Waters

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Breeze QS HPLC System

Waters™ Breeze™ QS HPLC System delivers routine analysis and robust performance by combining binary gradient solvent delivery or isocratic solvent delivery with automatic or manual sample injection and absorbance (UV or photodiode array), refractive index, fluorescence, or evaporative light scattering detection; all under Empower™ QS Software control.

COMPUTER HARDWARE CONFIGURATION

Xeon W-2125 4.0G 4C 120W

64 GB RAM 2600 MHz, DDR4 ECC

2 X 6 TB 7200 RAM Spinning SATA Drives

512 GB SSD M.2 Drive PCle

1 X 10 TB 7200 RPM Spinning SATA3 Drives

Integrated Single-Port Gigabit Ethernet, Intel i219LM, Supports Wake-on-LAN

Intel Single-Port Gigabit Ethernet Server Adapter i210-T1, Supports Wake-on-LAN

DVD CD-RW Rambo W10

10 USB Ports

The above computer hardware configuration is subject to change.

OPERATING SYSTEM

Microsoft® Windows® 10 Professional

INSTRUMENT CONTROL

Up to two systems

1500 Series HPLC Pumps (1515, 1525, 1525µ, 1525EF)

Waters 2998 Photodiode Array Detector (3D data acquisition and qualitative spectral analysis)

Waters 2489 Dual Wavelength Absorbance Detector

Waters 2414 Differential Refractive Index Detector

Waters 2475 Multi-λ Fluorescence Detector

Waters 2424 Evaporative Light Scattering Detector

Waters 2707 Autosampler

1500 Series Column Heaters

eSAT/IN™ (data acquisition for non-Waters detector)

ACQUISITION

Multiple detector channels

DATA HANDLING

Process (LC and GPC), report, save, and store data and results

DATA EXPORT FORMATS

PDF, EMF, AIA, and ASCII

EMPOWER QS SOFTWARE REQUIREMENTS

Windows 10 Enterprise or Professional, 64-bit

Oracle® version 12.1.0.2.0

CPU	Minimum: Intel 2 Duo, E6400 2.13 GHz Recommended: Intel Core 2 Duo, E8400 3.0 GHz
RAM	Minimum: 8 GB Recommended: 16 GB
Virtual memory	4 x installed RAM
Hard disk drive	Minimum: 25 GB Recommended: Actual space recommendations depends on your usage for both new installations and upgrades to Empower Software. Ensure there is plenty of space for your raw data files.
Free hard disk space	2 GB for Empower 3, Feature Release 5 13 GB for Oracle/Empower database (new installations) 23 GB for Oracle/Empower database (upgrades) Minimum: 5 GB for free disk space to accommodate projects
DVD drive	Access to DVD drive required
Monitor	1024 x 768 resolution Recommended: 1920 x 1080 resolution
Graphics capability	sVGA video at 1024 x 768 x 256 color resolution
Optional control interfaces	• Waters Bus Laboratory Acquisition and Control/Environment (busLAC/E) card required • (BusLAC/E driver 7.0.1.1 required; will be installed automatically if busLAC/E detected during Empower installation) 8-port serial hub • Edgeport® USB-to-serial converter cable
Application software	Empower Software, Feature Release 5
Ethernet adapters	1 Ethernet adapter for network connectivity and 1 Ethernet adapter to operate Ethernet instruments Minimum speed for either adapter must exceed 100 Mbps Recommended speed is 1 Gbps

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