



ADELPHI MANUFACTURING

Product Guide





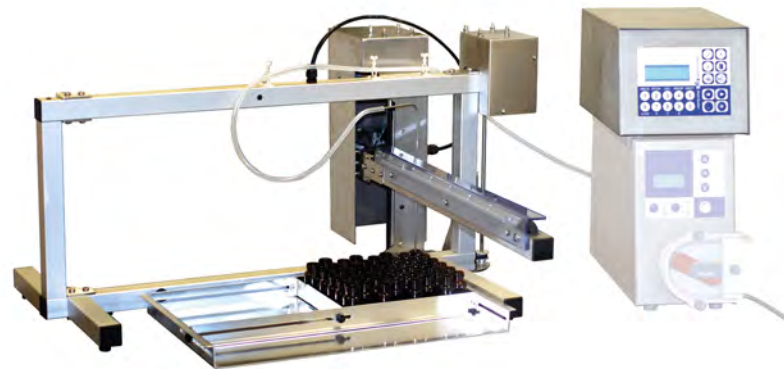
VIAL PROCESSING EQUIPMENT

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 Peristaltic Dispenser, and enables vials, bottles and ampoules 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)	240V AC, 50/60 Hz, 500W (120V 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



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

Peristaltic Dispenser

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 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.

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, 50W (120V optional)
Weight (kg)	Nett 8.5, Gross 10.5
Carton size (cm)	44 × 23 × 43



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	13 mm crimping head for plain seals
6030504	13 mm crimping head for flip-off seals
6030505	20 mm crimping head for plain seals
6030506	20 mm crimping head for flip-off seals
6030507	13 mm decapping head for plain seals
6030508	13 mm decapping head for flip-off seals
6030509	20 mm decapping head for plain seals
6030510	20 mm 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



Crimping and Decapping Tongs



Hand crimping tong (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	20mm flip tear-up seals



Hand decapping tong (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	20mm seals

* Other sizes available. Please enquire.



