

# FlowFraction™ 400 Fraction Collector

## Technical Specifications

Electrical	
External Power supply	100 - 120 VAC / 220 - 240 VAC, 1.07 A max (47 - 63 Hz)
System Requirement	24 VDC, 3.3 A max
Regulatory Compliance	CE, RoHS
System Control	
Software	FlowWeb™ web-based software controlled by SegFlow® internal processor 21 CFR, Part 11 compliant
Input and Output connectors	
COM 1	DB-9 RS-232 serial connection to SegFlow® internal PC
COM 2	DB-9 RS-232 serial connection to peltier-cooled rack(s)
Z-Drive	15-pin power and signal connection for Z-drive. 24V max output.
Physical	
Dimensions	Width: 36.6 cm (14.4 in) Height: 45.7 cm (18.0 in) Depth: 53.7 cm (21.2 in)
Weight (without rack or peltier cooler)	21.0 kg (45.0 lb)
Environmental	
Ambient temperature	Operation: 5 to 40°C (41 to 104°F) Storage: 0 to 55°C (32 to 131°F)
Relative humidity	Operation: 20 to 80% non-condensing (up to 31°C, decreasing linearly to 50% at 40°C) Storage: 0 to 95% non-condensing
Method of disposal	Electronic waste (infectious waste when used with life science applications)
Sample Processing	
Septum Piercing Capable	Yes. Request septum piercing sample probe when ordering.
Sample Size	0.25 – 15.0 ml (user defined)
Sample Dilution/Reagent Addition	Yes. Requires Sample Module option.
Wetted Materials	C-Flex® tubing, Stainless Steel
Chiller Plate Operating Parameters	
Temperature	0 to 70°C (32 to 158°F)
Recommended Pressure	5 – 15 psi (0.34 – 1.0 bar)
Maximum Pressure	25 psi (1.7 bar)
Recommended Flow Rate	1.0 – 4.0 lpm (0.26 – 1.1 gpm)
Maximum Flow Rate	8 lpm (2.1 gpm)
Vial Rack Capacity	2 vial racks maximum

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Chiller Plate Physical Characteristics	
Reservoir Capacity	41 ml (2.5 cubic in.)
Inlet/Outlet Connection Size	3/8 inch NPT (9.5 mm)
Inlet/Outlet Connection Type	Barb fitting
Accessory Options	Recirculating chiller (contact Flownamics for pricing)
Peltier Cooler	
Physical Dimensions	Width: 26.4 cm (10.4 in) Height: 7.8 cm (3.1 in) Depth: 10.5 cm (4.1 in)
Temperature Range	4 to 40°C ( 39.2 to 104°F), pre-set at 4°C, request temperature setting when ordering
Average Cooling Rate	25°C to 4°C within 25 minutes (water at 10 ml volume)
Electrical/Communication	RS-232 serial communication to COM 2 connector
Vial Rack Capacity	1 vial rack
Vial/Tube Rack Characteristics*	
HPLC Vial Rack	12 x 32 mm, 2 ml vial, 60 vials/rack
Culture Tube Rack	12 x 75 mm, 5 ml tube, 60 tubes/rack
Conical Centrifuge Tube Rack	17 x 120 mm, 15 ml tube, 36 tubes/rack
Options	Custom vial sized racks available (contact Flownamics for availability and pricing)
<b>*Standard vial racks can be used with or without the peltier cooler or chiller plate.</b>	
Vial/Tube Rack Physical Dimensions	
HPLC Vial Rack	Width: 26.0 cm (10.2 in) Height: 12.1 cm (4.8 in) Depth: 7.9 cm (3.1 in)
Culture Tube Rack	Width: 26.0 cm (10.2 in) Height: 10.6 cm (4.2 in) Depth: 7.9 cm (3.1 in)
Conical Centrifuge Tube Rack	Width: 26.0 cm (10.2 in) Height: 9.1 cm (3.6 in) Depth: 7.9 cm (3.1 in)