

## 365 Pony Pump '12 VDC Pump'

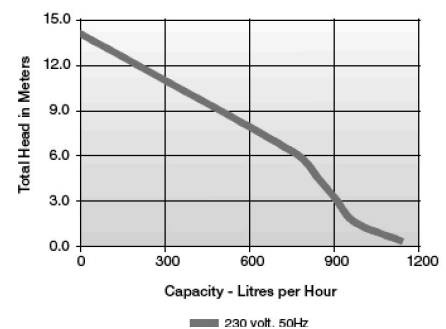
Commercial, industrial and home uses where liquid must be transferred

- 1/10 HP non-submersible stainless steel pump body
- 12 VDC motor
- 2.1 m with clips cord
- Self-priming for instant delivery or de-watering up to 1.8 m
- Rugged metallic handle for easy portability
- Dual threaded intake and discharge with both 19mm male garden hose thread and 10 mm FNPT
- IP 53



<b>Capacity:</b>	1136 LPH @31m
<b>Shut Off:</b>	14 m
<b>Discharge:</b>	19 mm
<b>Electrical:</b>	12VDC, 60Hz, 7.0A, 165W
<b>MODEL:</b>	<b>555203</b>

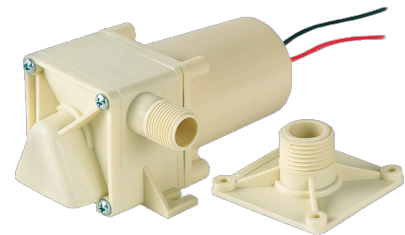
Performance Curves



## BPLA Utility Pump

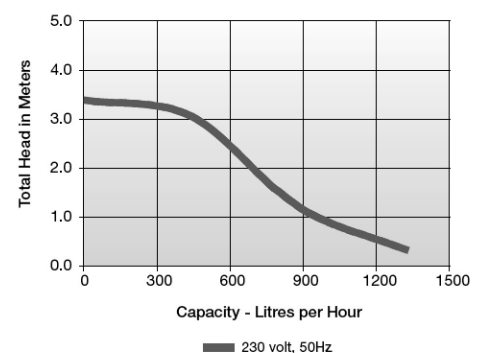
Water removal from compact places such as boat bilges, recreational vehicles or bait tank

- 12 VDC motor
- Submersible or in-line use
- Designed for **intermittent use only**
- Plastic and stainless-steel construction
- Compact, light-weight, operates in any position
- Port connections equipped with bilge inlet plate with strainer
- 12.7mm inlet plate accessory included
- Accepts 15.9mm hose



<b>Capacity:</b>	1330 LPH @31m
<b>Shut Off:</b>	3.35 m
<b>Electrical:</b>	12VDC, 60Hz, 20A, 165W

Performance Curves





## 365 PONY PUMP

### Introduction

This instruction sheet provides you with information required to safely own and operate your Little Giant pump. It primarily covers the standard models of each pump series. The form is applicable to other models in the series not listed by catalogue number in the replacement parts list section of the instruction sheet. If the catalogue number of your pump is not listed in the replacement parts list section, then caution should be exercised when ordering replacement parts. Always give the catalogue number of your pump when ordering replacement parts.

The Little Giant unit you have purchased is of the highest quality workmanship and material. It has been engineered to give you long and trouble-free service. The Little Giant pumps are carefully packaged, inspected and tested to insure safe operation and delivery. When you receive your pump, examine it carefully to determine that there are no broken or damaged parts that may have occurred during shipment. If damage has occurred, make notation and notify the firm that you purchased the pump from. They will assist you in replacement or repair, if required.

**READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE OR SERVICE THE LITTLE GIANT PUMP. KNOW THE PUMP APPLICATION, LIMITATIONS, AND POTENTIAL HAZARDS. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE! RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.**

### DESCRIPTION

Your Little Giant pump is designed for general, commercial and industrial applications. It is designed for water, but is not submersible. It can be used to transfer liquids, and to empty or fill tanks, sinks or bowls. The pump can be used to pump bilge water, but the pump must not be located in the bilge area. It is self-priming to 7 ft. if the impeller is initially wet (primed). A carrying handle is included.

