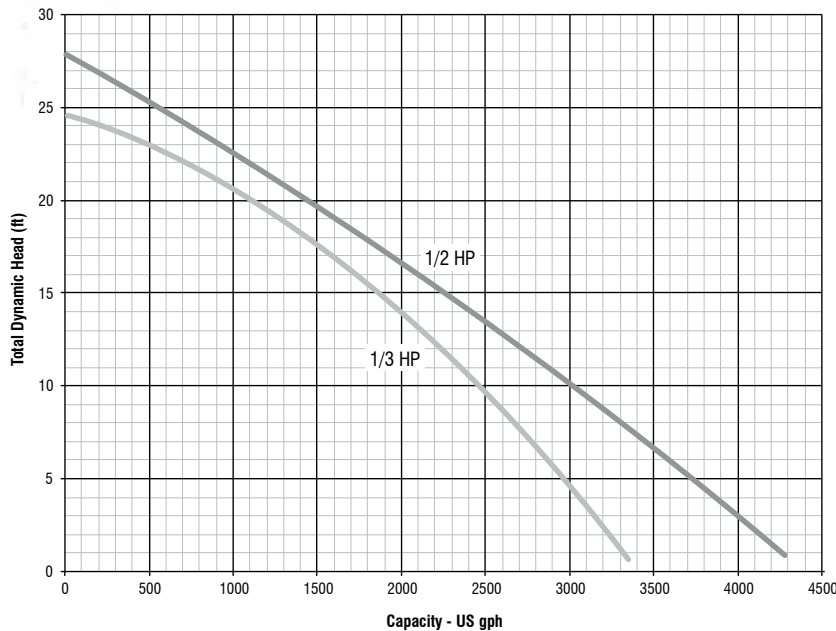


| Model    | Item Number | UPC             | HP  | Switch   | Volts | Amps  | Discharge   | Cord Length | Gallons Per Hour at Height |      |      |      |      | Shut-Off | Basin Diameter |
|----------|-------------|-----------------|-----|----------|-------|-------|-------------|-------------|----------------------------|------|------|------|------|----------|----------------|
|          |             |                 |     |          |       |       |             |             | 0'                         | 5'   | 10'  | 15'  | 20'  |          |                |
| 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 | 7.25"  | 8.75" | 13"    | 20           | 0.48                 | 81              | 27             | 3                 |
| RL-SC50T | 7.25"  | 8.75" | 13"    | 20           | 0.48                 | 75              | 25             | 3                 |

Cast Iron Sump/Effluent Pumps



# 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

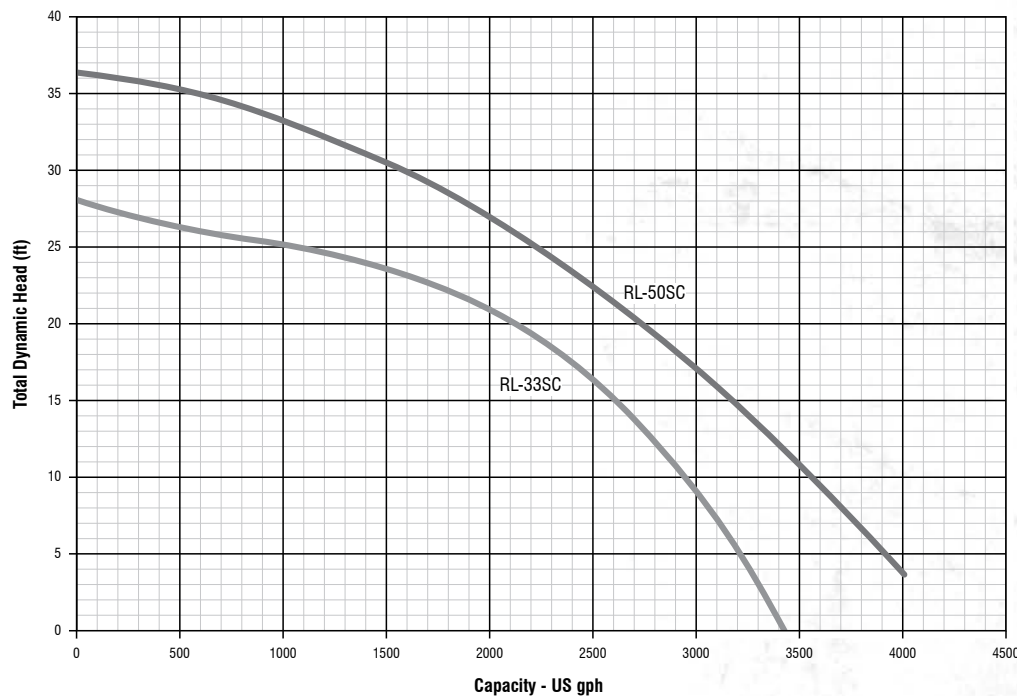


| Model   | Item Number | UPC             | HP  | Volts | Amps | Discharge   | Cord Length | Gallons Per Hour at Height |      |      |      |      | Shut-Off | On/Off Levels              | Basin Diameter |
|---------|-------------|-----------------|-----|-------|------|-------------|-------------|----------------------------|------|------|------|------|----------|----------------------------|----------------|
|         |             |                 |     |       |      |             |             | 5'                         | 10'  | 15'  | 20'  | 30'  |          |                            |                |
| RL-33SC | 14942652    | 0 10121 14579 5 | 1/3 | 115   | 5    | 1-1/2" FNPT | 10'         | 3200                       | 3000 | 2500 | 2200 | -    | 28'      | On: 8 - 11"<br>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"<br>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 | 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**



## PREMIUM SUBMERSIBLE STAINLESS STEEL SUMP/EFFLUENT PUMPS

### 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

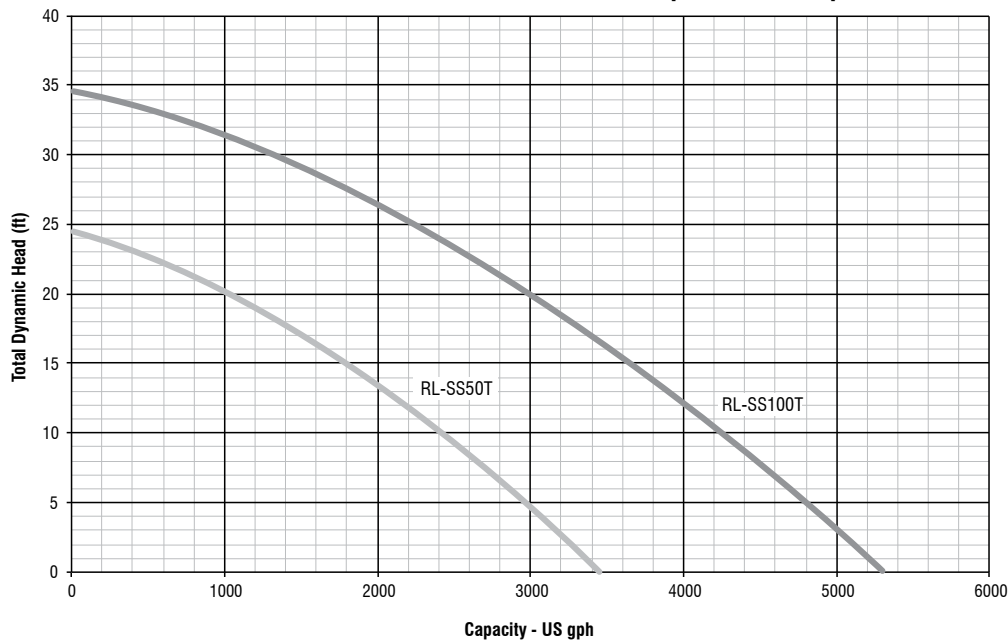


| Model     | Item Number | UPC             | HP  | Volts | Amps | Discharge                               | Cord Length | Gallons Per Hour at Height |      |      |      |      |      | Shut-Off | Min. Basin Diameter | On/Off Levels                         |
|-----------|-------------|-----------------|-----|-------|------|---|-------------|----------------------------|------|------|------|------|------|----------|---------------------|---------------------------------------|
|           |             |                 |     |       |      |   |             | 0'                         | 5'   | 10'  | 15'  | 20'  | 30'  |          |                     |                                       |
| 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"<br>Off: 5.5" – 6.5" |
| RL-SS100T | 14942782    | 0 10121 14438 5 | 1   | 115   | 8    | 2" FNPT<br>1-1/2" FNPT adapter included | 20'         | 5300                       | 4800 | 4300 | 3700 | 3000 | 1300 | 35'      | 18" or more         | On: 15" – 18"<br>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                 |

Premium Submersible Stainless Steel Sump/Effluent Pumps





# HEAVY-DUTY CAST IRON EFFLUENT PUMP

## 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

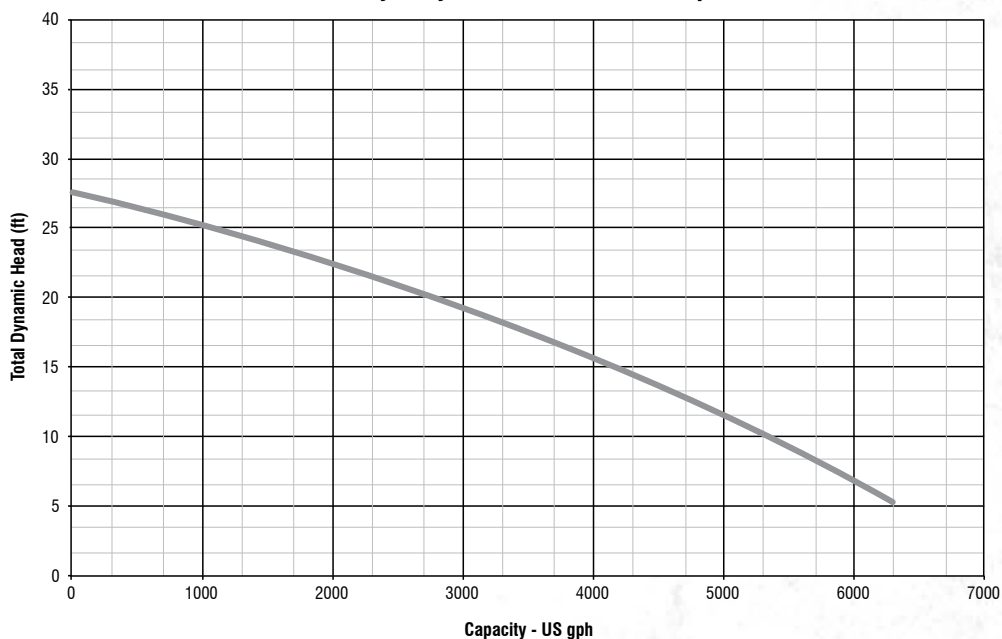


| Model  | Item Number | UPC             | HP  | Amps | Volts | Discharge | Cord Length | Gallons Per Hour at Height |      |      |      |     | Shut-Off | Min. Basin Diameter |
|--------|-------------|-----------------|-----|------|-------|-----------|-------------|----------------------------|------|------|------|-----|----------|---------------------|
|        |             |                 |     |      |       |           |             | 5'                         | 10'  | 15'  | 20'  | 25' |          |                     |
| 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                 |

