

Thermo Scientific Vanquish – Column Compartment H

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 column compartment controls the separation with more confidence.



Vanquish Column
Compartment

Hosting the LC Column Means More than Simply “Hold and Heat”

Temperature rules retention, selectivity and efficiency in your chromatography performance. The Vanquish UHPLC system is your key to paving the way to maximum efficiency and resolution by an exceptional temperature control.

- Perfectly align eluent and column temperature by our unique active pre-heating concept
- Boost your separation speed and resolution by still air thermostating for utmost efficiency
- Enjoy seamless method transfer by forced air thermostating to mimic other column thermostats
- Extend your workflow capabilities with up to three independent column chambers and multiple switching valves
- Track your column records with the new column ID system fully integrated into our Thermo Scientific™ Dionex™ Chromeleon™ Chromatography Data System (CDS)

PRODUCT SPECIFICATIONS

Specification	Value		
	Column Chamber	Pre-heater	Post-column Cooler
Operating Principle	Still air and forced air	Active	Passive
Temperature Range	5–120 °C in 0.1 °C increments (18 K below ambient)	40–120 °C (5 K above ambient)	40–80 °C
Temperature Stability	±0.05 K	±0.5 K	±0.5 K
Temperature Accuracy	±0.5 K (up to 80 °C)	±2 K	±2 K (up to 80 °C)
Heating Performance	<15 min, 20–50 °C, ±1 K Typical: 5 min, 25–40 °C, ±1 K	80 °C at 2.5 mL/min 120 °C at 1 mL/min (water/acetonitrile (50/50, v/v))	–
Cooling Performance	<15 min, 50–20 °C, ±1 K	–	Down to 50 °C at 2 mL/min and 120 °C column temperature (water/acetonitrile (50/50, v/v))
Capacity	2 column slots	2	Up to 2 (installed on each other)
Column Slot Dimension	387 mm × 25 mm		
Temperature Zones	1 per device (up to 3 zones in stacked configuration)		
Column Capacity	2 × max. 300 mm w/ pre-heater or guard column, Max. ID: 10 mm 2 × max. 250 mm w/ pre-heater and guard column, Max. ID: 10 mm		
Column ID	Up to 4 column ID tags		
Valves	Up to 2 valves: 2-position/6-port, 6-position/7-port		
Pressure Range	5–151 MPa, (50–1517 bar, 700–22,000 psi)		
Safety Features	2 doors, gas, humidity and fluid leak sensors, fast-cool button		
GLP	Predictive Performance functions for scheduling maintenance procedures based on the actual operating and usage conditions of the column compartment. All system parameters logged in the Chromeleon CDS Audit Trail.		
PC Connection	USB 2.0		
Wetted Parts	Ceramics, MP35N		
Biocompatible	Yes, pH range 2–12, buffer and/or chloride concentration up to 1 mol/L		
Power Requirements	100–240 V AC, 50/60 Hz, max. 202 W/326 VA		
Environmental Conditions	5–35 °C; 20–80% RH (non condensing)		
Dimensions (h × w × d)	700 mm × 111 mm × 422 mm (27.6 in. × 4.4 in. × 16.6 in.)		
Weight	14 kg (30.9 lbs)		

ORDERING INFORMATION

Description	Part Number
Vanquish Column Compartment H	VH-C10-A
Accessories	
Active pre-heater, ID × L 0.1 × 380 mm	6732.0110
Post-column cooler, cooled volume 1 µL, ID × L 0.1 × 240 mm	6732.0510
Column-ID Tag, 2 pcs	6732.0610
Column holder kit	6732.1904
Optional Accessories	
Biocompatible 2-position/6-port column switching valve (150 MPa)	6036.1560
Conversion Kit for left or mid installation of Vanquish TCC	6732.0003

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.

www.thermofisher.com/chromatography

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