

AU

Технические характеристики

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Autoclaves

Portable Top Loading Autoclaves

- ◆ Suitable for sterilising both instruments and glassware
- ◆ Stainless steel construction
- ◆ All models operate at 121°C
- ◆ Capacities 15 or 30 litres
- ◆ All models include:
 - adjustable pressure relief safety valve
 - pressure and temperature dial gauges
 - air release cock and drain syphon
 - resettable thermal cut-out (electric models only)

The drain tube removes steam and water and the partial vacuum created after sterilisation is used to dry the contents of the chamber.

Gas models require an external heat source which is not supplied. Temperature control is manual by adjustment of a pressure release valve.

Electric models have a built-in, 2kW electric heater. ST1528 and ST3028 models feature electronic temperature control. Alternative 'Vario' automatic cycle control models are available with a choice of three pre-set and one operator programmable cycles including adjustable temperature maximum 121°C and time from 1 to 99 minutes. Additionally a free-steaming facility with self-sealing aircock allows unattended operation. All electric models are supplied for use on 230-250V a.c. single phase supplies.

Lid closures. All models have a quick access twist locking lid mechanism with nylon handled wingnuts and separate nylon lid handle.

Stainless steel, 15 litres

Chamber 280mm diameter x 245mm deep. With fittings as described and aluminium liner. Accepts, but not supplied with, either two small or one large accessory drums, or one basket.

- AU112-02** Electrically heated, ST1528
- AU112-05** For gas heating, ST1528G
- AU112-07** 'Vario' controller, ST1528V

Stainless steel, 30 litres

Chamber 280mm diameter x 490mm deep. With fittings as described and aluminium liner. Accepts, but not supplied with, either four small or two large accessory drums, or two baskets.

- AU116-02** Electrically heated, ST3028
- AU116-05** For gas heating, ST3028G
- AU116-07** 'Vario' controller, ST3028V

Autoclave Consumables

Deodorising Capsules – see AU600.

Disposal Bags – see BA030/064.

Indicator Tape – see AU630.

Sterilising Bags/Pouches – see AU660/695.

Accessories and Spare Parts

Drum, small, stainless steel, 240mm diameter x 120mm deep.

AU117-06 Drum

Drum, large, stainless steel, 240mm diameter x 240mm deep.

AU117-08 Drum

Stainless steel wire mesh basket, with single lifting handle, 240mm diameter x 220mm deep.

AU117-10 Basket

Bottle carrier, holds 4 x 1 litre media bottles. For 30 litre autoclaves, AU116 models only.

AU117-12 Bottle carrier

Lid gasket, spare for all models.

AU117-24 Gasket

Heating element. 2kW. For 230-250V a.c. single phase supplies. Spare for electrically heated models only.

AU117-27 Heater, 2kW

Safety valve, spare, for all models.

AU117-30 Safety valve

Sterilisation Indicator Strips TST

Colour changes yellow to purple/blue on completing a successful sterilisation cycle. For use only in autoclaves providing an air-free, saturate steam environment.

AU127-29 TST indicator strips 121°C/15 minutes and 134°C/3.5 minutes. Box of 100

Accessory gas rings and stands – details on request.



AU112



AU116



'Vario' controller in use

Autoclaves

Swiftlock Automatic Autoclaves

Astell 

- ◆ A choice of models:
 - Front or top loading chamber
 - Ecofill automatic, or manual filling
- ◆ Variable temperature range, 100 to 138°C (0.2 to 2.4bar)
- ◆ Fully automatic once filled with water
- ◆ Stainless steel vessel
- ◆ Manufactured in accordance with PED97/23EC

Construction

Chamber: Grade 316L stainless steel to B55500 cat. 3, with thermocouple entry port and chamber cleaning drain.

Outer case: Epoxy-coated, zinc-primed, steel panels on corrosion resistant, light alloy internal frame.

Door closure: Patented 'Swiftlock' single action closure mechanism. Only when the door/lid is fully closed will the programmer commence the cycle and a safety locking bolt is automatically engaged.

