



**SQUARE AUTOCLAVE RANGE**

490 | 612 | 735 Litres



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## The Astell SQUARE Range

125 to 735 Litres



**Pictured right:**  
SQUARE-125 to  
SQUARE-360 design

**Pictured above:**  
SQUARE-490 to SQUARE-735 design  
(fitted with optional Stainless Steel panels)

### SQUARE Range

The Astell Scientific SQUARE range offers the choice of seven different chamber sizes ranging from 125 to 735 litres. The range is available with different configurations including 1 or 2 doors and manual or automatic door opening methods.

The SQUARE range is manufactured with a choice of either an Integral Steam Generator or the ability for the machine to accept an existing onsite supply.

A variety of loading and shelf systems are available for the SQUARE range depending on your required load configuration.

Features of the SQUARE range include:

- Choice of 2 Heating methods
- Automatic/Manual Door (Subject to chamber size)
- Choice of 7 standard chamber sizes

The SQUARE range is suitable for sterilizing:

- Glassware and Plastics
- Media and Fluids
- Waste (discard)
- Porous Loads/Fabrics (requires additional options)

SPECIFICATIONS	Capacity (Litres)	Door Configuration				Steam <sup>†</sup>		Chamber Dimensions (wxhxd in mm)	Overall Dimensions** (wxhxd in mm)
		One (1) Door	Two (2) Doors	Automatic Door	Manual Door	Steam Generator (including power*)			
SQUARE-125	125	■		■	□	■	24kW	500 x 500 x 500	780 x 2000 x 1300
SQUARE-216	216	■		■	□	■	24kW	600 x 600 x 600	880 x 2000 x 1400
SQUARE-250	250	■	□	■	□	■	24kW	500 x 500 x 1000	880 x 2000 x 1750
SQUARE-360	360	■	□	■	□	■	24kW	600 x 600 x 1000	880 x 2000 x 1750
SQUARE-490	490	■	□	■		■	48kW	700 x 700 x 1000	1500 x 2000 x 1700
SQUARE-612	612	■	□	■		■	48kW	700 x 700 x 1250	1500 x 2000 x 2000
SQUARE-735	735	■	□	■		■	48kW	700 x 700 x 1500	1500 x 2000 x 2300

\* The unit requires a 415V, 3 Phase Neutral and Earth power supply. Additional information available on request.

\*\* Dimensions are based on Single Door models fitted with a Steam Generator. Contact us for specific configuration dimensions.

± Models below 250 litres are available with heaters in the chamber. Models are also available with the facility to connect to an in house steam supply.

■ Standard □ Optional

“Available in a range of sizes and specifications or custom built to your exact requirements - the SQUARE range offers flexibility at its core”

**Steam Generator**  
Integrated Generator  
(or in-house steam supply)

Temperature range of 100°C to 138°C (0.2 - 2.4 Bar)	<input checked="" type="checkbox"/>
5.7" Colour Touch Screen Display & External Pressure Gauge	<input checked="" type="checkbox"/>
5 Preprogrammed Cycles (and up to 50 available)	<input checked="" type="checkbox"/>
Password levels (to stop low level users making changes)	<input checked="" type="checkbox"/>
Internal memory for storing up to 5,000 cycles	<input checked="" type="checkbox"/>
Delayed start facility	<input checked="" type="checkbox"/>
<b>DATA OPTIONS</b>	
Integral Data Printer	<input type="checkbox"/>
RS232 for Hyperterminal data output	<input type="checkbox"/>
USB for USB Drive data output	<input type="checkbox"/>
Ethernet for remote screen viewing (requires VNC software)	<input type="checkbox"/>
Ethernet for downloading cycle data (requires FTP software)	<input type="checkbox"/>
<b>LOAD SPECIFIC OPTIONS</b>	
Load Sensed Process Timing (PT100 Sensor)	<input type="checkbox"/>
Advanced Vacuum (For porous loads)	<input type="checkbox"/>
Heated jacket for drying (requires Advanced Vacuum)	<input type="checkbox"/>
CAT 3 (BSL3) Compliance	<input type="checkbox"/>
Air Ballast (For fluid loads, requires Load Sensed Process Timing and cooling)	<input type="checkbox"/>
<b>COOLING OPTIONS</b>	
Fan Cooling (Internal)	<input type="checkbox"/>
Water Cooling (Coils and Jacket available)	<input type="checkbox"/>
<b>SERVICES</b>	
Automatic Chamber/Steam Generator Fill (Mains supply required)	<input checked="" type="checkbox"/>
Automatic Chamber Drain (Heat resistant drain required)	<input checked="" type="checkbox"/>
Drain Cooling (for plastic drains)	<input type="checkbox"/>
Water Softener	<input type="checkbox"/>
Blowdown Vessel	<input type="checkbox"/>
Air Compressor (Required if onsite supply is not available)	<input type="checkbox"/>
Loading Systems and Discard Containers	<input type="checkbox"/>

**Please note:** For Water and Drainage requirements, please contact us for a quotation to ensure that the information provided is specific to the machine you require.

Standard  Optional

## 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)

