



## CP1 - CP2 - CP3 Evaporative Cooler Pumps

For use in evaporative coolers, displays, laboratories, water transfer and other applications; replacement units for OEM equipment

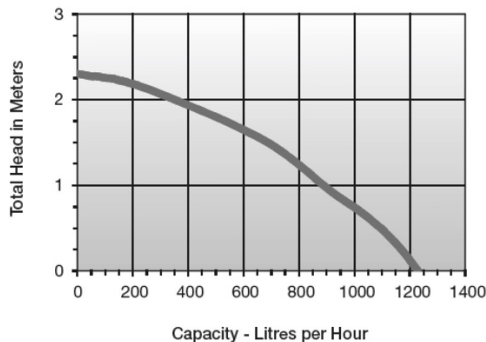
- Heavy duty concentric fan-cooled motor
- Corrosion-resistant, one-piece steel motor shaft
- Moisture-proof windings
- Oversized sleeve bearings with large oil reservoir
- Universal mounting configurations
- 90° barbed elbow with bleed-off
- Discharge elbow fits 12.7 mm, 15.9 mm or 12.7 mm I.D. flexible tubing; and 15.9 mm and 12.7 mm I.D. flexible
- Low pump down and recovery levels
- Flame retardant housing
- Snap-off volute plate for easy cleaning
- Mesh debris screen
- Thermal overload protection
- UR approved



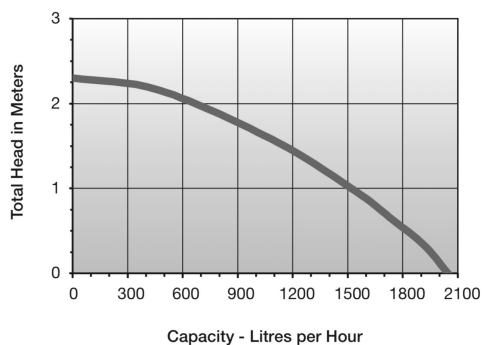
Model	HP	Volts	Capacity	Shut Off	Cord	CFM Rating
CP1-230	1/70	230	1162 LPH @ 0.31 m	2.9 m	1.2 m	5000 - 7500
CP2-230	1/50	230	1900 LPH @ 0.31 m	3.4 m	1.2 m	7500 - 15000
CP3-230	1/30	230	2131 LPH @ 0.31 m	3.7 m	1.2 m	15000 - 21000

All pumps include mounting bracket, low level operation, filter screen, 1.2 m cable.

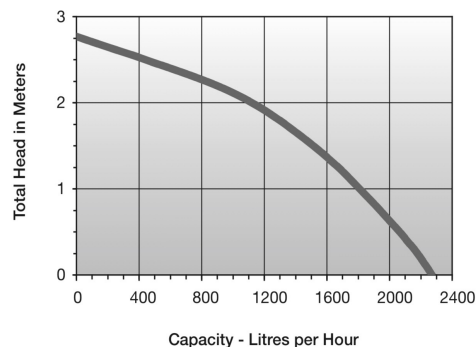
Performance curve CP1 230V, 50Hz LG-EC540015



Performance Curve CP2 230V, 50Hz LG-EC541015



Performance Curve CP3 230V, 50Hz LG-EC542015



**COVERED MOTOR HEAD  
PROTECTION  
FOR LONGER LIFE**



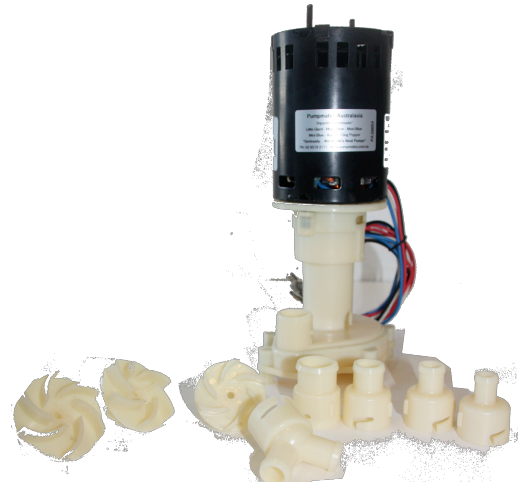
## RIM-U Ice Machine Replacement Pump

Designed specifically to match most of the USA made ice machines. Multiple impellers and adaptors are included to match your ice machine

- 1/25 HP motor, dual voltage motor
- Screened intake
- NSF-listed ABS volute, base and discharge adapters
- Stainless steel shaft
- 4 lead wires, 9 m in length

