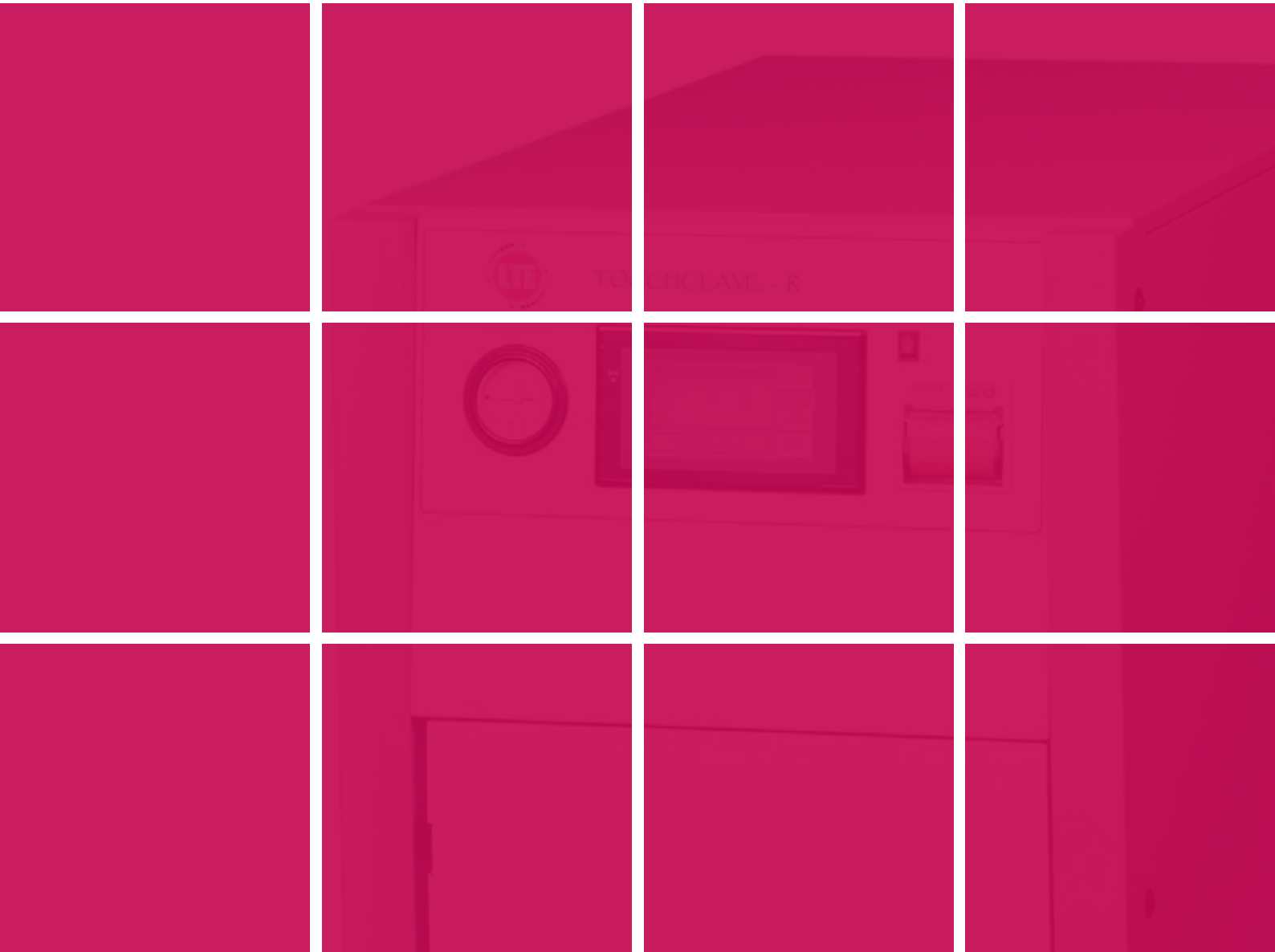




Laboratory Autoclaves

Cylindrical section autoclaves from 23 to 160-litres



Labclave 23

IN-CHAMBER HEATING

Labclave 23 is LTE Scientific's low-cost 23-litre laboratory autoclave. Designed to offer effective and fast sterilization of many laboratory load types and taking up a floor area of just 460mm x 395mm, Labclave 23 has to be one of the most compact units available.

Our standard features are as follows:

- **Stainless Steel Pressure Vessel** - Manufactured from high grade 304L stainless steel.
- **Push-Button Door Closure** - Our ingenious door closure system seals and locks the door at the push of a button. The servo-assisted motor ensures a positive seal every time.
- **Flexible Control System** - 8 pre-set programs covering the most popular sterilization cycle. A 'free cycle' is also provided, allowing you to set your own specific cycle parameters quickly and easily. See table opposite for further details.
- **Printer** - A complete record of every cycle is produced on the built-in thermal printer.
- **Post Vacuum System** - Non-liquid cycles can achieve faster cycle times thanks to the built-in vacuum pump which will aid the cooling process and help dissipate moisture from the load.
- **Safety** - Pressure, temperature and timed door safety systems ensure that the door cannot be opened until the chamber has reached atmospheric pressure and 90°C. A low water protection device is also fitted.
- **Air Cooled Condensate Unit** - Allows the cooled condensate to be discharged directly to drain if required, although a waste container is provided as standard.
- **Cooling Options** - For maximum flexibility, 4 types of cooling method are available on the Labclave 23. See table opposite for further details.