**Heavy-Duty Cast Iron Effluent Pump**



## 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
- 10' power cord

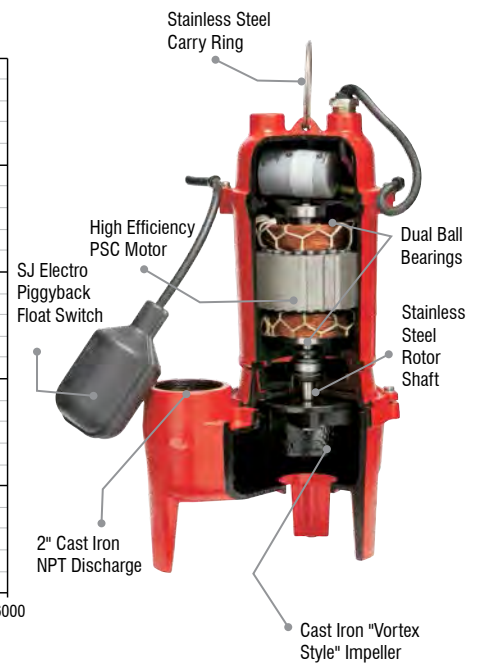
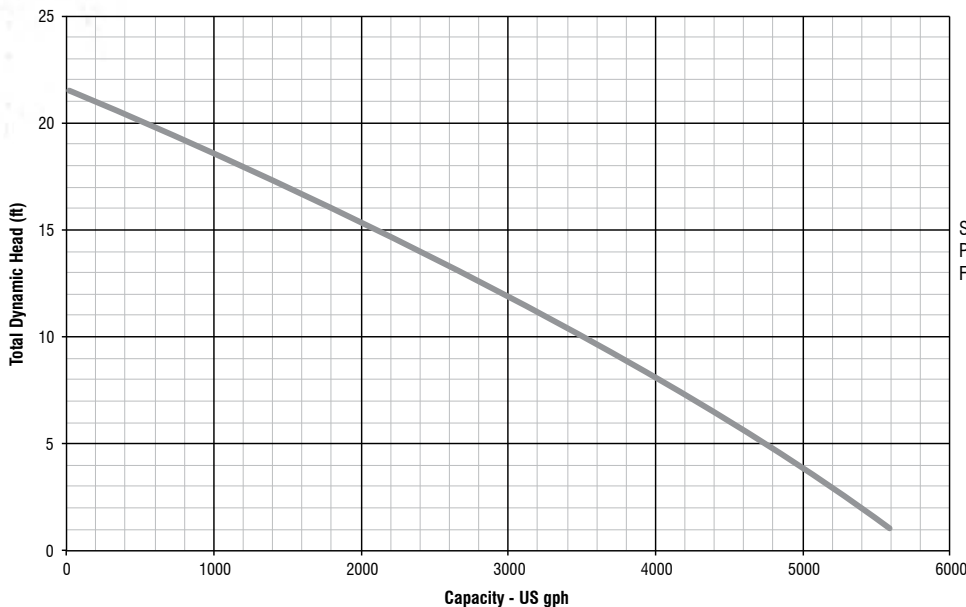


| Model     | Item Number | UPC             | HP  | Volts | Amps | Discharge | Cord Length | Gallons Per Hour at Height |      |      |      |     | Shut-Off | On/Off Levels       | Min. Basin Diameter |
|-----------|-------------|-----------------|-----|-------|------|-----------|-------------|----------------------------|------|------|------|-----|----------|---------------------|---------------------|
|           |             |                 |     |       |      |           |             | 0'                         | 5'   | 10'  | 15'  | 20' |          |                     |                     |
| RL-WC50TA | 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                 |

**Cast Iron Sewage Pump**



# 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

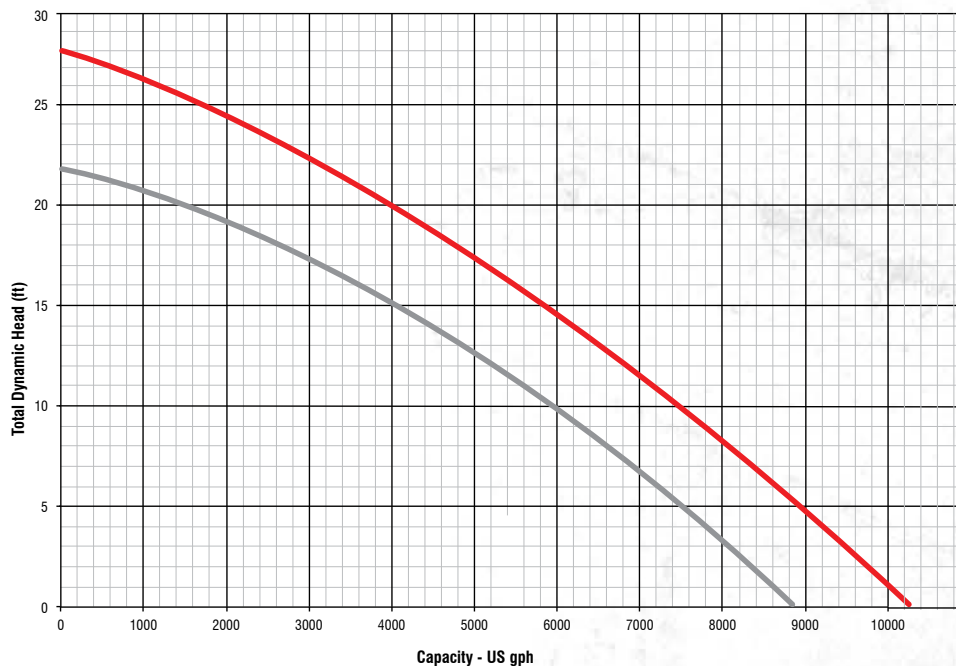


| Model   | Item Number | UPC             | HP  | Volts | Amps | Discharge | Cord Length | Gallons Per Hour at Height |      |      |      |      |      | Shut-Off | On/Off Levels                | Min. Basin Diameter |
|---------|-------------|-----------------|-----|-------|------|-----------|-------------|----------------------------|------|------|------|------|------|----------|------------------------------|---------------------|
|         |             |                 |     |       |      |           |             | 0'                         | 5'   | 10'  | 15'  | 20'  | 25'  |          |                              |                     |
| RL52WAM | 620051      | 0 10121 13855 1 | 1/2 | 115   | 11.4 | 2" FNPT   | 20'         | 9000                       | 7200 | 6000 | 4500 | 960  | -    | 22'      | On: 16" -18"<br>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"<br>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

## 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

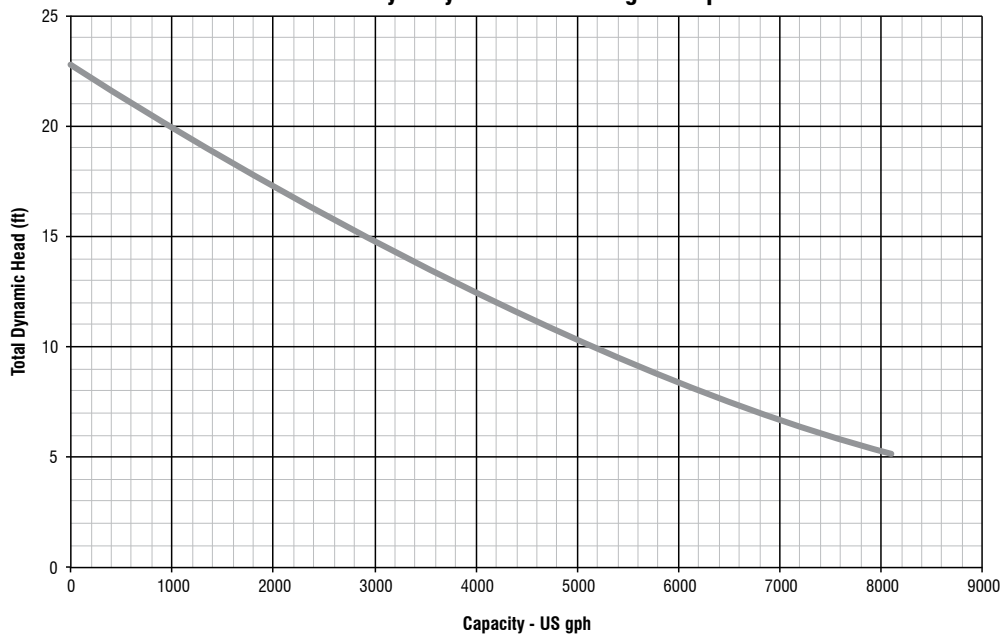


| Model  | Item Number | UPC             | HP  | Amps | Volts | Discharge | Cord Length | Gallons Per Hour at Height |      |      |     | Shut-Off | Min. Basin Diameter |
|--------|-------------|-----------------|-----|------|-------|-----------|-------------|----------------------------|------|------|-----|----------|---------------------|
|        |             |                 |     |      |       |           |             | 5'                         | 10'  | 15'  | 20' |          |                     |
| 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                 |

**Heavy-Duty Cast Iron Sewage Pump**



# 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



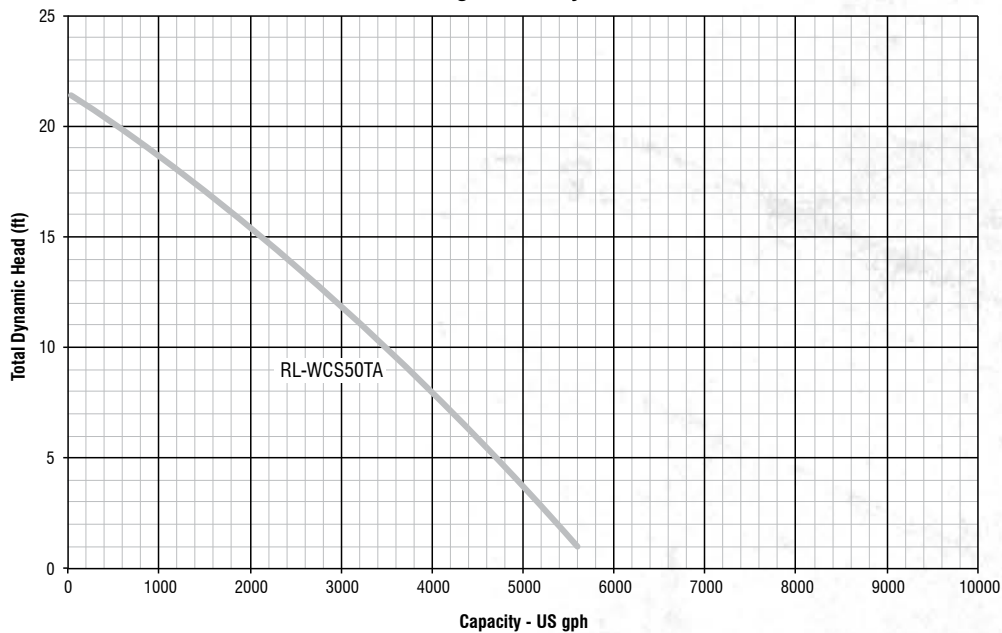
RL-WCS50TA

| Model      | Item Number | UPC             | HP  | Amps | Volts | Discharge | Cord Length | Gallons Per Hour at Height |      |      |      |     | Shut-Off | On/Off Levels       | Assembly Required |
|------------|-------------|-----------------|-----|------|-------|-----------|-------------|----------------------------|------|------|------|-----|----------|---------------------|-------------------|
|            |             |                 |     |      |       |           |             | 0'                         | 5'   | 10'  | 15'  | 20' |          |                     |                   |
| 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                 |

## Sewage Basin Systems





**MULTI-PURPOSE PRODUCTS**

# General specifications

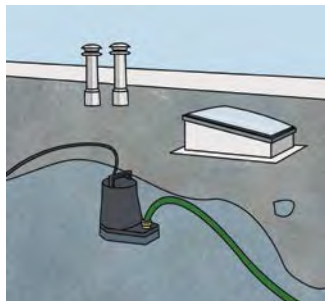
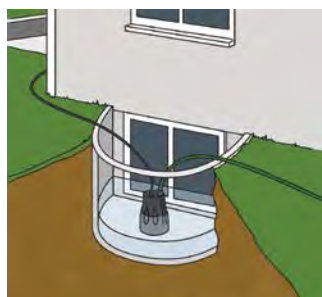
Whether selecting a submersible or non-submersible, emergency or permanent use multi-purpose pump, rest assured that your Red Lion pump is crafted to perform and last.