Controls and fittings: 'Securetouch' programmer and cycle monitor with five pre-set programmes providing ideal sterilisation conditions for typical loads; liquids, instruments, glassware and discard. A large, 145mm, colour touchscreen display allows easy control of processes, continuous readout of programme information, times, temperatures, warnings with audible alarms, pressure, cycle stage, cycle count and a graphical output of the current cycle. A "virtual printer" function stores cycle details for easy down-load to an accessory PC or external printer via two USB ports, ethernet or RS232 interfaces provided. Additional selectable parameters include timed free steaming, and controlled drying for instrument and glassware cycles (Ecofill models only). 'Classic' models additionally feature a media Holdwarm function to maintain culture media in a liquid state after processing. A PIN-protected programme lock enables re-programming of pre-set parameters by authorised personnel. A separate analogue pressure gauge is also provided.

Condensate drainage:

Ecofill models feature an automatic water fill/recirculation system with reservoir that provides sufficient water for up to 20 cycles. Condensate and residue chamber water is returned to the reservoir after each cycle for re-use, providing a self-contained system.

Classic models have a removable, integral condensate drain bottle. Alternatively when using liquid or discard cycles waste water can be fed to an external vent rather than the drain bottle, useful where blockage or contamination is anticipated. Note: the autoclave must be refilled after every cycle in this mode.



AU170 top loading models

Safety features:

- Pressure activated door lock
- Overheat protection
- Two thermal cooling locks in compliance with HSE.PM73
- Audio-visual end of cycle, cycle fault, cycle interruption
- Sterilisation failure, water low and door unlocked alarm

Capacity	litres	43	63	63
Loading type		Front	Front	Top
Chamber dia. x depth	mm	350 x 460	350 x 660	350 x 640
Overall	W, mm	520	520	530
	D, mm	780	980	700
	H, mm	540	540	1040
Weight	kg	95	125	100

As described. With 'Securetouch' 5-programmer/controller, 'Swiftlock' door closure and automatic or manual filling as indicated. Front loading models are supplied with base shelf, the top loading models with a basket support plate. For 230V 50/60Hz single phase 13A supply.

AU170-17 Swiftlock Ecofill, 43 litres, front loading

AU170-23 Swiftlock Ecofill, 63 litres, front loading

AU170-42 Swiftlock Ecofill, 63 litres, top loading

AU170-56 Swiftlock Classic, 43 litres, front loading

AU170-63 Swiftlock Classic, 63 litres, front loading

AU170-72 Swiftlock Classic, 63 litres, top loading

Options for both models

FACTORY FITTED and MUST BE ORDERED AT THE SAME TIME AS THE AUTOCLAVE.

AU174-05 Load sensed process timing module, with 'wandering probe'

AU174-08 Fan assisted cooling

Accessories

AU176-03 RS232 interface

Shelf racks for front loading chambers

AU177-14 5-position, with 3 shelves for AU170-17 and -56

AU177-18 5-position, with 3 shelves for AU170-23 and -63

Discard containers and Basket

AU177-34 For AU170-17 (accepts 2) and AU170-23 (accepts 3)

AU177-39 Half-depth stainless steel basket, for AU170-42 and -72

AU177-44 Half-depth Morrison discard container, for AU170-42 and -72



AU170 front loading models

Autoclaves

Swiftlock Automatic Autoclaves continued



- ◆ A choice of front or top loading chamber models
- ◆ Variable temperature range 100 to 138°C (0.2 to 2.4bar)
- ◆ Grade 316L stainless steel chamber vessel
- ◆ 'Swiftlock' single action door closure mechanism
- ◆ Manufactured in accordance with PED97/23EC

Capacity	litres	95	120	120
Loading type		Top	Front	Top
Chamber diameter x depth	mm	456 x 448	450 x 680	456 x 588
Overall	width	mm	660	660
	depth	mm	840	840
	height	mm	940	1150
Weight	kg	185	230	200

Controls and fittings: 'Securetouch' programmer and cycle monitor with ten pre-set programmes and memory function providing ideal sterilisation condition, for typical loads; liquids, instruments, glassware and discard. A large, 145mm, colour touchscreen display allows easy control of processes, continuous readout of programme information, times, temperatures, warnings with audible alarms, pressure, cycle stage, cycle count and a graphical output of the current cycle. A "virtual printer" function stores cycle details for easy down-load to an accessory PC or external printer via two USB ports, ethernet or RS232 interfaces provided. Additional selectable parameters include timed freesteaming, holdwarm and delayed start. A PIN-protected programme lock enables re-programming of pre-set parameters by authorised personnel. A separate analogue pressure gauge is also provided.

