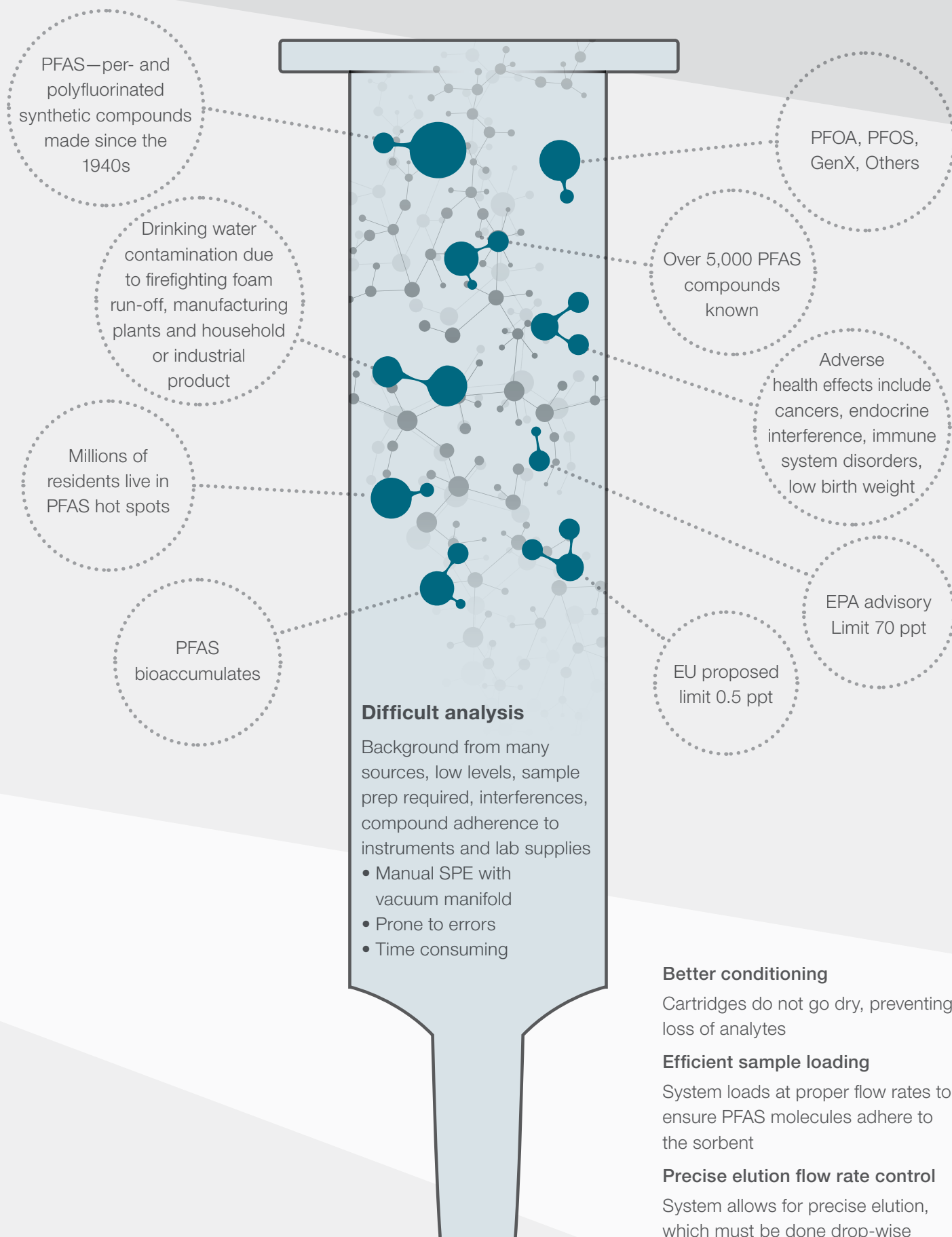# Better
PFAS sample prep.
Safer drinking water.

