Top Loading Autoclave Range

95, 120, 135 litre models

*Fitted with **heaters in chamber** as standard*

Low water and power consumption

Astell's top loading autoclave range is available in three sizes and 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 touchscreen with integrated USB data port
- 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 electropolished stainless steel chamber
- Castor mounted for easy movement
- Timed/Pulsed Freesteaming
- Full range of options and accessories *(see overleaf for details)*

Specifications

Model no.	Steam source	Volume (litres)	Power supply	Chamber diam. x depth (mm)	Usable chamber depth (mm)	Overall dimensions W x H x D (mm)
AMA250	Heaters in Chamber	95	3 Phase, 10kW	456 x 584	449	660 x 940 x 840
AMA260		120		456 x 736	601	660 x 1070 x 840
AMA270		135		456 x 817	682	660 x 1150 x 840
AMA260	Integral Steam Generator (option)	120	3 Phase, 14kW	456 x 736	601	660 x 1070 x 1200
AMA270		135		456 x 817	682	660 x 1150 x 1200

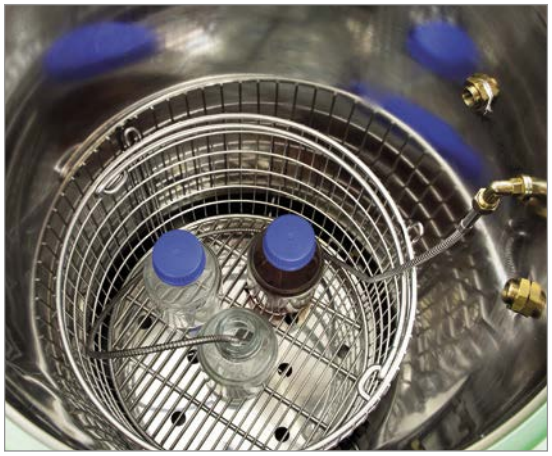
(Power consumption/dimensions may vary with the addition of certain options)

Bottle capacity

Below is a table identifying the number of Duran bottles it is possible to fit in to the chamber of each model. The number in brackets indicates the quantity of stainless steel baskets (Ref: AAN042) required to achieve this.

Model no.	500ml	1000ml	2000ml
AMA250	30 (2)	10 (1)	5 (1)
AMA260	30 (2)	20 (2)*	10 (2)*
AMA270	45 (3)	20 (2)*	10 (2)*

** (As the Duran bottle height exceeds the basket height, in this configuration the second basket would rest on top of the bottles in the lower basket).*



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Advanced options *(Selection of these options alters the power supply requirements listed in the Specifications table)*

Integral Steam Generator Option
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 (a mains water supply is required for this option). Astell Ref: 12KWSG

Advanced and Simple Vacuum Options
A vacuum option is essential for porous type 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 AVC001 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 AVC002 vacuum utilises the standard heaters in the base of the chamber with simple pre-vacuum air removal and post vacuum cooling to effectively sterilize porous type loads and difficult 'discard' loads, but without any drying capability. Astell Ref: AVC001 or AVC002

External Jacket Option
Requiring the steam generator or direct steam option (and normally in conjunction with the AVC001 vacuum option), the external jacket option effectively adds an additional layer to the outside of the autoclave chamber. This can then be independently heated by the steam generator to enhance the drying process at the end of the cycle, or it can be flooded with water during cooling to aid faster cooling times. Astell Ref: AJP150

Additional options

Load Sensed Process Timing	Ref: AAR014	Drain Cooling (heaters in chamber model only)	Ref: AAN420
Pulsar Freesteaming	Ref: AAN009	Category III (BSL-3) compliance	Ref: AVQ006
Integral data printer	Ref: AAR130	Stainless steel basket (D:400 x H:220mm)	Ref: AAN042
FDA 21 CFR part 11 controller software	Ref: CFR021	Stainless steel basket (D:400 x H:400mm)	Ref: AAN036
Remote maintenance/diagnosis	Ref: RDM101	Morrison discard container (D:390 x H:355mm)	Ref: AAN058
Ethernet interface	Ref: AAR122	Morrison discard container (D:390 x H:500mm)	Ref: AAN056
IQ/OQ documentation	Ref: IQ/OQ	Water softener (compact)	Ref: AAW002
Assisted air cooling	Ref: AAP006	Load support plate	Ref: AAN002
Advanced water cooling	Ref: AAP080	Direct Steam model	Ref: Various
Autodrain (heaters in chamber models only)	Ref: AAP018	Blow down vessel	Ref: AAB001
Autofill (heaters in chamber models only)	Ref: AAP019	Air compressor	Ref: AAQ503/525
Air ballast (requires compressed air)	Ref: AVC004E	Lifting hoist	Ref: HST040

Options capacity

Part name	Part ref.	Dimensions: Diameter x Height (mm)	AMA250	AMA260	AMA270
Stainless steel basket	AAN042	400 x 220	2	2	3
Stainless steel basket	AAN036	400 x 400	1	1	1
Morrison discard container	AAN058	390 x 355	1	1	1
Morrison discard container	AAN056	390 x 500	–	1	1

Installation requirements

Power requirements:
The power requirements for the standard machines are listed in the Specifications table, however these can vary depending on the options selected. Options that affect the power requirement are **Integral Steam Generator** and **Advanced and Simple Vacuum**. For details on the exact power requirements on these options please contact us. *N.B. A Neutral line and protective Earth are required for all electrically heated units.*

Water and drainage requirements:
A cold water supply of 2-6 Bar minimum, 4 litres/min is required for the 'Autofill', vacuum and water cooling options. Max temperature 25°C, Max flow rate 20 litres/min. Requirements vary for RO/de-ionised/hard water. Drainage: Free venting, non-manifolded drain (35mm diameter) capable of withstanding temperatures up to 100°C.

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