**NOTE:** Unit is NOT RECOMMENDED for use with soap detergents, gasoline, waste oil, fuel oil, flammable, explosive or combustible liquids or other fluids not compatible with pump component materials. Do not use unit in enclosed areas. Intermittent duty only (15 minutes per hour).

### SAFETY GUIDELINES

**WARNING: Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in flammable and/or explosive atmospheres. Pump should only be used with liquids compatible with pump component materials. Failure to follow this warning can result in personal injury and/or property damage.**

1. Know the pump application, limitations, and potential hazards.
2. **WARNING:** Do not handle a pump or pump motor with wet hands or when standing on a wet or damp surface, or in water.
3. The pump is not submersible and is intended for open-air use only.
4. Disconnect power before servicing a motor or its load. If the power disconnect is out-of-sight, lock it in the open position and tag it to prevent unexpected application of power.
5. Release all pressure within the system before servicing any component.
6. Drain all liquids from the system before servicing.
7. The pump motor is equipped with an automatic resetting thermal protector and may restart unexpectedly. Protector tripping is an indication of motor overloading as a result of operating the pump at low heads (low discharge restriction), excessively high or low voltage, inadequate wiring, pumping too hot a liquid, incorrect motor connections, or a defective motor or pump. Read troubleshooting chart.
8. Do not touch an operating motor. Modern motors are designed to operate at high temperatures.
9. Provide adequate protection and guarding around moving parts. Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury and/or property damage.
10. Check hoses for weak or worn condition before each use, making certain that all connections are secure.
11. Periodically inspect pump and system components. Perform routine maintenance as required (see SERVICE INSTRUCTIONS).
12. Provide a means of pressure relief for pumps whose discharge line can be shut-off or obstructed.
13. **PERSONAL SAFETY:** Wear safety glasses at all times when working with pumps. 14. Do not add acid or electrolyte to a battery being used – add only water.
14. Consult the battery manufacturer for any additional safety instructions.



## ELECTRICAL CONNECTIONS

1. Make certain that power source conforms to the requirements of your equipment.
2. When wiring an electrically driven pump, follow all electrical and safety codes, as well as the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA) in the United States.
3. Model 360 and 370 are only for use on 115 volt (single-phase) and is equipped with an approved 3-conductor cord and 3-prong, grounding-type plug. Model 365 is for 12VDC.
4. To reduce the risk of electric shock, models 360 & 370 should be plugged directly into a properly installed and grounded 3-prong grounding-type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. The motor must be securely and adequately grounded for your protection against shock hazards! Never connect the green (or green and yellow) wire to a live terminal! SEE SECTIONS 10, 11 & 12 FOR MODEL 365.
5. Where a 2-prong wall receptacle is encountered, it must be replaced with a properly grounded 3-prong receptacle installed in accordance with the National Electrical Code and local codes and ordinances.
6. To ensure a proper ground, the grounding means must be tested by a qualified electrician. Use only 3-wire extension cords that have 3-prong, grounding-type plugs and receptacles that accept the equipment plug.
7. All wiring should be performed by a qualified electrician.
8. Protect electrical cord from sharp objects, hot surfaces, oil and chemicals. Avoid kinking the cord. Replace or repair damaged or worn cords immediately.
9. When using an extension cord make sure wire is of adequate size to minimize voltage drop at the motor. For models 360 & 370, 16 AWG is OK up to 40'.