AMPOULE PROCESSING EQUIPMENT

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

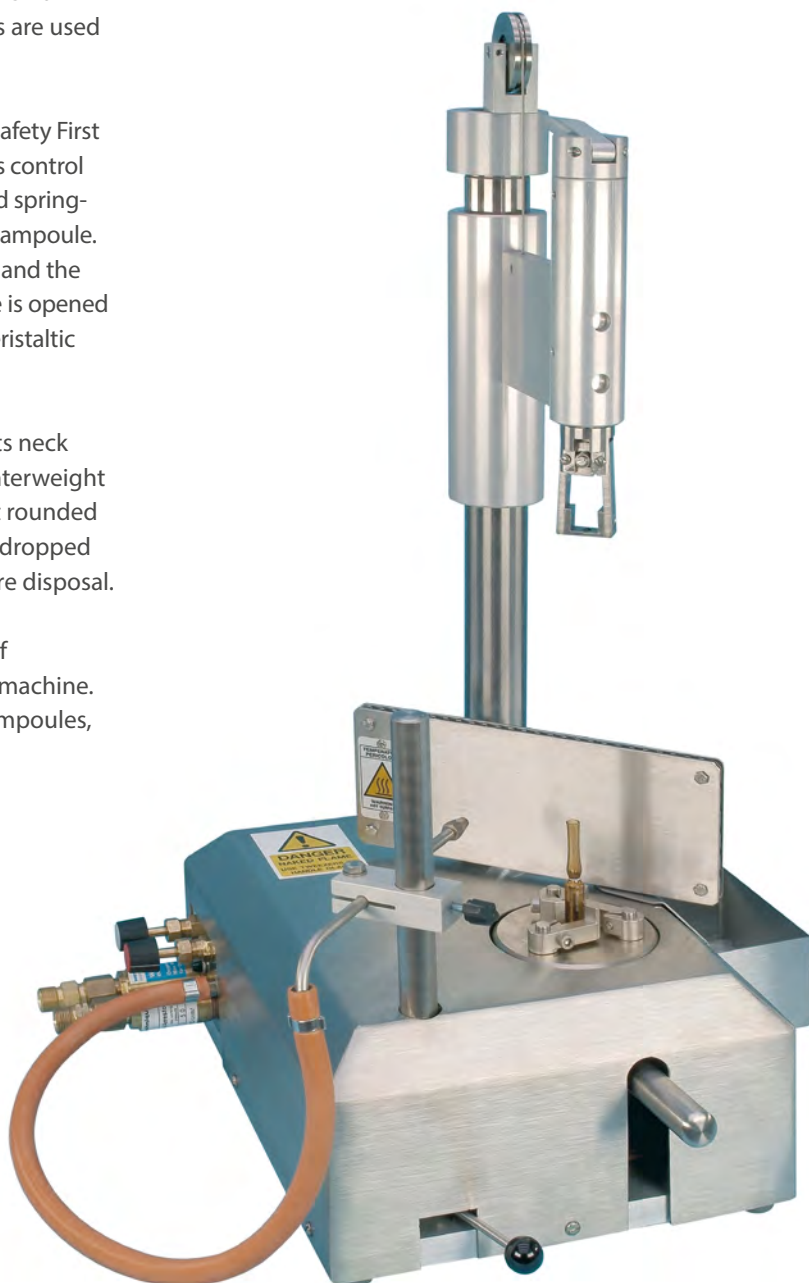
OC Ampoule Processing Machine

This machine has been designed in response to demand from small-scale producers and R&D laboratories where closed ampoules are used to obviate the need for internal washing.

A flame of mixed gas and oxygen is applied to melt the glass. Safety First flashback arrestors are fitted to the gas inlets and needle valves control the settings. The ampoules are placed into a manually operated spring-loaded chuck, and a flame is brought to bear on the top of the ampoule. As the flame approaches the glass, an electric switch is thrown and the chuck rotates. When the opening station is in use, the ampoule is opened with the flame. The ampoules are then filled using Adelphi's peristaltic dispenser and filling jig.

When closing an ampoule, the gripper jaws are placed onto its neck and the flame applied. As the glass becomes plastic, the counterweight pulling on the jaws draws off the ampoule neck and a perfect rounded finish is achieved with very little practice. The drawn off tip is dropped into a detachable box at the side of the machine to cool before disposal.

The sealing process is quick and produces closed ampoules of regular height, and quality matching that from an automatic machine. Although specially designed to open and close closed type ampoules, this versatile machine will also handle open type ampoules after washing.



Item code	Specification
6035000	OC AMPOULE PROCESSING MACHINE
Ampoule Size (ml)	1-50 open or closed
Output	Approximately 600 per hour
Length (mm)	380
Width (mm)	400
Height (mm)	660
Weight (kg)	Operational: 22, Shipping: 46
Crate size (cm)	49 x 44 x 85
Electricity	240V AC, 50 Hz, 200W (120V optional)
Gas	Natural gas or propane at 0.5 bar
Oxygen	Standard commercial supply at 1 bar



AMPOULE PROCESSING EQUIPMENT

Twin-Jet Ampoule Sealer

This hand operated unit is designed for use with natural or bottled gas and air. A mixer valve enables the user to adjust the flame for optimum heat. A small air pump is available for situations where compressed air is not available. A pressure regulator/gauge is recommended to keep the flow constant with a compressed air supply.

The ampoule is placed and held on the adjustable platform and turned while manually drawing off the ampoule top with tweezers.



