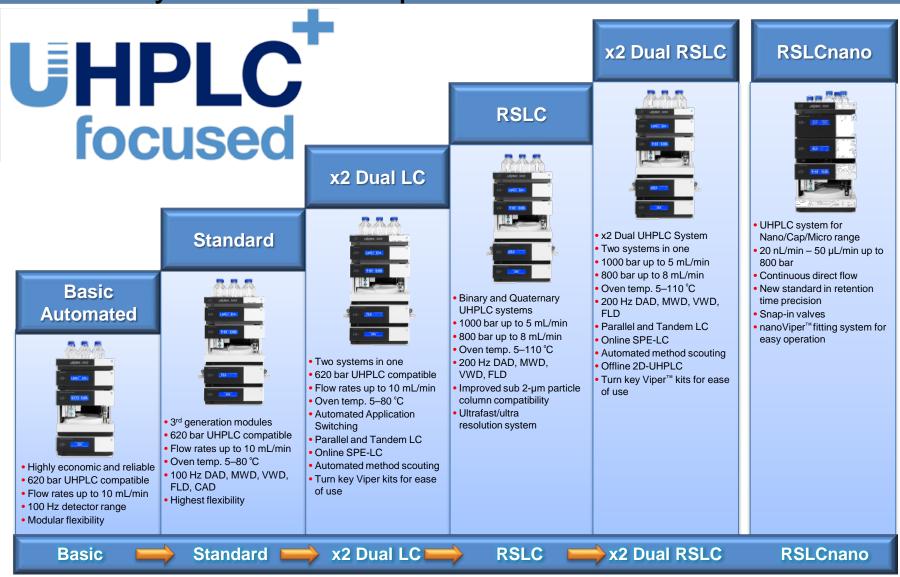


New Technology UHPLC and nLC

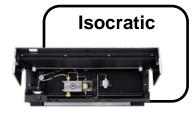
The world leader in serving science

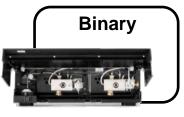
# All Thermo Scientific Dionex UltiMate<sup>™</sup> 3000 Systems Now Fully UHPLC Compatible



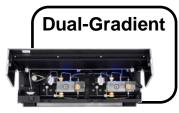
# Thermo Scientific Dionex Products' Industry Leading UHPLC Portfolio

#### **Pumps**











#### **Autosampler**











Column

Compartments

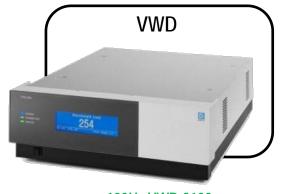




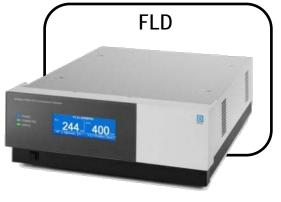




# Thermo Scientific Dionex Products' UHPLC — Compatible Detectors



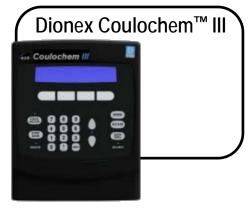
100Hz VWD-3100 200Hz VWD-3400RS



100Hz FLD-3100 200Hz FLD-3400RS



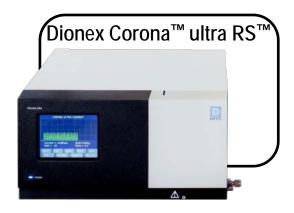
100Hz MWD-3000SD 200Hz MWD-3000RS



100Hz Thermo Scientific Dionex Coulochem III electrochemical detector



100Hz DAD-3000SD 200Hz DAD-3000RS



100Hz Thermo Scientific Dionex Corona ultra RS charged aerosol detector

The most complete UHPLC detector range



#### Thermo Scientific Accela Instruments

Accela increases laboratory productivity, through its versatility with conventional and high speed chromatographic capabilities in an efficient, easy to use system that handles pressures up to 1250 bar



#### Accela 1250 and Accela 600

- Maximum operating pressure of **1250 bar** across the entire flow rate range up to **2 mL/min** (Accela 1250)
- Maximum operating pressure of **600 bar** across the entire flow rate range up to **5mL/min** (Accela 600)
- Extremely low pump delay volume
- Quaternary capability
- Equipped with Force Feedback Control (FFC) technology to provide extremely stable baselines without the use of pulse dampeners and greatest flow rate and gradient accuracy without the need of sensors that are in contact with the mobile phase



#### Thermo Scientific EASY — nLC Product Line

#### EASY — nLC II

300 bar



**EASY** — nLC 1000

- 1000 bar
- ASMS launch!

