AMA270 Technical Details:

Details in italics show variations for vacuum and steam generator versions

Capacity:	135 litres
Operating range:	100-138°C, 0.2-2.4 bar

Power requirements:	1 phase, 230v, 30A, 7kW or 3 phase, 415v (N+E), 15A, 10kW 50/60Hz (please specify)
Water requirements:	Tap/softened water with <50ppm TDS; pH neutral. Manual fill on basic units. The addition of certain options will effect water requirements. Units with Autofill, water cooling or steam generator require: 15mm BSP connection; 2-6 bar, 4l/min. Units with vacuum require 15l/min
Drainage requirements:	Floor level, 35mm, non-manifolded, capable of withstanding free-flowing steam. Free vented to atmosphere if sealed.
Air requirements:	Compressed air is required for units fitted with air ballast or advanced vacuum.
Vent/safety valve:	DN 22 x2(3) to floor (outside by others)

Chamber (diameter x depth):	456x680mm
Approx. dimensions (wxdxh):	660xx840*(1200)*x1150mm overall; 91x110*(140)*x151cm packed
Approximate weight:	242kg nett; 268kg packed

Duran type bottle capacity:	39x 500ml[3] or 20x 1,000ml[2] or 10x 2,000ml[2] using AAN042 basket (quantity as superscript)
Options capacity:	2x basket AAN042; 1x basket AAN036; 1x Morrison container AAN056

Cooling locks:	In accordance with H.S.E. PM73 preventing opening of the autoclave above 80°C. (for fluid & discard cycles)
Alarms:	For Cycle Fault - Cycle Interruption - Sterilize Failure - Water Low - Door Unlocked
Door Seal:	Self-energising/service independent
Door:	The door release is interlocked by both temperature and pressure to ensure all residual pressure has completely and effectively vented to atmosphere before the doors can be opened. The door will retain its positions in the event of failure of any service. The door is thermally insulated to prevent the surface temperature presenting a hazard to operators. The surface temperature will not exceed IEC 61010 requirements. A cycle cannot start until the door is closed and locked. Steam cannot be applied to the chamber unless the door is closed and locked.
Interlocks:	Safety interlocks are provided, and are achieved by hardware, separate from and additional to the control system. All interlocks are configured to fail-safe and to provide a signal to the control system to indicate that normal operation has been prevented, and to terminate the current cycle. The interlock system is designed so that its function can be tested during routine maintenance. The following safety interlocks are provided: If the door is not closed, the steam supply to the chamber will be isolated. If the pressure in the chamber exceeds 0.15 bar the door will remain locked.
Applicable standards:	PED 2014/68/EC; ISO13485: 2012; Medical Devices Directive 93/42/EEC; Medical Devices Quality Management System - BS EN ISO 13485:2012; ISO 17025:2005 (UKAS); IEC 61010; ISO9001:2008
Performance tests:	All electrical equipment is Safety Tested in accordance with the Low Voltage Directive. Astell shall perform the following standard Factory Acceptance Tests. The tests are included in the machine costs as per the quotation prior to despatch; all Astell autoclaves are fully tested and calibrated before despatch in line with our ISO9001-2008 procedures.
IQ/OQ Documentation Details (Optional Extra):	IQ - Details of calibration equipment; Order Acknowledgement; PED (Pressure Equipment Directive) Compliance; Declaration of Conformity; FAT (Factory Acceptance Test); Drawing Schedule; ISO 9001:2008 Certification; Pressure vessel specification; Door safety checks. OQ - Chamber temperature distribution (per cycle); Automatic control test (per cycle) Please note: This is our standard IQ/OQ Documentation package. If other documents are required, please contact us with details of your specific requirements.
Autoclave Safety:	All Astell autoclaves are manufactured to the highest standards and in full compliance with the Pressure Equipment Directive – i.e. 2014/68/EC. Whilst all units have the necessary safety features to minimise user risk, and help ensure long term reliability, it is recommended that: a) Routine safety checks are carried out in accordance with Astell manuals and in compliance with current pressure regulations and/or insurance requirements. b) Autoclaves are serviced regularly by Astell or Astell trained/recommended engineers. (UK only: Please contact us for further information and costs on our range of Preventative Maintenance contracts). It is recommended that at least 50cm is allowed on both sides and the rear of the autoclave to allow easy access for servicing and maintenance. Astell cannot be held responsible for any failed cycles that could occur as a result of non-validation of loads.