### For Model 365

1. The model 365 pump is not equipped with an inline fuse. Because of the wide variety of applications and mounting situations, an inline fuse has not been permanently installed. In order to provide adequate protection for the motor, an inline fuse and fuse holder MUST be installed. The model 365 pump warranty does not cover motor damage caused by over heating. For maximum protection, a fuse of 7 amps is suggested. Fuses and fuse holders are readily available in most hardware, auto and home improvement stores.
2. GENERAL CONNECTION INFORMATION to a 12VDC battery.
3. Connect POSITIVE or PLUS (+) lead from the pump to battery first. POSITIVE lead of pump is red.
4. If pump is to be connected to battery that is installed in a vehicle, connect NEGATIVE or MINUS (–) lead to a ground away from the battery, such as the metal of the vehicle or the negative wiring terminal strip or other negative common point of the battery (away from the battery), if so equipped. Always connect NEGATIVE (–) lead last. NEGATIVE (–) lead of pump is black.
5. When DISCONNECTING — Disconnect NEGATIVE (–) lead from the grounded location first. Then disconnect the POSITIVE (+) lead from the battery.
6. When attaching pump leads to battery terminals, be sure that the area (bilge of a boat, for instance) is adequately ventilated to prevent an explosion or fire from explosive or flammable vapors that may be present.
7. Batteries emit hydrogen gas that is explosive. Avoid smoking, sparks or open flame anywhere in the vicinity of the battery.
8. EXPLOSION from battery can cause blindness. Shield eyes when working near any battery.
9. Batteries contain sulfuric acid. In case of contact with eyes, skin or clothing FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER; GET MEDICAL ATTENTION.

PUMP MODEL	360/370	365
Power Supply Volts	115V	12V
Power Supply Amps	2A	10A
Power Supply Hz (DC=12VDC battery)	60	DC
Fuse	2A	7A
Max Fluid Temperature (°F)	140	140
Minimum Fluid Temperature (°F)	40	40
Thermal Protection (A=Autoreset)	A	A
Motor Max Current Rating (Amps)	1.6	7.0
Duty Cycle (I=Intermittent) 15 min/hr	I	I



## INSTALLATION

**WARNING:** In any installations where property damage and/or personal injury might result from an inoperative or leaking pump due to power out-ages, discharge line blockage, or any other reason, a backup system(s) should be used. In order to safely use this product, familiarize yourself with this pump and also with the liquid (chemical, etc.) that is going to be

**pumped through the unit. This pump is not suitable for many liquids.**

1. Pump should be placed as close to source of liquid and power as possible, not more than 7' above liquid source and not more than 25' from power source.
2. Use reinforced plastic or fabric tubing or metal pipe for the suction side of the pump. This will prevent collapse of the suction piping. Discharge piping should never be larger than suction piping!
3. Attach suction line piping to the suction inlet and discharge line piping to the discharge outlet.
4. Avoid using looped sections of pipe that might permit air to become entrapped.
5. Piping should be checked for any leaks at the connections. Small leaks in suction line greatly reduce efficiency of pump and may prevent priming. Pump should be permanently mounted; never operate a pump unless it is secured to a solid foundation.
6. Do not operate pump dry. Impeller and mechanical seal damage will result.
7. Protect pump from extreme heat, cold, and humidity. This unit is not waterproof and is not intended to be used in showers, saunas, or other potentially wet locations.
8. The motor is designed to be used in a clean, dry location with access to an adequate supply of cooling air. Ambient temperature around the motor should not exceed 104°F (40°C). For outdoor installations, motor must be protected by a cover that does not block airflow to and around the motor. This unit is not weatherproof, nor is it able to be submersed in water or any other liquid. Do not use in or near swimming pool or spa.
9. Install a foot valve and prime pump when suction lift is over 6' or when suction line is longer than 6'.
10. It is strongly recommended that this unit be plugged into a GFCI (Ground Fault Circuit Interrupter). Consult your local electrician for installation and availability.
11. When used in a boat, pump should not be installed in the bilge.

**WARNING:** Disconnect battery when making adjustments and repairs. First, remove the battery NEGATIVE (–) ground cable, then lastly the battery POSITIVE (+) cable.

## OPERATION

1. Pumps are self-priming and should prime themselves within 30 seconds after pump is started. Wetting impeller with pumped fluid and keeping the impeller coated with petroleum jelly will lengthen its life and improve priming action. Running the impeller dry for as short as 30 seconds can ruin the impeller. Keep suction line as short as possible.

**NOTE:** An easy way to prime the pump (wet impeller), if using a garden hose, is to fill the discharge hose; elevate the discharge hose slightly to retain water and start the pump. Another method would be to disconnect the discharge hose from the pump, making a U-bend of the discharge hose. Fill the hose then reconnect (without losing the water) to the pump. In both cases the water behind the impeller will seal the pump and it will prime almost immediately.

