

PERISTALTIC PUMPS

15 & 30 CHANNEL WITH STANDBY FACILITY



Introduction

Burkard peristaltic pumps for continuous flow analysers are available in 15 & 30 channel units. 45 channels are offered for specific applications. The construction of this type of pump ensures long tube life and precision flow rates 24 hours a day. They have two pumping rates; 4rpm for analysing and a standby mode providing 5 seconds rotation in every 30 seconds. This allows a valuable saving in reagents during non analysing periods.

Platen assemblies

A 30 tube pump has two detachable platen assemblies. Pivoted at one end they snap on and off easily for tube access. The platens close uniformly on the 15 or 17 tubes using the pressure lever applying adequate downward pressure to all tubes simultaneously irrespective of bore sizes. The forward end of the platen housing is locked by latching pins that operate safety switches to remove power and stop the pump when rotating parts are exposed.

Tube fitting and tensioning

One of the many features of the pumps is the tube tensioning and de-tensioning. There is no obstruction when fitting standard length 2 bridge tubes to the pump, and once in position they are tensioned on start-up by a simple lever at the rear of the pump. With the lever in the forward position and platen assembly removed each tube is inserted in a locating groove in the retaining blocks and secured by plastic bridges cemented to the tube.

Because the tubes flex after a 7 day analysing period each set of 15 may be re-tensioned by one of four positions of the tube retaining block. So, although the tubes benefit from de-tensioning overnight the movable tube retaining blocks ensure the tubes are correctly aligned to avoid snaking.

Tube retaining blocks will accept both large bore and small bore tubes side by side, and when there is a need to increase pump capacity for smaller tubes the 17 way blocks (optional) provide 4 extra positions.

Engineering quality

Series 2000 analytical systems rely on precision-uniform flow rates essential for quality analysis. Engineering design and robust construction of Burkard peristaltic pumps include the following.

Two powered roller assemblies each with 12 stainless steel contra-rotating rollers are supported on a 20mm diameter central shaft.

Heavy duty sealed ball journals mount either end in the pump frame.

A geared reduction motor solidly mounted beneath the cages is sealed from liquids resulting from fractured pump tubes by an anodised metal tray with waste outlet.

The final drive to the roller assemblies is by chain which may be adjusted and finally tensioned by the motor mounting screw.

Control panel

The control panel housing blends in with the design of all complementary instruments that form the complete analyser. It contains the solid state standby timer and control switches which are fully protected by a hinged cover. The housing is easily removed for servicing the motor bearings, timer unit and adjustment to the time interval.

Operating safety and maintenance

During use all moving parts are adequately guarded and all electrical components protected, fused and fully compliant to CE test standards. Burkard pumps are maintenance free in operation.

Specification

Model type	PP15	PP30
Product Code	BS00226	BS00225
Number of channels	15/17	30/34
Overall size (mm)	85 x 280 x 270	85 x 400 x 270
Net weight (Kg)	9	13.5
Fuse ratings	2A @ 240V, 4A @ 110V	
Input supply voltage	110/240V, 50/60Hz	
Tube types	PVC, Viton, Solvaflex, Silicone	

Ordering Information

Product Code	Description
BS00226	15 Channel Pump, PP15
BS00225	30 Channel Pump, PP30

The company reserves the right to make changes to the specification without notice. For details on flow injection systems, continuous flow analysers, data handling systems and specialised process control equipment please contact Burkard Scientific. Burkard Scientific reserves the right to change specification without notice.

