

# E-Fiber Accessories

Modular electrospinning/electrospraying platform

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## EFA185/EFA190/EFA195 - Syringe Pump

Syringe pumps are used to properly control the infusion rate of solutions and liquids in general. They are fundamental for electrospinning/spraying applications, as solution flow rate is one of the parameters affecting the good outcome of the process. Highly flexible and versatile, ideal for research applications, can house syringes with different volumes, from 1 mL to 60 mL.



2-channel and 6-channel syringe pumps are suitable for core-shell electrospinning, and for advanced applications where more than 2 materials need to be used at the same time.

## TECHNICAL DATA

Syringe sizes	Up to 60 mL
Number of syringes	1, 2, or 6
Maximum pumping rate	1257 mL/hr with a 60 mL syringe (1 channel) 6120 mL/hr with a 60 mL syringe (2 channel) 1163 mL/hr with a 60 mL syringe (6 channel)
Minimum pumping rate	0.73 $\mu$ L/hr with a 1 mL syringe (1 channel) 1.459 $\mu$ L/hr with a 1 mL syringe (2 channel) 0.454 $\mu$ L/hr with a 1 mL syringe (6 channel)
Syringe inside diameter range	0.100 to 50.00 mm
Motor type	Step motor
Motor steps per revolution	400 (1 channel) 200 (2 and 6 channel)
Micro-stepping	1/8 to 1/4 depending on motor speed
Motor to drive screw ratio	15/28 (1 and 2 channel) 5/1 (6 channel)
Drive screw pitch	20 revolutions/inch (1 and 2 channel) 24 revolutions/inch (6 channel)
DC connector	2.5 mm, center positive
Voltage at DC connector	12V DC at full load
Amperage	750 mA at full load (1 channel) 1000 mA at full load (2 and 6 channel)
Power supply output rating	12V DC @ 1000 mA
Dimensions	229 x 146 x 115 mm (1 and 2 channel) 260 x 381 x 127 mm (6 channel)
Weight	1.6 kg (1 and 2 channel) 4.6 kg (6 channel)

## ORDERING DETAILS

Product code	EFA185   1-channel syringe pump
	EFA190   2-channel syringe pump
	EFA195   6-channel syringe pump

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