

I/P® MODULAR PUMP

APPLICATIONS

- ▶ Printing
- ▶ Laboratory research
- ▶ Polishing/lapping
- ▶ Chemical recirculation
- ▶ Sterile fluid transfer
- ▶ Pumping from 55-gallon drums
- ▶ Filtration

BENEFITS

- ▶ Modular format lets you separate drive and controller for convenient placement; a 1.8-m (6-ft) control cable is included. Extend that distance with optional 2.7-m (9-ft) extension cable
- ▶ Three-digit LED shows motor speed (rpm)—confirm speed setting at a glance
- ▶ Reversible motor—easily reverse direction of flow to purge or prime tubing
- ▶ Remote control via 9-pin (DB9) female connection on back of controller; control speed, direction, start/stop

FEATURES

- ▶ 1/5-hp continuous-duty drive
- ▶ ±0.25% drive speed accuracy
- ▶ Motor/controller connected by a 1.8-m (6-ft) cable



77962-20

ISO9001:2008
CERTIFIED SUPPLIER



SPECIFICATIONS & ORDERING INFORMATION

Catalog number	Flow range [†] (LPM)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power
HL-77962-20	0.06 to 8.0	I/P Easy-Load® 77601-10	C-Flex® ULTRA I/P 73 06434-73; 3 m (10 ft)	I/P 26, I/P 73, I/P 82	07591-20	6 to 650	IP33	90 to 130 VAC, 4.4 A; and 190 to 260 VAC, 2.2 A

[†]Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 126–130.

[HL-07557-51](#) Extension cable, 2.7 m (9 ft) for benchtop modular drive; extend distance between motor and controller.

[HL-77595-35](#) Foot switch, DB9 male with 1.8-m (6-ft) cable.

[HL-07595-47](#) Cable assembly, DB9 male connector and 7.9-m (25-ft) cable with stripped wire terminal ends. Use for remote control.

[HL-17050-01](#) NIST-traceable calibration with data for peristaltic pump drive.

COMPLETE SYSTEM INCLUDES:

PUMP HEAD

+ TUBING

+ DRIVE

Distributed by:

Fiedler Scientific Instruments, s.r.o.
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I/P® MODULAR PUMP WITH WALL-MOUNT CONTROLLER

APPLICATIONS

- ▶ pH control
- ▶ Process control
- ▶ Food applications
- ▶ Printing
- ▶ Dispensing culture media
- ▶ Dye dispensing
- ▶ Plating chemical pump
- ▶ Corrosive fluid transfer
- ▶ Slurry pump

BENEFITS

- ▶ Modular format lets you separate drive and controller for convenient placement; a 1.8-m (6-ft) control cable is included. Extend that distance with optional 2.7 m (9 ft) extension cable
- ▶ Drive and controller are IP66, NEMA 4X rated for use in washdown environments
- ▶ Three-digit LED shows motor speed (rpm)—confirm speed setting at a glance
- ▶ Remote control via 18-pin weather-resistant connection on bottom of controller; control speed, direction, start/stop

SPECIFICATIONS & ORDERING INFORMATION

Catalog number	Flow range [†] (LPM)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power
HL-77962-30	0.06 to 8.0	I/P Easy-Load® 77601-10	C-Flex® ULTRA I/P 73 06434-73; 3 m (10 ft)	I/P 26, I/P 73, I/P 82	07591-30	6 to 650	IP66	90 to 130 VAC, 4.4 A; and 190 to 260 VAC, 2.2 A

[†]Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 126–130.

[HL-07557-51](#) Extension cable, 2.7 m (9 ft) for washdown modular drive; extend distance between motor and controller.

