

LAMBDA MEGAFLOW Peristaltic Pump

Flow rate: 0.02 ml/min – 60'000 ml/h



MEGAFLOW is a specially designed laboratory peristaltic pump for long term continuous processes with increased flow rates of up to 60'000 ml/hour. High precision, reproducible and long term stable flow rates are achieved with the quartz driven BLDC motor and unique tubing compression technique in the large pump head.



Reliable

The pump's unique compression mechanism reduces mechanical strain on the tubing and assures stable flow rates for weeks



Small footprint

The stackable and extremely compact peristaltic pump saves valuable bench-space in your laboratory



Economic & easy to use

LAMBDA peristaltic pumps do not have complicated heads and drives, making them easy to set-up and use even with low cost tubing

Precise and reproducible flow rates

Programmable flow rate profile: 0 - 99 steps of speed and time setting

Flow rate can be varied with the ratio of 1:1000

Long tubing life

Clockwise and anti-clockwise operation

RS-232 or RS-485 interface

PC remote control software, PNet

Technical specifications

<i>Type</i>	LAMBDA MEGAFLOW - microprocessor-controlled programmable peristaltic pump
<i>Programming</i>	up to 99 steps of speed and time
<i>Time resolution</i>	0 to 999 minutes in 1 minute steps 0 to 99.9 minutes in 0.1 minute steps
<i>Accuracy</i>	± 1%
<i>Reproducibility</i>	± 0.2 % (electronics)
<i>Tubing</i>	Silicone tubing or other materials having similar elasticity; inner tubing diameter from 1 to 8 mm and tubing wall thickness of approx. 2 mm
<i>Flow rate range</i>	
<i>Minimum</i>	0.02 ml/min with 1 mm inner tubing diameter
<i>Maximum</i>	60'000 ml/hour with 8 mm inner tubing diameter
<i>Non-volatile memory</i>	storage of all settings
<i>Maximum pressure</i>	approx. 0.1 MPa (1 bar) in clockwise rotation; approx. 0.15 MPa (1.5 bar) in counter-clockwise rotation
<i>Motor</i>	microprocessor controlled brushless long life BLDC motor with neodymium magnets
<i>Speed control range</i>	0 - 999
<i>Interface</i>	RS-485 or RS-232 (optional)
<i>Remote control</i>	0-10 V; (option 0-20 or 4-20 mA); foot switch; ON/OFF
<i>Power supply</i>	90–240 V/50–60 Hz AC plug-in power supply with DC 12V/50W output; possible field operation on 12 V accumulator
<i>Dimensions</i>	18 (W) x 13 (H) x 16 (D) cm
<i>Weight</i>	2.5 kg
<i>Safety</i>	CE, meets IEC 1010/1 norm for laboratory instrument
<i>Operation temperature</i>	0 – 40 °C
<i>Operation humidity</i>	0-90% RH, not condensing
<i>Warranty</i>	2 years

The LAMBDA Peristaltic Pump Family

			
PRECIFLOW 0.2 µl/min - 600 ml/h 5 years warranty	MULTIFLOW 0.2 µl/min - 600 ml/h, programmable 5 years warranty	HIFLOW 1 µl/min - 3'000 ml/h, programmable 2 years warranty	MAXIFLOW 3 µl/min - 10'000 ml/h, programmable 2 years warranty

For quotations, prices and further questions, contact us at: support@lambda-instruments.com