Waters
THE SCIENCE OF WHAT'S POSSIBLE.®

Classic LAC/E^{32} Acquisition Server

INTRODUCTION

Waters® Classic LAC/E^{32}™ Acquisition Server (version 16) is a purpose-built application designed to perform instrument control, data acquisition, remote processing, and data buffering activities — while providing enhanced raw data security, robust remote access to instruments, and enhanced system performance.

CONFIGURATIONS

Microsoft® Windows® 7 Professional (64-bit) for Windows Embedded Enterprise

Part numbers:	176004138	(Classic LAC/E^{32} Hardware Only) Win 7
	176004139	(Classic LAC/E^{32} Dual System) Win 7
	176004140	(Classic LAC/E^{32} Quad System) Win 7
	176004141	(Classic LAC/E^{32} with Serial Dual System) Win 7
	176004142	(Classic LAC/E^{32} with Serial Quad System) Win 7

Microsoft Windows 10 IoT Long Term Service Branch (LTSB) (64-bit)

Part numbers:	176004143	(Classic LAC/E^{32} Hardware Only) Win10
	176004144	(Classic LAC/E^{32} Dual System) Win10
	176004145	(Classic LAC/E^{32} Quad System) Win10
	176004146	(Classic LAC/E^{32} with Serial Dual System) Win10
	176004147	(Classic LAC/E^{32} with Serial Quad System) Win10

SUPPORTED SYSTEMS

The LAC/E^{32} Acquisition Server delivers flexibility in deploying various Waters and third-party instruments, as Empower® Software supports over 45 UPLC,® HPLC, or GC modules.

Up to four active chromatographic systems can be online at one time on a LAC/E^{32} Acquisition Server, although this number may vary depending on the detector and its resolution settings.

WATERS SYSTEM CONTROL LICENSES

The Classic LAC/E^{32} Quad, and Classic LAC/E^{32} with Serial Quad Acquisition Servers come with up to four Waters' system control licenses. The Classic LAC/E^{32} Dual and Classic LAC/E^{32} with Serial Dual Acquisition Servers come with two Waters system control licenses.

The Waters Classic LAC/E^{32} has been designed with high reliability in mind – all moving parts have been removed. This ruggedized appliance will support data acquisition in the most extreme conditions.

- **Rugged and durable** – Runs at an operating temperature range of 0–50 degrees Celsius and certified to operate under Mil-Spec 810 G.
- **More powerful** – Multi-core Intel® Core™ i7 processors and graphics cards increase high-bandwidth performance.
- Supports Waters legacy hardware using the Waters BusLAC/E card.

Note: The Classic LAC/E^{32} Appliance supports a BusLAC/E card. For customers that do not require BusLAC/E support, the eLAC/E^{32} platform version is appropriate.

The Classic LAC/E^{32} comes standard with a dedicated interface for four Ethernet instrument controls and supports other interfaces specific to the instruments that use communications such as USB, RS-232 serial, and IEEE-488 (GPIB) via the BusLAC/E card.

The Classic LAC/E^{32} supports four simultaneous instrument data streams through the dedicated 4 port Server TCP/IP off load engine.

FEATURES

Storage redundancy support

The Classic LAC/E^{32} Acquisition Server comes equipped with two Solid-State Drives; one for the Operating System and one for chromatographic data.

Operating system details

- Pre-installable with your choice of a supported Windows 7 embedded enterprise operating system or Windows 10 IoT LTSB
- Maintains application compatibility found with traditional operating systems
- New product licensing terms and conditions
- Extended product availability from Microsoft
- Connectivity to the enterprise

Hardware specifications

- **Processor:** Intel® Core i7-6820EQ 3.50 GHz processor
- **Operating system(s):** Windows 10 IoT Enterprise 2015 LTSB and Windows 7 Professional Embedded (x64)
- **Memory:** 8 GB (2x4 G) 2133 MHz DDR4,
- **Hard drive:** 1 TB 7200 RPM SATA Hard Drive
- **Height:** 10.5" (270 mm) x Width: 9.8" (249 mm) x Depth: 4.2" (107 mm)
- **Target weight:** 12.8 lb (5.8kg)
- **Environmental:** IP30 Rating
- **Operating temperature:** 0 °C to 50 °C
- **USB ports:** 4 USB 2.0 and 4 USB 3.0
- **Form factor:** Fan less design, optimized minimal bench space mounting
- **I/O expansion slots:**
  - Network: 2 Dual Independent Gigabit Ethernet (RJ-45) and 4 ports for Instrument LAN
  - Serial interfaces: 4 x RS-232/422/485 (set by BIOS)
  - PCI slots: 2 (one utilized by Instrument LAN interface)
- **Software:** Custom Waters LACE Win 7 or Win 10 Image
- **Power:** Nominal input 24V DC (12-26V)
- **Graphics card:** 3 simultaneous displays: 1 DP 1.1, HDMI 1.4 or VGA
- **Max DP resolution:** 4096x2304
- **Max HDMI resolution:** 4096x2160 @24Hz
- **Max VGA resolution:** 2560x1080 @60Hz

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