### Improve your SPE process for preparing PFAS samples

PFAS contamination affects drinking water causing the need for testing to rise. Preparing PFAS samples manually is time-consuming, and without the correct instrumentation and processes, background contamination and potential errors can negatively affect sample analysis. The Thermo Scientific™ Dionex™ AutoTrace™ 280 Solid-Phase Extraction PFAS instrument provides lower background, better recoveries, reproducibility and productivity—helping your lab surmount the challenges of PFAS analysis.

PFAS—per- and polyfluorinated synthetic compounds made since the 1940s

Drinking water contamination due to firefighting foam run-off, manufacturing plants and household or industrial product

Millions of residents live in PFAS hot spots

PFAS bioaccumulates

PFOA, PFOS, GenX, Others

Over 5,000 PFAS compounds known

Adverse health effects include cancers, endocrine interference, immune system disorders, low birth weight

EPA advisory Limit 70 ppt

EU proposed limit 0.5 ppt

Difficult analysis

Background from many sources, low levels, sample prep required, interferences, compound adherence to instruments and lab supplies
• Manual SPE with vacuum manifold
• Prone to errors
• Time consuming

Better conditioning

Cartridges do not go dry, preventing loss of analytes

Efficient sample loading

System loads at proper flow rates to ensure PFAS molecules adhere to the sorbent

Precise elution flow rate control

System allows for precise elution, which must be done drop-wise

Be more efficient while improving recovery and reproducibility

• Saves time and labor by automating the SPE process

• Automation eliminates errors which occur in manual preparation

• Greatly reduces background contamination using non-fluoropolymer materials

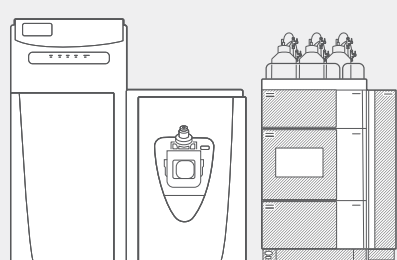• Accomplish SPE without the need to learn new software

Sample evaporation and reconstitution

Sample evaporation and reconstitution
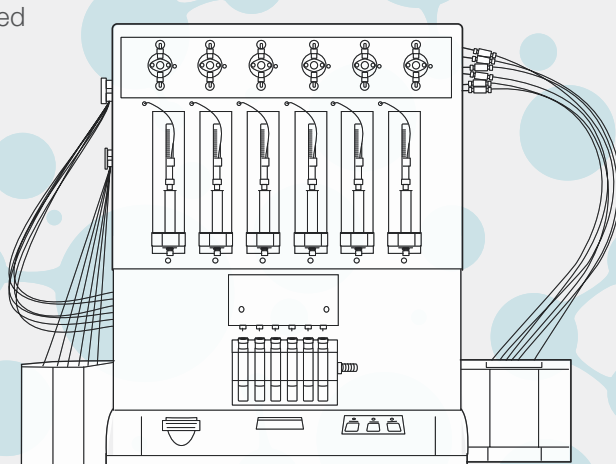
Dionex AutoTrace 280 PFAS SPE instrument

Unknown screening and discovery

Targeted analysis
EPA 537.1 and EPA 533

Thermo Scientific™ Q Exactive™ Hybrid Quadrupole-Orbitrap mass spectrometer and Thermo Scientific Vanquish UHPLC system
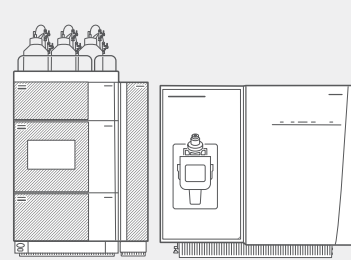
Thermo Scientific™ Vanquish™ UHPLC System and Thermo Scientific™ TSQ Fortis™ Triple Quadrupole mass spectrometer

Time and freedom to tackle other challenges

Dionex AutoTrace 280 PFAS instrument

Become a master multitasker.

Automation | Time savings | Easy to Use | Increased efficiency | Reduction of errors

Find out more at thermofisher.com/autotrace

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