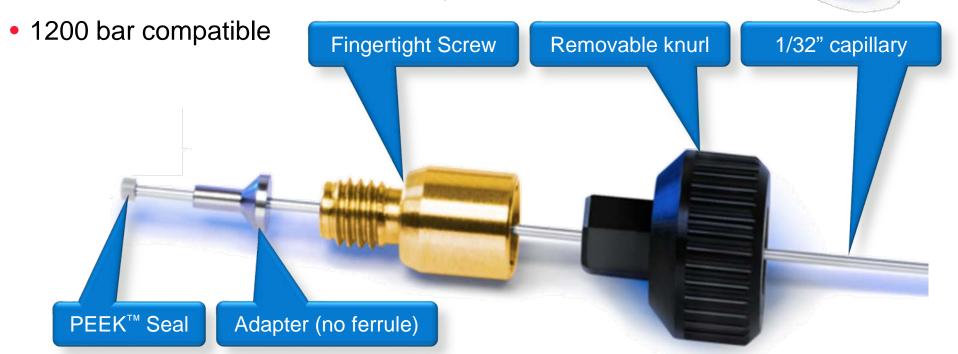


- Common Benefits
  - Unrivalled ease of use
  - Effortless operation
  - Proven performance with state-of-the-art MS systems
  - Excellent productivity

     high resolution and reproducibility
  - Excellent resolution and reproducibility in complex samples
  - 1D and 2D nano LC in one system
  - Intelligent maintenance
  - Remote support
  - Easy maintenance, access and service

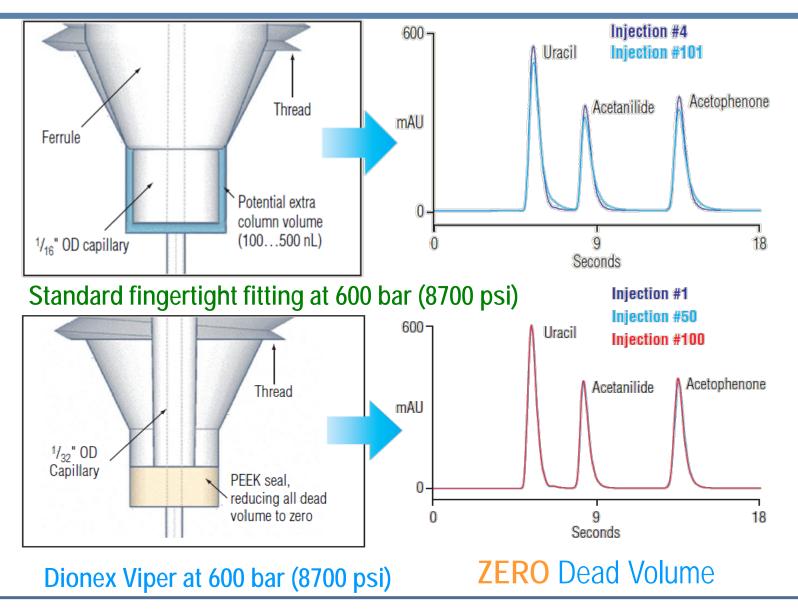
# Thermo Scientific Dionex Viper™ Fingertight Fitting System

- Fingertight, correct fit every time!
- Universal (fits to Rheodyne, Valco, Swagelok...)
- No dead volume as soon as tightly connected
- Ease of use, no sleeve for small capillaries



Ease of Use and Ergonomic Design

### Thermo Scientific Dionex Viper<sup>™</sup> Fitting Performance



### Ease of Use - Thermo Scientific Dionex nanoViper

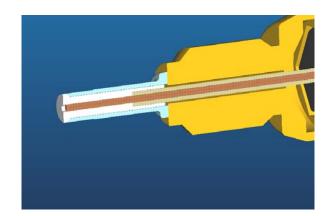
 Dionex nanoViper<sup>™</sup> Fingertight Fitting is nano LC made easy !