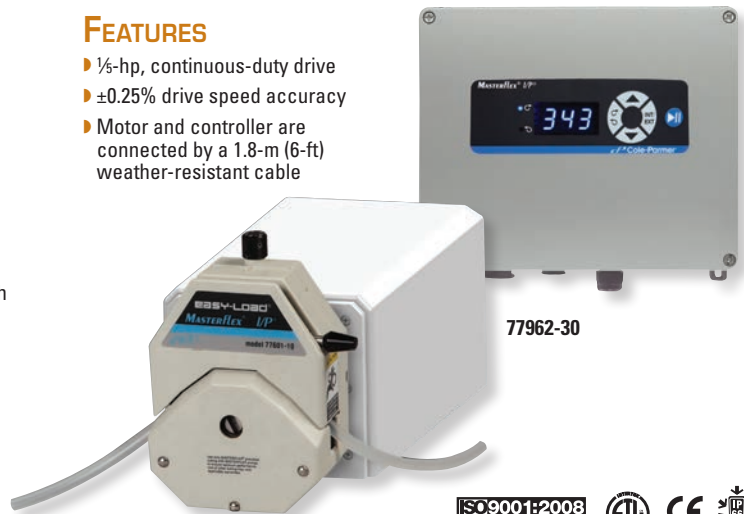
[HL-07595-43](#) Washdown foot switch, 18-pin round with 1.8-m (6-ft) cable.

[HL-77300-32](#) Cable assembly, 18-pin round connector and 7.9-m (25-ft) cable with stripped wire terminal ends. Use for remote control.

[HL-17050-01](#) NIST-traceable calibration with data for peristaltic pump drive.

FEATURES

- ▶ 1/5-hp, continuous-duty drive
- ▶ ±0.25% drive speed accuracy
- ▶ Motor and controller are connected by a 1.8-m (6-ft) weather-resistant cable



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I/P® PROCESS PUMP

APPLICATIONS

- ▶ Media transfer
- ▶ Filling/emptying large carboys and bags
- ▶ Pumping dyes and pigments
- ▶ Pumping fermentation chemicals
- ▶ Sewage and sludge sampling

BENEFITS

- ▶ Brushless, maintenance-free motor
- ▶ Light enough to carry with one hand
- ▶ Displays percent speed from 5 to 100% for repeatable control
- ▶ Sealed, IP55-rated housing sprays or wipes down for easy cleaning
- ▶ Powerful enough to drive two Easy-Load® pump heads for twice the flow rate

FEATURES

- ▶ 1/3-hp, continuous-duty brushless drive
- ▶ ±0.25% PWM speed control accuracy
- ▶ Precise, three-turn speed control
- ▶ Sealed membrane keypad



77963-10

SPECIFICATIONS & ORDERING INFORMATION

ISO 9001:2008
CERTIFIED SUPPLIER



Catalog number	Flow range† (LPM)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power (50/60 Hz)
HL-77963-10	0.4 to 8.0	I/P Easy-Load® 77601-10	C-Flex® ULTRA I/P 73 06434-73; 3 m (10 ft)	I/P 26, I/P 73, I/P 82	77410-10	33 to 650	IP55	90 to 130 VAC, 4.5 A; and 220 to 260 VAC, 2.6 A
HL-77963-20	0.7 to 17.0	I/P High-Performance 77600-62	Tygon® E-LFL I/P 88 06440-88; 1 m (3 ft)	I/P 70, I/P 88, I/P 89				

†Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 126–130.

[HL-17050-01](#) NIST-traceable calibration for peristaltic pump drive.

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I/P® PROCESS PUMPS WITH REMOTE CAPABILITY

APPLICATIONS

- ▶ Purification/filtration/media transfer
- ▶ Automated process
- ▶ Food and pharma process pump
- ▶ Pumping anti-foaming agents
- ▶ Chemical feed and metering
- ▶ Wastewater process pump

BENEFITS

- ▶ Remote control capability via fluid-resistant I/O connector on back of drive (requires 77300-32 remote cable kit—order separately)
- ▶ Analog outputs include “pump ready” signal (order 77300-32 remote cable kit below)
- ▶ Displays percent speed from 5 to 100% for precise, repeatable control
- ▶ Sealed, IP55-rated housing sprays or wipes down for easy cleaning
- ▶ Brushless, maintenance-free motor

FEATURES

- ▶ 1/3-hp, continuous-duty brushless drive
- ▶ ±0.25% PWM speed control accuracy
- ▶ Sealed membrane keypad



77965-10

SPECIFICATIONS & ORDERING INFORMATION

ISO9001:2008
CERTIFIED SUPPLIER



Catalog number	Flow range† (LPM)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power (50/60 Hz)
HL-77965-00	0.4 to 8.0	I/P Easy-Load® 77601-10	C-Flex® ULTRA I/P 73 06434-73; 3 m (10 ft)	I/P 26, I/P 73, I/P 82	77411-00	33 to 650	IP55	90 to 130 VAC, 4.5 A; and 220 to 260 VAC, 2.6 A
HL-77965-10	0.7 to 17.0	I/P High-Performance 77600-62	Tygon® E-LFL I/P 88 06440-88; 1 m (3 ft)	I/P 70, I/P 88, I/P 89				

†Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 126–130.