2. Unit can be turned on and off by plugging & unplugging cord into 115V outlet.
3. Do not run at heads greater than 25' (11psig).
4. Pump equipped with a 12-Volt DC motor:
  - a. To operate, the motor must be connected to a 12-volt battery in good condition, such as the type used in cars, trucks, boats, etc. Motor will run in either direction. Therefore, connect the red wire to the POSITIVE (+) terminal of the battery, the black wire to the NEGATIVE (–) terminal of the battery to have the flow correspond with the arrow on the cover plate. By reversing the wires to the battery, the pump will discharge from the opposite port.
  - b. Low voltage may cause critical overheating and premature failures. To avoid this, be sure battery voltage is maintained and observe recommended wire size during installation. The motor is splash proof, but not waterproof. DO NOT SUBMERGE.

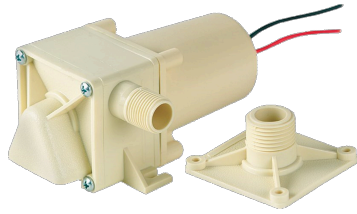
**CAUTION:** Because unit is thermally protected, it is designed to shut off temporarily in an over heat condition; therefore, pumping extremely hot liquids is not recommended. Also, to protect the impeller from breakage, do not pump liquids with a temperature less than 40°F. DO NOT TOUCH MOTOR, IT MAY BECOME VERY HOT.

**WARNING:** Do not submerge pump or motor in water.



## SERVICE INSTRUCTIONS

1. **CAUTION:** Disconnect from power source when making adjustments and repairs. On DC (direct current) versions, first disconnect the black negative (–) lead wire, and then lastly disconnect the red positive (+) lead wire.
2. Always drain pump when not in use.
3. If pump is not going to be used for a month or longer, flush with fresh water and remove body cover, take impeller out, clean inside body and apply generous coating of Vaseline, to both inside body and impeller before replacing impeller in body.
4. Pump should be checked daily, weekly, monthly, etc., for proper operation. If anything has changed since unit was new, unit should be removed and repaired or replaced. Only qualified electricians or servicemen should attempt to repair this unit. Improper repair and/or assembly can cause an electrical shock hazard.
5. TO REPLACE IMPELLER: Replace impeller when it has become worn or damaged.
6. Remove cover plate mounting screws.
7. Remove cover plate and cover plate gasket.
8. Slide damaged or worn impeller off motor shaft.
9. Clean the inside of the pump head and the cover gasket sealing surface. Make certain that there are no foreign materials that would obstruct the impeller's operation.
10. Apply petroleum jelly or similar lubricant to the inside of the pump head and the outside diameter of the impeller.
11. Align the flat on the inside of the impeller shaft bore with the flat on the motor shaft. Push the impeller into place, while twisting the impeller vanes in a clockwise rotation.
12. Place new gasket on pump head face, align holes and replace cover.
13. Tighten cover plate mounting screws evenly and snugly.



## BPLA

### Introduction

This instruction sheet provides you with the information required to safely own and operate your product. Retain these instructions for future reference.

The product you have purchased is of the highest quality workmanship and material, and has been engineered to give you long and reliable service. These products are carefully tested, inspected, and packaged to ensure safe delivery and operation. Please examine your item(s) carefully to ensure that no damage occurred during shipment. If damage has occurred, please contact the place of purchase. They will assist you in replacement or repair, if required.

**READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE, OR SERVICE YOUR PRODUCT. KNOW THE PRODUCT'S APPLICATION, LIMITATIONS, AND POTENTIAL HAZARDS. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!**

### SAFETY GUIDELINES

**WARNING:** When attaching pump leads to battery terminals, be sure that the area is adequately ventilated to prevent an explosion or fire from explosive or flammable vapors that may be present. Consult the battery manufacturer for additional safety information.

Disconnect the pump from the power source before servicing or removing any component.

Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in explosive atmospheres. Pump should only be used with liquids compatible with pump component materials.

Do not handle pump with wet hands or when standing on a wet or damp surface or in water.

Batteries emit explosive hydrogen gas. Avoid smoking, sparks, or open flame anywhere near the battery.