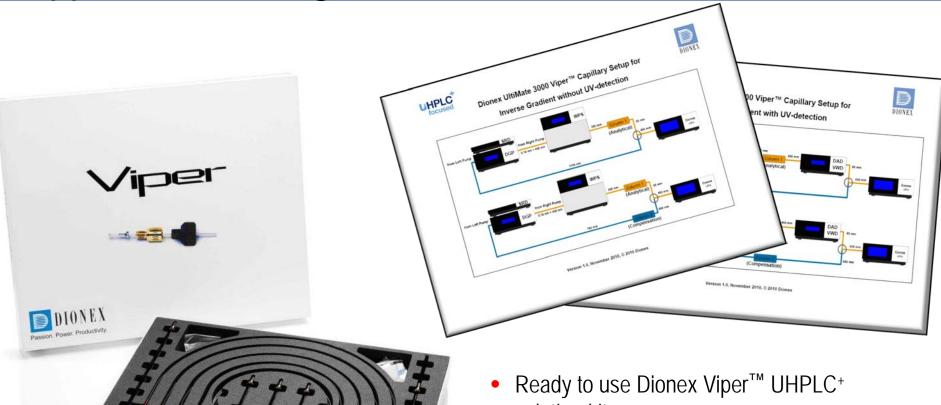
- Fingertight connection
- Up to 1000 bar
- Dead volume free by design
- Values
  - Tool-free assembly, easy fluidics
  - No column damage by over-tightening
  - UHPLC compatible
  - No experimental failure due to bad connections







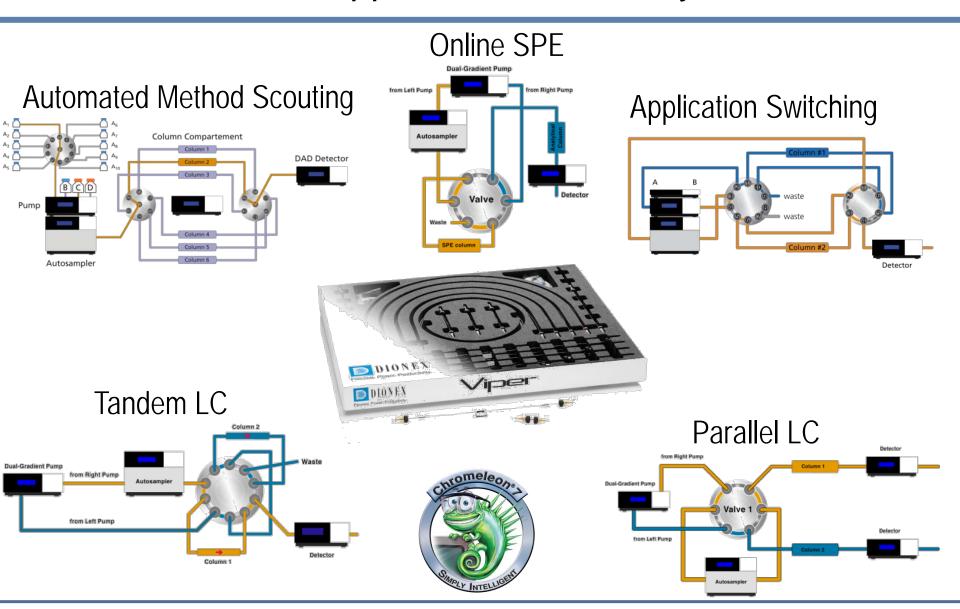
## Thermo Scientific Dionex Viper **Application Tubing Kits**



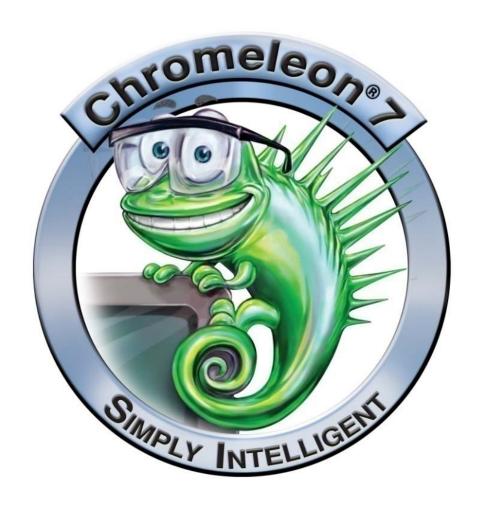
- solution kit:
  - All Dionex Viper Capillary parts
  - Laminated card with flow schemes
  - Quick installation guide
  - Operation instructions
  - Template files for CM 6 and CM 7



