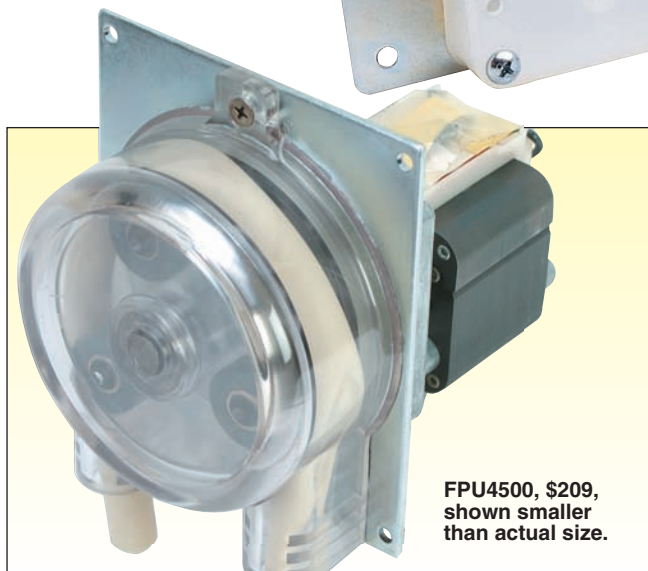


# OMEGAFLEX® OEM STYLE PERISTALTIC PUMPS

FPU100 Series  
Starts at  
**\$78**



FPU101 pump, \$78, shown smaller than actual size, supplied with Norprene tubing and mounting panel.



FPU4500, \$209, shown smaller than actual size.

- ✓ **UL-Listed AC or DC Motor**
- ✓ **Suitable for Fluids Carrying Small Particles**
- ✓ **Easy to Maintain**
- ✓ **Mounting Panel Standard**
- ✓ **Benchtop Case Optional**
- ✓ **New High-Flow FPU4500 Series Has 2000 mL/Min Capacity**

FPU100 Series peristaltic pumps offer simplicity at a reduced cost. The UL-listed AC or DC motor turns the rollers, which squeeze fluid through the precision-bore high-tolerance tubing in a wavelike motion, acting like a positive displacement pump. The fluid doesn't touch the pump; it only comes into contact with the tubing. This makes the pump suitable for fluids carrying small particles. FPU100 pumps continuously overocclude the tubing, which makes the pump self-priming and non-siphoning. They are easy to maintain, with few moving parts and no seals or valves to clog, clean, or replace. As one section of tube fatigues, just move the tubing to a section that hasn't been under the rollers and continue pumping. Or simply replace the supplied tubing. The replacement 230 mm (9") lengths

of precision-bore tubing ensure repeatable pumping rates time after time. The pumps are supplied with tubing that has polyethylene union connectors for hooking up system tubing. The replacement 230 mm (9") lengths of tubing come without connectors. The pumps are supplied standard with a mounting panel. The AC-powered pumps are also available in a rugged polycarbonate enclosure for bench mounting. Maximum backpressure is 15 psi without derating (up to 25 psi @ 75% of maximum flow). Maximum suction head is 8.5 m (28'). Flow rate repeatability from one pump to the next or when replacing tubing is within 8% of maximum flow rate listed. Shipping weight is 1.6 kg (3.5 lb) for all sizes. These pumps are ideal for metering/dosing, repetitive dispensing, and general liquid/gas transfer, and they have a 100% duty cycle for continuous operation.

## SPECIFICATIONS (FPU100)

**Mounting Plate:** 94 L x 130 W x 109 mm D (3.74 x 5.12 x 4.28"); 5.6 mm (0.22") diameter holes are centered 76 x 110 mm (3.0 x 4.34") on the plate  
For units with rear fan: 130 L x 130 W x 135 mm D (5.11 x 5.12 x 5.28") overall  
**Case:** 152 H x 152 W x 102 mm D (6 x 6 x 4")  
**Shipping Weight:** 1.6 kg (3.5 lb)  
**Ambient Temp Range:** 20 to 30°C (68 to 86°F)  
**Max Liquid Viscosity:** 8500 cp

## SPECIFICATIONS (FPU4500)

**Electrical:** 115 Vac/60 Hz  
**Flow Rate:** 2000 mL/min (78.6 oz)  
**Mounting:** 12-gage zinc-plated steel mounting plate (included)  
**Dimensions:** 140 H x 116 W x 191 mm D (5.5 x 4.6 x 7.5")  
**Shipping Weight:** 2.4 kg (5.3 lb)

For a Complete Selection of OMEGAFLEX® Tubing and Accessories, See Section T Pages T-13 to T-66

### Benchtop Case Available

The AC-powered pumps are also available in a rugged polycarbonate enclosure with on/off switch, power indicator lamp, and rubber feet for benchtop use. Each is supplied with a 1.8 m (6'), 115 Vac, 3-wire cord. To order, select the desired pump. Add suffix "-CASE" to model number and add \$75 to price. For 240 Vac models with European plug, consult OMEGA's Flow Department. An optional 24-hour timer with momentary "on" switch for priming the pump is also available for the case unit. The timer is settable up to 24 hours in increments of 15 minutes by internal DIP switches. To order case unit with timer for 115 Vac, add suffix "-CASE-CT" to model number and add \$95 to price.


