



## Priorclave details - model no PS/RSV/EH450.

Front Loading 450L Rectangular Section Priorclave Autoclave with Vertical Power Door, Electrically Heated. (includes cooling & automatic timed freesteaming)

Built to a compact design these autoclaves are available in 450 & 700 litre capacities with other sizes available on request. Castor mounted for ease of positioning, they are available either electrically or direct steam heated and feature a simple, three hand wheel hinged door closure. All models are fitted with two non-tipping shelves and a range of stainless steel baskets, waste containers and loading trolleys are available to suit these autoclaves. These models are optionally available with steam / water jackets if required.



### Rectangular Section Power Door Priorclaves.

For those occasions when only 'square' will do! Perfect for high volume throughput as well as large or bulky items and where there is restricted space for door opening at the front of the autoclave. These autoclaves combine a huge internal capacity with a small floor area and are ideally suited for use in a wide range of sterilising applications such as media preparation, liquids and diluent, waste, glassware, instruments, apparatus and health care.

They are extensively used within many industries, including food, drink, dairy, pharmaceutical, agricultural, education, healthcare, research establishments and industry.

#### Features include:

- Capacities from 230 to 700 Litres and above. Intermediate sizes available to suit individual locations where required.
- Operation up to 138C - 2.4 Bar
- Large rectangular chamber within a compact frame
- No moving door gasket Can be supplied as a stand-alone cabinet autoclave or for building into a fascia panel in a dedicated plant room.
- Steam generated within the chamber (electrically heated models) - Direct steam heated models available
- Complete with thermocouple entry and test ports
- Forced air cooling as standard helping to reduce cycle times (Jacket cooling available)
- Automatic timed freesteaming as standard for improved air removal and sterilising performance
- Delayed start and media warming function as standard for ready to pour media at the start of the day
- A large selection of options and accessories is available to help to get the most from your Priorclave autoclave
- Supplied with two full width non-tipping stainless steel shelves.
- Stainless steel baskets, waste containers and loading trolleys available

All models are fitted with the **TACTROL** microprocessor control system. After setting your required operating parameters press the start button for a fully automatic cycle. The control panel shows cycle status with digital readouts of temperature and time that can be viewed simultaneously. Temperature and time settings are fully adjustable within the operating range of the autoclave.

## Safety

Pressure vessels are fully **CE** marked and insurance approved to the European PED 97/23/EC. The autoclaves fully conform to BS2646-1993, BS5500 Cat.3, Machinery and EMC directives, amongst others.

The pressure door is raised and lowered by hydraulic rams. The door is retained onto the non-moving door seal by the action of clamps acting on the outer front face of the pressure door. The pressure door is covered by an outer door which must be raised into position before the pressure door commences its travel into the locked position. The control panel is fitted to the right of the door, the pressure door advance button is mounted in the control panel. The outer door is fitted with thermal and pressure locks preventing opening of the autoclave at load temperatures above 80° C and pressures above 0.2 Bar.

A safety blow down valve and a low water level sensor to guard against boil-dry conditions (electrically heated models) afford further protection.

Epoxy coated panels and frame members are treated with the unique **BioCote®** anti-bacterial agent, which is effective against all bacteria and fungi including MRSA.

## Installation Requirements

**Electrical:** 3 Phase – 400V, 21kW, 30A (230, 285 & 350L Models), 400V,32.5kW, 60A (450L Model), 400V, 42kW, 60A (700L Model)

**Steam:** (Direct steam heated models only): - Dry Steam reduced to 40psi. ½ in BSP.

**Drainage:** - The single 1 in vent outlet pipe can be directed to a nearby drain. For safe processing the discharge should be directed to a sealed discharge system; the system should lead by direct connection to a building drain or catchment tank.

For more specific advice about your particular installation requirements please contact our Technical Department or download our data sheet outlining the installation requirements for Priorclaves or any other type of Laboratory autoclave at: <http://www.priorclave.co.uk/downloads/installation.PDF>

Rectangular Section Power Door Priorclave autoclaves have a 12 months parts and labour warranty (parts only outside the UK) and a 10 year or 8,000 cycle pressure vessel warranty. **Additionally the door-sealing gasket is guaranteed against failure for 3 years.**

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## Technical Specifications.

