



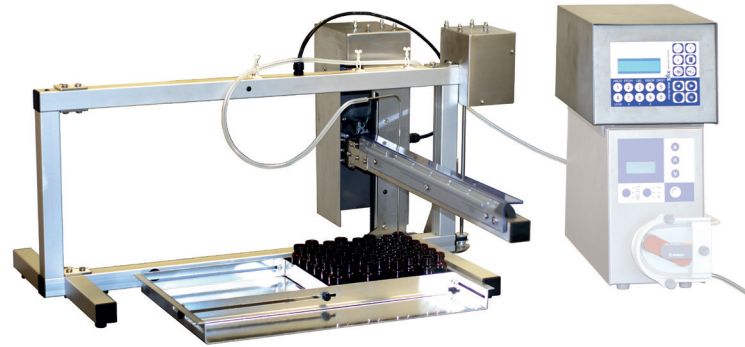
# ADELPHI MANUFACTURING

## SYRINGE PROCESSING

Adelphi offers a range of equipment designed to facilitate the efficient filling, closing and inspecting of syringes in a laboratory or R&D environment.

### XYZ Distributor

The XYZ Distributor is designed to be used in conjunction with the Accuramatic Peristaltic Dispenser (below), and enables bottles, vials and nested syringes to be filled automatically. The Z axis is the diving nozzle movement that allows liquid to be automatically filled from above the neck or into the neck.



#### Key Features:

- Control box remote from moving nozzle frame suitable for use in laminar flow cabinet
- Adjustable trays are supplied so that bottles are held in an orderly fashion
- Setting up is easy using the menu-driven LCD displays
- Special trays can be made to suit odd shaped bottles or nested syringes
- Fills straight rows or honeycombed configurations

Item code	Specification
<b>3525000</b>	<b>XYZ DISTRIBUTOR</b>
Electricity (selectable)	240V AC, 50/60 Hz, 500W (120V optional)
Movement space (mm)	X = 520, Y = 335, Z = 155
Electronics	Microprocessor
Weight (kg)	Control: 4.5, XYZ: 9.0
Dimensions distribution (mm)	790 × 625 × 390
Control dimensions (mm)	200 × 280 × 180
Drip delay	0.0–0.9 secs
Max vial height (mm)	200
Min neck opening (mm)	8
Tray fill area (mm)	410 × 265

### Accuramatic Peristaltic Dispensing Unit

This unit can be operated by hand, foot switch, or will cycle automatically with a delay of up to 10 seconds between fills. The pump runs at a constant speed for a precisely determined period of up to 100 seconds, can run forwards or backwards, and has a choice of three filling modes: Braked stop – Soft stop – Stop with suck back.

Like all peristaltic pumps the liquid only comes into

contact with the inside of one uninterrupted length of silicone tubing, which will withstand repeated sterilisation. Bacteriological inline filtration can be performed at the outlet side of the pump. This Peristaltic Dispenser can be combined with our XYZ Distributor to offer quick, easy and hygienic filling of whole trays of vials, bottles or nested syringes automatically, or with our Filling Jig for filling small numbers of ampoules.

The Peristaltic Dispenser can be supplied with a range of sizes of high strength silicone tubing from 0.8mm bore to 8mm bore, with either a 1.6mm or 2mm wall thickness. Please ask for further details on the size to best suit your requirements.



