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Bruker nanoElute® nanoflow UHPLC





Supports long analytical columns (e.g., 50 cm × 75 µm) for high peak capacity in proteomics gradients

Rating: Not Rated Yet
Price

Ask a question about this product

Description
Designed as a dedicated front-end LC instrument that is typically coupled online to a mass spectrometer (most commonly Bruker impact II, timsTOF series, or similar high-resolution QTOF systems with a CaptiveSpray nano-ESI source). The unit is the main chassis (with fluidics,

high-pressure valves, pumps, and column/injection interface). Used for high-performance nanoflow LC separation of complex peptide and protein mixtures for proteomics (and related omics) applications. It delivers sharp, reproducible peaks at nanoflow rates to maximize sensitivity, chromatographic resolution, and depth of proteome coverage when the eluent is introduced into a mass spectrometer.

Does not include mass spectrometer.

Key Specifications / Features

Pressure range up to 1000 bar — Supports long analytical columns (e.g., 50 cm × 75 µm) for high peak capacity in proteomics gradients.

Split-free nanoflow delivery — Large-volume single-stroke piston pumps with inline flow sensing; typical gradient flow range ~50–2000 nL/min.
Unique multi-position valve design — Software-controlled flow paths enable seamless trap-and-elute, direct-load, or direct-infusion modes, plus sample backflushing for sharper peaks.
Built-in quality control and diagnostics — Automatic initialization, leak/blockage detection highlighted in the GUI, and scheduled preventive maintenance.
Optimized proteomics performance — High retention-time stability and peak-area reproducibility across gradients (with or without trap column); supports bottom-up, top-down/proteoform, glyco-, and phospho-proteomics workflows when paired with a Bruker MS.

Comes with our 90-day warranty.

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