

CATALYST™ FH10, FH15, and FH30 Pumps

Quality design in a compact package

Enhanced and versatile performance in an ultra-compact, low-maintenance design! Catalyst pumps come as a complete system: a pump, motor, and control in a stackable steel housing. With standard flow ranges from 0.002 to 105 mL/min and pressures to 2.1 bar (30 psig), these instrument-quality pumps offer an ideal, cost-effective alternative to syringe pumps. A robust, fixed occlusion design allows for reliable, accurate pumping and dispensing with a wide variety of tubing materials and varying differential pressure applications.



Easy maintenance

- Simple, fast tubing changes
- Fixed occlusion eliminates adjustment after tubing changes and ensures operation at pressures up to 2.1 bar (30 psig)

Simple to use

- Contamination-free pumping—fluid contacts only the tubing material
- Controls are mounted on front panel
- Separate single-turn speed control maintains speed setting when turning pump on and off
- Flow direction switch with center “OFF” position
- Green “power ON” LED indicator
- “Prime” button runs pump at maximum speed to rapidly prime or flush tubing
- Reversible pump direction permits purging of tubing prior to use

Diverse performance range

- Flow rates from 2 µL/min to 105 mL/min
- Pressure up to 2.1 bar (30 psig)
- Accurate and repeatable flow delivery
- Address a wide range of critical applications with available materials
- Accommodates all sizes and formulations of microbore flow-rated tubing

Ergonomic design

- Space efficient—low profile, stackable design
- Remote capability—actuate unit with a foot switch or contact closure



Specifications & Ordering Information



Catalyst model	FH10			FH15	FH30
Catalog number	MK-77720-00	MK-77720-02	MK-77720-04	MK-77720-20	MK-77720-30
Performance					
Number of channels	1	1	1	1	2
Flow capacity (mL/min)	0.002 to 1.65	0.017 to 11	0.07 to 50	0.8 to 105	0.8 to 14
rpm	1.7 to 10	13 to 80	50 to 300	20 to 100	20 to 100
Electrical					
Voltage (50/60 Hz)	90 to 130 or 160 to 260 VAC (auto selected)				
Motor type	PMDC				
Control type	PWM (pulse width modulated)				
Physical					
Operating temperature	0 to 40°C (32 to 104°F)				
Storage temperature	-25 to 65°C (-13 to 149°F)				
Housing materials	Powder-coated steel				
IP rating	IP22				
Controller dimensions (L × W × H)	17.8 x 13.4 x 11.4 cm (7" x 5¼" x 4½")				
Shipping weight	1.5 kg (3.3 lb)				

See pages 10–12 for tubing performance and selection.