Item code	Specification
6002100	TWIN-JET AMPOULE SEALER
Ampoule Size (ml)	1-50 open type
Output	up to 10 per minute
Length (mm)	125
Width (mm)	210
Height (mm)	280
Weight (kg)	Nett: 1.86 (excl. air compressor), Gross: 2.4
Electricity	240V AC, 50 Hz, (120V optional) to power air compressor (if required)
Gas	Natural gas supply or bottled butane or propane gas at 0.5 bar
Air	Compressed air at 1 bar (optional compressor supplied)
Carton size (cm)	35 x 31 x 17
6002110	PRESSURE REGULATOR/GAUGE
6002119	AIR PUMP

Filling Jig

A useful hand operated accessory for use with the Peristaltic Dispenser designed to ensure the clean filling of small necked containers such as ampoules without wetting the wall of the container where it is to be sealed.



The container is placed in a custom-made holder and raised by hand to a predetermined stop when the needle will be centred inside the container.

Item code	Specification
3510090	FILLING JIG
Overall Size (mm)	210 x 105 x 345
Weight (kg)	2.8



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TUBE PROCESSING EQUIPMENT

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

Vesta 1C – Tube Sealer

Compact and robust in a stainless steel case with clear, simple controls, the Vesta 1C offers a low maintenance tube closing solution, ideal for small batch production. The unit has been designed for laboratory sealing and small production runs of plastic or laminate tubes, which are sealed, trimmed and coded.

Item code	Specification
3140001	VESTA 1C UNIT
Tube seal range	10–50 mm diameter
Output (per minute)	Up to 4
Electricity	240V AC, 50/60 Hz, 500W (120V optional)
Air supply (per minute)	20 litres at 6 Bar
Overall size	400 × 345 × 700 mm
Weight	31 kg
31406	PAIR OF BESPOKE TUBE CUPS FOR EACH TUBE SIZE
3140601	SET OF NUMERALS 0–9 (L-SHAPED)
3140601-A-Z	LETTERS AND NUMBERS (L-SHAPED)



Centrac FCC – Tube Closer

Designed to close collapsible metal tubes, the Centrac FCC is operated by a handle, which requires two turns to close, fold and crimp the tube giving a double fold. An adjustable rest is provided to locate tubes in the correct position, a gauge plate regulates the depth of fold required, and a wing nut adjusts the depth of crimp.

All working parts are fully guarded. The angle of operation is infinitely variable through 90°. Coding jaws are supplied as standard to hold up to 4 figures and/or letters for batch marking.

Item code	Specification
3101000	CENTRAC FCC TUBE CLOSER
Output (per minute)	Up to 10
Tube diameters	From 12 mm to 40 mm
Depth of base in vertical position	203 mm
Depth of base in horizontal position	267 mm
Width of base	191 mm
Width of handle	330 mm
Height in vertical position	308 mm
Height in horizontal position	267 mm
Weight	11.6 kg
3110000	NUMERALS 0–9 FOR CODING JAWS
3111001-26	LETTERS A–Z FOR CODING JAWS





Tube-Folding Pliers

These tube-folding pliers provide a simple method of reliably closing individual metal tubes. They are hand held with plastic handles for comfort and safety.

Item code	Specification
4001100	TUBE CLOSING PLIERS
Output (per minute)	Up to 10
Tube diameters	From 12 mm to 40 mm
Depth of base in vertical position	203 mm
Weight	300 gm





LIQUID INSPECTION EQUIPMENT

Adelphi's Apollo Liquid Viewers offer a simple yet effective method of detecting particulate matter present in liquids.

Apollo I Liquid Viewer

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.



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
- Includes padded storage bag for safe storage & transport



Item code	Specification
6031300	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



Apollo II Liquid Viewer

Designed for use in pharmaceutical and laboratory environments, the Apollo II Liquid Viewer provides a simple method for the detection of visible particles in 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. In front of the black panel, light coloured particulates will be visible, and in front of the white panel, dark coloured particulates will be visible.

This unit conforms to the European Pharmacopoeia Specification 2.9.20.



