

AMB420 Technical Details:

Format:	Front loading
Capacity:	33 litres
Temperature range:	100-138°C
Pressure range:	0.2-2.4 bar
Power requirements (heat	ters in chamber):
Single phase version:	230V, 13A, 50/60Hz, (N+E).
Three phase version:	Not applicable



Three phase only:	Not applicable	2	
Water requirements:	Tap/softened	water with <50ppm TDS; pH neutr	ral. Manual fill.
Drainage requirements:	A condensate	bottle (Ref: AAN308) or a similar h	neat resistant receptacle is required.
Air requirements:	Not applicable		
Vent/safety valve:	No drain connection required.		
Chamber diameter:	346mm	Chamber depth: Chamber usable depth: Required bench depth:	355mm 294mm 670mm
Approximate dimensions (v	wxdxh):	Machine:	Packed:
Standard model: Vacuum/steam generator r	nodol	520x805x600mm Not applicable	115x68x94cm Not applicable
	nodet.		
Approximate weights:		Machine: 96kg	Packed: 115kg
Duran bottle capacities:			
500ml: 1000ml: 2000ml:	10 8 2		
Option capacities:	1x Discard container AAN346; 2x Movable shelves if 5 position shelf kit ordered		
Cooling locks:	In accordance with H.S.E. PM73 preventing opening of the autoclave above 80°C. (fo fluid & discard cycles)		
Alarms:	For Cycle Fault - Cycle Interruption - Sterilize Failure - Water Low - Door Unlocked		

Door:	doors can be opened. The door will reta service. The door is thermally insulated presenting a hazard to operators. The su	fectively vented to atmosphere before the in its positions in the event of failure of any to prevent the surface temperature urface temperature will not exceed IEC 61010 the door is closed and locked. Steam cannot	
Door seal: Interlocks:	additional to the control system. All interprovide a signal to the control system to prevented, and to terminate the current that its function can be tested during rouinterlocks are provided: If the door is not	achieved by hardware, separate from and erlocks are configured to fail-safe and to o indicate that normal operation has been t cycle. The interlock system is designed so putine maintenance. The following safety ot closed, the steam supply to the chamber hamber exceeds 0.15 bar the door will remain	
Controller:	VGA (640x480) colour TFT + analogue re	sistive touchscreen	
Controller hardware:	Processor:Intel E620T 333MhzMemory:256MB DDRAM, 32KlPhysical Memory:2GB eMMC Flash Me	B FRAM	
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 17025:2005 (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.