

SQUARE MAX Autoclave Range

600 – 1400 litre models

Fitted with steam generator/direct steam

Astell's SQUARE MAX range offers the choice of five different chamber sizes ranging from 600 to 1400 litres and various heating, loading and door options. The SQUARE MAX range is highly customisable and by choosing from the many options available it is possible to sterilize almost anything (subject to configuration).

Features include:

- 5.7" colour touchscreen controller
- 5 standard chamber sizes available
- Choice of two heating methods: Direct steam or steam generator
- Single or double doors (pass through)
- Automatic sideways opening door operation
- Full range of options and accessories (see overleaf for details)
- Custom built units available to meet your exact requirements



Specifications

Models listed below are a representative selection. Please contact us for the full range of available sizes and options.

Model no.	Volume (litres)	Doors	Steam generator	Direct steam	Chamber dimensions W x H x D (mm)	Overall dimensions W x H x D (mm)
SVS600	600	1 or 2	48kW	4kW	600 x 1000 x 1000	2000 x 2000 x 1500
SVS875	875	1 or 2	72kW	4kW	700 x 1000 x 1250	2000 x 2000 x 1750
SVS1050	1050	1 or 2	72kW	4kW	700 x 1000 x 1500	2000 x 2000 x 2000
SVS1200	1200	1 or 2	72kW	4kW	600 x 1000 x 2000	2000 x 2000 x 2500
SVS1400	1400	1 or 2	72kW	4kW	700 x 1000 x 2000	2000 x 2000 x 2500

(Overall dimensions are based on single door models. May vary with the configuration and addition of certain options)

Standard safety features

All SQUARE MAX range autoclaves are fitted with the following built-in safety features as standard:

- Over temperature protection, a cooling lock, a safety valve test program and emergency stop button
- The door mechanism is safety linked meaning a cycle cannot start until the door is properly closed; or opened until the pressure and temperature within the chamber is at a safe level
- The door seal is steam and vacuum resistant, and will seal effectively without trapping or entrapment of 'foreign' material
- Doors are thermally insulated to prevent the surface temperature presenting a potential hazard to operators
- Water conservation re-circulation system minimising water usage



SQUARE MAX fitted with optional stainless steel panels

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



Integral Steam Generator Option

The heaters in chamber are replaced with a 48kW/72kW 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).
Astell Ref: 48KWSG or 72KWSG



Advanced Vacuum Option

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. 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. Astell Ref: AVC001



External Jacket Option

Requiring a steam generator or direct steam 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: AAQ302 (AAQ302C for cooling)

Additional options

Integral data printer	Ref: AAR130	Category III (BSL-3) compliance	Ref: AVQ006
Load Sensed Process Timing	Ref: AAR014	Morrison discard container (W:300 x H:300 x D:300mm)	Ref: AAQ300
Remote maintenance/diagnosis	Ref: RDM101	Additional shelf	Ref: AAQ801
Ethernet interface	Ref: AAR122	Water softeners	Ref: AAW002
IQ/OQ documentation	Ref: IQ/OQ	Blow down vessel	Ref: AAB001
Internal convection cooling	Ref: AAP102	Loading systems	Ref: AAQ600/2
Air ballast (requires compressed air)	Ref: AVC004	Stainless steel pipework (primary)	Ref: AAS001
Integral air compressor (Req. for Vacuum units)	Ref: AAQ503	Stainless steel pipework (full)	Ref: SPL422
SPF seal (for double door machines only)	Ref: AVQ007		
Drain Cooling	Ref: AAN420		

Installation requirements

Power requirements:

The power requirements for the standard machines listed in the Specifications table are 415V, 3 Phase, with Neutral and Earth. Requirements can vary depending on the configuration and options selected. For additional details of exact power requirements please contact us.

Water and drainage requirements:

A cold water supply of 2-6 Bar minimum, 4 litres/min is required. Max temperature 25°C, Max flow rate 20 litres/min. Requirements vary for RO/de-ionised/hard water. Drainage: Free venting, non-manifolded drain (54mm diameter) capable of withstanding temperatures up to 100°C.



Touchscreen controller



Stainless steel pipework (optional)



Pressure gauge



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