JULY/AUGUST 2014

P2P

PUMPING TO PERFECTION

GPC
GENERAL PUMP COMPANY
SINCE 1975

WAITING TOO LONG FOR HOT WATER?

Do any of your clients wait long periods of time for hot water to arrive at the tap?

Now that we're in the Winter months, there's nothing worse than waiting for hot water… not to mention the cumulative hundreds of litres of water wasted in the process!

By installing an Ultraflow hot water circulating pump and a return line back to the hot water heater, the days of waiting for hot water are over! You can be sure that your hot water circulation requirements are met – when it comes to hot water circulating pumps, General Pump Company stocks hundreds of different shapes and sizes!

When replacing an existing circulating pump of any brand, the Ultraflow UCF and UCV pumps can be used – mostly the 'Ultraflow' will fit perfectly and the existing unions can be used again. By installing a quality, competitively priced 'Ultraflow' circulator pump which is manufactured in Europe, you can be sure that you and your client will have the experience of getting true value for money!

General Pump Company also manufactures dual pump turnkey packages complete with pipework and controls. What does this mean for the installer?

- ✔ Quick installation process
- ✔ Your system has been tested
- ✔ Preset controls
- ✔ Prewired pumps and controller – no electrician required

CALL US TODAY FOR ALL YOUR HOT WATER CIRCULATOR APPLICATIONS!

PRODUCT FOCUS See page 2

ULTRAFLOW CF100MB PRESSURE PUMP

Hello & Welcome to the July/August edition of P2P!

This issue marks 12 months of keeping you informed about new products, great specials, case studes, project updates and useful tips!

Two major events for GPC are soon to take place. 2015 marks 40 years of successful business operation, involving 3 generations, with the 4th generation joining the team in the not too distant future.

This steady growth is the reason for the next big event. We have outgrown our current location and will be relocating to significantly larger premises in Emu Plains, NSW, during the Christmas shutdown period. Stay tuned for more details closer to the time.

As always, the experienced team at General Pump Company is ready to assist with all your pumping enquiries.

T: 1300 662 787

or email your specs to: sales@generalpumps.com.au

PRODUCT FOCUS

Looking for a good quality pressure pump?

GREAT PRICES FOR GREAT QUALITY

$265 +GST*

General Pump Company has on offer the quality Ultraflow CF100MBMD pressure pumps. These pumps come with heavy duty, robust cast iron casings, brass impeller and stainless steel shaft. This model is ideal for connecting to an above ground water tank, and servicing 3 -4 taps. These pumps are fitted with an electronic pressure controller that automatically switches the pump on and off and provides 'dry running' protection.

The 'ULTRAFLOW' pressure pump range is used in many applications including:

- Water supply to homes, farms, factories
- Rainwater reuse
- Irrigation Systems
- Stock watering

Features include:

- Cast Iron pump casing
- Brass impeller
- Stainless steel shaft
- Low noise
- Powerful 1.0 HP / 750 watt motor
- Electrical lead/plug
- 2 Year warranty
- Quality 'WATERTECH' pump controller
- Made in Italy

OTHER ULTRAFLOW PRODUCTS INCLUDE:

LARGE PRESSURE SYSTEMS

RAIN TO MAIN SYSTEMS

SELF PRIMING PUMPS

ACQUASAVER RAIN TO MAINS DIVERIONS VALVES

PRESSURE PUMP ACCESSORIES & REPLACEMENT CONTROLLERS

*Prices exclude GST and Freight. All information AND pricing is subject to change without prior notice. Offer ends 30 August 2014 or while current stocks last.

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PROJECT REVIEW

The Hawkesbury Institute for the Environment is a research centre that studies many different aspects of our environment including soil types, climate change, animal habitats and behaviour, and many other areas.

Building L9 of the Hawkesbury Institute for the Environment had a major problem with the water pressure at their facility. The pressure was extremely low and provided no more than a trickle of water through the taps during times of peak water usage. Due to the nature of the sophisticated experiments being carried out by the researchers, more water pressure was required.

General Pump Company worked along with the plumbing contractor to investigate the pressure issue and after a number of tests, it was concluded that the mains water supply to the building needed to be boosted by approximately 400kpa to get it to a satisfactory pressure.

General Pump Company designed, manufactured and supplied a dual pump mains booster system consisting of:

- Two vertical multistage pressure pumps which achieve high efficiencies, minimising energy consumption. By installing two pumps, there is back-up in the event that one pump is off line. Also in the event that one pump is not sufficient for the demand, the second pump will assist.
- The pumps are fitted with custom designed stainless steel pipe manifolds and brass valves.
- Two variable speed controllers. These controllers speed the pump motors up and down according to the demand. This eliminates the pump running at full speed when there is only a small demand for water. Variable speed driven pumps offer very significant energy savings - which is money savings – while at the same time, provides constant pressure.
- The pumps, pipework, controller, pressure vessel were all mounted on a base plate and pre-tested prior to delivery.

