



Thermo Scientific Fraction Collector FT/F

Separate your science from the status quo

Benefits

- Ensure sample integrity with optional cooling even for temperature-sensitive and precious compounds in Biopharma workflows
- Adjust various time and peak based fraction collection modes to your workflow requirements
- Compatible with all common separation techniques
- Integrate with Thermo Scientific™ Chromeleon™ Chromatography Data System (CDS)

Rugged and Flexible Fraction Collection for Reliable Purification

The Thermo Scientific™ Fraction Collector FT/F address the needs of chromatographers for the purification of a wide range of samples such as proteins or active pharmaceutical compounds.

Fully compatible with Thermo Scientific™ Vanquish™ UHPLC systems and the Thermo Scientific™ UltiMate™ 3000 HPLC and UHPLC systems, the Fraction Collector FT/F fluidics support analytical up to preparative flow rates and offer the industry-leading variety of vessels, including 96 well plates, standard vials and tubes, and bottles, to enable smooth integration into every laboratory workflow.

Keywords

Vanquish Horizon, Vanquish Flex, Vanquish Duo, UltiMate 3000 Fractionation, Fraction Collection

Product Specifications

Specification	Value
Sample Capacity	<p>For VF-F10-A-01 Fraction Collector FT and VF-F11-A-01 Fraction Collector F</p> <ul style="list-style-type: none"> • 6 × 250 mL bottles <p>Any four of the following:</p> <ul style="list-style-type: none"> • Well plates (96, deep and shallow) • 54 × 12 mm OD vials (≤ 1.5 mL) – Vanquish Split Sampler sample rack • 40 × 12 mm OD vials, cylindrical (2 mL) – UltiMate 3000 Well Plate Sampler sample rack • 22 × 15 mm OD vials (4 mL) – UltiMate 3000 Well Plate Sampler sample rack • 10 × 22.5 mm OD vials (10 mL) – UltiMate 3000 Well Plate Sampler sample rack <p>Any two of the following:</p> <ul style="list-style-type: none"> • 21 funnel for fractionation of unlimited volumes into appropriate vessels • 21 × 30 mm (OD) × 100 mm (H) tubes (50 mL) • 24 × 24 mm (OD) × 100 mm (H) tubes (30 mL) • 40 × 20 mm (OD) × 100 mm (H) tubes (20 mL) • 60 × 16 mm (OD) × 100 mm (H) tubes (14 mL) • 90 × 13 mm (OD) × 100 mm (H) tubes (8 mL) (default configuration) <p>For VF-F10-A-01 Fraction Collector FT in cooling configuration</p> <p>Any two of the following:</p> <ul style="list-style-type: none"> • 14 × 30 mm (OD) × 100 mm (H) tubes (50 mL) • 30 × 17 mm (OD) × 100 mm (H) tubes (15 mL) • 60 × 12 mm (OD) vials, cylindrical (2 mL) <p>Any four of the following:</p> <ul style="list-style-type: none"> • 54 × 12 mm (OD) vials (≤ 1.5 mL) • 96 well plates
Tube Change Time	Typically 0.2 to 0.4 s, depending on collection mode and rack type
Maximum Tube Height	150 mm
Flow Rate Range	0.4 mm ID drop former: 0.5 – 8 mL/min 1 mm ID drop former: 8 – 150 mL/min
Carry-Over Volume	15 µL (standard), 1.3 µL (with optional 0.4 mm ID kit)
Cooling Temperature	VF-F10-A-01: 4 °C VF-F11-A-01: can be upgraded to cooling
Sample Temperature Accuracy	- 2 °C / + 4 °C
Sample Temperature Stability	± 1 °C
Wetted Parts	ETFE, FFKM (Simriz®), PFA, PEEK (with standard and low-flow drop former), stainless steel (with grounded drop former for normal-phase LC)
Biocompatible	Yes, pH range 2–12, chloride concentration up to 1 mol/L
Control	All functions software-controlled, requires Thermo Scientific™ Chromeleon™ 7 Chromatography Data System.
GLP	All system parameters logged in the Chromeleon CDS Audit Trail.
Communication	COM1: DB-9 RS-232 serial connection to a controller PC (max ±12 VDC, 8 mA) USB: USB connection to a controller PC (max 5 VDC)
Range of Use	Indoor use only
Ambient Operating Temperature	5 °C – 40 °C (41 °F – 104 °F), recommended: 10 °C – 35 °C (50 °F – 95 °F)
Ambient Storage Temperature	0 °C – 55 °C (32 °F – 131 °F)

Ambient Operating Humidity	0% – 80% non-condensing for temperatures up to 31 °C, decreasing linearly to 50% at 40 °C recommended: 20 – 70% relative humidity, non-condensing
Ambient Storage Humidity	0% – 95% non-condensing
Operation Altitude	Up to 2,000 m (6,562 ft)
Pollution Degree	2, normally no pollution or only dry, non-conductive pollution occurs. The pollution has no influence. Occasionally, however, a temporary conductivity caused by condensation may be expected.
Power Requirements	100–240 V, 47-63 Hz AC 1.07 A with an output of DC 24 V, maximum 3.33 A, Automatic voltage selection, use only with the provided power supply Power Supply Installation Category: CAT II (Line voltage in appliance and to wall outlet) Instrument Installation Category: CAT I (Mains isolated). Use only with the provided power supply.
Overvoltage Category	II
Emission Sound Pressure Level	< 70 dB(A), typically 62 dB(A)
Dimensions (h x w x d)	Without cables and tubing: 330 mm x 360 mm x 500 mm (13 x 14 x 19.5 in.) With cables and tubing: 490 mm x 360 mm x 630 mm (23 x 14 x 24.5 in.)
Weight	11 kg (24.25 lbs) Without cooling option 17 kg (37.48 lbs) With cooling option

Ordering information

Description	Part Number
Fraction Collector FT	VF-F10-A-01
Fraction Collector F	VF-F11-A-01
Bottle, 0.25 L	2270.0026
21 position rack for 50 mL tubes; 30 mm x 100 mm	6702.0021
24 position rack for 30 mL tubes; 24 mm x 100 mm	6702.0024
40 position rack for 20 mL tubes; 20 mm x 100 mm	6702.0040
60 position rack for 14 mL tubes; 16 mm x 100 mm	6702.0060
90 position rack for 8 mL tubes; 13 mm x 100 mm	6702.0090
Adapter for 4 x WPS-3000 racks	6702.0100
Adapter for 4 x Vanquish sample rack and 96 well plates	6702.0200
Kit with 0.4 mm ID PEEK drop former for flow rates from 0.5 - 5 mL/min	6702.0300
Kit for normal-phase LC, SST drop former	6702.0400
Funnel rack, 21 positions	6702.1021
14 position cooling rack for 50 mL tubes; 30 mm x 100 mm	6706.0014
30 position cooling rack for 14 mL tubes; 16 mm x 100 mm	6706.0030
60 position cooling rack for 12 mm OD vials	6706.0060
Enclosure with exhaust	6706.9004
Cooling Adapter 96 Well Plates, round well	6706.9006
Cooling upgrade kit for Fraction Collector F (VF-F11-A-01)	6706.9007
40 position rack for 2 mL vials; 12 mm OD, WPS-3000	6820.4070
22 position rack for 4 mL vials; 15 mm OD, WPS-3000	6820.4084
10 position rack for 10 mL vials; 22 mm OD, WPS-3000	6820.4086
54 position rack for 12 mm OD vials (Vanquish Split Samplers)	6850.1023
Vials and well plates: see Vanquish Sample Container Kit	

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