## 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:

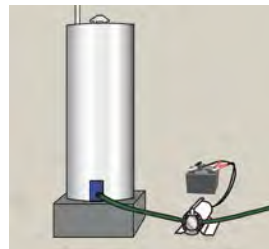
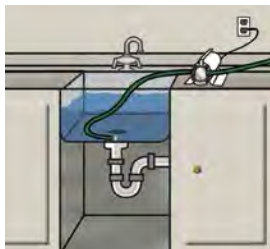
Removing or transferring water from basements, rooftops, hot tubs, crawl spaces, and general dewatering

**Models: MP16, MP25, MP25A, RL50CON**



Draining waterbeds, hot water tanks, appliances, aquariums, and other emergency dewatering needs

**Models: MPFVK115, MPFV12, MPDP, MPTC**



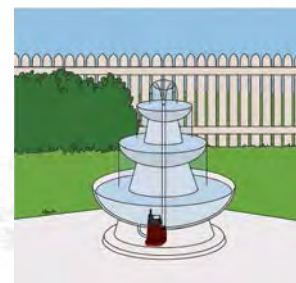
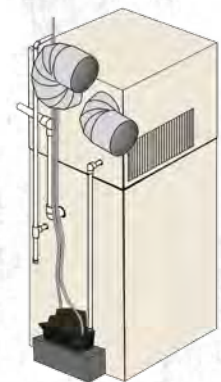
Boosting household water pressure for washing vehicles, sidewalks, and driveways, or for use in general water transfer applications

**Model: MPTC**



Removing condensation build-up from air handlers, boilers, furnaces, ice makers, and dehumidifiers

**Models: C15, C20ST**

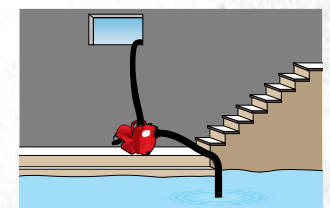
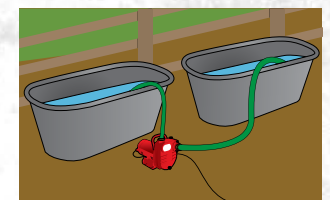


Dewatering and water feature applications

**Models: RL-160U, RL-250U, RL50CON**

Pumping out flooded basements, livestock watering, flood irrigation, and general dewatering

**Model: RL-50, RL50CON**



## THERMOPLASTIC UTILITY PUMPS

### 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

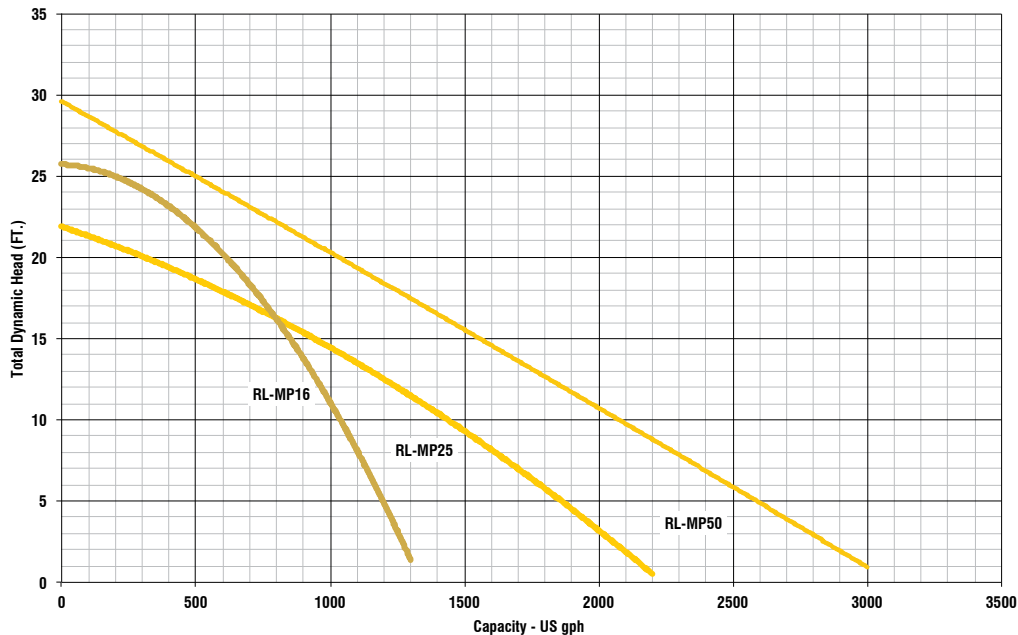


| Model   | Item Number | UPC             | HP  | Amps | Volts | Discharge               | Intake          | Cord Length | Gallons Per Hour at Height |      |      |      |     | Shut-Off |
|---------|-------------|-----------------|-----|------|-------|-------------------------|-----------------|-------------|----------------------------|------|------|------|-----|----------|
|         |             |                 |     |      |       |                         |                 |             | 0'                         | 5'   | 10'  | 15'  | 20' |          |
| RL-MP16 | 14942731    | 0 10121 14154 4 | 1/6 | 2    | 115   | 1" MNPT<br>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<br>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<br>3/4" GHT | Screened Bottom | 8'          | 3000                       | 2671 | 2158 | 1543 | 930 | 30'      |

### Carton Specifications

| 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

RL-250U

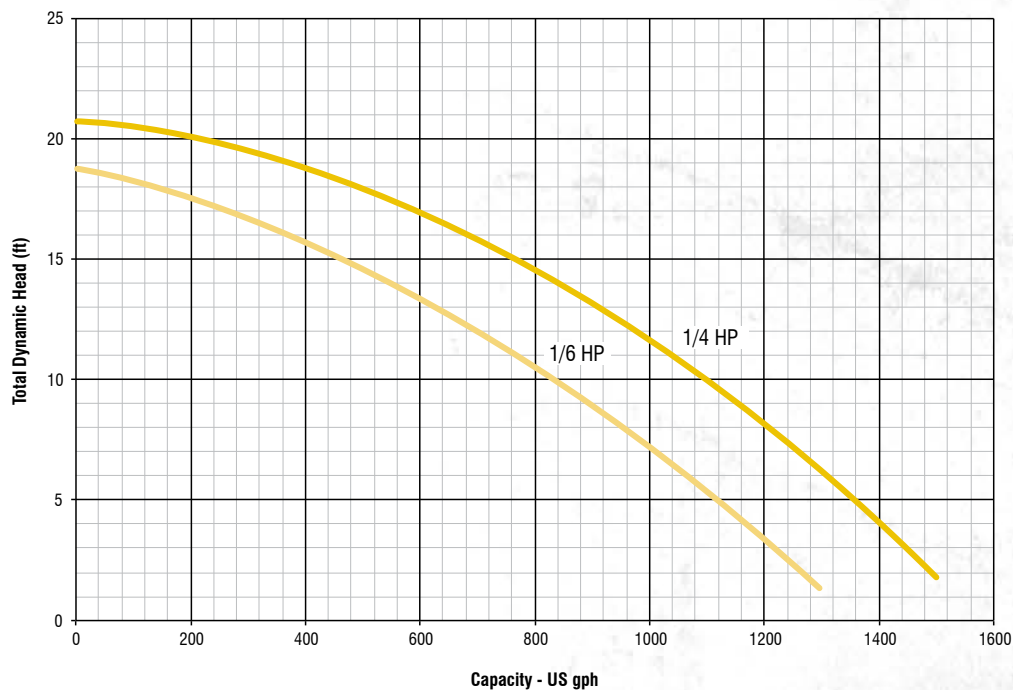
| Model   | Item Number | UPC             | HP  | Amps | Volts | Discharge        | Intake          | Cord Length | Gallons Per Hour at Height |      |      |     |     | Shut-Off |
|---------|-------------|-----------------|-----|------|-------|------------------|-----------------|-------------|----------------------------|------|------|-----|-----|----------|
|         |             |                 |     |      |       |                  |                 |             | 0'                         | 5'   | 10'  | 15' | 20' |          |
| 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'      |
| RL-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

### Master Pack Specifications

| Model   | Length | Width | Height | Weight (lbs) | Carton Cubes (cu ft) | Master Pack Qty. | Model   | Length | Width  | Height | Weight (lbs) | Carton Cubes (cu ft) | Pallet Quantity | Qty. per Layer | Layers per Pallet |
|---------|--------|-------|--------|--------------|----------------------|------------------|---------|--------|--------|--------|--------------|----------------------|-----------------|----------------|-------------------|
| RL-160U | 6"     | 6"    | 12"    | 9            | 0.25                 | 6                | RL-160U | 18.75" | 12.75" | 13"    | 54           | 1.80                 | 21 Master Packs | 7 Master Packs | 3                 |
| RL-250U | 6"     | 6"    | 12"    | 9.5          | 0.25                 | 6                | RL-250U | 18.75" | 12.75" | 13"    | 57           | 1.80                 | 21 Master Packs | 7 Master Packs | 3                 |

### Aluminum Utility Pumps



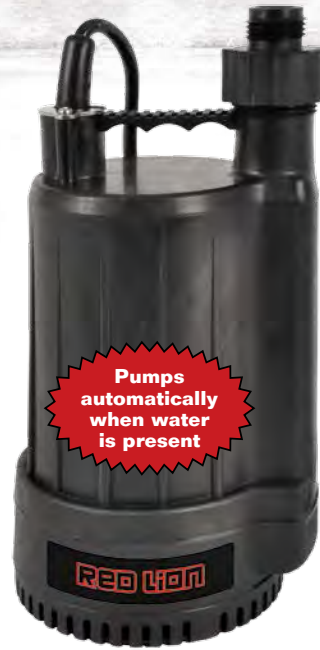
# AUTOMATIC UTILITY PUMP

## 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.

## 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

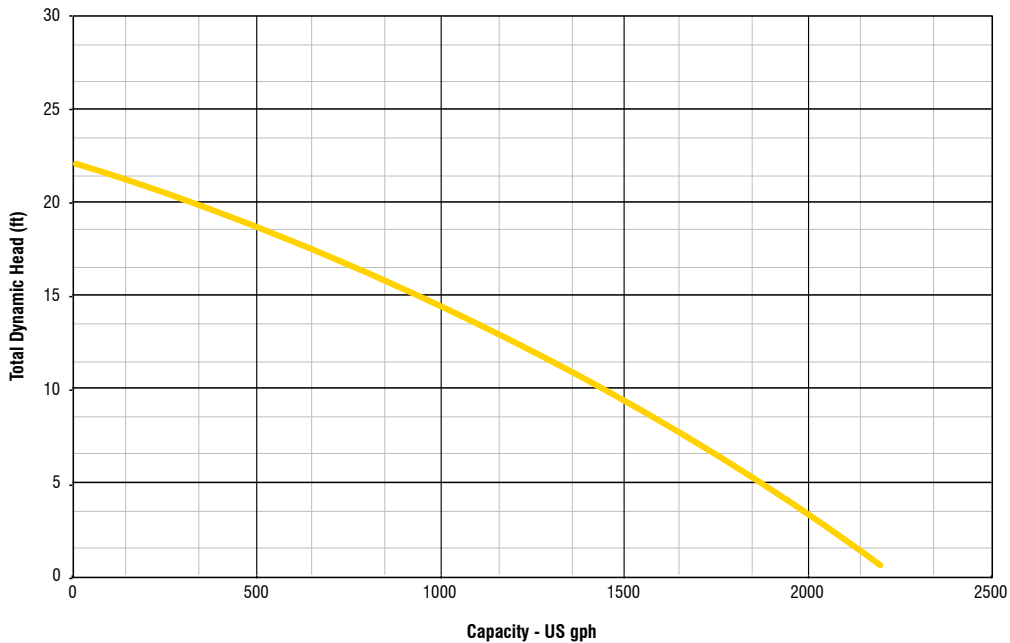


| Model    | Item Number | UPC             | HP  | Amps | Volts | Discharge               | Intake          | Cord Length | Gallons Per Hour at Height |      |      |     | Shut-Off |
|----------|-------------|-----------------|-----|------|-------|-------------------------|-----------------|-------------|----------------------------|------|------|-----|----------|
|          |             |                 |     |      |       |                         |                 |             | 0'                         | 5'   | 10'  | 15' |          |
| RL-MP25A | 14942735    | 0 10121 14158 2 | 1/4 | 2.0  | 115   | 1-1/4" MNPT<br>3/4" GHT | Screened Bottom | 10'         | 2200                       | 1920 | 1440 | 900 | 22'      |

