

PERIFLEX 300



Robotic filling station for vials and tubes

The Periflex 300 is a peristaltic pump based vial and tube filling system designed for both small and medium sized batches and is particularly suitable for aseptic filling tasks.



- Incorporates high-precision, 3-axis robot
- Capacity for up to 1000 vials
- Septum piercing option for filling stoppered vials
- Security shield with automatic “stop” activation
- PC controlled with highly flexible software
- Can be driven by data in Excel™ spreadsheets
- Entire pump head removable for easy cleaning
- High-precision peristaltic pump
- Fully autoclavable probes and tubing sets
- Robust and reliable
- Cost-effective

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The Periflex 300 is a compact and highly flexible instrument providing cost-effective automation for all filling tasks. It incorporates a number of technical features which give it the ability to tackle tasks well beyond those of simpler filling stations.

The Periflex 300 is particularly suitable for filling tasks involving:

- Multiple racks and types
- Stoppered vials
- Tube specific data (e.g. driven by worklists)
- External data control (e.g. driven by Excel™)

Pumping System

At the heart of the Periflex 300 is a high-resolution peristaltic pump drive which delivers precisely metered quantities of liquid into any tube or vessel that fits on the instrument's deck. Different pipetting layouts can be created to cope with any array of racks or tubes. A recirculation valve option helps maintain homogeneity when dispensing suspensions by diverting the flow back to the source bottle at programmable intervals.

Flexible Software

The Periflex 300 software makes the job of performing a filling task as simple as possible. Applications can be totally fixed - ideal when the number of vials and volume required is always the same. Alternatively, the Periflex can be setup to allow the operator to modify these and other parameters when the batch is processed.

Once a batch is selected, on-screen prompts tell you how many racks to load onto the instrument. When processing batches larger than the capacity of the instrument deck you are prompted to replace the racks once they have been filled.

Throughout the filling task itself, the graphical interface provides the operator with continuous information on the progress of the batch. The display shows which tubes have been processed and also indicates how many racks have been processed and how many are still to be filled.

Tube Specific Fill Volumes

The optional use of a Worklist enables the Periflex 300 to dispense different volumes into different sections within a rack or even to individual tubes. The volumes required are simply entered into a worklist against each tube position.

External Dimensions

Instrument size (mm)
Without Security Shield: Depth - 580, Width - 660, Height 560 (to top of Z rack)
With Security Shield: Depth - 7000, Width - 660, Height 820 (to top of cover when raised)

Software requirements

Operating System: Windows XP

Spreadsheet Linked Processing

For even greater flexibility the Periflex 300 offers the option of being controlled by data supplied in an external database or spreadsheet. This enables the volumes dispensed into each tube to be derived from the imported data. A typical application would be to control the volume of liquid dispensed according to the mass of the compound in a tube.

Septum Piercing Option

A special high-torque Z-drive option can be fitted in conjunction with a septum piercing needle arrangement to allow filling of tubes with rubber stoppers such as Vacutainer® tubes (Becton Dickinson), Vacuette® tubes (Greiner) and chromatography vials. This makes it an ideal system for filling batches of clinical quality control samples.

Security Shield

An optional perspex security shield can be supplied to keep the work platform clean and also to provide additional safety when the septum piercing option is fitted. The security shield acts as an interlock so that the instrument stops when the cover is raised.

Ideal for Sterile Applications

Being based on a peristaltic pump ensures that the entire fluid path is easily removable for sterilisation. A special removable and autoclavable locating block ensures that the probe remains sterile when installing it back on the instrument.

Accurate for a Wide Range of Volumes

The pump head takes tubing with internal diameters of 0.5mm up to 3.2mm. A variety of tubing materials is available to ensure compatibility with a wide range of solutions and suspensions.

Compact Footprint

Although small, the Periflex 300 boasts an impressive capacity, helping you to maximise the use of your limited bench space. Taking up a mere 660mm of bench space it still has the capacity to process (unattended) batches of up to 1000 tubes*

Reliable and Adaptable

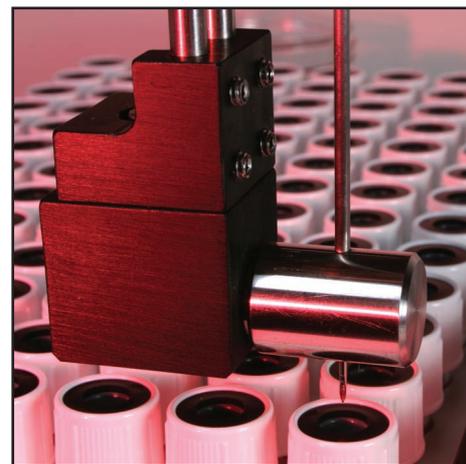
The Periflex 300 is based on reliable and well-proven technology incorporated into over a thousand analysers worldwide.

Probe Working Area

X= 468mm Y=275mm Z=118mm
Maximum bottle height = 220mm

Minimum Computer requirements

Processor 300Mhz, 64MB RAM, Sound Card, CDRW, Serial Port



For further information please contact:



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* Depends on tube size. Capacity quoted is for a 1.2 ml tube

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