CYCLE DETAILS

Cycle	Sterilizing Temp °C	Hold Time	Cooling	Post Vacuum Active	Max Load
1	121	15 mins	Fast	No	6kg Solid Materials 5kg Liquids
2	121	15 mins	Slow	No	
3	121	15 mins	Fast	Yes	
4	121	15 mins	Slow	Yes	
5	121	20 mins	Fast	Yes	
6	121	20 mins	Slow	No	
7	126	15 mins	Slow	No	
8	134	10 mins	Fast	Yes	
9 (Free Cycle)	105 - 135	1-99 mins	Slow/Fast	Yes/No	

TECHNICAL AND ORDERING INFORMATION

Model	LAB/23/1
Capacity	23 litres
Loading	Top
Printer	Included
Chamber Dims (mm)	236 dia x 530 D
Overall Dims, HWD (mm)	930 x 460 x 395
Basket	Included
Weight (kg)	55
Power (kW)	2.5



Touchclave-R

IN-CHAMBER HEATING

Available in 120-litre and 160-litre sizes, with a choice of front or top loading. Ideal for many laboratory sterilization applications, the Touchclave-R range has been designed with flexibility and reliability in mind and is ideal for installation in laboratories which do not have access to a drain or water supply.

Equipped with features not normally seen on this type of sterilizer, Touchclave-R provides unrivalled performance and versatility

- No-action 'push-n-seal' door with pneumatic seal and locking
- 8-program Touchscreen control system
- Compact design
- 316L stainless steel pressure vessel
- Built-in air ballast system for faster processing of liquid loads
- Load-sensed process timer
- Fan cooling system
- Operating temperatures from 105°C to 137°C

Submerged heaters within the chamber generate steam. The chamber water can be topped up either manually or automatically.

Sensors within the chamber prevent the cycle from starting or continuing if there is insufficient water.

A safety microswitch is fitted to the door which will only allow the cycle to start if the door is properly closed and locked.

At the end of the cycle, the door will not be released until both temperature and pressure have reached safe pre-set levels.

All four models are floor standing and are easily moved on castors.

Touchclave-R models can be modified to suit specific requirements such as operating from customers steam supplies or being fitted with an auto drain/fill system. Ask our sales office for more details.

TECHNICAL AND ORDERING INFORMATION

Model	Chamber litres	Loading	Chamber Dims Dia x D (mm)	Overall Dims HWD (mm)	Weight (kg)	Shelves/Positions
TCR/120/H	120	Front	500 x 610	1680 x 700 x 1170	260	2/2
TCR/120/V	120	Top	500 x 610	1200 x 890 x 650	265	1/1
TCR/160/H	160	Front	500 x 825	1680 x 700 x 1170	290	2/2
TCR/160/V	160	Top	500 x 825	1200 x 890 x 650	295	1/1

MODELS AND OPTIONS/ACCESSORIES

Capacity/Loading	120-litre		160-litre	
	Front	Top	Front	Top
Standard	TCR/120/H1	TCR/120/V1	TCR/160/H1	TCR/160/V1
Enhancement Packages				
Pre/Post vacuum system	TCR/120/H5	TCR/120/V5	TCR/160/H5	TCR/160/V5
Pre/Post vacuum system boosted heater	TCR/120/H5B	TCR/120/V5B	TCR/160/H5B	TCR/160/V5B



Cat. No.	Description
TC/TDP/02	Thermal data printer
TC/IDA/01	Internal Data Archiving*
TC/AWF/01	Automatic water fill*
TC/ADD/01	Automatic drain for chamber water*
TC/CON/02	Air cooled condensate unit* (included on vacuum models)
TC/FIL/01	Cat. 3 effluent retention upgrade (including 0.2micron exhaust filter)*
TC/KWF/01	Media keep warm facility *
TC/HST/01	Electric hoist for all top loading models*
TC/VOL/01	Conversion to 60Hz electrical supply (non-vacuum models)*
TC/VOL/02	Conversion to 60hz electrical supply (vacuum models)*
TC/MOR/R2	Morrison discard box for TCR/120/H
TC/MOR/R3	Morrison discard box for TCR/160/H
TC/MOR/R5	Morrison discard box for TCR/120/V
TC/MOR/R6	Morrison discard box for TCR/160/V
TC/BAS/R2	Basket for TCR/120/H
TC/BAS/R3	Basket for TCR/160/H
TC/BAS/R5	Basket for TCR/120/V
TC/BAS/R6	Basket for TCR/160V

Items marked * are factory fit options

SITE SERVICES

Water - Potable water with a maximum hardness of 50ppm CaCO₃ is acceptable. Otherwise check with LTE for suitability. For automatic water fill versions, connection is via a 15mm diameter water inlet.

Drain - Not required on standard units although we always recommend connection to 100mm drain where possible. For models fitted with auto-drain and/or vacuum a 100mm drain is required. See site services sheet for full details.

Electrical - See table below. Models are 220/240V (1-Phase) or 380/440V (3-Phase), 50Hz. For other voltages/frequencies, see options or check with LTE.

	Front Loading Models		Top Loading Models	
	TCR/120/H	TCR/160/H	TCR/120/V	TCR/160/V
1-Phase	7.5kW / 35A	8.5kW / 35A	6.5kW / 35A	7.5kW / 35A
1-Phase Boosted	N/A	N/A	N/A	N/A
3-Phase Boosted	9kW / 20A / ph	10.5kW / 20A / ph	9kW / 20A / ph	9kW / 20A / ph

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