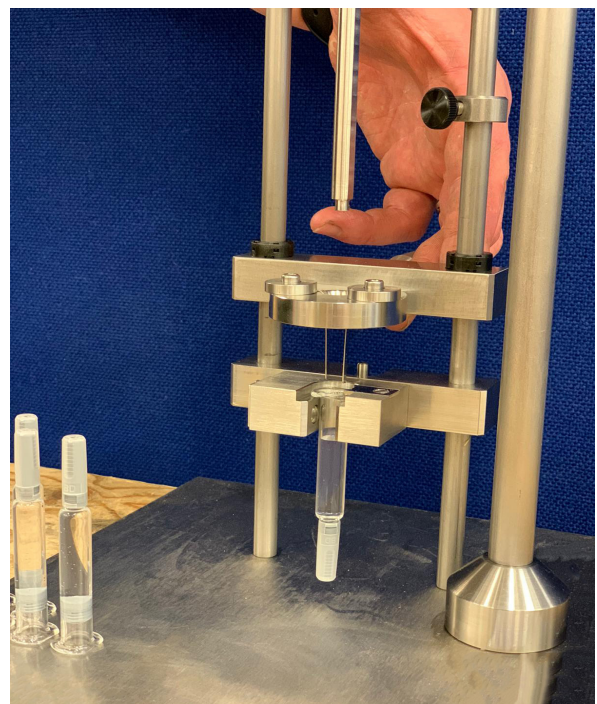
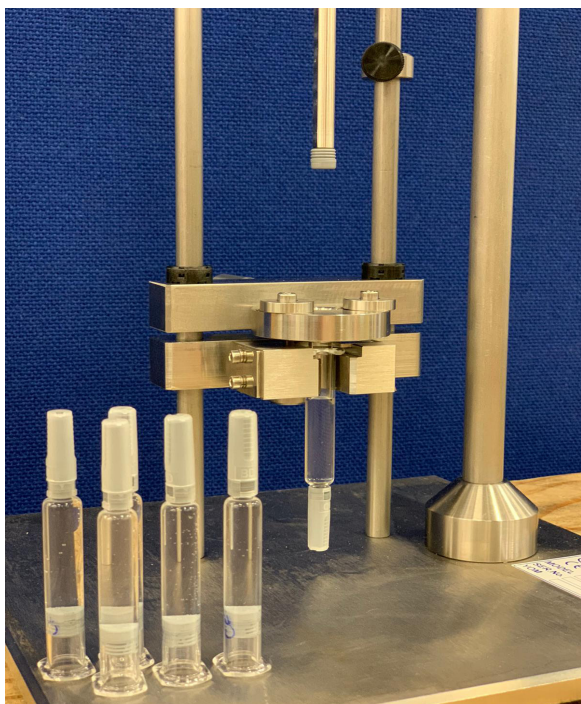
Item code	Specification
<b>3510000</b>	<b>PERISTALTIC DISPENSER</b>
Volumes (ml)	1 to 1,000
Repeatability	± 0.5%
Max flow rate (ml)	36 ml/sec (standard pump. Twin pump option available)
Electricity	240V AC, 50 Hz, 50W (120V optional)
Weight (kg)	Nett 8.5, Gross 10.5
Carton size (cm)	44 × 23 × 43



## Syringe Stopper Press

The Adelphi Syringe Stopper Press comprises a syringe holding jig, lever operated stopper press, and a divider for aiding the removal of air from the syringe. All contact parts are manufactured from 316L grade stainless steel.

This product enables the user to easily and efficiently insert stoppers into pre-filled syringes whilst ensuring that all air is expelled. The unit is fully adjustable and can accommodate glass or plastic syringes of 6.35mm bore or greater.



## Apollo I Liquid Inspection Unit

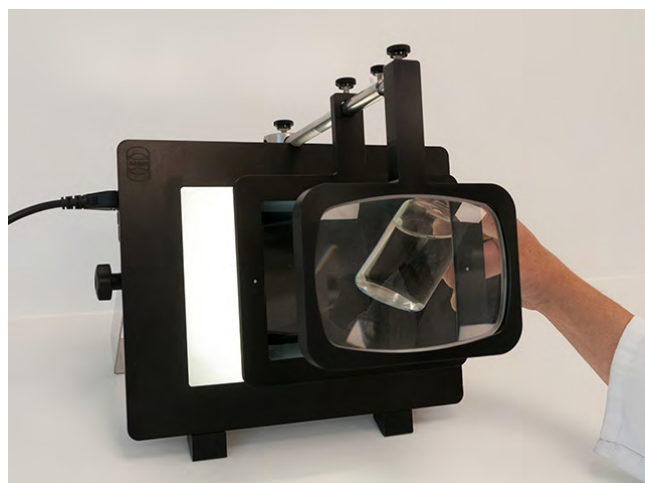
Designed for use in pharmaceutical and laboratory environments, the Apollo I Liquid Viewer has a polarised inspection light for the detection of particulate matter in transparent liquids contained in syringes, ampoules, vials and bottles. Particulate contamination can be unintentionally present in injections and intravenous infusions, and this unit provides a simple method of detection.