## Carton Specifications

| 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                 |

**Automatic Utility Pump**



# 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

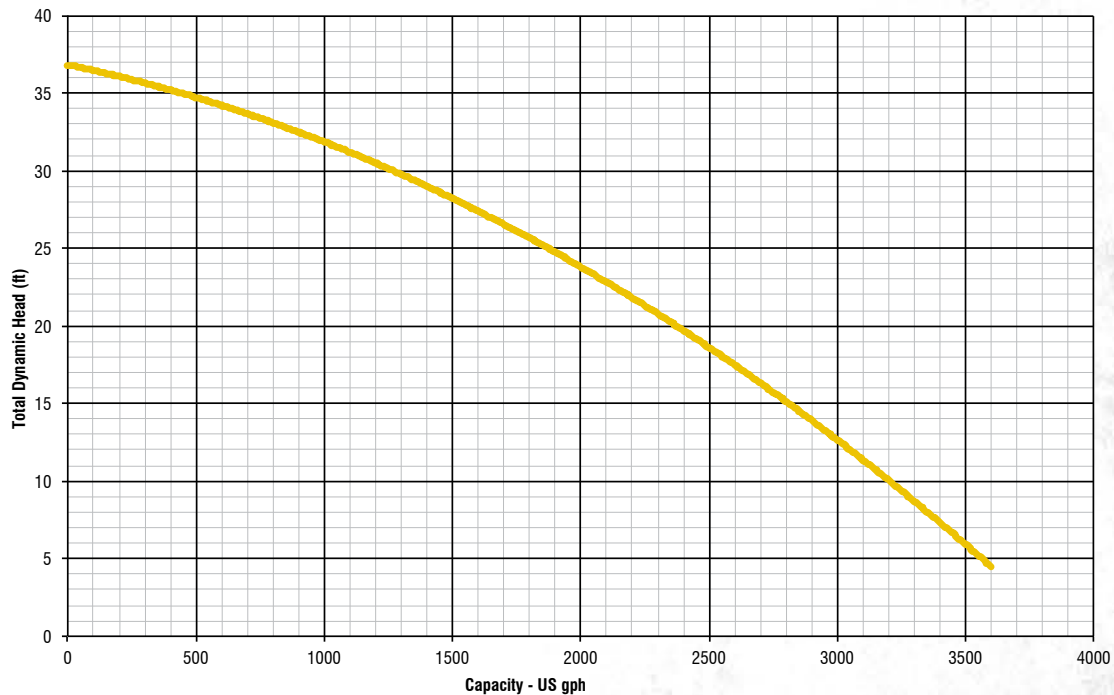


| Model   | Item Number | UPC             | HP  | Amps | Volts | Discharge | Intake          | Cord Length | Gallons Per Hour at Height |      |      |      |     | Shut-Off |
|---------|-------------|-----------------|-----|------|-------|-----------|-----------------|-------------|----------------------------|------|------|------|-----|----------|
|         |             |                 |     |      |       |           |                 |             | 4'                         | 10'  | 20'  | 30'  | 37' |          |
| 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 |
|---------|--------|-------|--------|--------------|----------------------|-----------------|----------------|-------------------|
| RL50CON | 7.75"  | 9.25" | 13.33" | 26           | 0.55                 | 50              | 25             | 2                 |

## RL50CON



## 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



MPFVK115



MPFV12



| Model    | Item Number | UPC             | HP   | Amps | Volts   | Intake              | Discharge           | Cord Length | Gallons Per Hour at Height |     |     |     |
|----------|-------------|-----------------|------|------|---------|---------------------|---------------------|-------------|----------------------------|-----|-----|-----|
|          |             |                 |      |      |         |                     |                     |             | 0'                         | 5'  | 10' | 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 |

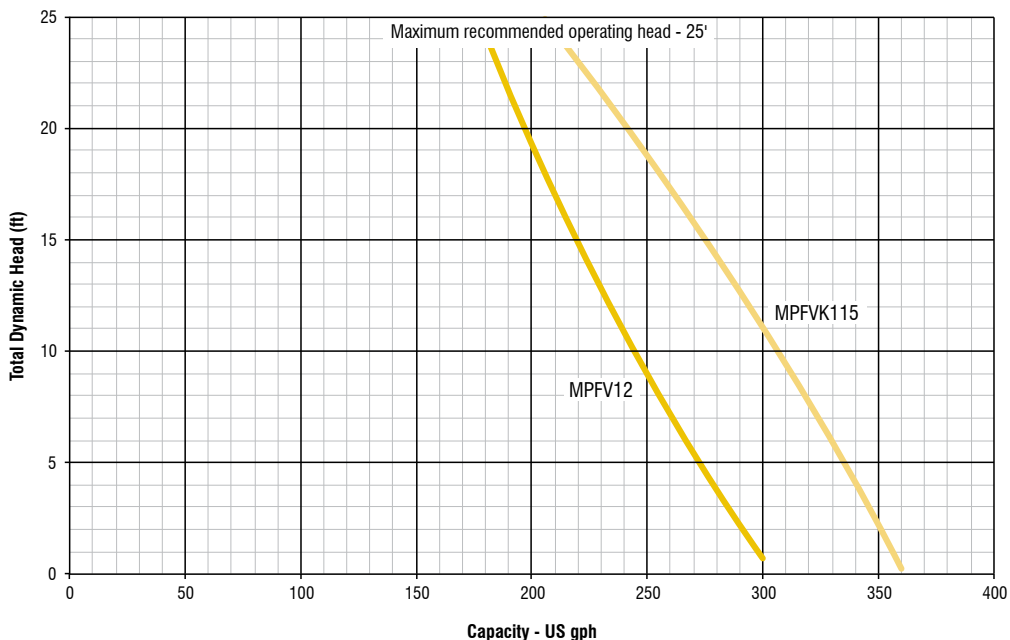
### Carton Specifications

| 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 |
|----------|--------|--------|--------|--------------|----------------------|-----------------|-----------------|-------------------|
| MPFVK115 | 11"    | 10.75" | 12.5"  | 17.2         | 0.86                 | 36 Master Packs | 12 Master Packs | 3                 |
| 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

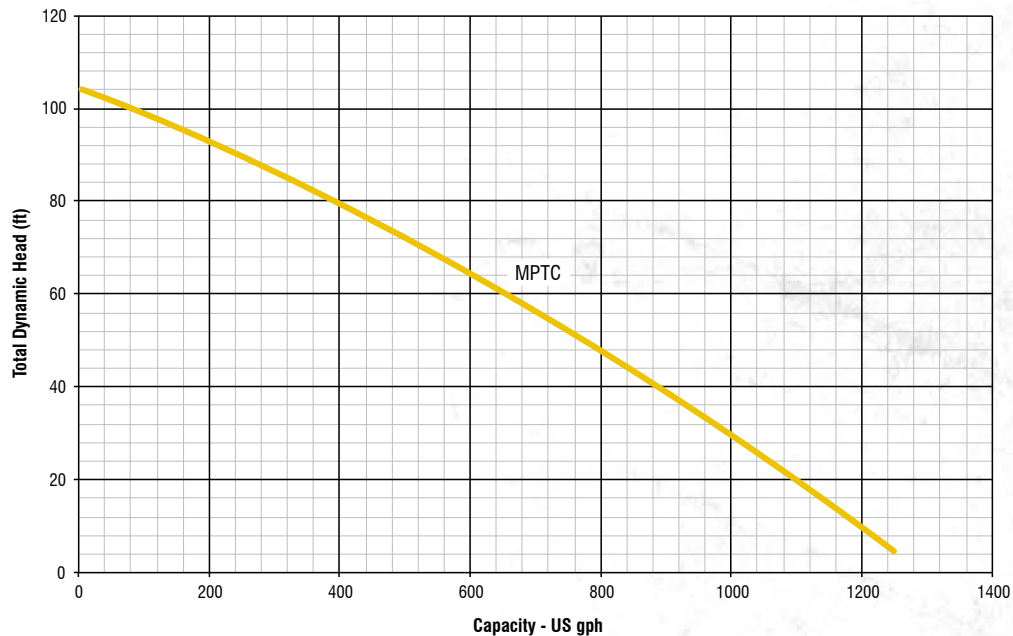


| Model | Item Number | UPC             | HP  | Amps | Volts | Intake   | Discharge | Cord Length | Gallons Per Hour at Height |      |     |     |     |      | Shut-Off |
|-------|-------------|-----------------|-----|------|-------|----------|-----------|-------------|----------------------------|------|-----|-----|-----|------|----------|
|       |             |                 |     |      |       |          |           |             | 0'                         | 20'  | 40' | 60' | 80' | 100' |          |
| 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