<b>Capacity:</b>	N/A
<b>Shut Off:</b>	9m
<b>Liquid Temp:</b>	50°C
<b>Discharge:</b>	12.7mm, 15.9mm, 19mm, 25.4mm
<b>Impeller:</b>	NSF-listed ABS
<b>Electrical:</b>	115/230V, 50/60Hz, 125 watts, 1.5/0.75amps

Impeller Diameter	Discharge Adapter (ID Tubing Size)	Flow - Gallons / Liters per Hour 2 ft / .6 m	
		LPH	GPH
44.5 mm / 1.75"	12.7 mm / 1/2"	1097	290
	15.8 mm / 5/8"	1646	435
	19.1 mm / 3/4"	2044	540
	24.5 mm / 1"	2214	585
46.5 mm / 1.83"	12.7 mm / 1/2"	1362	360
	15.8 mm / 5/8"	2081	550
	19.1 mm / 3/4"	2649	700
	24.5 mm / 1"	3066	810
49.5 mm / 1.95"	12.7 mm / 1/2"	1457	385
	15.8 mm / 5/8"	2271	600
	19.1 mm / 3/4"	2876	760
	24.5 mm / 1"	3122	825
53.3 mm / 2.10"	12.7 mm / 1/2"	1514	400
	15.8 mm / 5/8"	2271	600
	19.1 mm / 3/4"	2649	700
	24.5 mm / 1"	2876	760



Note: Maximum Water height on shaft is 80mm

Keeping water away from getting inside

**FITS SO MANY ICE MAKER BRANDS**



CP1 CP2 CP3 Evaporative Cooler Pumps

#### Introduction

Little Giant pumps are carefully inspected, tested and packaged to insure safe operation. When you receive your pump, examine it carefully to determine that there are no broken or damaged parts that may have occurred in shipment. If damage has occurred, make notation and notify the firm from which you purchased the pump. They will assist you in the replacement or repair of the pump.

READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE OR SERVICE THE LITTLE GIANT PUMP. KNOW THE PUMP APPLICATIONS, 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.

### SAFETY GUIDELINES

1. 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.
2. DO NOT HANDLE PUMP WITH WET HANDS OR WHEN STANDING ON A WET OR DAMP SURFACE, OR IN WATER.
3. DO NOT PICK UP THE PUMP BY THE POWER CORD.
4. IF THE PUMP IS SUPPLIED WITH A GROUNDING CONDUCTOR AND/OR GROUNDING TYPE ATTACHMENT PLUG, TO REDUCE THE RISK OF ELECTRIC SHOCK, BE CERTAIN THAT IT IS CONNECTED TO A PROPERLY GROUNDING TYPE RECEPTACLE.
5. IF THE PUMP IS SUPPLIED WITH STRIPPED LEAD WIRES, BE SURE THAT THE LEAD WIRES ARE CONNECTED TO THE RATED POWER SOURCE CORRECTLY.
6. IN ANY INSTALLATIONS 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, A BACKUP SYSTEM(S) AND/OR ALARM SHOULD BE USED.

### ELECTRICAL CONNECTIONS

1. Check the pump label for proper voltage required. Do not connect to voltage other than that shown.
2. If pump is supplied with a 3-prong electrical plug, the third prong is to ground the pump to prevent possible electrical shock hazard. DO NOT REMOVE the third prong from the cord. If the plug is cut or the cord is shortened, then this action will void the warranty.

### OPERATION

1. This is NOT a submersible pump. DO NOT allow water or water spray to enter motor housing. Water level should not exceed 3".
2. Pump should be positioned as far from cooler pads or water source as possible to prevent water damage to pump motor.
3. Ensure that pump is sized to match the CFM air flow of the cooler, per below chart:

MODEL	CFM
CP1	5,000–7,500
CP2	7,500–15,000
CP3	15,000–21,000

4. The cooler pump is designed for use with many existing evaporative cooling units. If the supplied standard mounting bracket configurations do not fit the application in the evaporative cooler unit, a piece of metal strap can be attached by removing the single screw located on the top of the cover. The pump must be attached by some means to prevent the pump from falling over and allowing water to enter the motor housing. Observe method of mounting and install replacement in same manner as original pump.