To operate, simply hold the container between the light panel and the polarising screen, shake or swirl the container, and any particles will show as bright specks against a dark background.



### Key Features:

- Compact and hygienic stainless steel body
- Adjustable viewing angle to suit individual working preferences
- Adjustable magnifier
- LED light source for optimum bulb life
- Tool free assembly
- Offers a clear, polarised and magnified image



Item code	Specification
<b>6031301</b>	<b>APOLLO I LIQUID VIEWER</b>
Length (mm)	320
Width (mm)	295
Height (mm)	420 (max)
Weight (kg)	Nett: 4.9 Gross: 7.2
Carton size (cm):	50 x 41 x 27
Electricity:	110/240V AC 50/60HZ

**"I recently ordered the Apollo I Liquid Viewer and was dependent on the delivery arriving in Switzerland within a few days. The employees were extremely helpful and reliable. Within a week the delivery was completed and the box was ready for use. The quality of the box is also top notch and allows particles to be seen as reliably as possible. Thanks a lot! Until the next order."**

InnoMedica Holdings AG



## Apollo II Liquid Inspection Unit

Designed for use in pharmaceutical and laboratory environments, the Apollo II Liquid Viewer provides a simple method for the detection of visible particles in syringes, ampoules, vials and bottles.

The unit is operated by simply swirling each individual container in front of both panels, and observing for any particulate contamination (other than air bubbles) unintentionally present in the solution.

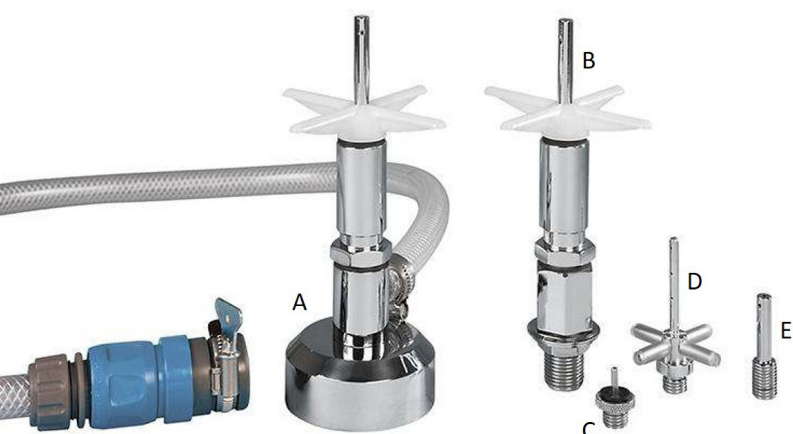
This unit conforms to the European Pharmacopoeia Specification 2.9.20 and to the US Pharmacopoeia – USP chapter 41, section 6.1.



We also offer an Apollo II High Intensity specification, ideal for coloured glass vials and ampoules, which uses three LED bulbs, giving a light level of 8,000 – 10,000 lux.

Item code	Specification
<b>6031511</b>	<b>APOLLO II LIQUID VIEWER</b>
Length (mm)	714
Width (mm)	420
Height (mm)	450
Weight (kg)	Nett: 10 Gross: 7.9
Carton size (cm):	76 x 52.5 x 26.5
Electricity:	100/240V AC 50/60HZ

## Syringe/Bottle/Vial/Test Tube Washer



The Adelphi Syringe Washer is designed for rinsing the interior of containers with neck diameters between 9.5 mm and 100 mm, at a rate of up to 900 per hour. With the addition of optional nozzles, it can be used equally as effectively as a vial washer, bottle washer or test tube washer.

The unit consists of a spring loaded nozzle, which, when depressed by an inverted bottle, ejects jets of water which cleans every part of the inside of the container. The normal four armed rest is made from plastic and is easily cleaned or replaced.

Nozzles are screwed into the body and are interchangeable. The unit may be attached to the mains directly by plumbing (Model 3) or on a stand with a pipe connected to a tap (Model 2).





## Syringe Processing – Production

If your requirements stretch beyond the abilities of manual or semi-automatic equipment, Adelphi is able to supply fully automatic syringe processing machinery. As the sole UK representative of ROTA since 1976, Adelphi can offer expert advice, and reliable servicing and spares support.