An explosion from the battery can cause blindness. Shield your eyes when working near the battery.

Batteries contain sulfuric acid. In case of contact with eyes, skin, or clothing, flush immediately with large amounts of water and get medical attention.

Do not add acid or electrolyte to the battery.

Keep out of reach of children.

In any installation where property damage and/or personal injury might result from an inoperative or leaking pump due to power outages, discharge line blockage, or any other reason, use a backup system(s) and/or alarm.

Support the pump and its piping when assembling and when installed. Failure to do so may cause piping to break, pump to fall, motor bearing failures, etc.

### ELECTRICAL CONNECTIONS

1. Check the pump label for proper voltage required. Do not connect to voltage other than that shown.
2. For proper motor protection, install a 2.0 amp fuse in the circuit.
3. When using a battery as the power source, attach the red positive (+) lead wire to the positive (+) battery terminal, then attach the black negative (-) lead wire to the ground (-) battery terminal. When disconnecting the pump, first disconnect the black negative (-) lead wire from the ground (-) battery terminal, then disconnect the red positive (+) lead wire from the positive (+) battery terminal.
4. Refer to Table 1 for recommended minimum lead wire sizes.

### OPERATION

**CAUTION:** This pump is designed for intermittent use only (15 minutes on – 45 minutes off) with liquid no hotter than 160°F.

**CAUTION:** The pump is cooled by pumping fluid. Do not let the pump operate dry; this can damage the seal and cause motor failure.

**NOTE:** This pump is designed to operate submerged or in-line. It can be placed in any position below the water level when primed.

1. For proper operation, connect the pump to a steady 12-volt DC power source or a 12-volt battery in good condition. A low-voltage power source may cause critical overheating and premature failures. To avoid this, maintain proper voltage and use recommended wire size during installation (Table 1).
2. Use the hooded inlet plate for submersible operation. For in-line operation, remove the inlet plate mounting screws and replace the hooded inlet plate with the threaded inlet plate. Make certain that the inlet O-ring seal is installed in



the groove on the inlet plate before reassembly. Carefully reinsert the mounting screws, taking care not to cut new threads or strip the screw holes.

2. When connected in-line, slope the hose or pipe connection upward from the pump inlet to the water supply. A flooded suction is necessary for pump to operate.
3. If the surface is dirt or sand, place the pump on a flat object (such as a piece of wood or metal) to prevent it from being clogged.
4. Support the weight of the pump adequately. DO NOT support the pump by the intake or discharge connections alone.
5. Do not restrict the intake side of the pump. This can damage the seal and starve the pump. To reduce the flow, place a valve on the discharge side of the pump or, if flexible vinyl tubing is used, a clamp on the tubing.
6. If the pump will be idle for an extended period, clean it according to the MAINTENANCE section. Do not let the pump freeze in the wintertime. This can cause cracking or distortion that will damage the pump.

## MAINTENANCE

**WARNING:** DISCONNECT THE PUMP FROM THE POWER SOURCE BEFORE SERVICING OR REMOVING ANY COMPONENT.

**CAUTION:** The pump is permanently lubricated. Oiling is not required. DO NOT open the sealed portion of the pump or remove the housing screws.

**NOTE:** The power leads on this pump cannot be replaced; if they become damaged the entire pump must be replaced. Clean the pump periodically to prolong its life and efficiency:

1. Disconnect the black negative (–) lead wire, then disconnect the red positive (+) lead wire.
2. Check the lead wires to ensure that they are in good condition with no nicks or cuts.
3. Remove the volute mounting screws, then remove the volute from the pump. DO NOT remove any other screws.
4. Lightly clean any corrosion or debris that may clog the impeller. Use a brush and penetrating oil and lightly scrape to remove encrusted material.
5. Turn the impeller by hand to make sure it turns freely.
6. Place the pump on a solid surface, ensuring that the pump and impeller are not touching anything. Connect the pump to 12VDC power source for 10 seconds. If the impeller rotates, disconnect the pump from the power source and install the parts in reverse order. If the impeller does not rotate or the pump does not operate properly, return the pump to Franklin Electric or an authorized service center. DO NOT attempt repairs yourself.