AMA260 Technical Details:

Format:	Top loading
Capacity:	120 litres
Temperature range:	100-138°C
Pressure range:	0.2-2.4 bar
Power requirements (hea	ters in chamber):
Single phase version:	230V, 30A, 7kVA
Three phase version:	380-440V (N+E), 15A, 10kVA, 50/60Hz



Dower requirements (with	antional staam s		
Power requirements (with		· · · ·	
Three phase only:	380-440V (N+E), 14kVA, 50/60Hz (using 12KWSG)		
Water requirements:	 All Variants: Tap water with hardness below 50 ppm (water harder than 50 ppm of be brought within an applicable range with an Astell water softener). pH Neutral. With Autofill, vacuum, or water cooling; in addition to the above: A Ø15mm copper water supply line terminating in a ³/₄" isolation valve, providing water pressure between 2 and 4 Bar. Flow rate ranging from 4 to 20 liters per minute. Maximum operating temperature: 25°C. 		
			olation valve, providing water
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 vacuum (100l/min).		
Vent/safety valve:	Ø15mm or Ø22mm X 2(3) to floor (outside by others)		
Chamber diameter:	456mm	Chamber depth:	736mm
		Chamber usable depth:	601mm
		Required bench depth:	Not applicable

		Required bench depui.	Ποι αρριταρίε	
Approximate dimension	s (wxdxh):	Machine:	Packed:	
Standard model: Vacuum/steam generator model:		660x843x1070mm 665x1232x1190mm	118x82x132cm 82x141x135cm	
				Approximate weights:
Standard model:		195kg	206kg	
Vacuum/steam generator model:		244kg	300kg	
Duran bottle capacities	5			
500ml:	30 using 2x A	30 using 2x AAN042 baskets		
1000ml:	20 using 2x A	AN042 baskets		
2000ml:	10 using 2x A	AN042 baskets		
Option capacities:	2x baskets AA	2x baskets AAN042; 1x basket AAN036; 1x Morrison container AAN056		
Cooling locks:			ning of the autoclave above 80°C. (for	
	fluid & discar			
Alarms:	For Cycle Fau	For Cycle Fault - Cycle Interruption - Sterilize Failure - Water Low - Door Unlocked		

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.		
Door seal: Interlocks:	Self-energising/service independent. 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.		
Controller:	VGA (640x480) colour TFT + analogue re	sistive touchscreen	
Controller hardware:	Processor:Intel E620T 333MhzMemory:256MB DDRAM, 32KB FRAMPhysical Memory:2GB eMMC Flash Memory		
Real time clock: Program storage:	Gold Foil capacitor (1000 hours) Software stored internally, Configuration data and cycles stored on a permanently attached USB stick		
	Standard units	Variation for units with vacuum, or heated/cooling jacket (where available)	
Interfaces:	1x Powerlink 24VDC 1x X2X communication interface 1x Ethernet 10/100Mbit/s 2x USB 2.0 ports 1x Powerlink port (currently spare) 1x RS232 serial port		
I/O hardware:	X209300 - Communication card X208971 - Digital Input card, 8 Inputs X208322 - Digital Output card, 8 Outputs	X208371 - Digital input card 8 inputs 2x X209371 - Digital Input card, 12 Inputs 5x X208332 - Digital Output card, 8 Outputs	
	X202622 - Analogue Pressure Input module 2 inputs 4-20mA X202222 - Analogue Temperature Input module 2	X204622 - Analogue Pressure Input module 4 inputs 4-20mA X204222 - Analogue Temperature Input module 4 inputs	
Applicable standards:	PED 2014/68/EU; ISO 17025:2017 (UKAS); IEC 61010; ISO9001:2015	

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 Quality Management System procedures ISO9001-2015
IQ/OQ Documentation Details (Optional Extra):	IQ Documentation - Details of calibration equipment; PED (Pressure Equipment Directive) Compliance; Declaration of Conformity; FAT (Factory Acceptance Test); Drawing Schedule; ISO 9001:2015 Certification; Pressure vessel specification; Door safety checks. OQ Documentation - 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/EU. 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.
	autoclave to allow easy access for servicing and maintenance. Astell can responsible for any failed cycles that could occur as a result of non-valid