



## BENCHTOP AUTOCLAVE RANGE

33 | 43 | 63 Litres



## The Astell Benchtop Range

33 | 43 | 63 Litres



### Product Overview

The Astell Benchtop range of autoclaves offers convenience and flexibility, with models that cover a range of sterilizing requirements and different chamber sizes.

The range is available with one of two different steam generation methods - either Heaters in Chamber or a Steam Generator. See page 17 for more information on these two methods of steam generation.

Models with Heaters in the Chamber are available with a choice of two different methods of filling with water - one automatic and one manual.

Manual fill (or Classic) units are filled by the user between cycles. Autofill models have an integral water tank and therefore require less regular filling. See web page [www.astell.com/autofill-autoclaves-explained](http://www.astell.com/autofill-autoclaves-explained) for more information.

SPECIFICATIONS	Capacity (Litres)	Chamber (Dia x Depth - mm)	Overall Dimensions (wxhxd in mm)	Power Supply	Required Bench Depth (in mm)	Autofill/Autodrain
AMB420BT	33	350 x 360	520 x 540 x 780	1 Ph, 230v, 13A, 50/60Hz	670	No
AMB430BT	43	350 x 460	520 x 540 x 780	1 Ph, 230v, 13A, 50/60Hz	670	No
AMB440BT	63	350 x 660	520 x 540 x 980	1 Ph, 230v, 13A, 50/60Hz	855	No
AMB220BT	33	350 x 360	520 x 540 x 780	1 Ph, 230v, 13A, 50/60Hz	670	Yes
AMB230BT	43	350 x 460	520 x 540 x 780	1 Ph, 230v, 13A, 50/60Hz	670	Yes
AMB240BT	63	350 x 660	520 x 540 x 980	1 Ph, 230v, 13A, 50/60Hz	855	Yes

### OPTIONS CAPACITY

Part Name	Part ID	Dimensions (mm)	AMB220BT & AMB420BT	AMB230BT & AMB430BT	AMB240BT & AMB440BT
Discard Container	AAN346	180 (w) x 200 (h) x 260 (d)	1	2	3
5 Position Shelf Kit	Various	Fitted to Chamber	2*	3*	3*

\* Indicates the number of moveable shelves provided with the 5 Position Shelf Kit. Additional shelves available to purchase separately.

### BOTTLE CAPACITY (Duran Type)

To the right are details of Duran bottles from 500ml to 2000ml that can fit within the various models of Astell autoclaves.

If you have a non-standard bottle size, please contact us with details and dimensions and we will advise how many can fit within the unit.

Bottle Size	AMB220BT & AMB420BT	AMB230BT & AMB430BT	AMB240BT & AMB440BT
500ml	10	14	21
1000ml	8	11	15
2000ml	2	3	4

“Add the options you **need**; don’t pay extra for the things you don’t - Astell Benchtop autoclaves don’t need extra items to operate”

#### Heaters in Chamber

Integrated Heaters

#### Steam Generator

Integrated Generator

Temperature range of 100°C to 138°C (0.2 - 2.4 Bar)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5.7" Colour Touch Screen Display & External Pressure Gauge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5 Preprogrammed Cycles and up to 50 available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Password levels to stop low level users making changes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Internal memory for storing up to 5,000 cycles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Delayed start facility	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Media Holdwarm facility	<input checked="" type="checkbox"/>	
<b>DATA OPTIONS</b>		
Integral Data Printer	<input type="checkbox"/>	<input type="checkbox"/>
RS232 for Hyperterminal data output	<input type="checkbox"/>	<input type="checkbox"/>
USB for USB Drive data output	<input type="checkbox"/>	<input type="checkbox"/>
Ethernet for remote screen viewing (requires VNC software)	<input type="checkbox"/>	<input type="checkbox"/>
Ethernet for downloading cycle data (requires FTP software)	<input type="checkbox"/>	<input type="checkbox"/>
<b>LOAD SPECIFIC OPTIONS</b>		
Load Sensed Process Timing (PT100 Sensor)	<input type="checkbox"/>	<input type="checkbox"/>
Pulsar Freesteaming for improved steam penetration	<input type="checkbox"/>	
Simple Vacuum (Pre vacuum air removal, Post vacuum cooling - Autofill models only)	<input type="checkbox"/>	
Advanced Vacuum (For porous loads)		<input type="checkbox"/>
Chamber heating for drying (requires Advanced Vacuum)		<input type="checkbox"/>
CAT 3 (BSL3) Compliance	<input type="checkbox"/>	<input type="checkbox"/>
<b>COOLING OPTIONS</b>		
Fan (Air) Cooling	<input type="checkbox"/>	
<b>SERVICES</b>		
Automatic Chamber Fill/Drain	<input type="checkbox"/>	
Condensate Bottle (for models without Automatic Chamber Fill/Drain*)	<input type="checkbox"/>	

