



SQUARE MAX AUTOCLAVE RANGE

600 | 875 | 1050 | 1200 | 1400 Litres



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The Astell SQUARE MAX Range

600 to 1400 Litres



Pictured left:
SQUARE MAX-875 (fitted with optional Stainless Steel panels)

SQUARE MAX Range

The Astell Scientific SQUARE MAX range offers the choice of five different chamber sizes ranging from 600 to 1,400 litres in different configurations, including 1 or 2 door (pass through) models.

The SQUARE MAX range is highly customisable with additional options available that enable the unit to be capable of sterilizing almost anything.

Popular optional extras for the SQUARE MAX range include a loading system designed to perfectly fit the chamber, a printer for real time cycle printouts and a variety of cooling methods to choose from.

Please contact us for a quotation for further information.

Features of the SQUARE MAX range include:

- Choice of 2 Heating methods (Subject to chamber size and load type)
- Automatic Sideways Opening Door
- Choice of 5 standard chamber sizes

The SQUARE MAX 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†		Chamber Dimensions (wxhxd in mm)	Overall Dimensions** (wxhxd in mm)
		One (1) Door	Two (2) Doors	Automatic Door	Steam Generator (including power)			
SQUARE MAX-600	600	■	□	■	■	48kW	600 x 1000 x 1000	2000 x 2000 x 1500
SQUARE MAX-875	875	■	□	■	■	72kW	700 x 1000 x 1250	2000 x 2000 x 1750
SQUARE MAX-1050	1050	■	□	■	■	72kW	700 x 1000 x 1500	2000 x 2000 x 2000
SQUARE MAX-1200	1200	■	□	■	■	72kW	600 x 1000 x 2000	2000 x 2000 x 2500
SQUARE MAX-1400	1400	■	□	■	■	72kW	700 x 1000 x 2000	2000 x 2000 x 2500

* 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 are also available with the facility to connect to an in house steam supply. Please contact us for details.

■ 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"/>
DATA OPTIONS	
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"/>
LOAD SPECIFIC OPTIONS	
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"/>
COOLING OPTIONS	
Fan Cooling (Internal)	<input type="checkbox"/>
Water Cooling (Coils and Jacket available)	<input type="checkbox"/>
SERVICES	
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)