Condensate drainage: All models have a drain port requiring plumbing into a low level drain able to withstand free flowing steam.

Safety features:

- Pressure activated door lock
- Two thermal cooling locks in compliance with HSE.PM73
- Audio end of cycle alarm
- Over-pressurisation safety valve
- Low water sensor
- Insulated lid cover

As described. With 'Securetouch' 10-programme controller with memory function and 'Swiftlock' door closure. The front loading model is supplied with one base shelf, the top loading models are supplied with a basket support plate. For 230V 50/60Hz single phase 30A supplies.

AU180-46 Swiftlock 95 litres, top loading

AU180-59 Swiftlock 120 litres, front loading

AU180-67 Swiftlock 120 litres, top loading

Options

FACTORY FITTED and MUST BE ORDERED AT THE SAME TIME AS THE AUTOCLAVE.

Integral Data Printer. Provides a permanent record of temperature, pressure, cycle date and time and identification

AU183-06 Data Printer

AU183-07 Fan assisted cooling

Accessories

AU176-06 RS232 interface

AU186-17 Morrison discard container, 390 x 355mm diameter x height for AU180-46 and AU180-67

AU186-19 Wire basket stainless steel, 400 x 400mm diameter x height for AU180-46 and AU180-67

AU186-30 2-position shelf kit for AU180-59 only. With 2 shelves and frame

Steriliser, quartz bead - see *SP850-10*.



AU180- top loading



AU180- front loading in use

Autoclave Accessories

Autoclave Accessories

Autoclave Deodoriser Capsules

Eliminate offensive odours generated from autoclaving organic waste. Available in a choice of fragrances as indicated. One or two capsules is sufficient to deodorise one load. Supplied in packs of 100 capsules.

- AU604-35** Rose fragrance
- AU604-40** Citrus fragrance

Autoclave Tape

Self adhesive paper with indicating stripes which change colour after being autoclaved. Conforms to European Standard EN867. Dimension stated is tape width. Supplied in rolls of 55 metres.

- AU630-10** 18mm
- AU630-12** 24mm
- AU630-95** Tape dispenser for 18/24mm wide autoclave tape

Sterilising Pouches, self-seal/transparent

Equally suitable for autoclave or ethylene oxide gas sterilisation. The pouch has a two-ply polyester/ polypropylene laminated transparent front bonded to a medical grade white sterilisation paper. The paper used conforms to BS6256 and the complete pouch meets the requirements of DHSS specification TSS/S/ 330.010. Dual arrows are printed on each pouch; pink changes to brown under normal autoclaving conditions and blue changes to yellow when gas sterilised.

A self-seal adhesive band, which is on the shortest side, is used to seal the pouch. Heat sealing is not required.

	Pouch size mm	Pack qty
AU660-17	90 x 203	200
AU660-22	90 x 230	200
AU660-32	130 x 254	200
AU660-37	130 x 360	200
AU660-42	190 x 330	200
AU660-47	300 x 390	200

Biohazard bags suitable for autoclaving – see *Bags* section.



AU604



AU630

Sterilising Bags, paper

For autoclave sterilising. To BS6257 and using medical grade white sterilisation paper to BS6256. Available with alternative closures:-

Heat seal (AU690 series) – supplied with an adhesive band on the inside of the bag for sealing using a suitable heat seal machine. A pink indicator on each bag changes to brown under normal autoclaving conditions.

Plain closure (AU695 series) – are folded and secured using the accessory indicating autoclave tape.

All bags are gusseted and strongly constructed with a double turn at the bottom for extra safety. The opening is on the shortest side.

W x L mm	Gusset mm	Pack qty	Heat seal closure	Plain top closure
90 x 170	50	1000	AU690-15	AU695-16
110 x 190	30	1000	—	AU695-21
140 x 250	75	1000	AU690-52	AU695-52
140 x 330	50	500	AU690-55	AU695-55
180 x 380	95	500	AU690-64	AU695-64
180 x 530	75	250	—	AU695-67
190 x 330	65	500	AU690-74	—
250 x 380	100	250	—	AU695-79
300 x 610	125	250	—	AU695-88

Autoclave tape for securing the plain top closure bags – see *AU630*.

Heat resistant gloves – see *SA704* in the *Safety* section.

Sealing film – see *SE162*.



SA704



AU660

AU690, AU695

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