Features:

- Adjustable lamp unit for comfortable working height
- Uses two energy efficient LED lamps
- Fold up frame for space saving & easy storage
- Removable diffuser for use with coloured glass
- Conforms to European Pharmacopoeia 2.9.20
- Intuitive assembly with no tools required

Item code	Specification
6031510	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



RESPONSE VOLUMETRIC FILLERS

Adelphi manufactures the highly regarded Response range of filling machines, ideal for small to medium batch production environments.

Response

Benchtop Filler

Adelphi manufactures the highly regarded Response benchtop volumetric filling machine, and can deliver reliable after sales support wherever you are in the world. This pneumatically driven filler is suitable for filling liquids, creams or solids in suspension thanks to its versatile filling head design.

The Response is adaptable, accurate, hygienic and easy to use. It is available in single or twin-head configurations, with a comprehensive range of nozzles, hoppers and other accessories available to meet your individual requirements.

These machines are ideally suited to those wanting to start automating a previously manual filling process, and those that don't currently require the output levels offered by a fully automated solution. However, once production demands increase, Response units can be mounted onto an Automation Base to create an extremely flexible fully automatic filling machine.



(Below left) heated hopper for hot fills.

(Below right) pipe feed attached, for liquid fills.



(Above) with standard hopper for filling creams, pastes, and solids in suspension



RESPONSE VOLUMETRIC FILLERS



Versatile and accurate

The Response features a revolutionary head designed to handle liquids, creams, pastes, and solids in suspension efficiently. A variety of nozzle designs are available, including cut-off nozzles for a clean fill with no dripping. The forward and backward stroke can be varied independently to optimise filling characteristics, and it has the ability to fill volumes of 5ml to 1000ml, with an accuracy $\pm 0.25\%$, using one of three interchangeable honed pump sets.

Simple and safe to use

Volumes are accurately and easily set by means of a hand wheel and digital counter, and the unit can be set to single shot or continuous operation. All controls are within easy reach of the operator at the front of the unit, with a foot switch as an option. With quick-release fittings and the need for just a single tool, strip-down for cleaning is quick and easy. All access is from the front of the machine without the need to remove the cover, and all moving parts are enclosed at all times. The unit is fully CE Marked.



Hygienic

The Response is designed to minimise cleaning time and to meet the highest standards of hygiene. A 304 stainless steel monocoque construction with curved and sloping surfaces meets GMP requirements, and all contact parts are manufactured in 316L stainless steel, PTFE and Viton. The innovative pumping system is designed to be clean and lubricant free, and all hose/hopper connections are triclover as standard.

	Specification	
MODEL	SINGLE HEAD	TWIN HEAD
Accuracy	$\pm 0.25\%$	$\pm 0.25\%$
Output (per minute)	< 40	< 80
Height without hopper / tank	340 mm	340 mm
Depth	840 mm	840 mm
Width without conveyor	343 mm	343 mm
Weight	41 kg	44 kg
Air consumption per cycle	5 litres at 6 bar	5 litres at 6 bar
Volume range	5 ml- 1 litre	5 ml-100ml



Accessories

Standard Nozzles

A wide variety of interchangeable nozzles are available for different products. A remote nozzle for dosing into or over food etc. can also be supplied.

Special Nozzles

Cut-off nozzles for a clean fill with no dripping are available, and are attached to the Response using the same fixings as any other nozzle. They are pneumatically operated and powered through the accessory ports on the front of the machine.

Hoppers & Tanks

Available in 316L stainless steel and in standard 20 litre and 50 litre sizes, our hoppers can be supplied plain, insulated for cold products or electrically heated for hot fills. All are connected with hygienic Tri-Clover type fittings.

Counter

A counter attachment is available to control multiple shots.

Mixers & Stirrers

We can supply a variety of mixers and stirrers, free standing or lid mounted, in a variety of sizes.

Other Accessories

- Diving nozzles
- Remote cut-off nozzle
- Level control sensor fitted to hopper
- Spinning table for filling irregular shaped jars
- 2-speed filling system
- Stainless steel benches and trolleys
- Bag and pouch filling system

