

Thermo Scientific Vanquish – Split Sampler HT/FT

Better separations, more results, easier interaction

Thermo Scientific™ Vanquish™ UHPLC system is designed to offer:

- **Better separations** with the power of the system to unveil more compounds than ever before
- **More results** with throughput, speed and sample capacity to boost workflow productivity
- **Easier interaction** to make the system a joy to work with

The Vanquish UHPLC system is designed to be an integrated UHPLC system, where the sampler handles the analytes with more accuracy.

Vanquish Split Sampler



Sample Injection for Highest Confidence in Peak Identification and Quantification

The Vanquish UHPLC system combines maximum injection precision with huge sample capacity and high-throughput capabilities. The fully biocompatible fluidics are consequently optimized for the highest ruggedness and uptime, even under the toughest system pressure and eluent conditions.

- Rely on your results thanks to unsurpassed sample dosage precision and intelligent sample pre-compression
- Take advantage of maximum sample integrity by innovative air stream cooling, even in challenging environments
- Enjoy incredibly easy method transfer and unlimited application flexibility by using customizable gradient delay volume
- Forget about tedious sample configuration thanks to an automated barcode reader

PRODUCT SPECIFICATIONS

Specification	Value
Operating Principle	Split loop injection
Pressure Range	VH-A10-A: 5–151 MPa (50–1517 bar, 700–22,000 psi) VF-A10-A: 2–103 MPa (20–1034 bar, 290–15,000 psi)
Injection Volume Range	0.01–25 µL, min. step = 0.01 µL; Optional: 0.01–100 µL
Injection Volume Accuracy	Typically ±0.5% for 10 µL water
Injection Volume Precision	<0.25% area RSD for 1 µL (caffeine in water) Typically <0.5% area RSD for 0.5 µL (caffeine in water)
Injection Linearity	r > 0.99999 (caffeine in water)
Injection Cycle Time	Down to 8 s depending on separation conditions
Minimum Sample Required	2 µL at 1 µL injection volume
Carry Over (UV)	<0.004% with Chlorhexidine; <0.0004% with caffeine (typically)
Needle Wash (external)	1 solvent, dip rinse and continuous rinse
Sample Compartment Temperature Range	4–40 °C (≥23 K below ambient at <80% RH)
Sample Temperature Accuracy	-2 °C/+4 °C
Sample Temperature Stability	±1 °C
Dwell Volume	110 µL with sample loop of 25 µL (default configuration); 83 µL with sample loop of 10 µL
Sample Capacity	Any four of the following (SBS footprint) <ul style="list-style-type: none"> • 54 × 12 mm OD vials (≤1.5 mL) • 24 × 15 mm OD vials (≤4 mL) • 96 × 6, 7 and 8 mm OD vials (≤1.2 mL) • Well plates (96 and 384, deep and shallow) + capacity of 12 22.5 mm OD vials (≤10 mL) in the carousel
Automation Features	Barcode reading; • Empty segment detection • Rack/well plate verification • Inventory management
GLP	Predictive Performance functions for scheduling maintenance procedures based on the actual operating and usage conditions of the autosampler. All system parameters logged in the Thermo Scientific™ Dionex™ Chromeleon™ Chromatography Data System Audit Trail.
PC Connection	USB 2.0; 3-port-HUB to connect further Vanquish modules
I/O Interfaces	2 × 6 pin Mini-DIN connectors each having functionality: 1 input, 1 relay out
Safety Features	Leak detection and safe leak handling
Wetted Parts	Sample flow path: Titanium, ceramics, PEEK, MP35N, DLC Eluent flow path: MP35N, Titanium, Sapphire, PEEK, PTFE, Ceramics, DLC Wash liquid flow path: Silicone, PP, FPPM, PEEK, PA
Biocompatible	Yes, pH range 2–12, chloride concentration up to 1 mol/L
Power Requirements	100–240 V AC, 50/60 Hz, max. 520 W/550 VA
Environmental Conditions	5–35 °C; 20–80% RH (non condensing)
Dimensions (h × w × d)	290 mm × 420 mm × 620 mm (11.4 in. × 16.5 in. × 24.4 in.)
Weight	25 kg (55.1 lbs)

ORDERING INFORMATION

Description	Part Number	Description	Part Number
Vanquish Split Sampler HT	VH-A10-A	Sample rack, 54 position, 12 mm OD vials	6850.1023
Vanquish Split Sampler FT	VF-A10-A	Sample rack, 96 position, 6 mm OD vials	6850.1026
Sample loop, 10 µL	6850.1915	7 mm OD vials	6850.1030
Sample loop, 25 µL (default)	6850.1911	8 mm OD vials	6850.2034
Sample loop, 100 µL	6850.1913		

To order in the U.S., call 1-800-346-6390, or contact the Thermo Fisher Scientific office nearest you. Outside the U.S., order through your local Thermo Fisher Scientific office or distributor. Refer to the following part numbers.

Vials and well plates see [Vanquish Sample Container Kit](#)

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