



ADELPHI MANUFACTURING

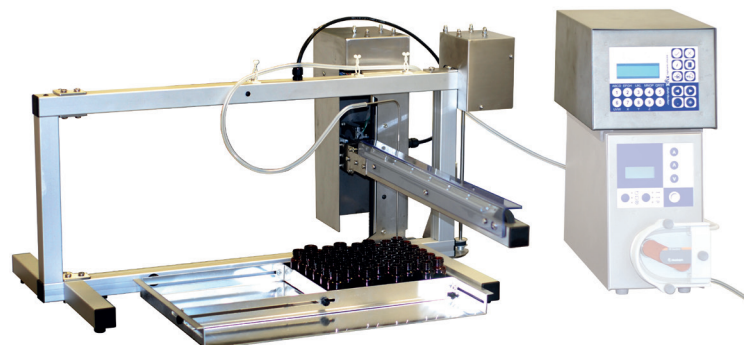
VIAL PROCESSING

Adelphi offers a range of equipment designed to facilitate the efficient filling, closing and inspecting of vials 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 and vials to be filled automatically in trays. The Z axis is the diving nozzle movement that allows liquid to be automatically filled from above the neck or into the neck.

| Item code | Specification |
|------------------------------|--|
| 3525000 | XYZ DISTRIBUTOR |
| Electricity (selectable) | 240 V AC, 50/60 Hz, 500 W (120 V optional) |
| Movement space (mm) | X = 520, Y= 335, Z= 155 |
| Electronics | Mircoprocessor |
| 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 |



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
- Fills straight rows or honeycombed configurations

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

| Item code | Specification |
|--------------------|---|
| 3510000 | PERISTALTIC DISPENSER |
| 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, 50 W (120V optional) |
| Weight (kg) | Nett 8.5, Gross 10.5 |
| Carton size (cm) | 44 × 23 × 43 |

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 or bottles 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.



Powered Vial Crimper

An air operated Power Crimper with stand and foot pedal and interchangeable screw-in heads.

The unit gives fast and reliable crimping or decapping and reduces operator fatigue. The stand is made from stainless steel and the crimping unit - which may be used separately - is of corrosion resistant nickel electro plate.

| Item code | Specification |
|-----------------|------------------------------------|
| 6030500 | POWERED VIAL CRIMPER |
| Length (mm) | 370 |
| Width (mm) | 230 |
| Height (mm) | 420 |
| Weight (kg) | Operational: 9.85, Shipping: 10.40 |
| Air | at 4 bar |
| 6030501S | BENCH STAND |
| 6030502 | FOOT PEDAL |



| Item code | Specification |
|-----------|---|
| 6030503 | 13mm crimping head for plain seals |
| 6030504 | 13mm crimping head for flip-off seals |
| 6030505 | 20mm crimping head for plain seals |
| 6030506 | 20mm crimping head for flip-off seals |
| 6030507 | 13mm decapping head for plain seals |
| 6030508 | 13mm decapping head for flip-off seals |
| 6030509 | 20mm decapping head for plain seals |
| 6030510 | 20mm decapping head for flip-off seals |
| 6030514 | 20mm crimping head for flip tear-up seals |

Note: other head sizes are available. Please ask for further details.



Manual Vial Crimper

This benchtop Vial Crimper provides a manual alternative to hand crimping and decapping operations. Unit height and position are adjustable to accommodate a variety of vial sizes allowing the operator to work in a comfortable position. The unit is manufactured from stainless steel. Heads are quickly and easily changed without the use of tools since they simply screw in and out.

All crimping and decapping heads are interchangeable with the Powered Vial Crimper.

| Item code | Specification |
|-------------------------|---------------------------------------|
| 6030555-1 | MANUAL VIAL CRIMPER WITH STAND |
| Length (mm) | 305 |
| Width (mm) | 254 |
| Height (mm) | 457 |
| Operational weight (kg) | 9.5 |

Manual Vial Crimper MKII

The MKII enables crimping and de-capping of 7.5-32mm seals.

Unlike most bench top crimpers, the MK II has integrated pre-crimp seal force for proper compression of Stopper, Cap, & Vial.

Separate head height and crimp pressure adjustments are used during the 2-step setup process. These positions/adjustments can be recorded to address QC process concerns, and/or when repeat orders are seen.