# SELF-PRIMING MULTI-PURPOSE TRANSFER PUMP

## 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

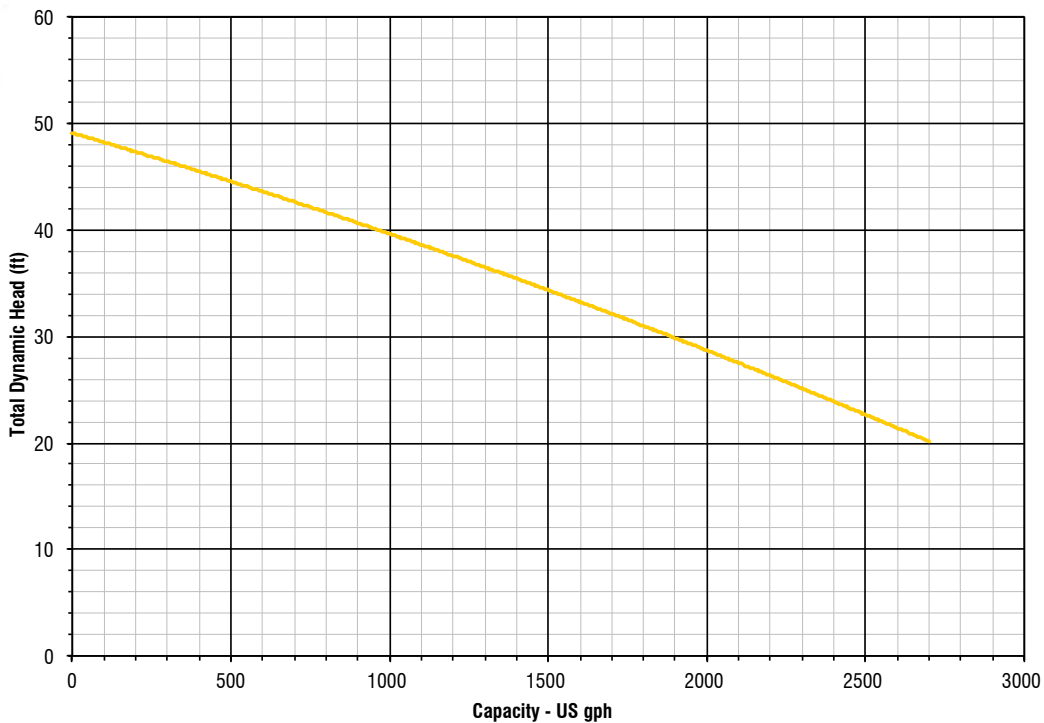


| Model | Item Number | UPC             | HP  | Amps | Volts | Intake | Discharge | Cord Length | Gallons Per Hour at Height |      |      |      |     |     |     | Shut-Off | Max. Pressure PSI | Max. Flow at 5' Suction Lift |
|-------|-------------|-----------------|-----|------|-------|--------|-----------|-------------|----------------------------|------|------|------|-----|-----|-----|----------|-------------------|------------------------------|
|       |             |                 |     |      |       |        |           |             | 20'                        | 25'  | 30'  | 35'  | 40' | 45' | 49' |          |                   |                              |
| 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 | 10.25" | 20.5" | 11.6"  | 43           | 1.41                 | 24              | 6              | 4                 |

## RL-50



# 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



Tubing included with C20ST

| Model | Warranty | Item Number | UPC             | Amps | Volts | Discharge | Tubing   | Cord Length | Gallons Per Hour at Height |    |     |     | Shut-Off |
|-------|----------|-------------|-----------------|------|-------|-----------|----------|-------------|----------------------------|----|-----|-----|----------|
|       |          |             |                 |      |       |           |          |             | 0'                         | 5' | 10' | 15' |          |
| C15   |          | 14942600    | 0 10121 11806 5 | 1    | 115   | 3/8" Barb | N/A      | 6'          | 68                         | 50 | 25  | 0   | 15'      |
| C20ST |          | 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   | 5.5"   | 12.25" | 7.35"  | 4.5          | 0.29                 | 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                 |



## ENGINE DRIVE PRODUCTS



## 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<br>Aluminum<br>Cast Iron | Water Transfer<br>Flood Control                 |
| Agricultural    | Poly<br>Aluminum<br>Cast Iron | Chemical Transfer (Fertilizer)<br>Nurse Trailer |
| Solids Handling | Aluminum<br>Cast Iron         | Construction<br>Semi-Trash<br>Trash             |
| High Pressure   | Aluminum<br>Cast Iron         | Irrigation<br>Fire Fighting                     |

## ALUMINUM WATER TRANSFER PUMP

### 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

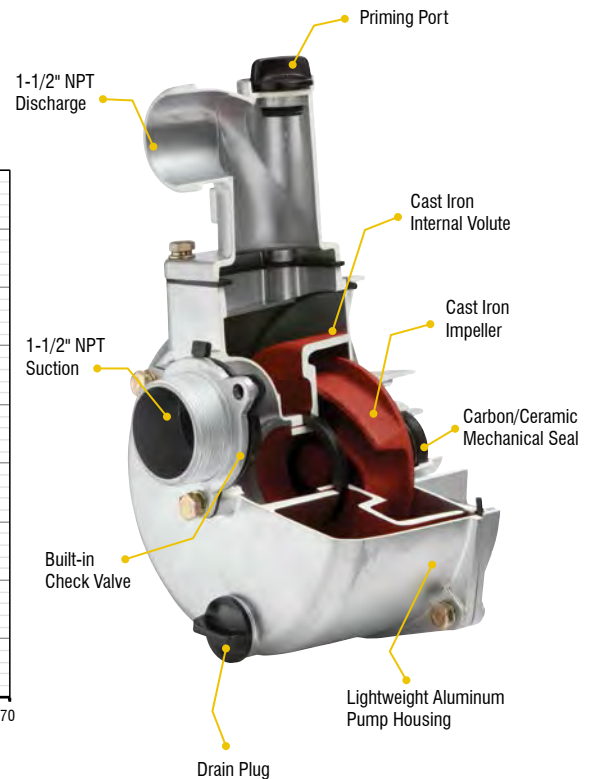
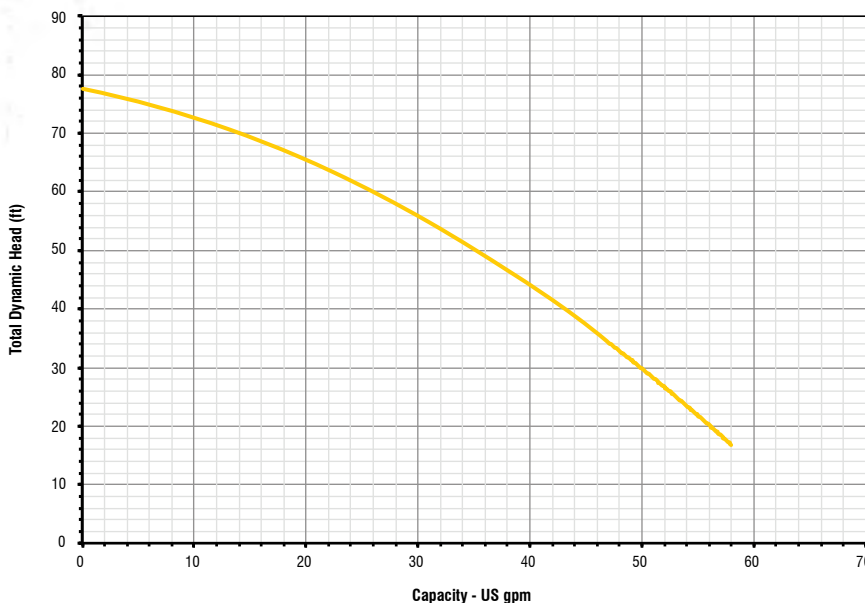


| Model    | Item Number | UPC             | cc | Intake      | Discharge   | Suction Lift | Max. Head | Max. Flow GPM | Fuel Tank (qt) | Engine                          |
|----------|-------------|-----------------|----|-------------|-------------|--------------|-----------|---------------|----------------|---------------------------------|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

2RLAG-1L



# 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

**POWERED by HONDA™**



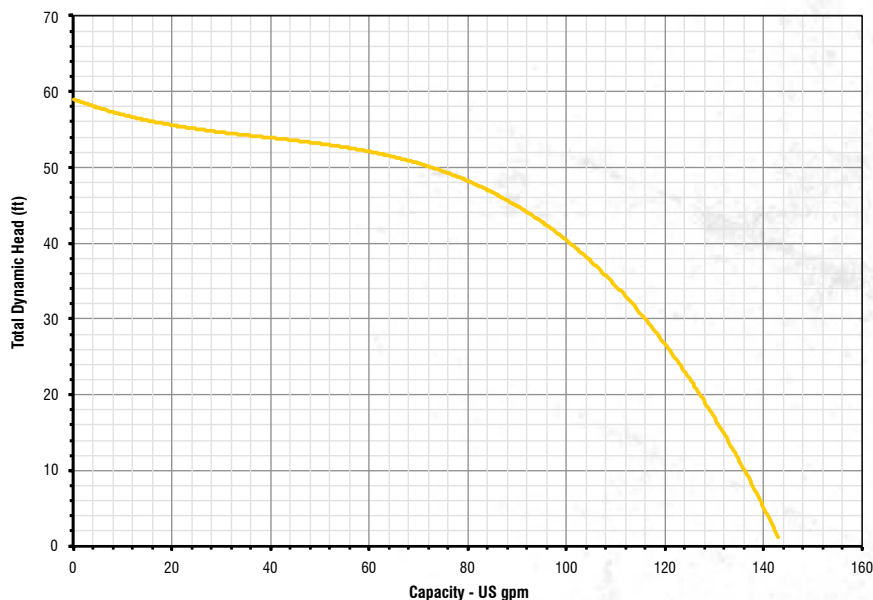
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| Model    | Item Number | UPC             | cc    | Intake  | Discharge | Suction Lift | Max. Head | Max. Flow GPM | Fuel Tank (qt) | Engine              |
|----------|-------------|-----------------|-------|---------|-----------|--------------|-----------|---------------|----------------|---------------------|
| 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                 |

4RLAG-2H



## ALUMINUM WATER TRANSFER PUMP

### APPLICATIONS

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

### FEATURES & BENEFITS

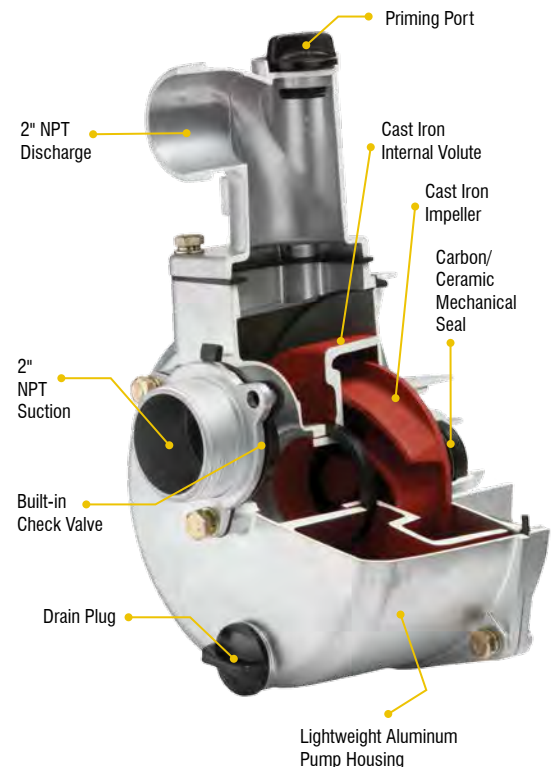
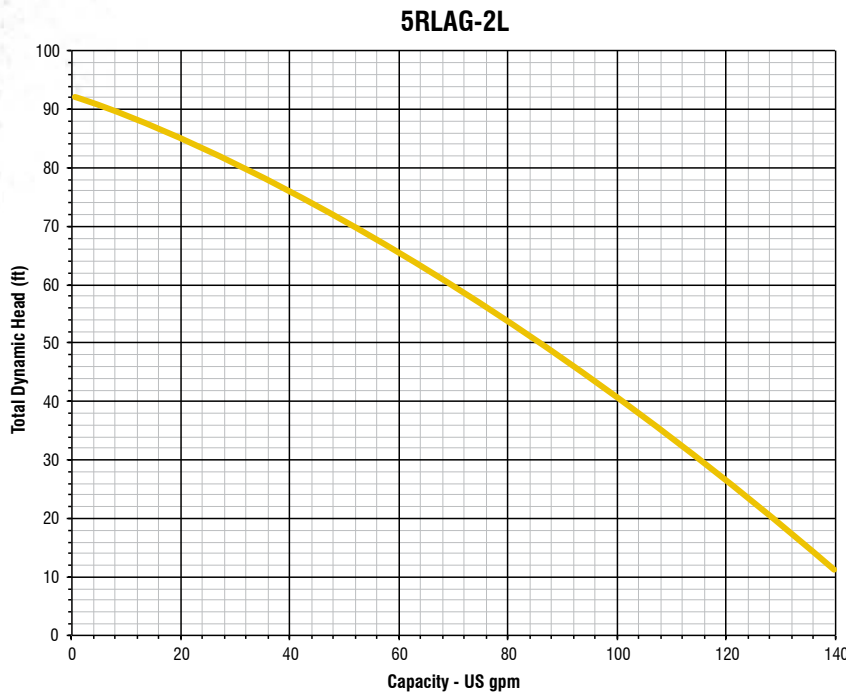
- Durable cast iron semi-open style impeller
- Lightweight aluminum outer casing: includes heavy-duty roll frame
- Self-priming to 25' suction lift
- Built-in check valve
- EPA certified



