

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 16kW/24kW 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: 16KWWSG or 24KWWSG



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, but without any drying capability. (Please note vacuum units require AAQ503 air compressor option).
Astell Ref: AVC001 or AVC002



External Jacket Option

Requiring a 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: AJP100 or AJP152

Additional options

Load Sensed Process Timing	Ref: AAR014	Internal convection cooling	Ref: AAP102
Pulsar Freesteamer	Ref: AAN009	Drain Cooling (heaters in chamber model only)	Ref: AAN420
Integral data printer	Ref: AAR130	Category III (BSL-3) compliance	Ref: AVQ006
FDA 21 CFR part 11 controller software	Ref: CFR021	Morrison discard container (W:280 x H:290 x D:330mm)	Ref: AAN300
Remote maintenance/diagnosis	Ref: RDM101	Container tray (W:279 x H:127 x D:279mm)	Ref: AAN080
Ethernet interface	Ref: AAR122	Additional shelf kit (for MNS120C/MNS153C)	Ref: AAN316
IQ/OQ documentation	Ref: IQ/OQ	Additional shelf kit (for MNS247C/MNS290C/MNS344C)	Ref: AAN318
Assisted air cooling/non jacketed	Ref: AAP006	Water softener (compact)	Ref: AAW002
Advanced water cooling	Ref: AAP100	Integral air compressor (req. for Vacuum units)	Ref: AAQ503/525
Autodrain (heaters in chamber models only)	Ref: AAP018	Blow down vessel (Steam Generator only)	Ref: AAB001
Autofill (heaters in chamber models only)	Ref: AAP019	Automatic door (requires compressed air)	Ref: APD001
Air ballast (requires compressed air)	Ref: AVC004	Direct steam model	Ref: Various

Options capacity

Part name	Part ref.	Dimensions W x H x D (mm)	MNS120C	MNS153C	MNS247C	MNS290C	MNS344C
Morrison discard container	AAN300	280 x 290 x 330	1	3	2	3	3
Container tray	AAN080	279 x 127 x 279	2	3	2	3	3
Container tray (capacity with middle shelf – optional extra)			4	6	6	9	9
Container tray (capacity with middle & upper shelf – extras)			–	–	6	12	12

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 vented, non-manifolded drain (35mm diameter) capable of withstanding temperatures up to 100°C.



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2 Sliding Front Autoclave Range

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