\* For models without Automatic Chamber Fill/Drain, during the cycle condensate leaves the vessel via a silicone tube that must be connected to a heat-resistant bottle (optional extra)

☒ Standard ☐ Optional

## Model Compatibility

	AMB420BT (33 Litres)	AMB430BT (43 Litres)	AMB440BT (63 Litres)	AMB220BT (33 Litres)	AMB230BT (43 Litres)	AMB240BT (63 Litres)
Heaters in Chamber	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heaters in Chamber (With Autofill/Autodrain)				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heaters in Chamber (with Autofill/Autodrain and Simple Vacuum)				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Steam Generator (with Autofill/Autodrain and Advanced Vacuum)				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Colour touch screens as standard

All Astell Scientific autoclaves, steam generators and effluent decontamination systems (EDS) incorporate the latest innovations in control system technology, providing colour touchscreen controllers as standard throughout the range.

Astell colour touch screen control systems are an advance in sterilization control technology. Bringing together years of unrivalled experience, they produce a user friendly, fully automatic control system designed to meet and exceed the expectations of the most demanding laboratories and centres of sterilization.

The controller consists of a wipe clean touch screen measuring 122mm x 94mm and is based on an industrial PLC system, combined with a number of analogue and digital input/output modules. The controller software has been developed by Astell for the precision control of all our autoclaves and sterilizers.

## Standard Features

Icon driven menu system

Simple cycle selection

Continual cycle monitoring

### SECURE

Data archiving for up to 5,000 cycles

Multiple user access levels and multi-level password protection

User log

### FLEXIBLE

Ability to program up to 50 cycles

Program new cycles, modify, duplicate or rename existing cycles

Delayed start facility

Hold warm facility (if applicable)

### INFORMATIVE

Digital display of pressure/temperature

Cycle counter, stage timer, cycle timer and stage display

Print any cycle from the data archive logs (printer required)

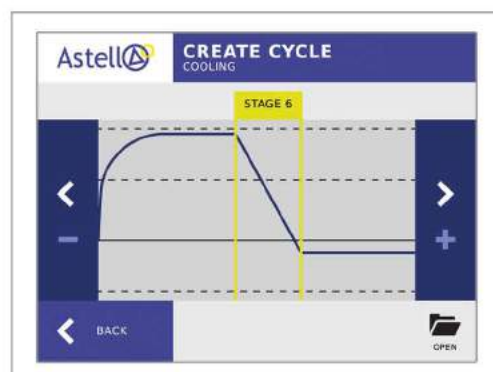
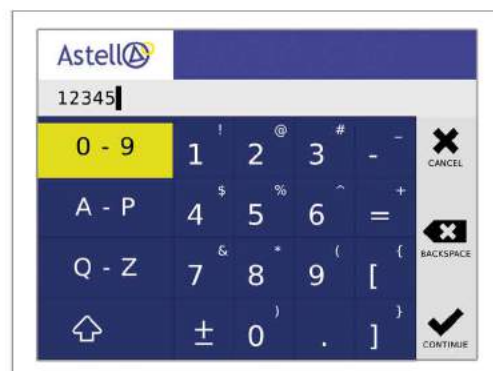
### SUPPORTIVE

Fault diagnosis

Safety valve test cycle

Machine service timer

Fault history log



## Standards Compliance

ISO 9001:2008 Pressure Equipment Directive (PD/97/23/EC)  
 ISO 13485:2012 Medical Devices Directive (93/42/EC & 2007/47/EC)  
 ISO 17025:2005 (UKAS)  
 IEC 61010  
 ASME "U" VIII  
 EN285\* HTM2010\* (\*Where applicable)  
 Operating Range: 100°C - 138°C (0.2 - 2.4 Bar)

