

#### eksigent nanoLC-2D™ proteomics system

Identify more proteins from complex mixtures with automated two-dimensional chromatography. The NanoLC Proteomics System uses Eksigent's direct-pumping microfluidic flow control (MFC) systems to deliver the precise nanoscale gradients required for whole-proteome profiling, low-abundance protein identification, and post-translational modification discrimination. Precise flow rate control enables automated peak parking for extended MS/MS analysis of analytes of interest.

- Eliminate retention-time variability caused by flow-splitting
- Reduce solvent waste by 99%
- Identify more proteins from complex mixtures using 2D LC
- Take advantage of nanospray sensitivity
- Use peak parking to identify more low abundance peptides

#### nanoflow proteomics advantages

When you make the move to nanoflow proteomics you expect certain advantages. High sensitivity. Precise and immediate flow rate control. Fast and easy column format changes. Very low solvent waste. High-speed sample loading. And highly reproducible separations.

Get all the advantages you're looking for. The Eksigent NanoLC-2D is a nanoscale system from end-to-end that delivers performance and value that system designs adapted from conventional-scale components simply cannot match.

#### retention time reproducibility

The Eksigent NanoLC-2D Proteomics System uses Eksigent Technologies' microfluidic flow control (MFC) system to achieve nanoscale flow rate control down to 20 nL/minute. The splitless system maintains programmed flow rates of each mobile phase regardless of downstream flow resistance changes. As a result, analyte retention times are highly consistent, even with changing column resistance.

#### flexible configurations

The NanoLC-2D Proteomics System is composed of two complete binary-gradient nanoflow chromatography systems which can be configured for automated two-dimensional separations or as parallel, independent binary gradient HPLC systems. The optional autosampler for rapid injection of large sample volumes supports full loop, partial loop, and zero sample loss modes, and integrates with Thermo Electron's Xcalibur® software, Bruker Daltonics' HyStar® system and ABI/Sciex Analyst® software.





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## nanoLC-2D system specifications

**system components: nanoLC-2D system**

- Two binary gradient pumps
- One 10-port column biocompatible switching valve, accommodating two trap columns
- Pentium IV Computer
- Optional temperature-controlled autosampler (96 or 384 well plate capacity) with a six-port biocompatible sample injection valve.

**power requirements**

NanoLC-2D system: 100-240 VAC, 47/63 Hz, 3A  
NanoLC-2D autosampler: 230-115 VAC, 50/60 Hz, 2A

**dimensions**

NanoLC-2D system: 18" (46 cm) wide, 22" (56 cm) deep, 8" (20 cm) high  
NanoLC-2D autosampler: additional 18" (45 cm) in height  
Computer: additional lab space needed for keyboard, mouse and monitor

**service and warranty**

The purchase price includes installation and training by service representatives plus a one-year warranty on parts and labor.

**ordering information**

Please contact our corporate office at 925 560 2600