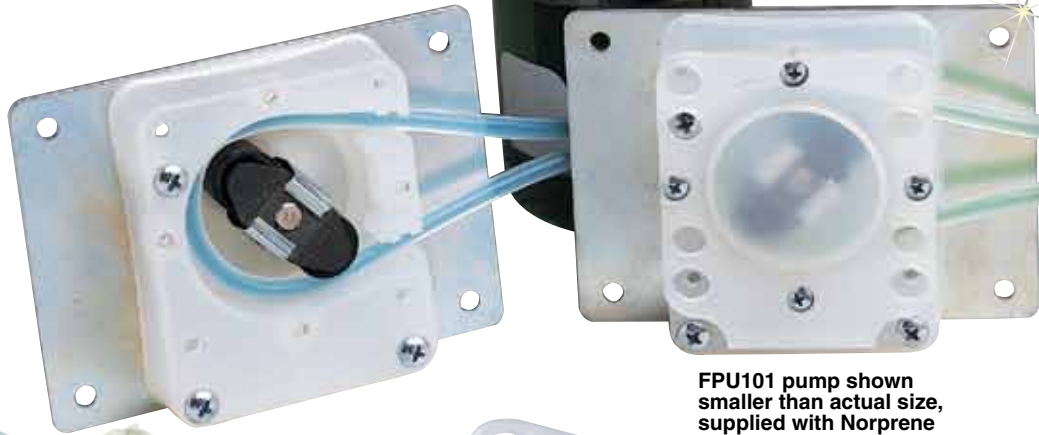


OMEGAFLEX® OEM STYLE PERISTALTIC PUMPS

FPU100 Series



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



FPU4500 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

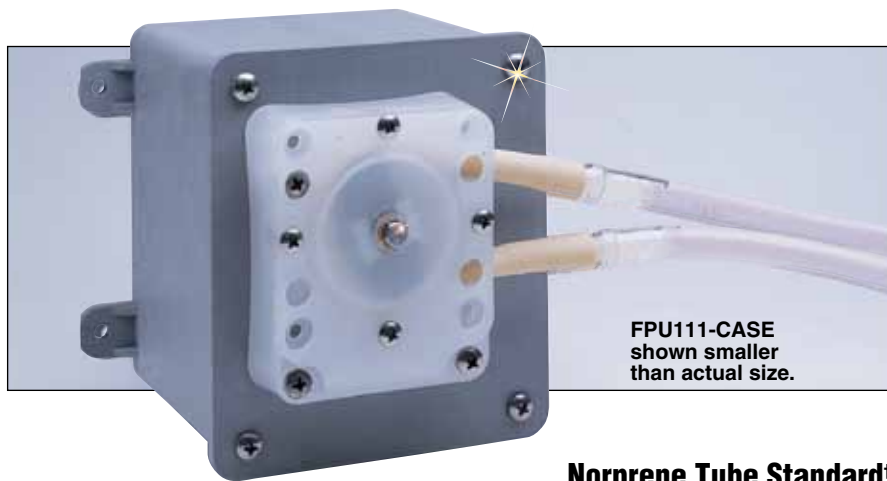
of precision-bore tubing ensure repeatable pumping rates time after time. The pumps are supplied with tubing that has polyethylene union connectors for hooking up system tubing. The replacement 230 mm (9") lengths of tubing come without connectors. The pumps are supplied standard with a mounting panel. 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)



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 for additional cost. 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, for additional cost.

Norprene Tube Standard†

To Order

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

Replacement 230 mm (9") Tubing Lengths

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

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, for additional cost.

For units powered by 240 Vac @ 50 Hz, add suffix “-240VAC” to model number, for additional cost. 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, for additional cost, for FPU101 through FPU120. For FPU121 through 125-DUAL, for additional cost.

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.

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

FPU107-CASE, pump with polycarbonate enclosure.