



# Kima Microfluidic Pump

---



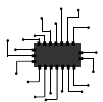


## Technical note

Microfluidic Recirculating Pump for Cell Culture

# KIMA MICROFLUIDIC PUMP

Kima microfluidic pump is designed to aid cell culture (e.g. endothelial cells) in biochips and flow chambers, including Cellix's Vena8 Endothelial+ biochips where it is possible to culture 8 cell monolayers simultaneously over 24 - 48 hours.

## MAIN BENEFITS

-  **RECIRCULATING:** Simple recirculation of media without the need of additional fluidic valves while saving the amount of reagents required.
-  **PULSATILE:** Apply continuous or periodic pulsing flow to cell monolayers in culture.
-  **PROGRAMMABLE:** Program the length of perfusion and pause timing.
-  **INCUBATOR SAFE:** Fits inside standard CO2 incubators. No additional temperature or humidity control required.
-  **EASY TO USE:** Control up to 4 pumps with the same controller with user-friendly software on your PC.



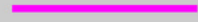
## HOW DOES IT WORK?

PC with KimaFlo control

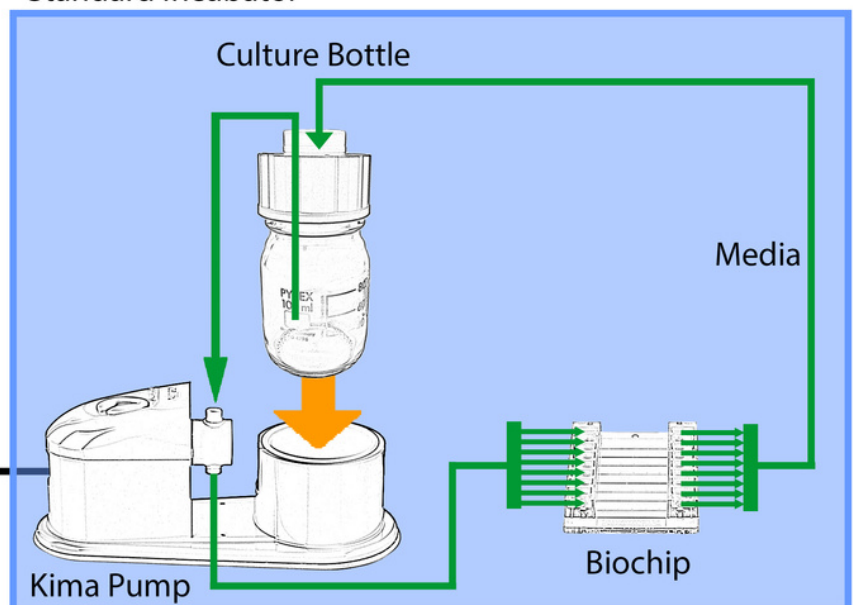


Kima Controller



-  Flat Power Cable
-  Fluidic path
-  USB control path

Standard Incubator



# TECHNICAL SPECIFICATIONS

	KIMA CONTROLLER	KIMA PUMP
Outputs	4 sockets which can control 4 Kima pumps independently <sup>1</sup>	
Working Pressure		30 psi - 2 bars maximum
Pumping Modes		2 modes of pumping: wash & perfusion
Flow Direction		Dispense only
Working Conditions	Temperature: 10 <sup>0</sup> C - 40 <sup>0</sup> C Humidity: < 90% RH Altitude: <2000m	Temperature: 10 <sup>0</sup> C - 40 <sup>0</sup> C Humidity: < 90% RH Altitude: <2000m
Software Control	KimaFlo Software via PC	KimaFlo Software via PC
Dimensions	128mm (W) x 81mm (D) x 104mm (H)	190mm (W) x 85mm (D) x 90mm (H)
Weight	<550g including power supply	<800g
Power Requirements	100-240V AC / 47-63Hz	Provided by Kima Controller

(1) Non-standard firmware required. Contact Cellix for more information.

## APPLICATIONS

- ✓ Celli culture in biochips or flow chambers with adherent cells (HUVECs)
- ✓ Biofilm studies
- ✓ Stem cell culture
- ✓ HepG2 cell culture

## WHAT'S INCLUDED

	INCLUDED	OPTIONAL
ExiGo Controller	✓	
Kima Pump	✓	
Bottle	✓	
Tubing <sup>2</sup>	✓	
Vena8 Biochip <sup>3</sup>		✓

(2) All Kima Pump tubing and accessories are autoclavable

(3) For more information about Cellix's biochips, please visit [www.wearecellix.com/biochips](http://www.wearecellix.com/biochips)



Place your order by emailing [sales@cellixltd.com](mailto:sales@cellixltd.com)



## WE ARE CELLIX!



Unit 1, Longmile Business Park,  
Longmile Road, Dublin 12  
D12 EK79, Ireland



[info@wearecellix.com](mailto:info@wearecellix.com)



[@wearecellix](https://www.instagram.com/wearecellix)



Copyright © 2023 By Cellix Ltd. All rights Reserved.