| 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                 |



# 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

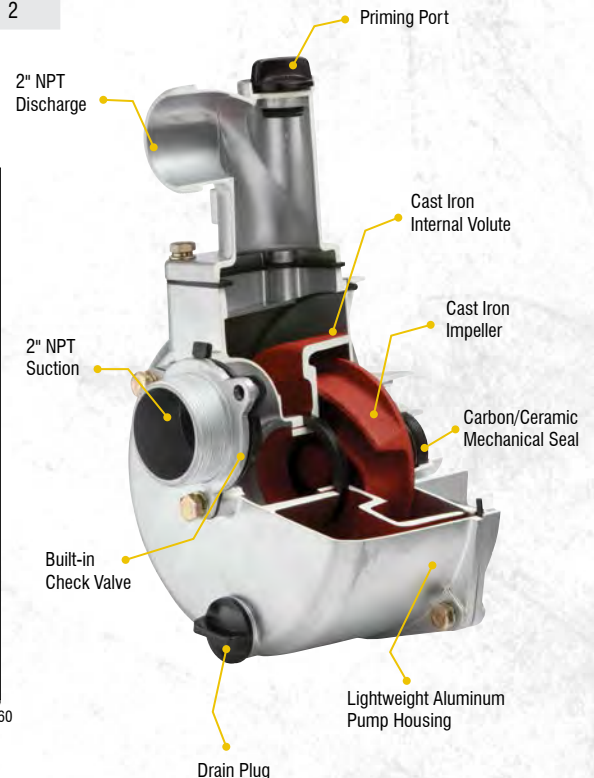
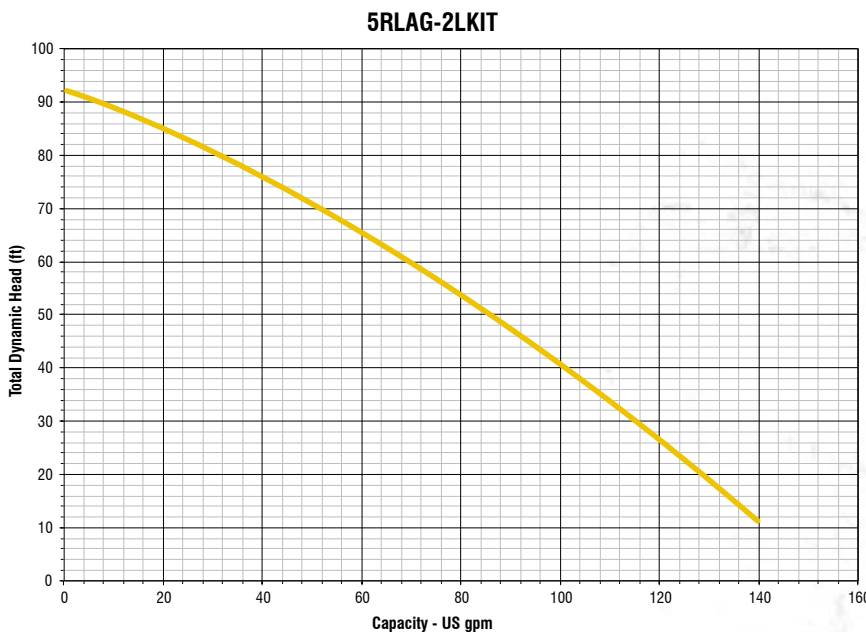
- Durable cast iron semi-open style impeller
- Lightweight aluminum outer casing: includes heavy-duty roll frame
- Self-priming to 25' of suction lift
- Built-in check valve
- Includes 12' reinforced suction hose with steel suction strainer, 50' lay flat discharge hose with attached couplings, and two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



| Model       | Item Number | UPC             | cc    | 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                 |



# ENGINE DRIVEN CAST IRON TRANSFER PUMP

## 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
- Durable cast iron semi-open type impeller
- Stainless steel shaft sleeve and EPDM elastomer 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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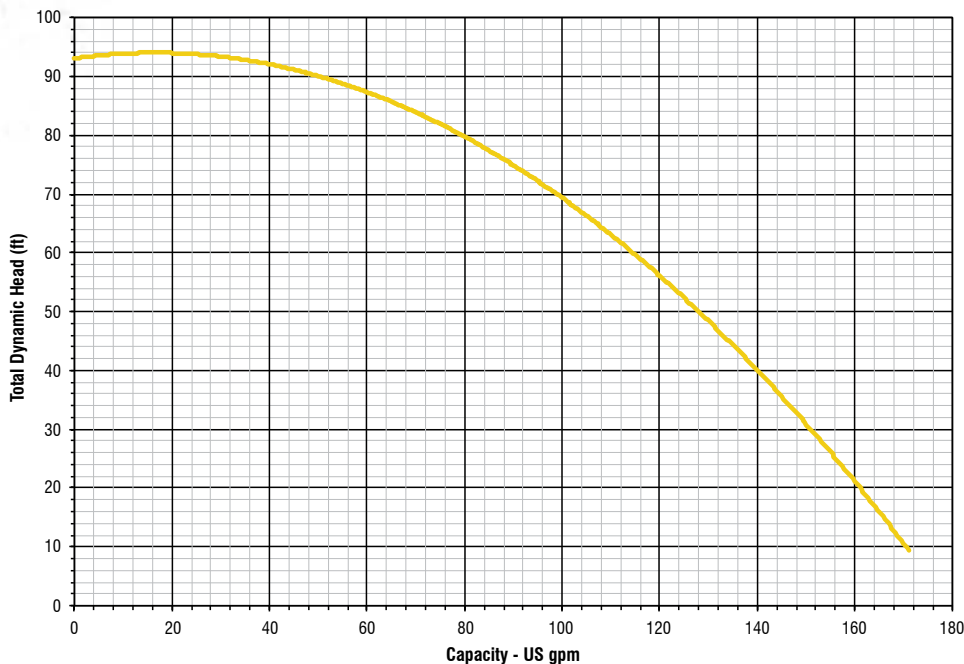
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| Model      | Item Number | UPC             | cc    | Intake  | Discharge | Suction Lift | Max. Head | Max. Flow GPM | Fuel Tank (qt) | Engine                                    |
|------------|-------------|-----------------|-------|---------|-----------|--------------|-----------|---------------|----------------|---|
| 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                 |

**5RLGF-8KRF**



# 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

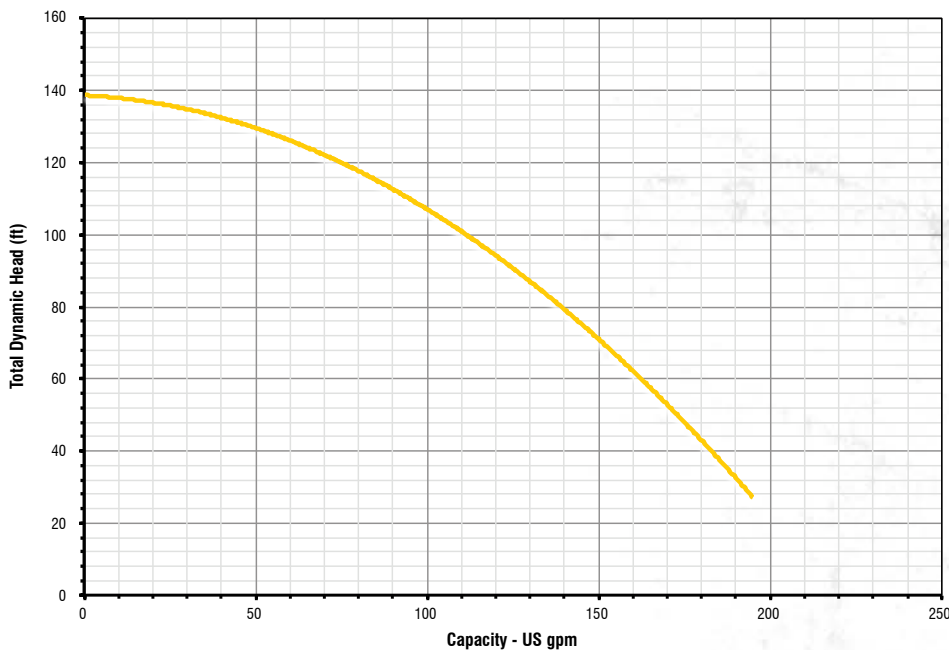


| Model    | Item Number | UPC             | cc    | Intake  | Discharge | Suction Lift | Max. Height | Max. Flow GPM | Fuel Tank (qt) | Engine               |
|----------|-------------|-----------------|-------|---------|-----------|--------------|-------------|---------------|----------------|----------------------|
| 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 |
|----------|--------|-------|--------|--------------|----------------------|-----------------|----------------|-------------------|
| 6RLPG-2U | 20"    | 17.5" | 16"    | 46.5         | 3.24                 | 12              | 4              | 3                 |

6RLPG-2U



## THERMOPLASTIC AG CHEMICAL & TRANSFER PUMP

### 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



Powered by

# KOHLER®



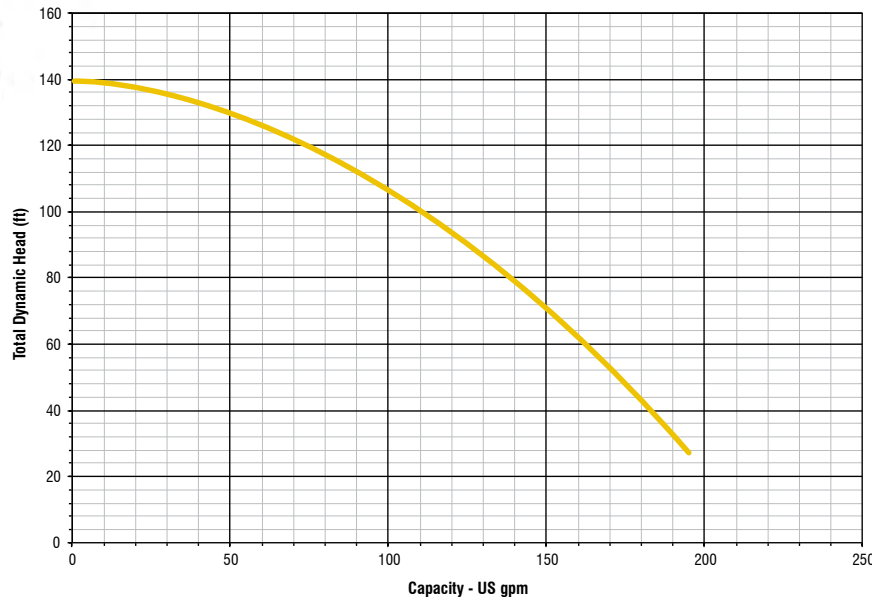
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| Model    | Item Number | UPC             | cc    | Intake  | Discharge | Suction Lift | Max. Height | Max. Flow GPM | Fuel Tank (qt) | Engine                     |
|----------|-------------|-----------------|-------|---------|-----------|--------------|-------------|---------------|----------------|----------------------------|
| 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 | 17.25" | 20.5" | 18"    | 47.5         | 3.68                 | 8               | 4              | 2                 |

