MARCH/APRIL 2014

P2P

PUMPING TO PERFECTION

GPC
GENERAL PUMP COMPANY
SINCE 1975

PUMP UNWANTED WATER DOWN TO THE LAST 5mm

Have you ever had a situation where a basement or site is flooded with no easy way of draining it?
Sick of bucketing the last 2 inches of water?

The 'Ultraflow' AL45 'puddle sucker' is the answer! The 'Ultraflow' AL45 can pump down to the last 5mm of water which can save hours instead of wasting time using mops and buckets to dispose of the last 30-50mm of unwanted water which cannot be pumped out using a normal dewatering pump. The 'Ultraflow' AL45 can pump large puddles almost dry!

General Pump Company also stocks hose kits to suit.
Call 1300 662 787 today to organise your 'Ultraflow' puddle sucking kit!

Hello and welcome to the March/April P2P edition!

Following our extensive testing in Australia over the last 2 years, General Pump Company has now released the 'Ultraflow' hot water circulator pump range. These pumps have been in the world market place since 1949 and represent quality, reliability and efficiency. They take place alongside our wide range of good quality products at competitive prices. With almost 40 years of experience in the industry, General Pump Company simply know pumps better. The following are just some of the reasons to make General Pump Company your first call with all your pump requirements:

- As a **family business** - we care!
- **Competitive prices** - buy direct from the importer and manufacturer
- We keep **large stocks**, so we don't keep you waiting
- **Fast delivery**
- **Almost 40 years industry experience**
- **Access to over 120 different brands of pumps**

Contact us today on 1800 662 787!

PRODUCT FOCUS See page 2

ULTRAFLOW 1000 LITRE SEWAGE PUMP STATION

FREE CASE OF 24 CORONA BEER WITH EVERY 1000 LITRE PUMP STATION SOLD

PRODUCT FOCUS

Have you ever had a situation where a building cannot drain to the sewer? Wouldn't it have been helpful to have a simple package which included pumpwell, sewage pump and pipework?

PACKAGES FROM
$1950
+GST*

'ULTRAFLOW' 1000 LITRE PACKAGED PUMPING STATION

The 'Ultraflow' 1000 litre packaged pumping station is an excellent sized unit used in conjunction with many types of buildings, especially the family home. This size has been approved for use in many applications around the country. This standard 1000 litre sewage package pumping station comes complete with:

1. Reinforced fibreglass pumpwell
2. Reinforced fibreglass access cover
3. Brass gate valve
4. Brass check valve
5. One (1) 'Ultraflow' UACN750/50/1 sewage cutter submersible pump, with floatswitch and 10 metre power lead.
6. Interconnecting PVC 50mm pipework
7. 50mm male threaded connection

Optional Extras

- Visual & Audible alarms
- Pump overload protection
- Gatic, gas tight concrete infill lids
- Twin (Dual) pumps
- Guide rail systems
- Sewage grinder submersible pumps

FREE CASE OF CORONA BEER 24 PACK WITH EVERY 1000 LITRE PUMP STATION SOLD! QUOTE 1KBEER WITH YOUR ORDER TO RECEIVE.†

*Price includes complete pump station with pump and pipework as outlined above. Prices excludes delivery and GST. Subject to change without prior notice.
†Beer offer ends 30/04/14. Where delivery/transport of the beer offer is not practical, a $50 gift voucher will be offered in its place.

T 1300 662 787 F 1300 662 717 E sales@generalpumps.com.au W www.generalpumps.com.au

NEW PRODUCT

General Pump Company now has on offer a range of 'installer friendly' and 'user friendly' dual hot water circulating pump systems! These simple 'plug n play' systems offer huge time savings for the installer and provide reliable and efficient circulation of hot water.

A typical 'Ultraflow' dual hot water system includes:

1. Stainless steel manifolds
2. Brass isolation valves
3. Brass check valves
4. 2 x 'Ultraflow' circulator pumps each with brass body and 3 speed motor
5. Control panel with programmable 24 hour time clock, indicator lights, alternating starts and manual override
6. Galvanised steel base plate with pre-drilled mounting holes
7. 240 volt plug

LARGE PUMP RANGE

PREMIUM CONTROLLERS

TEMPERATURE GAUGES AIR RELEASE VALVES

ENCLOSURE MOUNTED UNITS

ADVANTAGES

- Compact design
- Suction & discharge can be connected from the left or right side of the system
- 20mm, 25mm, and 32mm connections available
- Factory pressure tested prior to dispatch
- Fast delivery

Contact the pumping specialists today!

1300 662 787

Q&A: Will a 3 phase centrifugal pump still pump liquid when it operates in reverse rotation?

Q: Will a 3 phase centrifugal pump still pump liquid when operates in reverse operation?

A: Yes in most cases it will still pump liquid. Performance will be significantly lower, and often the pump will make a louder noise and/or vibrate.

Q: Will it destroy the pump if it operates in reverse rotation?

A: Nearly all centrifugal pumps are designed to rotate in one direction only. If you continuously operate the pump in reverse rotation, yes, the impeller can be severely damaged, can unscrew off the shaft, can overload the motor or burn the motor out completely.

Q: How do I know if a 3 phase centrifugal pump is operating in the wrong direction?

A: There are a number of symptoms that may suggest incorrect rotation.

1. The performance will be far less than what it should be.
2. It will draw more amps and often trips the overloads.
3. Often it will make a different sound and at times vibrate significantly.
4. In submersible applications, generally there is a lot of turbulence around the pumps.

Q: What makes an electric motor driven centrifugal pump run in reverse rotation?

A: Electric 3 phase motors are designed to rotate in either direction depending on the wiring configuration. Therefore by reconfiguring the wiring, the direction of rotation can be changed.

Q: How can I check if the 3 phase pump is operating in the correct rotation?

A: With most pumps there is normally an arrow pointing in the direction of correct rotation. This may be on the data plate, a sticker on the pump, or sometimes even cast into the casing pump. You can physically check rotation by looking at the fan on the electric motor of a surface mounted pump. If it is a submersible pump, you will have to carefully and safely position the pump into a position where you can observe the impeller. Then switch the pump on briefly and check the direction it is rotating. Be careful not to run a submersible too long, as they rely on water around them to keep them cool.

It isn't always easy to physically inspect the impeller to check the rotation, and sometimes the only way of telling if it is operating in the correct rotation is by observing which wiring configuration offers the better pressure and flow.

Obviously when the higher pressure and flow and pressure is achieved, you have the correct rotation.

If there is no indication of the correct rotation on the pump, you will need to check the design of the vanes on the impeller and determine the correct rotation. This is shown in the diagrams below.

IMPORTANT!

It is the responsibility of the electrician to check for correct rotation when wiring a 3 phase electric motor.

Site power supply can change for various reasons. E.g. when a construction site is transferred from a temporary power supply to permanent power supply.

TIP

With smaller submersible pumps, the torque of the motor starting causes the pump to kick in the OPPOSITE direction to the actual rotation of the motor. Therefore if you see the pump kick in the same direction as the rotation arrow, the motor will be rotating in the wrong direction.

Different impeller types and their rotation

Type 1 Type 2

Quote of the Month: "You must have a WILL to win... You can't score a goal from the sidelines!"

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