A custom bottle guide/holder completes the setup with its target position. The unit is Fast and reliable, for a professional quality finish.



Crimping and Decapping Tongs



Hand crimping tongs (A)

Fitted with hardened steel jaws for long life and reproducibility of seal crimp quality. There is an adjustable stop to ensure that equal pressure is supplied to each crimp.

| Item code | Size* |
|-----------|--------------------------|
| 6030613 | 13 mm plain seals |
| 6030614 | 13 mm flip-off seals |
| 6030620 | 20 mm plain seals |
| 6030621 | 20 mm flip-off seals |
| 6030622 | 20 mm flip tear-up seals |



Hand decapping tongs (B)

With hardened steel jaws for the easy removal of crimp top seals, by squeezing the handles together.

| Item code | Size* |
|-----------|-------------|
| 6030722 | 13 mm seals |
| 6030721 | 20 mm seals |

Hand decapping pliers (C)

For removing seals from vials with a press and wrench action. The handles are plastic coated.

| Item code | Size* |
|-----------|-------------|
| 6030713 | 13 mm seals |
| 6030720 | 20 mm seals |

* Other sizes available.
Please enquire.

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 ampoules, vials and bottles. Particulate contamination can be unintentionally present in injections and intravenous infusions, and this unit provides a simple method of detection.

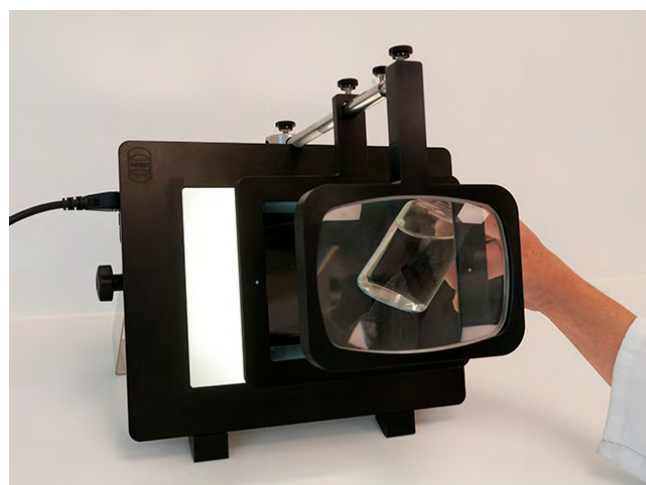
To operate, simply hold the container between the light panel and the polarising screen, shake or swirl the container, and any particles will show as bright specks against a dark background.

1.7 x
Magnification



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 |
|-------------------|------------------------|
| 6031301 | APOLLO I LIQUID VIEWER |
| 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 (2,000-3,750 Lux)

For visual inspection of transparent containers with transparent liquids

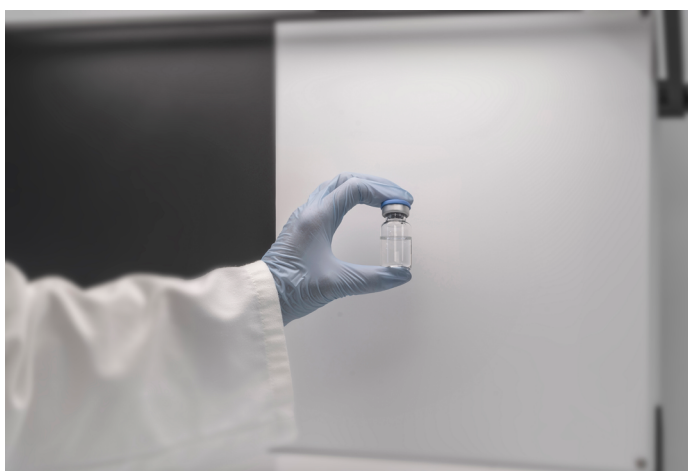
Designed for use in pharmaceutical laboratory and cleanroom environments, the Apollo II Liquid Viewer suitable conditions for visual detection of visible particles in ampoules, vials, and bottles.

The operator swirls each individual container to get the liquid moving in the container, and then visually inspects in front of the white inspection background for 5 seconds, looking for particulate contamination in the liquid. The inspection process is repeated in front of the black background. If no particles are observed in both inspections, the container is accepted as particle-free.