6RLPG-2KRF





# 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

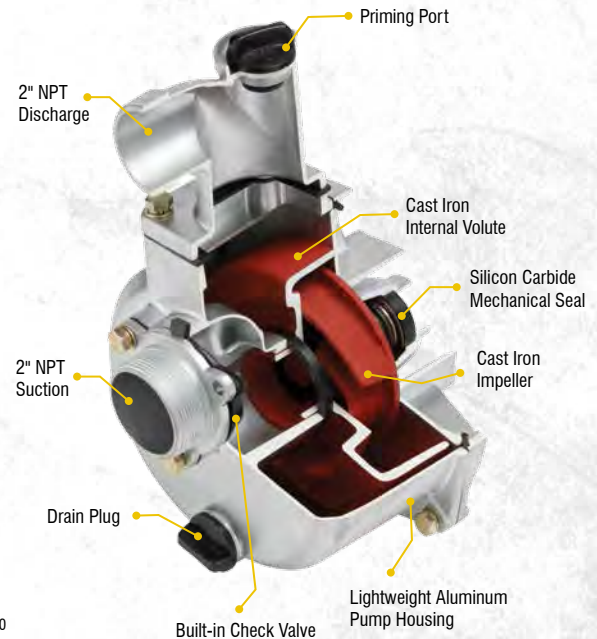
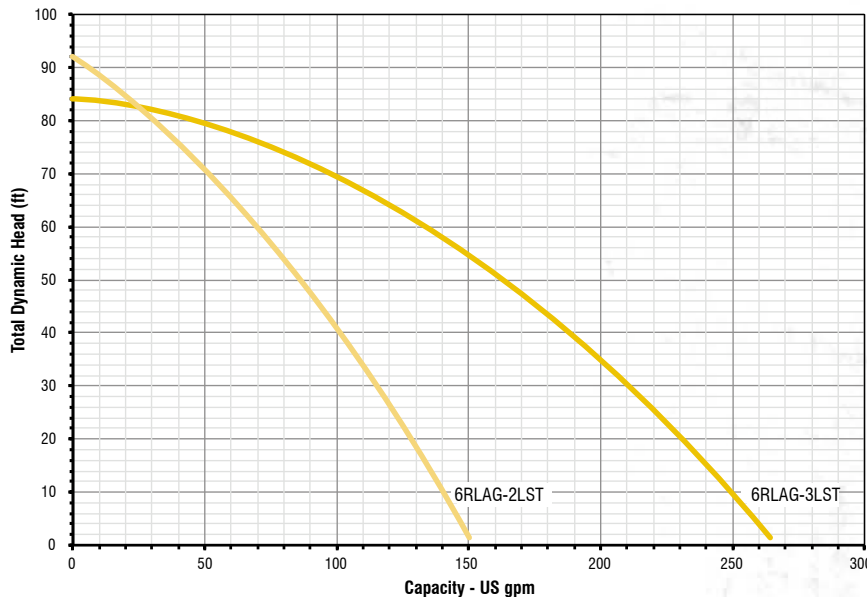


| Model      | Item Number | UPC             | cc    | Intake  | Discharge | Suction Lift | Max. Head | Max. Flow GPM | Fuel Tank (qt) | Engine               |
|------------|-------------|-----------------|-------|---------|-----------|--------------|-----------|---------------|----------------|----------------------|
| 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                 |
| 6RLAG-3LST | 17.75" | 22.75" | 19"    | 66           | 4.44                 | 8               | 4              | 2                 |

## Aluminum Semi-Trash Pumps



## ENGINE DRIVEN SEMI-TRASH PUMP

### 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



**POWERED by HONDA™**

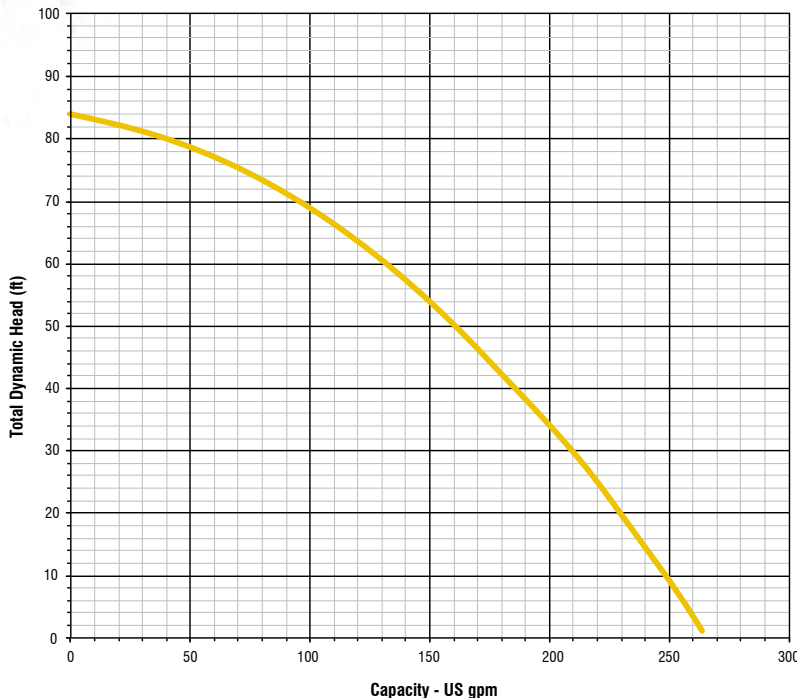
Powered by HONDA™ is a registered trademark of HONDA Motor Co., Ltd.

| Model      | Item Number | UPC             | cc  | 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

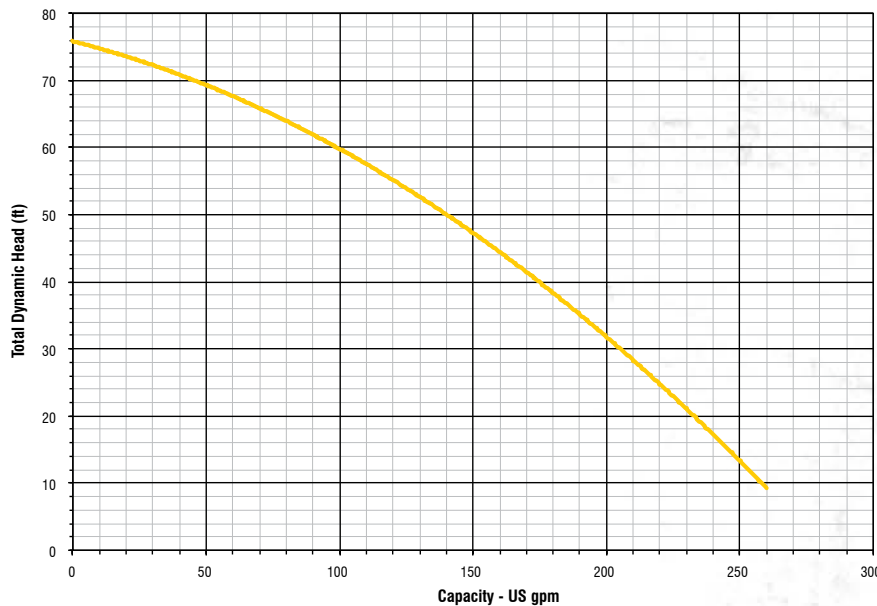


| Model      | Item Number | UPC             | cc  | Intake | Discharge | Suction Lift | Max. Height | Max. Flow GPM | Fuel Tank (qt) | Engine                           |
|------------|-------------|-----------------|-----|--------|-----------|--------------|-------------|---------------|----------------|----------------------------------|
| 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                 |

6RLAG-3LTT



# KEEPING YOU INFORMED

Want the latest information on Red Lion products?  
Need help sizing a new pump?



Visit our website or contact our Technical Support Hotline  
for everything you need to know about Red Lion products.

[www.RedLionProducts.com](http://www.RedLionProducts.com)  
1.888.956.0000

**RED LION**

# ACCESSORIES

We offer a complete line of accessories and repair parts. For our most up-to-date list please visit our website at [RedLionProducts.com](http://RedLionProducts.com). The accessories list is found under any product, just select Downloads and you'll see it at the bottom of the page.

## CLEAN WATER ACCESSORIES



Pressure Switch



Pressure Gauge



Foot Valve

## WASTEWATER ACCESSORIES



Tethered Float Switch



Vertical Float Switch



Discharge Hose Kit

## ENGINE DRIVE ACCESSORIES



617212

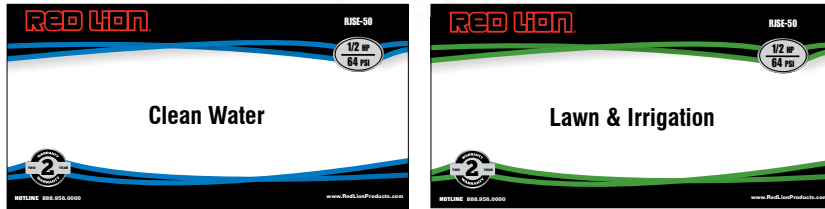


617201

# 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

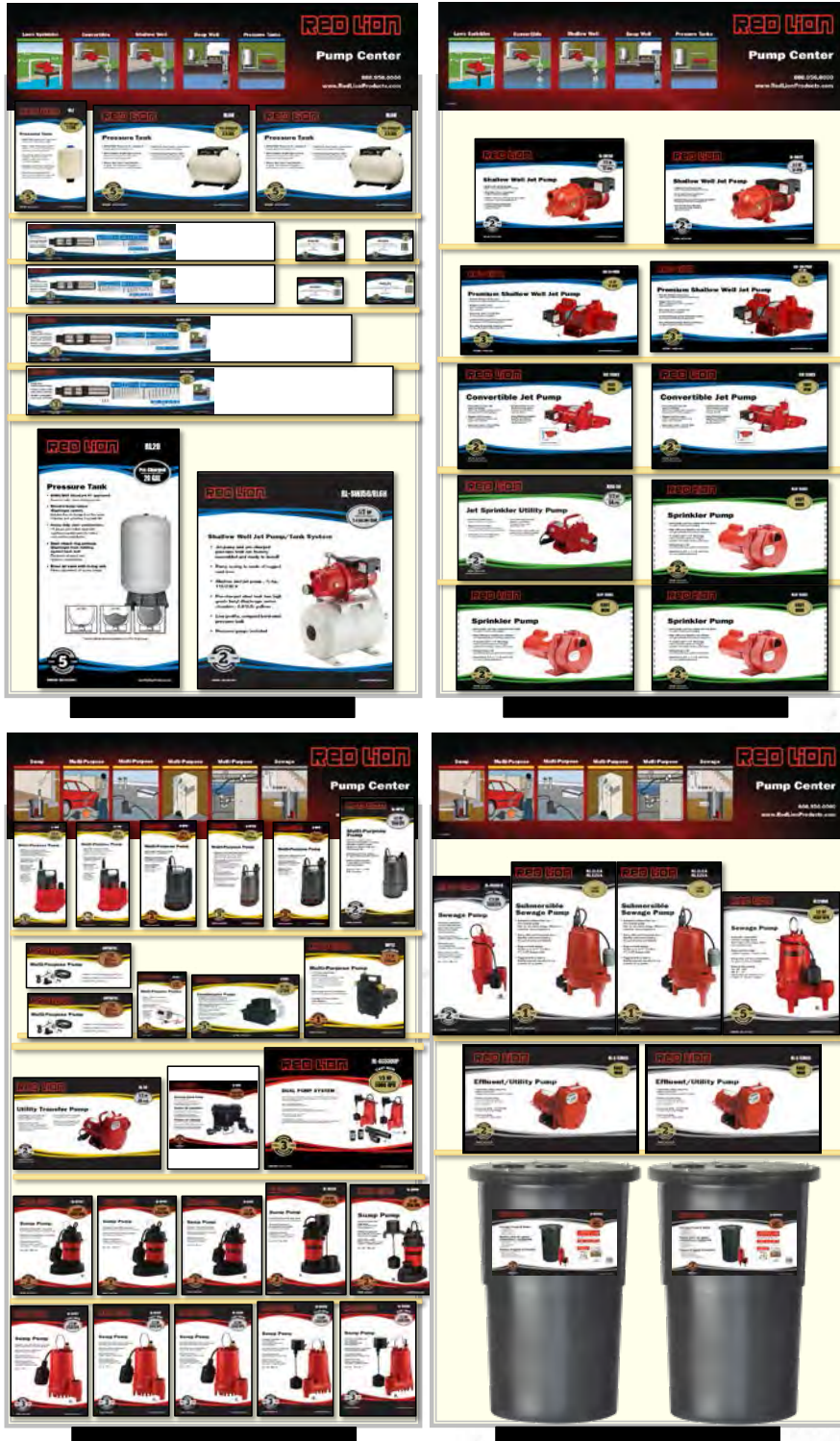
Color coordinated and informative marketing materials are designed to assist customers and retail staff in the decision making process, identifying the product that best suits their individual needs.



