Hc Fitted with 'Heaters in Chamber' as standard.

Everything you would expect and more

Astell's top loading autoclave range is factory fitted with a large number of features as standard, making it suitable for sterilizing liquids (media), discard, glassware and other instruments. These features include:

- A 5.7" colour touch screen

- A delayed start and a media holdwarm feature for greater control over when you want to sterilize.

- Safety: over-temperature protection, an external pressure gauge, a cooling lock, a safety valve test program and an emergency stop button.

- A validation port, drain valve and an electro-polished chamber.

- Castor mounted, Timed/Pulsed Freesteaming.

Additional options available

Pr	**Integral Data Printer**	Astell Ref: AAR130
Ls	**Load Sensed Process Timing**	Astell Ref: AAR014
Rs	**RS232 Interface**	Astell Ref: AAR120
Et	**Ethernet Interface**	Astell Ref: AAR122
Iq	**IQ/OQ Documentation**	Astell Ref: IQ/OQ
Ac	**Assisted Air Cooling**	Astell Ref: AAP006
Aw	**Advanced Water Cooling**	Astell Ref: AAP080
Ad	**Autodrain** for 'Heaters in Chamber' models only	Astell Ref: AAP018
Af	**Autofill** for 'Heaters in Chamber' models only	Astell Ref: AAP019
Ab	**Air Ballast** Requires compressed air	Astell Ref: AVC004E
Eh	**Exhaust Heat Exchange System** for 'Heaters in Chamber' models only	Astell Ref: AAN420
C3	**Category III Compliance**	Astell Ref: AVQ006
Ba	**Stainless Steel Basket*** 400 (dia) x 220 (h) mm	Astell Ref: AAN042
Ba	**Stainless Steel Basket**** 400 (dia) x 400 (h) mm	Astell Ref: AAN036
Mc	**Morrison Discard Container** 390 (dia) x 355 (h) mm	Astell Ref: AAN058
Mc	**Morrison Discard Container** 390 (dia) x 500 (h) mm	Astell Ref: AAN056
Ws	**Water Softener (Compact)**	Astell Ref: AAW002
Pl	**Load Support Plate**	Astell Ref: AAN002
Ex	**Direct Steam** See technical details opposite	Astell Ref: Various

* Capacity = 95 litre (2), 120 litre (2), 135 litre (3) - AAN042
**Capacity = 95 litre, 120 litre , 135 litre (1) - AAN036

Installation Requirements

⚡ **Power Requirements:**

The power requirements for the standard machines are specified in the table below, however these can vary depending on the options selected. Options that affect the power requirement are indicated by a yellow symbol. For exact power requirements on these options please contact us for details. N.B a Neutral line and protective Earth are required for all electrically heated units.

💧 **Water and Drainage Requirements:**

A cold water supply of 2 to 6 bar minimum. 4 litres/min is required for the 'Autofill', vacuum or water cooling options. Max. temperature 25°C, Max flow rate 20 litres per minute. Requirements vary for RO/de-ionised/hard water.

Drainage: Free-venting, non-manifolded drain (35mm dia) capable of withstanding temperatures up to 100°C.

Technical details

(power consumption/dimensions may vary with the addition of certain options*)
* Direct Steam Models are available at no extra cost.

Model No.	Steam Source	Volume (Litres)	Power Supply	Chamber dia x depth mm	Overall Dims wxhxd
AMA250BT	Heaters in Chamber*	95	Single or 3 Phase, 7/10kW	456 x 448	660 x 940 x 840
AMA260BT		120		456 x 588	660 x 1070 x 840
AMA270BT		135		456 x 680	660 x 1150 x 840

Advanced Options (selection of these options alters the power supply requirements specified in the table above)

Sg

Integral Steam Generator Option - Astell Ref: 12KWSG ⚡

The standard heaters in chamber are replaced with a 12kW integral steam generator. This option helps to improve cycle times by increasing the efficiency of steam production and also includes automatic water filling as standard, removing the requirement of manually filling the machine with water between sterilization cycles (a mains water supply is therefore required for this option).