This unit conforms to the European Pharmacopoeia Specification 2.9.20 and to the US Pharmacopoeia – USP chapter 41(1790), section 6.1. for inspection of transparent containers with transparent liquids.



Conforms to the European Pharmacopoeia Specification 2.9.20 and to the US Pharmacopoeia USP chapter 41, section 6.1.



Key Features:

- Light intensity of 2,000-3,750 Lux, with light colour temperature of 4,000K
- Adjustable lamp to set light level and ensure lamp does not dazzle operator
- Uses two energy efficient long life LED lamps
- Fold up frame for space saving and easy storage - the inspection surfaces fold together to reduce the chance of damage
- Conforms to European Pharmacopoeia 2.9.20 and to the US Pharmacopoeia – USP chapter 41(1790), section 6.1.
- Intuitive assembly with no tools required.

| Item code | Specification |
|-------------------|-------------------------|
| 6031511 | APOLLO II LIQUID VIEWER |
| 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 |



Supporting IQ/OQ documentation can be supplied upon request.

User manuals are available in English, Spanish, French, German, Dutch & Czech
– additional languages are also available upon request.

Apollo II High Intensity Liquid Inspection Unit (8,000-10,000 Lux)

For visual inspection of coloured glass containers, translucent plastic containers, and turbid or coloured preparations

The Apollo II - High Intensity specification - has three LED bulbs to provide the higher light level needed when inspecting non-transparent liquids or containers. This unit sets up viewing conditions as detailed in European Pharmacopoeia Specification 2.9.20 and US Pharmacopoeia – USP chapter 41(1790), section 6.1. when inspecting coloured glass containers, translucent plastic containers, and turbid or coloured preparations.

The achievable light level of this unit is 8,000-10,000 Lux, with bulb colour temperature 4,000K. Electrical supply 100-240V AC, 50-60HZ single phase. We recommend that a calibrated light meter suitable for light from an LED source is used to set the light level, which is available upon request. Supporting IQ/OQ documentation can also be supplied upon request.

Supporting IQ/OQ documentation can be supplied upon request.



Apollo II 6500K Liquid Inspection Unit (2,000-3,750 Lux)

For visual inspection of transparent containers with transparent liquids

- A version of the Apollo II with 6,500K colour temperature bulbs (6,500K colour temperature is equivalent to daylight)
- Light intensity of 2,000-3,750 Lux
- Conforms to the European Pharmacopoeia Specification 2.9.20 and to the US Pharmacopoeia – USP chapter 41(1790), section 6.1. for inspection of transparent containers with transparent liquids.
- This unit offers the best coloured light to compare coloured liquid to a sample.
- Please note a possible disadvantage is small additional eye strain for the operator.



Apollo II Dimmable Liquid Inspection Unit

This is an adaptation of the standard Apollo II unit, built with a dimmer for the LED bulbs. Suitable for products that require lower Lux level for inspection than is recommended in the EP2.9.20.

Inclusion of the dimmer enables light intensity to be varied from 3,750 down to 1,200 Lux, by adjusting the lamp height and dimmer control.

We recommend a calibrated light meter suitable for light from an LED source, being used to set the light level - available upon request.

Key Features:

- Lux range 1,200 up to 3,750 Lux
- Light colour temperature 4,000K
- Available to suit electrical supply 230VAC and 120VAC
- If the light level is set between 2,000-3,750 Lux, the unit meets conditions required in European Pharmacopoeia 2.9.20 and US Pharmacopoeia – USP chapter 41(1790), section 6.1.

Our Customers Say...

"Fast, reliable and friendly. 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 financial part as well as 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!"

- Thomas Schick – InnoMedica Holdings AG - Switzerland

"We recently acquired two Apollo II and we are very satisfied with the purchase. The minimalist and elegant design joined to the easy mode of use are some of the best qualities. The most important for us is that the instrument works under the European Pharmacopoeia Specification."

- Inolab - Mexico

"A practical and user friendly piece of equipment - [The Apollo II] does what it says on the box to a high standard. Ideal for smaller units or units with not much space."

- KP - Pharmaceutical QA Manager, United Kingdom

"The Apollo II Liquid Viewers are a very cost-effective and reliable [solution], as well as compliant to US compendia. Great product!"

- PharmEng Technology, Inc - USA