# 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:
  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.
- 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:
  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. 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.
  2. 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                      |



# TROUBLESHOOTING GUIDE

## 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?

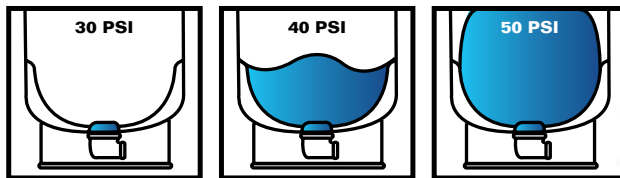
Of course. Red Lion tanks are designed with the knowledge that chlorine is often used to periodically treat a well.

### 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

1. 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.

# TROUBLESHOOTING GUIDE

## 4" SUBMERSIBLE WELL PUMPS

| Trouble  | Possible Cause  | Corrective Action  |
|--|---|--|
| Motor will not start but does not blow fuses. <b>WARNING!</b> Hazardous voltage. Can shock, burn or cause death. Qualified electricians should work on electrical service. | 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.   |
|  | Cable splices or motor windings may be grounded, shorted or open-circuited.                                       | Consult certified electrician or service technician. <b>Do not attempt to disassemble pump or motor.</b>   |
|  | Faulty pressure switch.   | Check pressure switch; replace if necessary.   |
|  | 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.   |
| Pressure switch fails to shut off pump.  | 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.  |
|  | 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.  |
| Fuses blow or overload protector trips when motor is running.  | 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. <b>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.</b> |
|  | 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. <b>Do not attempt to disassemble the pump or motor.</b>   |
|  | 3-wire only; high ambient (atmospheric) temperature.  | Make sure the pump control box is installed out of direct sunlight.  |
| Air or milky water discharges from your faucets.   | 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.  |
|  | 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.   |

# TROUBLESHOOTING GUIDE

| Trouble   | Possible Cause  | Corrective Action   |
|---|---|---|
| Your pump delivers little or no water.  | 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.<br><b>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.</b> |
|   | 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.  |
| Pump starts too frequently.   | 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.  |
|   | 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.  |
| Fuses blow or overload protector trips when motor starts.   | 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. <b>Do not attempt to disassemble the pump or motor.</b>  |
|   | 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.<br><b>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.</b> |   |

# TROUBLESHOOTING GUIDE

## SUBMERSIBLE UTILITY & SUMP PUMPS

| Trouble                                     | Possible Cause           | Corrective Action   |
|---|--------------------------|---|
| Motor does not run.                         | Blown fuse.              | Replace fuse.   |
|   | Tripped circuit.         | Reset.  |
|   | Disconnected plug.       | Reinstall pump.   |
|   | 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. |
| Motor hums but flow reduced or none at all. | Impeller jammed.         | Remove bottom plate and clean.  |
|   | Plugged check valve.     | Remove valve, clean or replace.   |
|   | Partially blocked inlet. | Clean inlet.  |
|   | Line leak.               | Repair line.  |
|   | Worn impeller.           | Replace pump/repair.  |
|   | Defective motor.         | Replace pump.   |
| Pump runs continuously.                     | Plugged inlet.           | Clean inlet.  |
|   | 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.

# TROUBLESHOOTING GUIDE

## 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  |
|----------------------------------|--|--|
| Failure to pump.                 | Pump not properly primed.  | Make sure pump casing and suction line are full of water. See priming instructions.  |
|                                  | 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.<br><b>WARNING! All wiring, electrical connections, and system grounding must comply with the National Electrical Code (NEC) and with any local codes and ordinances.</b> |
|                                  | 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.   |
| Capacity and/or head is reduced. | 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.  |
|                                  | 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.   |
|                                  | 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.  |
| Pump loses prime.                | Air leaks in suction line.   | Check suction piping.  |
|                                  | 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 and noise.   | Bent shaft and/or damaged bearings.                                  | Take motor to authorized motor repair shop.  |
|                                  | Suction and/or discharge piping not properly supported and anchored. | See that all piping is supported to relieve strain on pump assembly.   |

# TROUBLESHOOTING GUIDE

## RLAG & RLGf – ENGINE DRIVEN TRANSFER PUMPS

| Trouble                                     | Possible Cause  | Corrective Action   |
|---|---|---|
| Pump will not pump.                         | 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.                 |
|   | 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.  |
| Priming takes a long time.                  | Suction line is quite long.   | See priming instructions in owner's manual.   |
|   | Air pockets or leaks in the suction line.   | Check the line for loose connections.   |
| Pump does not perform as well as it should. | Flow is restricted due to:<br>a. Debris build-up.<br>b. Faulty or semi-open valve(s).<br>c. Pipe or hose used is smaller than the thread sizes on the pump. | a. Clean the lines and fittings.<br>b. Check to see that the valves are in good working order.<br>c. Increase the size of hose or pipe to reduce friction losses. |
|   | 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.                                      |
|   | 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.   |
| Pump loses prime.                           | Engine throttle is in SLOW position.  | Move throttle to FAST position.   |
|   | 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.                                 |
| Pump will not start.                        | No fuel.  | Allow engine to cool for 2 minutes, then fill fuel tank.  |
|   | Faulty spark plug.  | Replace spark plug.   |
|   | 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.  |
| Pump starts, but runs roughly.              | Choke is in the wrong position.   | Slide choke lever to the RUN position.  |
|   | Spark plug wire is loose.   | Attach wire to spark plug secure.   |
|   | 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.  |

\*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:

- a. 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.

# TROUBLESHOOTING GUIDE

## RLCGF – END SUCTION CENTRIFUGAL PUMPS

| Trouble                                     | Possible Cause  | Corrective Action   |
|---|---|---|
| Pump will not pump.                         | 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.                 |
|   | 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.  |
|   | No foot valve is being used.  | Add a foot valve to the suction line.   |
|   | Engine speed is too low.  | Increase RPM  |
| Priming takes a long time.                  | Suction line is quite long.   | See priming instructions in owner's manual.   |
|   | 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.   |
| Pump does not perform as well as it should. | Flow is restricted due to:<br>a. Debris build-up.<br>b. Faulty or semi-open valve(s).<br>c. Pipe or hose used is smaller than the thread sizes on the pump. | a. Clean the lines and fittings.<br>b. Check to see that the valves are in good working order.<br>c. Increase the size of hose or pipe to reduce friction losses. |
|   | 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.                                      |
|   | 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.                                 |
|   | Foot valve is leaking – not holding water in the suction line.  | Replace foot valve.   |
| Pump will not start.                        | No fuel.  | Allow engine to cool for 2 minutes, then fill fuel tank.  |
|   | Faulty spark plug.  | Replace spark plug.   |
|   | 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.  |
| Pump starts, but runs roughly.              | 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.  |
|   | Spark plug wire is loose.   | Attach wire to spark plug, secure.  |
|   | Faulty spark plug.  | Replace spark plug.   |
| Pump shuts down during operation.           | Fuel is contaminated (water, debris, etc.).   | Allow engine to cool for 2 minutes, then drain fuel tank and carburetor. Fill tank with fresh fuel.   |
|   | 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.

**Basin**

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 well**

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 1/2" 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

## FRICITION LOSS CHART

| Nom. Pipe Size | 3/4"  |        |         | 1"    |        |         | 1-1/4" |        |         | 1-1/2" |        |         | 2"    |        |         |
|----------------|-------|--------|---------|-------|--------|---------|--------|--------|---------|--------|--------|---------|-------|--------|---------|
| Material       | Steel | Copper | Plastic | Steel | Copper | Plastic | Steel  | Copper | Plastic | Steel  | Copper | Plastic | 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.

| Motor |       | (AWG) Copper Wire Size |     |     |
|-------|-------|------------------------|-----|-----|
| HP    | Volts | 14                     | 12  | 10  |
| 1/2   | 115   | 60                     | 95  | 150 |
|       | 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.

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

# INDEX OF ITEMS NUMERICALLY BY ITEM NUMBER

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          |
| 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          |
| 14942748    | 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          |
| 14942780    | RL-SS50V        | 1/2 hp, 3450 gph, Premium stainless steel sump pump with vertical float switch   | 28          |
| 14942781    | RL-SS50T        | 1/2 hp, 3450 gph, Premium stainless steel sump pump with tethered float switch   | 28 & 38     |
| 14942782    | RL-SS100T       | 1 hp, 5300 gph, Premium stainless steel sump pump with tethered float switch     | 28 & 38     |
| 14942790    | RL-SPBS         | Backup sump system   | 31          |
| 602014      | RJS-50/RL14H    | 1/2 hp, 14.0 gal. Shallow well jet pump & tank system                            | 11          |
| 602036      | RJC-50          | 1/2 hp convertible jet pump  | 9           |
| 602037      | RJC-75          | 3/4 hp convertible jet pump  | 9           |
| 602038      | RJC-100         | 1 hp convertible jet pump  | 9           |
| 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.

| 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, 230 V  | 13          |
| 640190      | RLCB07-230    | Control box, 3/4 hp, 230 V  | 13          |
| 640191      | RLCB10-230    | Control box, 1 hp, 230 V  | 13          |
| 640222      | RLCB15-230    | Control box, 1.5 hp, 230 V  | 13          |
| 97080502    | RL-SWJ50      | 1/2 hp Shallow well jet pump  | 7           |
| 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           |

# INDEX OF ITEMS ALPHABETICALLY BY MODEL

All accessories are listed on page 67.

| Model        | Item Number | Description   | Page Number |
|--------------|-------------|---|-------------|
| 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      | 1/2 hp, 5.3 gal. Convertible jet pump & tank system   | 11          |
| RJC-75       | 602037      | 3/4 hp convertible jet pump   | 9           |
| RJS-100-PREM | 602208      | 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          |
| RL-SPS33     | 14942736    | 1/3 hp, 3200 gph Under sink sump package w/ 6 gal. basin  | 30          |

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All accessories are listed on page 67.

| 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            | 604459      | 44.0 gal Vertical pre-charged pressure tank                                    | 10          |
| 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          |



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