



Mk7 Dispenser *peristaltic filling machine*

The Accuramatic Mk7 is a versatile dispensing machine based on a peristaltic pump. It is designed for use in laboratories and small-scale industrial and packaging applications.

It can dispense volumes from 1ml to 2.5 litres to an accuracy of +/- 1%, and will handle a wide range of liquid products through its single tube arrangement. The Mk7 is robust, simple to operate and has minimal maintenance requirements.

SPECIFICATIONS

VOLUMES	: 1 ml to 2.5 litres
REPEATABILITY	: +/- 1%
MAX FLOW RATE	: 36 ml/sec
POWER SUPPLY	: 90 - 250V 40 watts
DIMENSIONS	: W 155mm, H 255mm, D 390mm
WEIGHT	: 8 kilos

Product compatibility

The Accuramatic Mk7 is the practical solution for dispensing liquids in numerous environments. Pharmaceutical, medical and quality control laboratories use this dispenser for filling media, diluents and reagents and for sampling. It is frequently installed on filling lines and is popular in the aromatherapy and perfumery industries.

Using a peristaltic pump system ensures that the liquid product only comes into contact with a single length of tubing, which can be removed or inserted quickly and easily. There is no contact between the product and any working parts, and cross contamination of products is avoided simply by changing the tubing. This method of pumping is ideal for many liquids including those which are unpleasant to handle or of high cost (wastage is minimal), and it is gentle enough to work well with shear-sensitive products. The stainless steel casework (easily sterilised with ethylene oxide) makes it particularly suitable for microbiology laboratory and food industry use.

This dispenser has a rapid braking system. It also offers two other braking options. Some liquids with low surface tension or low viscosity are prone to drip. The Mk7 has a facility to reverse pump direction briefly at the end of the dose sucking sufficient liquid back into the delivery tube to prevent drip formation.

When filling bacterial media, sharp braking causes an entrained air bubble which remains in the product. There is a "ramp stop" option on the Mk7 to avoid this. It also avoids frothing over where products are filled close to the container rim.

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Tubing wall size

Standard tubing wall size is 1.6mm. Tubing in a wide range of materials are available in this size but it is a change from the previous 2.0mm wall size. If pumps are required with pump head for 2mm wall tube, we can still supply them.

Dose volumes

The dose volumes are determined by the tubing bore size and the dose duration. The dose time is selected by the operator to a precision of 1/100th of a second, with a maximum of 99.99 seconds. The Mk7 is supplied with a selection of tubing sized from 0.8mm to 8mm bore, making it suitable for filling a very wide range of dose volumes to high precision.

Dosing can be initiated manually by pressing the button or footswitch, the machine can also fill repeatedly in automatic mode, with the interval delay selected by the user (up to 9.9 seconds).

Once a dose has been delivered the dose duration is saved in memory and will be the default value next time the machine is switched on. In automatic mode the delay time is also saved in memory.

Interfacing the Mk7 with other equipment

The Mk7 links with our XY and XYZ Distributors for automated filling of bottles in grid format. Connection to other machines is usually straightforward - we are always happy to offer advice.

Cleaning and maintenance

Clean stainless steel with a proprietary cleaner, and the membrane switch panel with soapy water (avoid abrasives!).

No other routine maintenance is required.