

PRODUCT BULLETIN

Release of the LA630M2/LA632M2 Analyzer Feed and LA648M2 Ro Boost Pumps

Information only		Action required	Immediate action required
Product(s) Affected	LA630 – Analyser Feed Pump – 230V – 50Hz LA632 – Analyser Feed Pump – 115V – 60Hz LA648 – RO Boost Pump – 230V – 50Hz		
Bulletin Reference	PB0001-10 – Issue 1	Produced By	Steve Bryant
Type	Product Release	Sales Approval	Mat Hammond
Circulation List	Sales & Technical	Technical Approval	Lee Underwood / Joel Paines
Date of Issue	July 2010	Manufacturing Approval	Alastair Wardrop

1. Introduction

The Analyser feed pump was introduced in 2001 and the RO Boost Pump in 2002. The difference between the LA630/LA632 is the Pressure set point which is 60Psi for the LA630/LA632 and 90Psi for the LA648.

The Analyzer Feed Pumps are being used incorrectly to distribute water around loops and on most systems this is 24/7 continuous. The pressure setting is also being modified to run at about 70-80psi pressure. Time switches are being fitted to some systems to turn off the pump at night time/weekends to lengthen pump life up to 460 days.

In order to significantly improve this we are launching replacement M2 products which provide a pressurised feed to the application when the application actually requires it.

These replacement products will pump water around a distribution loop and increase its flow during peak demand.

2. Models and Serial Numbers

The Analyzer Feed Pump and RO Boost Pump is available in the models detailed below.

3. Product Codes and Descriptions

The following new products have been released;

Part Code	Description	Product withdrawn from sale
LA630M2	LA630M2 – Analyser Feed Pump – 230V – 50Hz	LA630
LA632M2	LA632M2 – Analyser Feed Pump – 115V – 60Hz	LA632
LA648M2	LA648M2 – RO Boost Pump – 230V – 50Hz	LA648

4. Detailed Description of New Product, Improvement or Change

All information relating to this product can be found on the Extranet which is continually updated.

5. Technical Specifications

All information relating to this product can be found on the Extranet which is continually updated.

Specification	LA630M2 – Analyser Feed Pump – 230V – 50Hz	LA632M2 – Analyser Feed Pump – 115V – 60Hz	LA648M2 – RO Boost Pump – 230V – 50Hz
Maximum Open Flow	2.5l/min		
Maximum Flow at 2.4bar	1.8l/min		
Preset Pressure	2.4bar (± 0.3), 35psi (± 4 psi);		6 bar (± 0.3), 90psi (± 4 psi)
Operating Temperature	4 °C minimum, 35°C		
Operating Voltage	24VAC (transformed from local supply)		
Inlet Connection	8mm OD Tube		
Outlet Connection	8mm OD Tube		
Dimensions	L 160mm (6.5in) x W 180mm (7in) x H 300mm(12in)		
Weight	3.5 Kg		

Description

The Variable speed delivery pump is controlled by a built-in pressure transducer, and solid state electronic control.

The pump can be operated in the following methods;

Water on demand

The pump can be plumbed so that it delivers water on demand.

When a valve is opened downstream of the pump the pressure in pipe work will reduce, and the pump will start automatically.

During operation the speed of the motor is regulated so that the flow matches the demand of the preset operating pressure (35psi). This operating pressure is none adjustable in the field.

When the valve is closed the pressure in the pipework will start to rise and the control circuit reduces the speed until the point that it switches off the pump.

If the pressure in the line drops due to leaks then the controls will try and retain pressure by restarting the pump. This may lead to the pump 'hunting'.

Recirculation (LA630M2/LA632M2 Only).

The pump can be plumbed so that it operates in recirculation mode.

In this method the pump can only be feed from a reservoir. It is important to put a flow restrictor (1l/min) and a 1bar (15psi) non –return valve in the return line to the reservoir. This will limit the flow back to the reservoir and reduce the pump speed. This will increase the life of the pump when operated in this mode.

The system will then deliver from the recirculation loop as the pressure starts to fall. The system will rise in pressure (35psi) during recirculation but as the demand increases to its maximum then the pressure will reduce (effected by the NRV pressure).

Cautions

The pump incorporates an internal pressure relief valve. The relief valve is preset at 135psi. It is important that the pressure relief is not tampered with. Changing the factory preset may prevent the pump from shutting off.

The electronic controls are housed in the base of the pump and encapsulated and there are no serviceable parts.

Pumphead materials are designed for use with water only.

If the pump is feed from a pressurised supply, the pump will not stop forward flow of water even if the motor is turned off. Ensure that all installations that are pressure feed include a suitable inlet isolating valve.

Plumbing

Only flexible tube of the correct pressure must be connected to the system.

The pump will only prime if all the pressure is relieved from the outlet port.

It is recommended that a strainer be installed in inlet to the pump (150 micron) so that debris does not enter the pump head.

Minimise the number of connections in the line connected to the application. Small leaks will cause the pump to cycle and may effect the lifetime.

When the pump is installed in recirculation the maximum flow may be effected by the back pressure created by the dispense valve or final application. If the back pressure exceeds 1bar then flow will be directed back to the reservoir.

Mounting

The housing is designed to operate stood up, on the four rubber feet. If the system is laid down then issues may occur related to trapped air within the pump, resulting in a reduced performance.

The pump should be mounted in a dry place and away from any source of heat.

Commissioning

Once the pump is installed the pump should be operated with the discharge or dispensing valve open. Allow air to purge from the system. If the pump runs erratically. Leave the valve open, isolate the power, and then reapply the power.

It may take several days, depending on usage, for the system to fully stabilize. This is due to air trapped in the pump head that is difficult to remove.

Important Note

There are no spare/replacement parts for the new LA630M2/LA632M2 Analyzer Feed and LA648M2 Ro Boost Pumps.



6. Product Pricing

Pricing will remain the same as the current Analyzer Feed and RO Boost Pump until the end of 2010 after which there will be a significant price increase.

The LA630M2, LA632M2 and the LA648M2 will be available to order with immediate effect and the standard 2 week despatch lead times will apply.

Please note these despatch lead times are for guidance only and confirmation of the actual ex-works dates will be made on receipt of the order. These lead times are dependent on ELGA LabWater receiving accurate and regular forecasts.

Outstanding orders for LA630, LA632 and LA648 will automatically be replaced with the M2 variant.

7. Attachments

None

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