[HL-07595-43](#) Washdown foot switch.

[HL-17050-01](#) NIST-traceable calibration for peristaltic pump drive.

[HL-77300-32](#) Remote cable kit.

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I/P® DIGITAL MODULAR PUMP

APPLICATIONS

- ▶ Yogurt dispensing pump
- ▶ Flavor concentrate/food additive dispenser
- ▶ Photochemical dispenser
- ▶ Shampoo dispenser

FEATURES

- ▶ 3/8-hp, continuous-duty drive
- ▶ ±0.1% drive speed accuracy
- ▶ Controller/drive connected by a 1.8-m (6-ft) cable

BENEFITS

- ▶ Modular format lets you separate drive and controller for convenient placement; a 1.8-m (6-ft) control cable is included. Extend that distance with optional 2.7-m (9-ft) extension cable
- ▶ Four-line graphical LCD shows four operating modes: continuous run, volume dispense, time dispense, and copy dispense
- ▶ Set time interval (delay) between dispense cycles for hands-free dispensing; antidrip function ensures dispensing accuracy
- ▶ Remote control via 25-pin (DB25) female connection on back of controller; control speed, direction, start/stop, and prime



77970-40

SPECIFICATIONS & ORDERING INFORMATION

Catalog number	Flow range† (LPM)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power
HL-77970-40	0.001 to 8.0	I/P Easy-Load® 77601-10	C-Flex® ULTRA I/P 73 06434-73; 3 m (10 ft)	I/P 26, I/P 73, I/P 82	07594-00	0.1 to 650	IP33	90 to 130 VAC, 4.5 A; and 190 to 260 VAC, 2.5 A

†Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 126–130.

[HL-77301-82](#) Extension cable, 2.7-m (9-ft) for benchtop modular drive; extend distance between motor and controller.

[HL-07523-92](#) Foot switch, momentary start/stop; 1.8-m (6-ft) cable.

[HL-07523-95](#) Cable assembly, DB25 male connector and 7.9-m (25-ft) cable with stripped wire ends for remote control.

[HL-17050-01](#) NIST-traceable calibration with data for peristaltic pump drive.

COMPLETE SYSTEM INCLUDES:

PUMP HEAD

TUBING

DRIVE

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I/P® DIGITAL MODULAR PUMP WITH WALL-MOUNT CONTROLLER

APPLICATIONS

- ▶ Transfer cell culture media
- ▶ Flavor concentrate/food additive dispenser
- ▶ Photochemical dispenser

FEATURES

- ▶ 3/8-hp, continuous-duty drive
- ▶ ±0.1% drive speed accuracy
- ▶ Controller/drive connected by a 1.8-m (6-ft) cable

BENEFITS

- ▶ Modular format lets you separate drive and controller for convenient placement; a 1.8-m (6-ft) control cable is included. Extend that distance with optional 2.7-m (9-ft) extension cable
- ▶ Drive and controller are IP66, NEMA 4X rated for use in washdown environments
- ▶ Four-line graphical LCD shows four operating modes: continuous run, volume dispense, time dispense, and copy dispense
- ▶ Set time interval (delay) between dispense cycles for hands-free dispensing; antidrip function ensures dispensing accuracy
- ▶ Remote control via 31-pin weather-resistant connection on bottom of controller; control speed, direction, start/stop, and prime



SPECIFICATIONS & ORDERING INFORMATION



Catalog number	Flow range† (LPM)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power
HL-77970-50	0.001 to 8.0	I/P Easy-Load® 77601-10	C-Flex® ULTRA I/P 73 06434-73; 3 m (10 ft)	I/P 26, I/P 73, I/P 82	07594-10	0.1 to 650	IP66	90 to 130 VAC, 4.5 A; and 190 to 260 VAC, 2.5 A*

†Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 126-130.

