



Touchclave - ecotech™

Energy efficient 40 & 60 litre autoclaves



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LTE's revolutionary new high spec, eco-friendly autoclave.

Designed and built in the UK, the NEW LTE Touchclave-ecotech autoclave combines a high level of standard features with exceptionally low energy and water usage. Having listened to our customers, who want to reduce their carbon footprint and utility costs yet maintain instrument performance, the Touchclave-ecotech is simply the most technically advanced and 'greenest' multi-purpose autoclave of its type.

Our ecotech range currently comprises 2 x front loading models of 40 and 60-litres, both of which can be bench mounted, plus a 60-litre top-loading model with low loading height.

KEY FEATURES OF TOUCHCLAVE-ecotech INCLUDE:

- Uniquely, ecotech incorporates an external steam generation system which saves both water usage and energy. No more waiting for water reservoirs to heat up as the New ecotech delivers steam very quickly, resulting in shorter cycle times and lower energy usage. To further enhance energy and water efficiency, we incorporate a unique water recirculation system between the chamber and steam generator (patent pending).
- Our 316L grade stainless steel pressure vessel is completely seamless providing a smooth and clean interior. Fully compliant with the latest EU Pressure Equipment Directive 2014/68/EU. All ecotech pressure vessels come with a 10 year /10,000 cycle construction guarantee.
- The door locking system automatically draws the door closed, applying the right amount of pressure to seal every time. At the end of the cycle, the door is opened via the touchscreen.
- As standard, ecotech is supplied with an auto-fill and auto-drain system which can be connected to a water supply and drain for completely intervention-free filling and draining of the system. Where a water supply and/or drain are not available, integral fill and/or drain tanks or external containers can be supplied.
- LTE's intuitive new icon driven TFT colour touchscreen control system comes with 8 programmable cycles as standard. This is optionally expandable to 16 or 32

programmable cycles.

All cycles are customer configurable and can be programmed at the machine interface or on a PC using LTE's 'ecotech tools' software, and then downloaded into the autoclave memory via the built-in USB port.

- The TFT touchscreen not only displays temperatures and pressure but also cycle stage data and in-cycle messages, thus giving the user a complete overview of cycle progress and status.
- LTE 'Smart Cooling' incorporates the use of both water and fans to quickly cool the chamber and load whilst using minimal energy (patent pending).
- When ecotech isn't in use, it will automatically go into one of its sleep modes, effectively going to 'standby' and drawing minimal power. Simply touching the screen will wake the system up. Alternatively it can be programmed to wake up and start a cycle through the delayed start feature.
- Data archiving of cycles is supplied on all machines. Internal data archives can be uploaded to a USB Flash drive and transferred to a PC for permanent storage.

OTHER FEATURES INCLUDE:

- Keep warm facility (option)
- Load sensed process timer
- Air cooled condensate unit
- User and batch logging
- Real-time clock
- Battery backup for system memory
- Multiple users (up to 30)
- Multiple security levels
- Simple user setup procedure



TECHNICAL AND ORDERING INFORMATION:

Model	Chamber Capacity, litres	Loading	Chamber dims, mm Dia x Depth (usable)	Overall dims, mm HWD	Shelves/positions
AE40H	40	Front	350 x 440	542 x 620 x 710	1/1
AE60H	60	Front	350 x 640	542 x 620 x 938	1/1
AE60V	60	Top	350 x 640	940 x 620 x 520	1/1

Water - Potable and distilled water acceptable. Otherwise check with LTE for suitability. For automatic water fill versions, quick fit water fill connector provided. Note: Potable water must be below 50 ppm Ca CO²

Drain - Quick fit drain connector provided. (See site services sheet for full details.)

Electrical - 220/240V 1-Phase 50Hz. For other voltages/frequencies, please check with LTE.

OPTIONS AND ACCESSORIES:

Cat. No	Description
TDP	Thermal data printer*
VAC	Pre-post vacuum system*
AIR	Air ballast system*
VAB	Combined vacuum and air ballast system*
KWF	Media keep-warm facility*
AESUP4060	Support stand for AE40H and AE60H
AECUP40	Lockable storage cupboard/support stand for AE40H
AECUP60	Lockable storage cupboard/support stand for AE60H
AEFT	External fill and drain containers
IFT	Internal fill and drain tanks with level sensors*
VOL1	Conversion to 60Hz electrical supply (non-vacuum models)*
VOL2	Conversion to 60hz electrical supply (vacuum models)*
AEMOR40H	Morrison discard box for AE40H
AEMOR60H	Morrison discard box for AE60H
AEMOR60V	Morrison discard box for AE60V
AEBAS40H	Basket for AE40H
AEBAS60H	Basket for AE60H
AEBAS60V	Basket for AE60V

*factory fitted options only





Ask about LTE Scientific's other products & services

- Autoclaves up to 5000 litres
- Ovens
- Incubators
- Cooled Incubators
- Drying Cabinets
- Freeze Dryers
- Environmental Rooms
- Nationwide Service Support

If you require more information on the products in this brochure, or would like details on any other product in our range, please visit our website or contact our sales office on **+44 (0)1457 876221**.

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