

Autoclave - Floor Model (+135°C) General Purpose

LABEC Brand Autoclaves are designed for steam pressure sterilisation, media preparation, waste destruction etc. Modern styling and materials have been used in the construction to ensure ease of maintenance, operation and user safety. Labec autoclaves are constructed in accordance with Australian Standard 210 and are approved by Department of Labour and Industry of NSW with reciprocal approval by equivalent bodies in all states of Australia.

Construction

The pressure vessel is constructed from 18/8 stainless steel specifically chosen for its corrosion resistance characteristics. The lid and all components exposed to steam are constructed from 18/8 stainless steel. The outer case is 304 grade stainless steel. The lid is counter balanced for ease of opening and seals on a silicone rubber recessed gasket.

Special attention has been given to the lid opening and closing system which can be performed quickly and safely.



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Controls

Pressure and temperature is controlled by a digital set point, digital temperature indicating microprocessor controller. A pressure gauge registers chamber pressure. An automatic 0-300hr timer is fitted which commences when the desired temperature is reached and at completion of cycle the heaters are switched off.

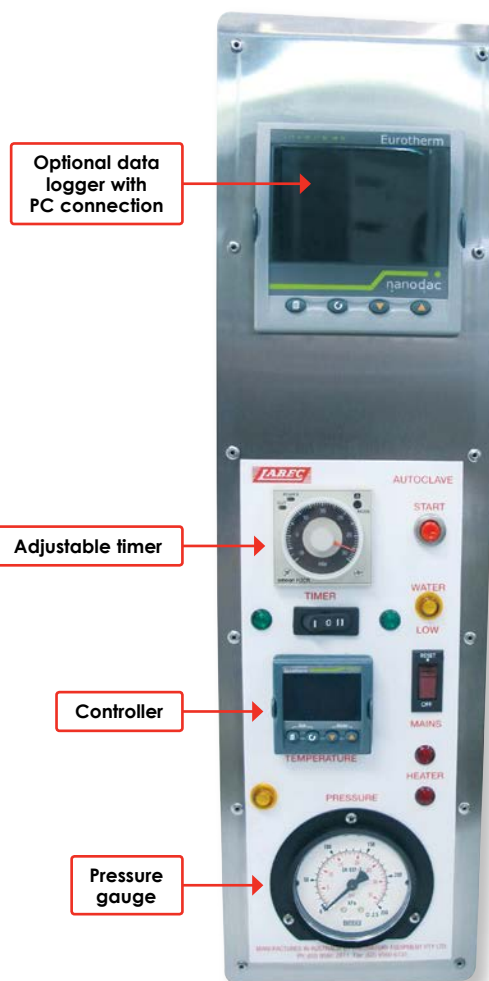
Heating

Heating is by immersion elements in the base of the vessel and only a small amount of water is required, resulting in fast heat up times. An electric low water switch will protect the element and turn off power should the water level be below the required level.

The electrical supply required is either 15AMP or 20AMP single or two phase, which may be plugged or hard wired directly to electrical supply. No special plumbing is required but the vents may be plumbed to a suitable drain to avoid steam exhaust in the autoclave location.



Standard internal basket



Optional data logger with PC connection

Adjustable timer

Controller

Pressure gauge

Gantry lifting system



SPECIFICATIONS

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| Model | AA13 | AA16 | AA18 | AA20 |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|-----------------------|
| Capacity (litres) | 40 | 60 | 80 | 100 |
| Int. Dim. (cm) Dia x Depth | 33 x 46 | 33 x 60 | 46 x 46 | 46 x 60 |
| Ext. Dim. (cm) H x W x D | 95 x 70 x 70 | 110 x 70 x 70 | 95 x 80 x 75 | 110 x 80 x 75 |
| Temp. Controller | Digital PID Controller | | | |
| Temp. Min | Ambient+5°C | | | |
| Temp. Max | 135°C | | | |
| Temp. Setting Accuracy | +/- 0.1°C | | | |
| Temp. Fluctuation | +/- 1.0°C | | | |
| Temp. Sensor | Type K | | | |
| Heating System | Electric Element | | | |
| Timer | 0-300 hrs/mins/secs | | | |
| Pressure Max. (kPa) | 215 | | | |
| Interior Material | 321 Stainless Steel | | | |
| Exterior Material | Stainless Steel | | | |
| Baskets (standard) | 1 | | | |
| Options | Steam injection, additional baskets, internal thermocouple, programmable controller, chart recorder, gantry lifting system, castors, rapid heat up time, increased working depth chambers. | | | |
| Safety Features | Over pressure relief valve, earth leakage breaker (ELB), low water level sensor, two stage interlocking safety door. | | | |
| Power Supply | 15AMPS / Single Phase | | 20AMPS / Single Phase | Three Phase + Neutral |
| Power (W) | 3600 | | 4000 | 6000 |
| Weight (kg) | 80 | 90 | 120 | 130 |

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