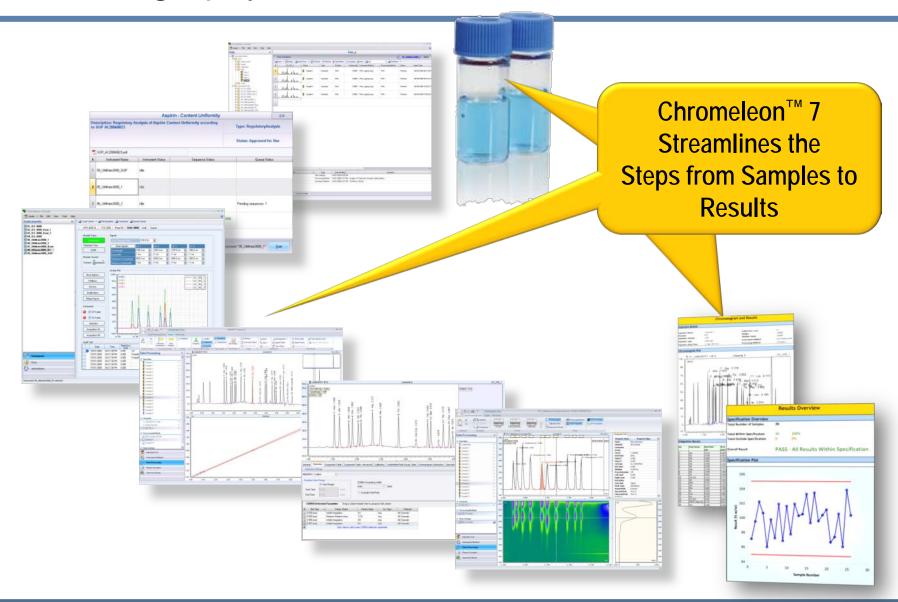
# UHPLC<sup>+</sup> x2 Dual Applications Summary



# Thermo Scientific Dionex Chromeleon<sup>™</sup> 7 Chromatography Data System – Simply Intelligent<sup>™</sup>



### **Chromatography Process**

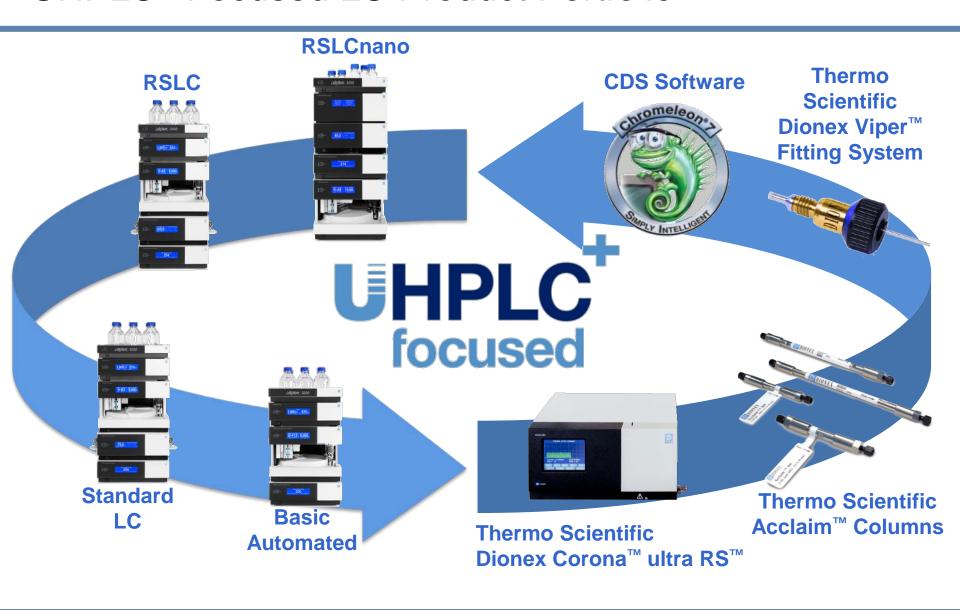


#### Our Committment

We are focused on making UHPLC
Accessible to All Users,
All Laboratories, and for All Analytes



#### UHPLC<sup>+</sup> Focused LC Product Portfolio





Thank You for Your Attention!

The world leader in serving science