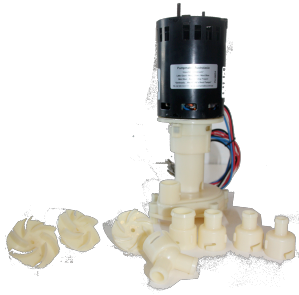


5. Depending upon the pump model, the pump is equipped with an elbow designed for use with 1/2", 5/8", or 3/4" ID tubing or simply 5/8" or 3/4" ID tubing. The elbow incorporates a bleed-off port which is designed to allow a small amount of water to be pumped out of the cooler basin which helps reduce scale build up. The bleed-off port is designed to fit 1/4" OD or 3/8" ID tubing. The pump is shipped with the bleed-off port plugged for applications not requiring this feature.
6. Use a screen or strainer around the pump base to prevent particles or debris from clogging the impeller or discharge line.
7. Route the power supply cord of the pump in same manner as was done in the original installation.
8. The following items are offered as replacement:

## **SERVICE INSTRUCTIONS**

**MAKE CERTAIN THAT THE UNIT IS DISCONNECTED FROM THE POWER SOURCE BEFORE ATTEMPTING TO SERVICE OR REMOVE ANY COMPONENT!**

1. This unit is permanently lubricated. Oiling is not required.
2. Periodically remove the bottom plate which is pressed onto the pump base. Lightly clean any corrosion or debris which may clog the impeller or pump cavity.
3. Turn the impeller by hand to make sure it turns freely. Set pump down so you are not touching pump and impeller is not touching anything. Plug the unit into GFCI circuit for 10 seconds to see if the impeller turns; a) If it is rotating and GFCI did not trip, un-plug unit and install parts in reverse order in which they were removed. b) If it does not rotate, if pump is tripping circuit breakers, or not operating properly after cleaning, return to Little Giant or it's authorized service center. DO NOT attempt repairs yourself.
4. Be certain power cord is in good condition and contains no nicks or cuts.



RIM-U

#### INSTALLATION

1. The installation of the replacement pump requires use of the factory mounting bracket to support the pump. Make note of the orientation of the pump when mounting the replacement pump in the ice machine unit. Protect replacement pump from water splash.
2. The pump must be securely mounted in the ice machine unit. Failure to securely mount the pump could result in pump failure and electric shock hazard if the pump were to tip over into the water.
3. The universal dual voltage ice machine pump is equipped with various impellers and discharge adaptors to satisfy virtually all mounting configurations and flow requirements for standard ice machine units (see replacement parts list and pump diagram).
4. The pump is equipped with impeller diameters of 1.75", 1.83", 1.95", and 2.10" (1.83" diameter impeller is pre-assembled). The pump also contains discharge adaptors sized to fit 1/2", 5/8", 3/4", and 1" I.D. tubing.
5. When installing pump, match the impeller diameter of the pump being replaced with a similar diameter impeller provided with the new replacement pump. Also, note the discharge adaptor being used on the pump being replaced and select the correct discharge adaptor offered with the replacement pump.
6. The universal dual voltage ice machine pump motor is designed for use at 115V or 230V depending upon the ice machine unit requirements. Installer needs to verify the voltage

Wiring diagram:



7. Refer to exploded diagram for assembly/dissassembly of pump. No tools are required in the pump assembly/dissassembly.
8. To clean pump, remove the (6) thumb nuts in base and clean out with warm water and mild soap. Impeller can be removed by simply pushing impeller forward (compressing spring) and removing thumb nut located in the center of impeller (see figure 1).

#### Disassembly Instructions:

Determine which impeller is required for the factory ice machine unit by comparing the impeller size to that of the original pump.

Remove (6) thumb nuts from the volute plate. Do not lose the o-ring seal located inside the volute.

Press impeller against the pump stand and remove the impeller nut.

Remove impeller (Be sure not to lose the impeller spring located on the back side of the impeller).

Remove (2) motor thumb nuts and washers from pump stand.

Remove pump stand. 10. **Assembly Instructions:**

1. Place motor on work surface with shaft end up.
2. Place factory mounting bracket on motor studs followed by the pump stands (align the motor bracket as required).
3. Be sure that motor shaft is aligned or centered in the pump stand. Place flat washer and lock washers on the motor studs and secure with motor thumb nuts.
4. Select proper impeller. Apply impeller spring in D-shaped hole on back of impeller. Apply impeller onto shaft and push impeller all the way down onto shaft until impeller is touching pump stand.
5. While impeller is held against pumps and, apply impeller thumb nut and tighten down until the nut touches the raised notches on the impeller.



6. Release pressure on the impeller. The impeller should spring forward so it is no longer resting up against the pump stand. Make sure impeller thumb nut locks into place between raised notches on impeller (see figure 1).
7. Spin the impeller by hand and make sure that it does not rub up against the pump stand. The clearance between the impeller backplate and the stand should be about 1/16".
8. Apply o-ring seal to bottom of pump stand so that it rests in the provided sealing groove.
9. Apply volute plate and tighten (6) thumb nuts.
10. Before final installation, test the pump to insure proper assembly.