### Replacement 230 mm (9") Tubing Lengths

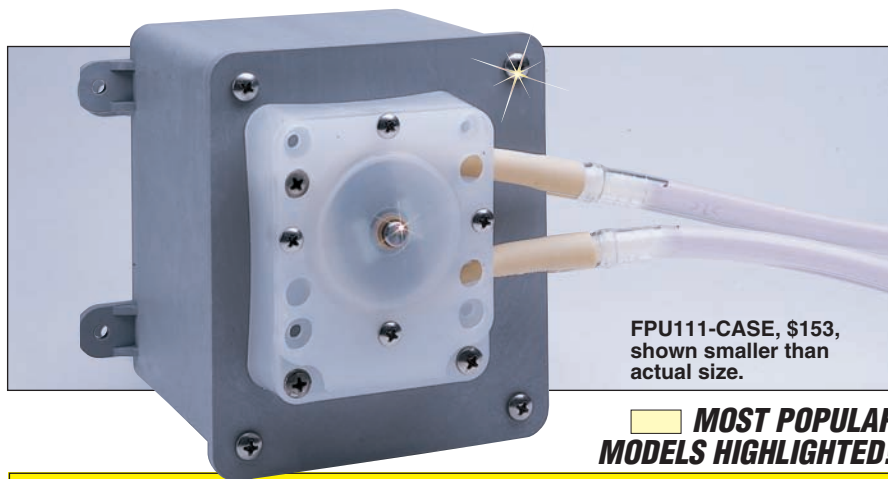
Model No.	Price	Description (ID x OD)
FPU116-S	\$6	1/16" x 1/8" silicone tubing*
FPU18-N	4	1/8" x 3/8" Norprene tubing
FPU18-S	4	1/8" x 3/8" silicone tubing
FPU316-N	4	3/16" x 3/8" Norprene tubing
FPU316-S	4	3/16" x 3/8" silicone tubing
FPU14-N	4	1/4" x 7/16" Norprene tubing
FPU14-S	4	1/4" x 7/16" silicone tubing

\* Tubes are supplied inserted into 3/16" x 3/8" tubes. Connection is made to the 1/16" x 1/8" internal tubing.

Brushless 115 Vac, 60 Hz induction motors; flow rates based on pumping water.

### Accessory

Model No.	Price	Description
CM-4441	\$112	Reference Book: Systematic Methods of Chemical Process Design 



FPU111-CASE, \$153, shown smaller than actual size.

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number) Norprene Tube Standard†

Model No.	Price	Approx. Flow Rate		Tube ID	Average Tube Life		rpm	Amperage**
		@ 60 Hz mL/Min	GPM		Silicone Hours†	Norprene Hours†		
FPU101	\$78	3	0.0008	1/16"	2600	5200	14	0.37
FPU102	78	5	0.0013	1/16"	1600	3200	23	0.42
FPU103	78	6	0.0016	1/16"	1300	2600	28	0.75
FPU104	78	12	0.0032	1/8"	2600	5200	14	0.37
FPU105	78	20	0.0052	1/8"	1600	3200	23	0.42
FPU106	78	25	0.0065	1/8"	1300	2600	28	0.75
FPU107	78	30	0.008	3/16"	2600	5200	14	0.37
FPU108	78	45	0.012	3/16"	1600	3200	23	0.42
FPU109	78	50	0.013	1/4"	2600	5200	14	0.37
FPU110	78	55	0.015	3/16"	1300	2600	28	0.75
FPU111	78	70	0.018	3/16"	1000	2000	36	0.90
FPU112	78	80	0.022	1/4"	1600	3200	23	0.42
FPU113	78	100	0.026	3/16"	750	1500	48	1.00
FPU114	78	100	0.026	1/4"	1300	2600	28	0.75
FPU115	78	115	0.030	3/16"	600	1200	58	1.20
FPU116	78	130	0.034	1/4"	1000	2000	36	0.90
FPU117	95	150	0.040	3/16"	500	1000	75	1.50
FPU118	95	165	0.044	1/4"	750	1500	48	1.00
FPU119	95	195	0.052	1/4"	600	1200	58	1.20
FPU120	95	250	0.066	1/4"	500	1000	75	1.50
FPU121	95	360	0.095	1/4"	350	700	108	1.90
FPU122	95	425	0.110	1/4"	300	600	129	2.20
FPU123	125	635	0.168	1/4"	200	400	172	2.20
FPU124	125	750	0.200	1/4"	180	360	203	2.20
FPU125	125	1000	0.265	1/4"	130	260	282	2.20
FPU4500*	209	2000	0.528	3/8"	500	1000	154	3.80

Comes complete with operator's manual and mounting panel.

\* The FPU4500 comes with Norprene tubing (not available as a case unit with timer).

(FPU100 Series)

\*\* 240 Vac amperage is 1/2 that for 115 Vac; for 24 Vdc power, 0.8 A nominal max. For dual-head units, consult OMEGA's Flow Engineering Department.

† Pumps are supplied with Norprene tubes standard. For silicone tubing, add suffix "-SL" to model number, no additional charge.

Note: DC-powered versions have a 500 hr life; for long-term or continuous applications, use the standard 115 Vac powered models.

For units powered by 12 or 24 Vdc, add suffix "-12VDC" or "-24VDC" to the model number and \$20 to the price.

For units powered by 240 Vac @ 50 Hz, add suffix "-240VAC" to model number and \$10 to price. 50 Hz units have approximately 5/6 of the capacity of standard 60 Hz units.

For dual head units with 2 separate outputs, add suffix "-DUAL" to model number and \$45 to price, for FPU101 through FPU120. For FPU121 through 125-DUAL, add \$70 to price.

Ordering Examples: FPU119-240VAC-DUAL, 240 Vac, 50 Hz powered, dual-head unit with a total flow of 3/8" x 2000 mL/min = 1666 mL/min, \$95 + 10 + 45 = \$150.

FPU109-SL, 50 mL/min pump with silicone tube, \$78.

FPU107-CASE, pump with polycarbonate enclosure, \$78 + 75 = \$153.



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters