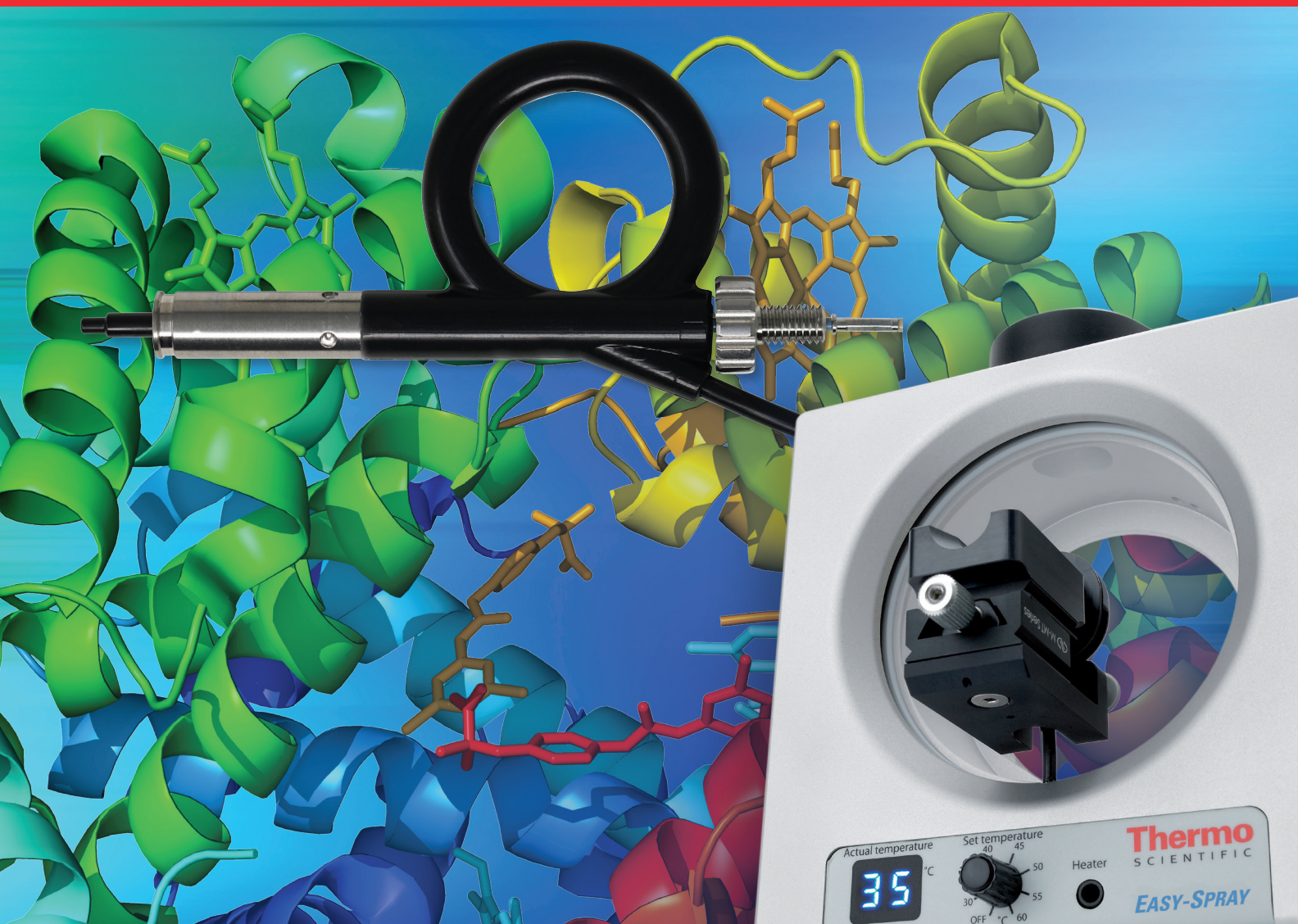


thermo scientific



EASY-Spray technology

Plug-and-spray with state-of-the-art performance

ThermoFisher
SCIENTIFIC

Effortless nano electrospray ionization

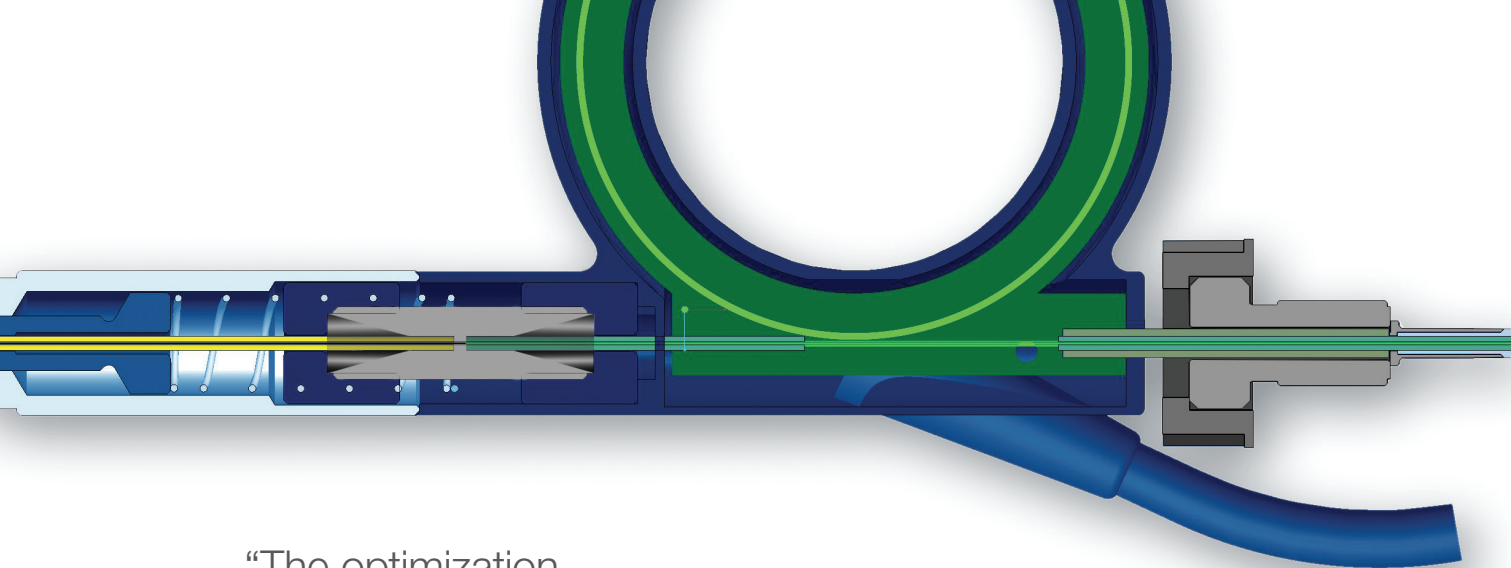


EASY-Spray source

Integrated design

Nano-flow LC-MS relies critically on perfect connections between several pieces of nano-bore tubing and high-voltage electrodes for the spray ionization. Thermo Scientific™ EASY-Spray™ technology provides an integrated and temperature-controlled column-emitter design using a single Thermo Scientific™ Dionex™ nanoViper™ connection between the LC and the EASY-Spray source to remove the most error-prone and difficult connections.

Plug-and-spray
nano-electrospray
ionization combined with
industry-proven columns:
the Thermo Scientific
EASY-Spray.



“The optimization and reproducibility achievable by years of nanospray experience are built into the device. Heated UHPLC 50 cm column chromatography was not easy until now!”

— Paul Taylor, PhD
Hospital for Sick Children,
Toronto, Canada.

More than ever before

Thermo Scientific proteomics solutions are designed to give you more than ever before: more throughput, more sensitivity, more separation power and more ease of use.

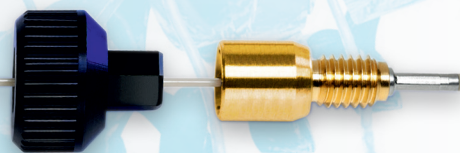
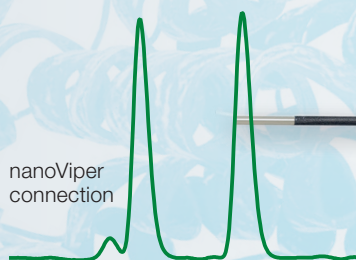
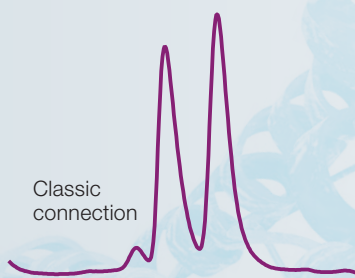
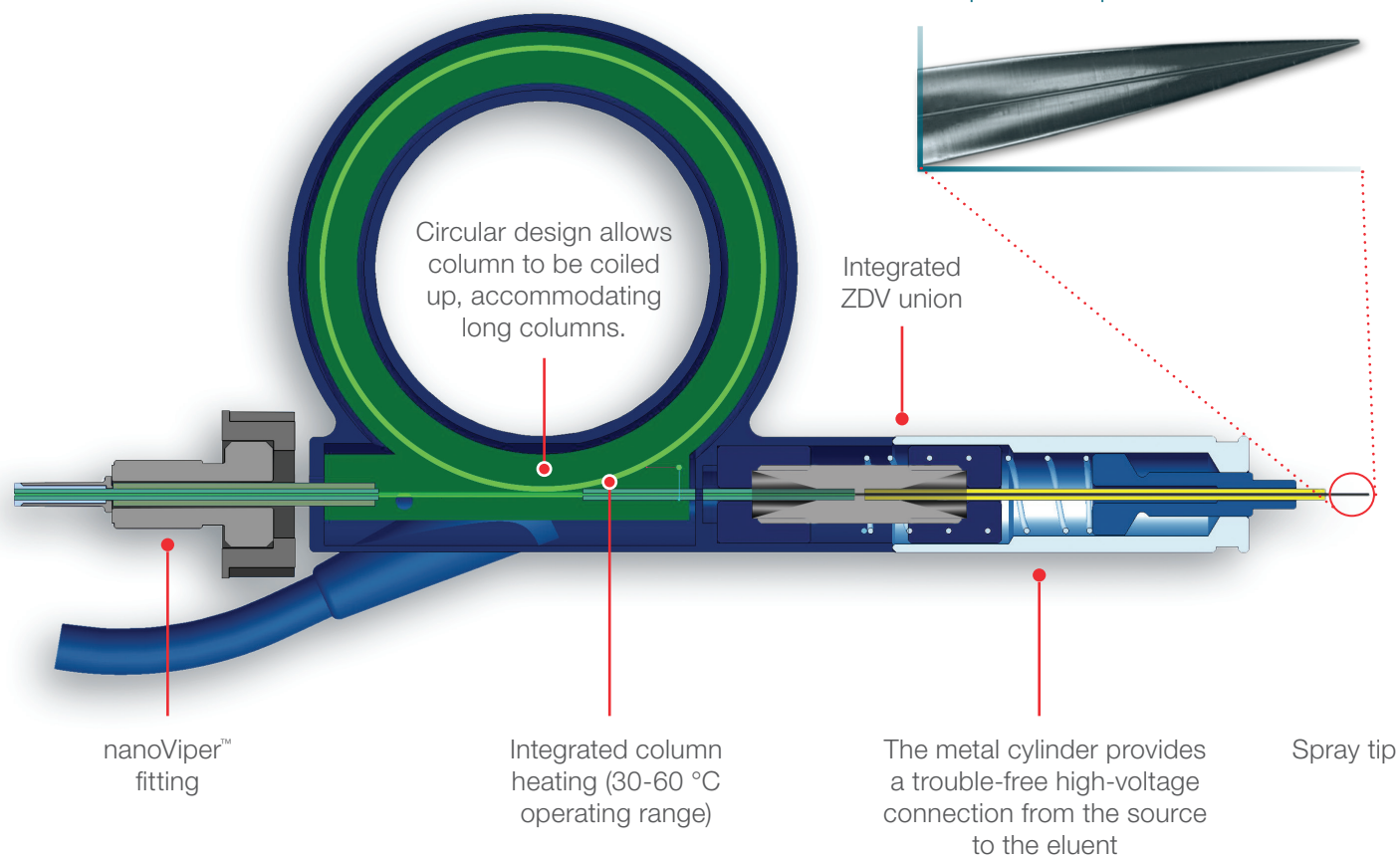
Thermo Scientific™ EASY-nLC 1200 system coupled with Thermo Scientific™ Orbitrap Fusion™ Lumos™ Tribrid™ mass spectrometer

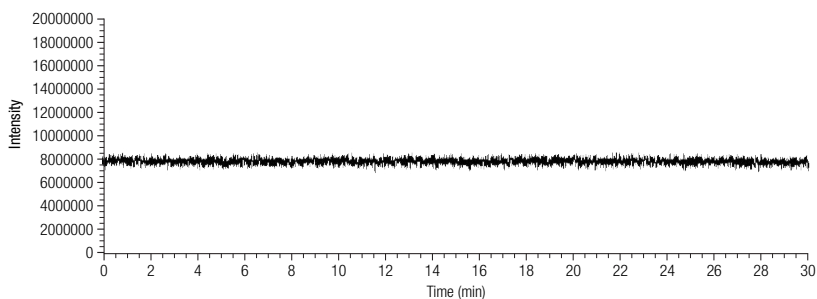


Plug-and-spray nano-electrospray ionization

The EASY-Spray columns are high-tech assemblies that are carefully manufactured to the highest standards in nano-flow chromatography.

Precision positioned glass emitter with uniform ID and untapered flow path





Excellent spray stability

Sample: Singly charged polytyrosine peptide
MS: Thermo Scientific LTQ Velos
Source setup: EASY-Spray source direct infusion emitter

Camera provides light and a convenient, magnified view of the emitter tip

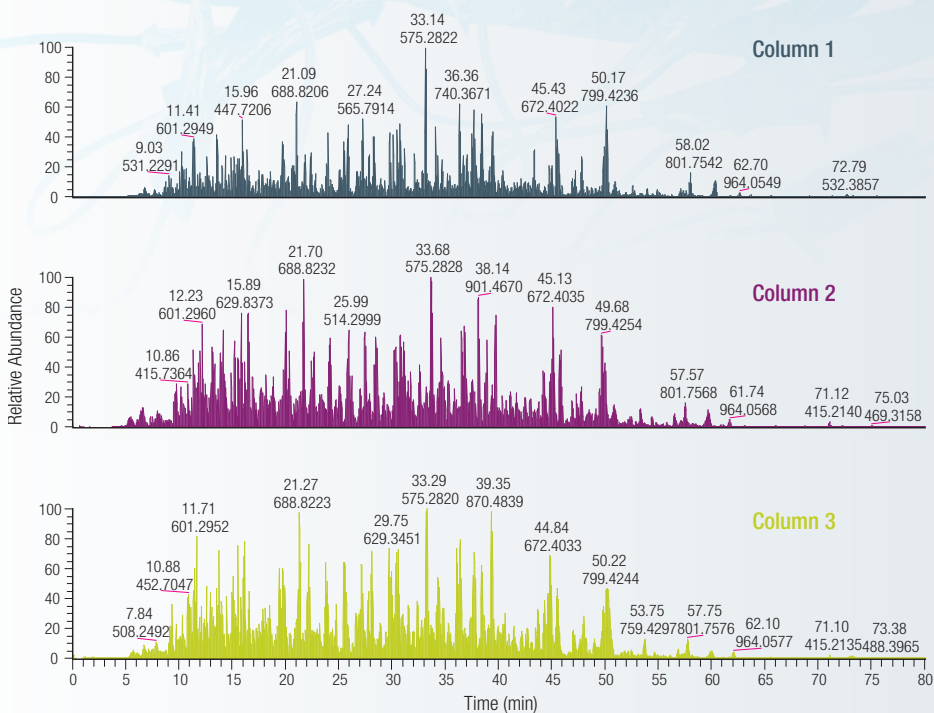
Simply press until it clicks into place

Forward/backward adjustment knob

Power and sensor cable for EASY-Spray columns

Temperature control display

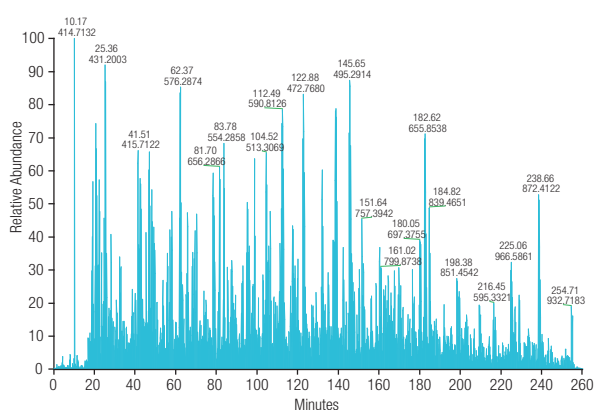




Excellent inter-column reproducibility

Column-to-column reproducibility is extremely important in proteomics, particularly when running big experiments or multi-site collaborations. The exacting assembly precision of EASY-Spray columns ensures class leading performance on these parameters.

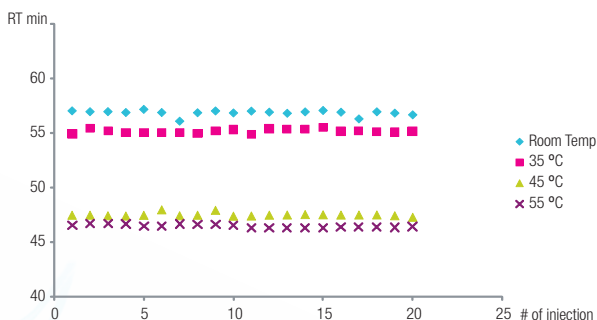
4,087 unique proteins were identified from a single HPLC separation of a 1000 ng human cell digest with a 50 cm EASY-Spray column.



Amazing peak capacity

The entire assembly is designed for heavy use so you can utilize the full pressure range of your UHPLC front-end (up to 1000 bar) and benefit from small particles and long columns. Longer columns and longer gradients both contribute to more identifications.

