

Thermo Scientific Vanquish – the new standard for UHPLC!

Thermo Scientific has just launched a new UHPLC system called the **Vanquish** – a name one might recall being used by Aston Martin.

The Thermo Scientific **Vanquish** is a completely redesigned UHPLC system; with a new pump, a new autosampler, a new column thermostat and a new diode array detector all to secure the highest resolution and extremely short cycle times – at the same time.

We have been developing the **Vanquish** over the last three years and the project has from the very beginning been focussed on the usability. The result is a unique UHPLC system holding a lot of new inventions build from the bottom and up!

A new line of columns, **Acucore™ Vanquish** with a particle size of 1,5 µm (80 Å) is launched with the **Vanquish** UHPLC system..

The binary pump can mix the eluent from a total of six (2x3) solvent lines. This is new, and it can deliver flows up to 5 mL a minute at up to 1,500 bars in the entire flow range – no other UHPLC system can do that!

The autosampler holds up to four well plates and vial racks. If that is not enough we supply also a feeder to increase the capacity up to 23 well plates and vial racks – or up to 8,832 samples! The injection principle is what is known as split-loop and due to the high pressure we had to design our own injection valve.

The column thermostat is a compact design with room for two columns. The column thermostat can still upgrade with up to two build-in valves and the system can be expanded with two additional column thermostats to a total of three – facilitating more advanced workflows and up to three temperature zones .

The newly developed diode array detector has a linear range up to 3,000 mAU. We use light pipe technology in our flow cell design and the noise is as low as 3 µAU.

The Thermo Scientific **Vanquish** UHPLC is completely *biocompatible* – with no stainless steel in the flow path. No other *biocompatible* UHPLC system can run at 1,500 bar!

Basic maintenance is done without any tools and everything is connected by our **Viper™** capillaries and fingertight fittings.

The Thermo Scientific **Vanquish** is controlled by our **Chromeleon™ CDS** with its unique ease of use functionality. The Thermo Scientific **Vanquish and Chromeleon™ CDS** boosts the lab's productivity and improves the analytical quality – all in one go!

Want to learn more: [Click](#)