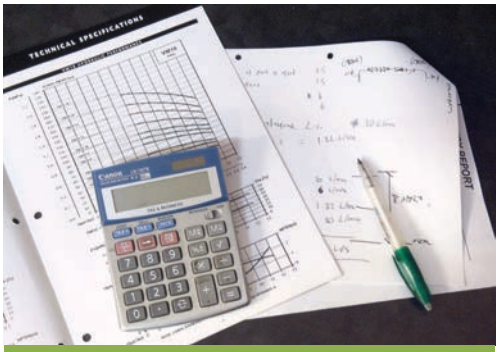
The system was installed and the pumps provided excellent pressure and flow – exceeding the expectations of the personnel at the facility. The system has been operating successfully and has aided researchers with their experiments and increasing the efficiency of the operation at the site.

What our customer says…

We would like to take this opportunity to thank you for providing your expertise from design to supply.

The detailed quotation that was provided by General Pumps gave us an advantage, in providing our estimate to supply and install the proposed pressure system, for the new Institute for the environment at UWS Hawkesbury campus.

- B.C – Orchard Hills



Research and design

Pump system assembled, factory preset, tested and ready for despatch.

The pressure boosting pumping system installed and operating.

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Q&A: What is the difference between a sewage cutter submersible pump and a sewage grinder submersible pump?

Q: What is the difference between a sewage 'cutter' and a sewage 'grinder' submersible pump?

A: A sewage 'cutter' submersible pump generally rips or tears the sewage and pumps it away. A sewage 'grinder' pump has a rotary grinder head which rotates inside a stationary grinder ring. Sewage 'grinder' pumps grind / chop up the sewage into a fine pulp…much finer than what a sewage 'cutter' pump will achieve.

Q: When should I use a sewage 'cutter' submersible pump and when should I use a sewage 'grinder' submersible pump?

A: Sewage 'cutter' submersible pumps typically pump higher flows at lower pressures / head. They are generally used in applications where the discharge pipework is 50mm - 80mm diameter and the vertical height is within 10 - 15 metres. A sewage 'grinder' submersible pump on the other hand typically pumps lower flows at higher pressures / head. They are generally used where the discharge pipework is 32mm - 50mm diameter. These grinder submersible pumps can pump up heights of 65 metres vertically and up to 2-3 kilometers horizontally. As the sewage is ground / chopped up to a fine pulp, it passes through the smaller diameter discharge pipes without clogging or blocking up.

Q: Will sewage 'cutter' and 'grinder' submersible pumps cut / grind up sanitary items, wet wipes, towel, fabric, plastic, string / rope and the like?

A: In short, the answer is, NO! In our 39 years of experience supplying and servicing sewage 'cutter' and 'grinder' submersible pumps, we can confirm that there is not a brand or size of sewage 'cutter' or 'grinder' submersible pump that will successfully 'cut' or 'grind' sanitary items, wet wipes, towel, fabric, plastic, string / rope etc. Mostly the pumps will jam and overload. There are times where sewage 'cutter' and 'grinder' pumps do 'cut' and 'grind' these types of items – and if this is the case, it is good luck! In public areas, shopping centres, hospitals, caravan parks and the like, it is very difficult to control what enters the sewer. Warning signs etc. mounted in toilet areas can help but is no guarantee for stopping the 'foreign' objects entering the sewer. General Pump Company does have a solution for these types of applications which has been developed and proven over the last 39 years – for enquiries relating to these situations, please contact our sales team for a proposal!

Q: What happens if a sewage 'cutter' or 'grinder' submersible pump jams?

A: When the pump is jammed or clogged, it will overload the motor. When a 240 volt motor is overloaded it will normally set off the overload switch in the motor (if fitted). This inbuilt overload will automatically reset after a period of time and the motor will try to restart. If the pump remains jammed or clogged, the automatic overload will reset several times before failing and then the motor will 'burn out' causing permanent damage. If a 415 volt motor is overloaded, the overload in the control panel will 'trip' and this will need to be manually reset. The pump should be checked for jamming or clogging before resetting the overload.

Q: Is there any additional protection available to prevent an motor from 'burning out'?

A: Yes, there are various methods of protecting a motor from 'burning out'. The most common method is to install an external 'thermal overload'. An external thermal overload is normally mounted in a controller and measures the amount of amps that the motor is drawing. If the motor draws more than the pre-set 'overload' setting, power will be cut to the motor. In most instances, this will protect the motor from 'burning out'.

Do you have a requirement for a sewage submersible pump? If so call the pump specialists today! Ph: 1300 662 787

Sewage Cutter Pump
with Cutter / Impeller

Sewage Grinder Pump
with Grinder & Grinder Ring

TIP **NEVER install pipework that has a smaller internal diameter than the solid passage of the pump! Every sewage pump has a solid passage, which is the maximum size of solid that can pass through the pump. Obviously if the pipe size is smaller than the solid passage of the pump, the pipework will block / clog up.**

Quote of the Month: "NEVER give up! Whatever the trials and difficulties surrounding you, it is always too soon to quit"

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