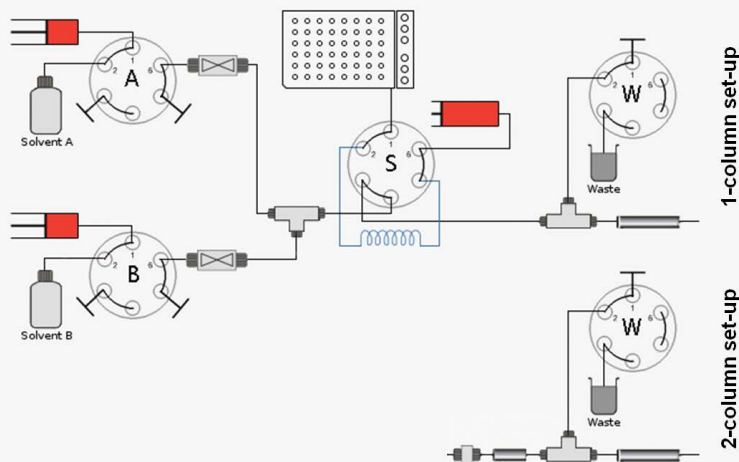


EASY-nLC 1200 System

Best-in-class nano LC, preconfigured for straightforward state-of-the-art separations

The Thermo Scientific™ EASY-nLC™ 1200 system provides effortless peak performance for nanoflow applications up to 1200 bar. Dual in-line flow sensors before solvent mixing give excellent gradient precision. Its intuitive software facilitates rapid method setup and immediate system control.

Predefined connections allow effortless switching between 1- and 2-column set-up



Increased System Robustness and Servicability

- New maintenance-free ceramic valves result in extraordinary dependability and lower cost of ownership
- Thermo Scientific™ nanoViper™ connections for tool-free, reliable and fast connections
- Easy access to all serviceable parts

Intelligent Maintenance

- Automated, built-in maintenance routines
- User-friendly leak tests pinpoint position of leaks
- Advanced pressure test quickly diagnoses blocked capillaries
- Detailed event log for troubleshooting
- Remote access capability for system interrogation and technical support

Improved Performance and Throughput at up to 1200 bar

- Faster sample loading and column equilibration increase sample throughput without sacrificing performance
- Use of longer analytical columns for higher peak capacity

Advanced Flow Control

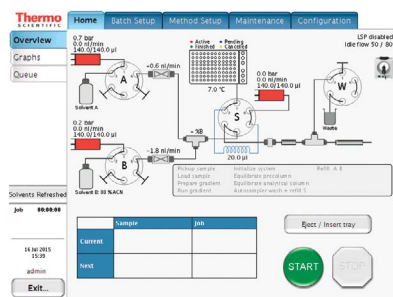
- Intelligent Flow Control (IFC™) during loading and equilibration steps provides robust performance while increasing throughput
- Automatic Flow Control (AFC™) during gradient delivery provides outstanding reproducibility throughout injection sequence



Product Specification

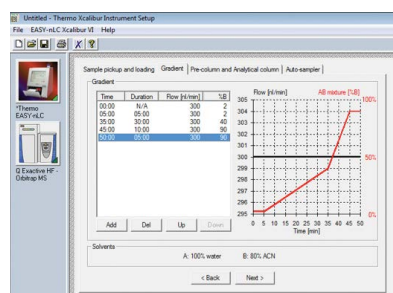
Integrated EASY-nLC Software and Touch Screen

Direct system control of the EASY-nLC system via touch screen interface allows for fast system set up, method configuration, and maintenance.



Xcalibur Data System

Thermo Scientific™ Xcalibur™ software is the state-of-the-art solution for controlling Thermo Scientific mass spectrometers. The EASY-nLC software is fully integrated with Xcalibur software, allowing full LC-MS control through a single software solution.



MS Interfaces

The EASY-nLC 1200 system was designed to work together with Thermo Scientific™ EASY-Spray™ Ion Sources and Nanospray Flex™ Ion Sources, making it compatible with EASY-Spray columns and all other nano LC columns.

Easy MS Connection

EASY-nLC instruments integrate seamlessly with Thermo Scientific mass spectrometers, including:

- Thermo Scientific™ Q Exactive™ series instruments
- Thermo Scientific™ LTQ Orbitrap™ series instruments
- Thermo Scientific™ Orbitrap Fusion™ Tribrid™ instruments
- Thermo Scientific™ TSQ™ Triple Quad instruments

For more information, visit: thermofisher.com/nanoLCMS

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PRODUCT SPECIFICATIONS

Specification	Value
Pressure Range	0–1200 bar
Flow Range (Gradient)	20–2000 nL/min Recommended: 100–1000 nL/min
Flow Range (Loading & Equilibration)	≤25 µL/min
Retention Time Reproducibility	0.1–0.4% RSD within recommended flow range
Pick-up Volume Range	0.10–18.00 µL (20 µL loop)
Injection Reproducibility	≤0.2% RSD at 5 µL pick-up ≤3.0% RSD at 0.1 µL pick-up
Injection Linearity	R ≥ 0.9985 for 0.5–10 µL injection volume R ≥ 0.9995 for 0.3–1.6 µL injection volume
Carry-over	<0.05% (caffeine) <0.1% for m/z 722.3 and <1.00% in general (100 fmol BSA digest, YIC*DNQDTISSK)
Gradient Delay Volume (Mixing tee to venting tee)	<1 µL
Injection Loops	20 µL default (5 µL and 50 µL optional)
Gradient and Injection Pumps	Single action syringe pumps (sapphire piston), 140 µL volume Gradient pumps: 100 µL/min refill speed Injection pump: 40 µL/min refill speed
Valves	4 identical 6-port, 3-position proprietary valves from Thermo Fisher Scientific
Solvent Compatibility	≤95% acetonitrile in water. Wetted parts: Fused silica, PEEK™, 316 stainless steel, zirconium dioxide
Sample Tray Formats	6 × 8 HPLC vials 1 × 96 or 1 × 384 MTP and 6 vials 2 × 48 or 4 × 96 PCR strips and 6 vials
Autosampler Cooling Range	Minimum of 5 °C Maximum of 20 °C below ambient
MS Drivers	LC Devices 3.0 for XCalibur 3.0 and later
Remote Support	Direct internet access for online diagnosis by EASY-nLC technical experts
Operating Conditions	5–30 °C ambient temperature 20–80% relative humidity
Dimensions (H x W x D)	45 cm × 36 cm × 38 cm (18" × 14" × 15")
Weight	37 kg (82 lb)
Main Power Supply	100–240 V, 50–60 Hz, 250 W

Ordering Information

Description	Part Number
EASY-nLC 1200	LC140
Nanospray Flex Ion Source (NG)	ES071 (ES072)
EASY-Spray Ion Source (NG)	ES081 (ES082)

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