Vac

Advanced and Simple Vacuum Options - Astell Ref: AVC001s and AVC002s ⚡

A vacuum option is essential for porous loads (e.g wrapped instruments and fabrics) or other cycles where air pockets could easily become trapped within the load. Available in 2 derivatives, the AVC001s option is Astell's advanced pulsar vacuum, which when used in conjunction with the integral steam generator and a heated jacket enables the dry output of all loads. Alternatively, the AVC002s vacuum utilizes the standard heaters in the base of the chamber with simple pre-vacuum air removal and post vacuum cooling to efficiently sterilize porous loads, but without any drying capability.

Jac

External Jacket Heating - Astell Ref: AJP150

Requiring the steam generator option (and normally in conjunction with the AVC001s vacuum option), external jacket heating effectively adds an additional layer to the outside of the autoclave chamber. This can then be independently heated by the steam generator to allow drying to take place at the end of a cycle, or can be flooded with water during cooling to aid cooling times.

Colour touch screens as standard

All Astell Scientific autoclaves, steam generators and effluent decontamination systems (EDS) incorporate the latest innovations in control system technology, providing colour touchscreen controllers as standard throughout the range.

The Logi control colour systems are an advance in sterilization control technology. Bringing together years of unrivalled experience, they produce a user friendly, fully automatic control system designed to meet and exceed the expectations of the most demanding laboratories and centres of sterilization.

The controller consists of a wipe clean touch screen measuring 122mm x 94mm and is based on an industrial PLC system, combined with a number of analogue and digital input/output modules. The controller software has been developed by Astell for the precision control of all our autoclaves and sterilizers.

Standard Features

Colour Touch Screen
Icon Driven Menu System
Simple Cycle Selection
Continual Cycle Monitoring

SECURE
Data Archive for up to 5,000 cycles
USB Connection for USB back up (requires additional lead)
Multiple user access levels
Multi-level password protection
User log

FLEXIBLE
Multi programmable controller
Programme new cycles
Modify existing cycles
Duplicate, modify & rename cycles
Cycle jump facility
Multiple languages
Delayed start facility
Hold warm facility (if applicable)
Default to factory settings
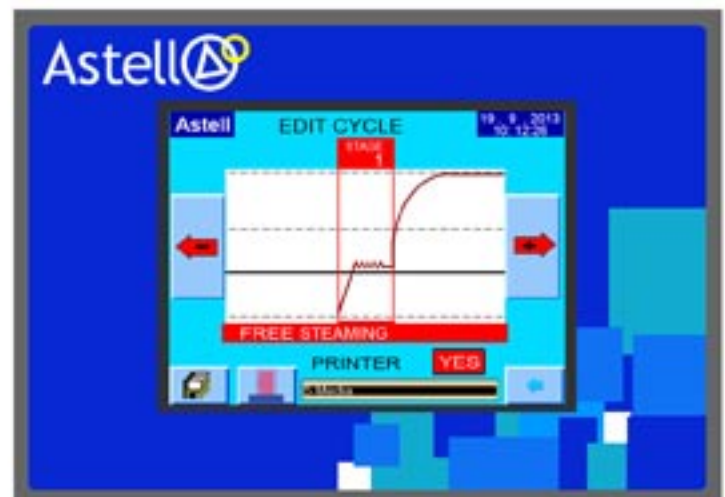Input / output override
Capable of calculating F/0

INFORMATIVE
Digital pressure / temperature display
Cycle counter
Stage timer
Cycle timer
Cycle header
Stage display
Pressure display
Up to four temperatures displayed
View input / output display
Logs batch number
Logs load number
Print any cycle from the data archive logs (printer required)

SUPPORTIVE
Self-help tutorial
Fault diagnosis
Safety valve test cycle
Machine service timer
Fault history log

...Plus many more features can be added.

Pictured Right:

Electro polished pressure vessels come as standard on all our circular chambered autoclaves, allowing for easy cleaning.