[HL-77301-82](#) **Extension cable**, 2.7 m (9 ft) for washdown modular drive; extend distance between motor and controller.

[HL-07575-84](#) **Washdown foot switch**, momentary start/stop; 1.8-m (6-ft) cable.

[HL-07575-80](#) **Cable assembly**; 31-pin round water-tight connector and cable with stripped wire ends for remote control, 8.3-m (25-ft) length.

[HL-17050-01](#) **NIST-traceable calibration** with data for peristaltic pump drive.

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I/P® DIGITAL PROCESS PUMP

APPLICATIONS

- ▶ Pharma and cosmetics process pump
- ▶ Sanitary food/dairy process pump
- ▶ Automated process pump
- ▶ Dosing/metering additives
- ▶ Bulk media transfer and dispensing
- ▶ Large-volume buffer transfer
- ▶ Pilot scale fermentation

BENEFITS

- ▶ Four-line graphical LCD shows four operating modes: continuous run, volume dispense, time dispense, and copy dispense
- ▶ Brushless motor virtually eliminates maintenance—no motor brushes to replace
- ▶ Programmable dispense interval for automated dispensing
- ▶ Antidrip function ensures dispensing accuracy
- ▶ Batch count lets you set the desired number of batches and displays number of batches completed
- ▶ Programmed calibration ensures flow rate accuracy
- ▶ Sealed housing for easy washdown in process environments; available with either 316 stainless steel or powder-coated steel housing
- ▶ Tach output for precise speed control and feedback

FEATURES

- ▶ 3/4-hp continuous-duty brushless drive
- ▶ ±0.1% PWM speed control accuracy with tach output
- ▶ Analog remote control of speed, start/stop, and direction (order remote accessories below)
- ▶ Sealed membrane keypad with lockout
- ▶ IP66, NEMA 4X rated



77964-20



77964-30

SPECIFICATIONS & ORDERING INFORMATION

ISO9001:2008
CERTIFIED SUPPLIER



Catalog number	Flow range† (LPM)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power
Digital process pump with 316 stainless steel housing								
HL-77964-20	0.001 to 8.0	I/P Easy-Load® 77601-10	C-Flex® ULTRA I/P 73 06434-73; 3 m (10 ft)	I/P 26, I/P 73, I/P 82	77420-10	0.1 to 650	IP66	90 to 130 VAC, 4.5 A; and 190 to 260 VAC, 2.5 A
Digital process pump with powder-coat steel housing								
HL-77964-30	0.001 to 8.0	I/P Easy-Load® 77601-10	C-Flex ULTRA I/P 73 06434-73; 3 m (10 ft)	I/P 26, I/P 73, I/P 82	77420-20	0.1 to 650	IP66	90 to 130 VAC, 4.5 A; and 190 to 260 VAC, 2.5 A

†Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 126–130.

[HL-07575-84](#) Washdown foot switch, momentary start/stop; 1.8-m (6-ft) cable.

[HL-07575-80](#) Cable assembly; 31-pin round water-tight connector and cable with stripped wire ends for remote control, 8.3-m (25-ft) length.

[HL-17050-01](#) NIST-traceable calibration with data for peristaltic pump drive.



FILLER/DISPENSING NOZZLES

- ▶ Maximize the speed, precision, and accuracy of dispensing and filling applications
- ▶ Minimize splashing and dripping when dispensing into narrow- or wide-mouth containers
- ▶ Dimensional tolerances of ±0.05% for assured repeatability

These nozzles combine the ease of plastic components with the accuracy and reliability of a stainless steel tube. Tight dimensional tolerances help to ensure precision in your dispensing applications. Nozzles feature a 316L stainless steel tube and a polycarbonate base with hose barb adapter. Materials comply with FDA, USDA and USP Class VI requirements. All filler nozzles are sterilizable by ethylene oxide, autoclaving, or gamma irradiation.

Catalog number	Tubing ID
HL-30619-06	1/32"
HL-30619-01	1/16"
HL-30619-07	1/8"
HL-30619-02	3/16"
HL-30619-08	1/4"
HL-30619-03	5/16"
HL-30619-09	3/8"
HL-30619-04	1/2"
HL-30619-10	5/8"
HL-30619-05	3/4"

30619-02



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