RT reproducibility of peptide EAVNQVIALLDGALR from 500 ng E.coli complex sample for 20 repeat runs in different temperature ranges.



Temperature control

Column temperature control immediately before the MS inlet increases run to run reproducibility and allows the use of even longer columns and/or smaller particle sizes since elevated temperatures lower eluent viscosity and reduce the overall backpressure.

thermoscientific

Full compatibility

EASY-Spray source is fully compatible with the following Thermo Scientific mass spectrometers and columns:



EASY-nLC 1200 system
Operational simplicity and excellent performance



Thermo Scientific™ Dionex™ UltiMate™ 3000 RSLCnano system
Versatility and unsurpassed precision

Thermo Scientific™ EASY-Spray™ source



Thermo Scientific™ EASY-Spray™ column



Thermo Scientific™ Q Exactive™ HF hybrid quadrupole-Orbitrap mass spectrometer



Thermo Scientific™ Orbitrap Fusion™ Lumos™ Tribid™ mass spectrometer



Thermo Scientific™ TSQ Quantiva™ triple quadrupole mass spectrometer

Find out more at thermofisher.com/EasySpray

ThermoFisher
SCIENTIFIC

©2020 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries. This information is presented as an example of the capabilities of Thermo Fisher Scientific products. It is not intended to encourage use of these products in any manners that might infringe the intellectual property rights of others. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representatives for details. **BR70044-EN 0820**