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**Max. Capacity:** 450L

**Internal Diameter:** -mm

**Load height:** 1045mm

<b>Dimensions (mm)</b>	<b>Width</b>	<b>Depth</b>	<b>Height</b>	<b>Packed Dimensions (mm)</b>	<b>Width</b>	<b>Depth</b>	<b>Height</b>
<b>Internal</b>	675	900	755	<b>UK Delivery</b>	159	141	209
<b>External</b>	1360	1540	2065	<b>Delivery by Sea</b>	168	147	226
<b>Installed</b>	1360	1740	2065	<b>Delivery by Air</b>	168	147	226

<b>Weights (Kg)</b>	
<b>Gross</b>	1180
<b>Packed (Sea)</b>	1552
<b>Packed (Air)</b>	1552

**NB:** Weights and dimensions shown are for the Autoclave only, unloaded and without water (if applicable). These figures do not include any options and accessories listed below which may alter external dimensions and weights. For full details please contact Priorclave or your local agent.

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# Options & Accessories.

<b>Recommended</b>	
<b>Code</b>	<b>Description</b>
PC/VPC/400	Combined pre-cycle vacuum and vacuum cooling - Rectangular 450/700
PC/VPD/400	Post cycle vacuum drying option - Rectangular 450/700
PC/HOS/000	Hospital Equipment Kit (C14/HTM2010)
PC/INT/000	Air Intake Filter System
PC/HOS/010	Hospital Specification Kit for Porous loads includes: test port on press. Gauge; mech. Cycle counter; back up t/stat for thermal lock; air detector; auto. Leak rate test; Bowie & Dick Test; Tactrol self-monitoring system
PC/AVS/000	Autoclave Performance Testing Service
PC/ABC/000	<p><b><u>Air Ballast System</u></b>            Enables the use of sealed or semi-rigid containers and the autoclaving of, for example, contact lenses and liquids or gels in pouches without distortion of the containers during cooling. It is also required to prevent container breakage and volume losses during cooling on autoclaves cooled by an external water jacket when autoclaving any liquid loads. Includes a 0.2 micron filter, a pressure regulator, oil and water traps and two pressure gauges. Requires an external dry, oil free air supply, terminated at a suitable isolating connector within 2 meters of the rear of the autoclave.</p>
PC/INS/ZNA	Installation - Compact, Standard & RSC Units - Zone A
PC/RSC/DIL	Stainless Steel Discard Container for RSC 450 & 700L Model Priorclaves. Important for autoclaving waste loads to contain spillage and to protect the inside of the autoclave from damage.
PC/PFS/000	Pulsed Freesteaming
PC/PRG/TAC	TACTROL 5 Program Memory
<b>Code</b>	<b>Description</b>
PC/LPT/000	Load Sensed Process Timing
PC/PRN/000	Priorclave Tactrol Printer
<b>Code</b>	<b>Description</b>
PC/PRN/010	Load Temperature Indication (included if Loadsense is fitted)
PC/AWF/RSC	Automatic Waterfill System for RSC Priorclaves
PC/BA1/RSC	Stainless steel mesh baskets for RSC 450 & 700. 650x290x190mm (wxdxh)
PC/DRC/020	Heat exchange condenser (28mm / 1" BSP) for RSC Models
PC/LOC/000	Setting Lock Keyswitch Facility
PC/P10/TAC	TACTROL 10 Program Memory
PC/PRN/020	Pressure Printout
PC/SPK/RH2	Spares Kit 2 Years RSC Priorclaves
PC/SPK/RH3	Spares Kit 3 Years RSC Priorclaves
PC/WSC/000	Scale Prevention System-small
PC/WSC/010	Scale Prevention System-large
<b>Code</b>	<b>Description</b>
PC/MED/000	Media Warming Facility
PC/TFS/000	Automatic Timed Freesteaming