## PIEZOELECTRIC MICRO PUMPS

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it SDMP320/330W



### **Features**

- · Small-sized, lightweight and slim.
- · No metal is used as wetted materials.
- · Low noise and low power consumption.
- · Flow rate is adjustable by changing drive voltage or drive frequency.
- · Self-priming is possible.

## **Specifications**

SDMP320	SDMP330W <under development=""></under>
Piezoelectric Diaphragm Pump (Unimorph)	Piezoelectric Diaphragm Pump (Bimorph)
20 ml/min	30 ml/min
35 kPa	-
60 ~ 250 Vp-p	
10 ~ 60 Hz	
-1.0 kPa	
5 ~ 50 °C	
COC (Cyclic Olefin Copolymer) EPDM (Ethylene Propylene Diene Monomer)	
33 × 33 × 5.5 mm	
Approx. 9 g	Approx. 12 g
φ1.8 – φ2.8 – L5.0 mm	
	Piezoelectric Diaphragm Pump (Unimorph)  20 ml/min  35 kPa  60 ~ 2!  10 ~  -1.0  5 ~ 5  COC (Cyclic Ole EPDM (Ethylene Propy  33 × 33 ×  Approx. 9 g

<sup>\*1.</sup> The data above are based on sine wave drive. Flow rate and pump pressure are larger if driven by Takasago Standard wave.

Note: Details including specifications may change without notification.

#### TAKASAGO ELECTRIC, INC.

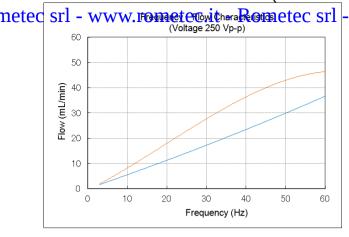
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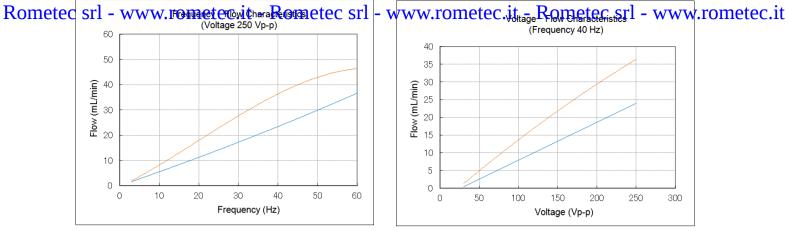
E-mail: info@takasago-elec.co.jp URL: http://www.takasago-fluidics.com/

<sup>\*2.</sup> SDMP330W is under development and some of the specifications are not fixed.

<sup>\*3.</sup> Smaller models (Typical flow rate: 3 or 7ml/min) are also available.

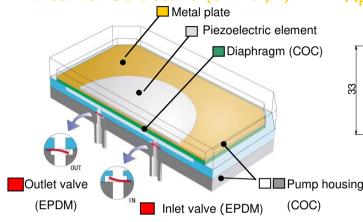
Flow Characteristics (Blue line: SDMP320 Red line: SDMP330W)

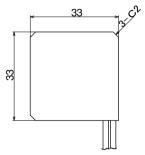


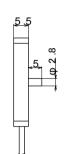


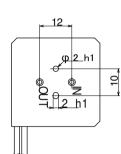
# Internal Structure (Unimorph)

# Appearance and Dimensions









#### **Driver Board MPD-200A**

This driver board is a thin, compact and lightweight, yet high-voltage circuit board, designed for the piezoelectric micro pumps. From a regular 5 VDC input voltage, it can easily generate the high voltage supply of approximately 250 Vp-p, 40 Hz necessary for driving the micro pumps.



Item	Specifications
Input Voltage	5 VDC ± 5%
Output Frequency	1 ~ 60 Hz
Output Voltage	50 ~ 340 Vp-p
Number of Pumps Connectable	2 pieces (maximum)
External Dimensions, Weight	30 x 30 x 18 mm, approx. 9 g

## Controller MPC-200A

This is a compact and lightweight controller that can provide the high voltage power necessary for driving the micro pumps. It is user-friendly with a front panel digital display for configuring the output voltage and output frequency, and a memory function to store the latest setting used.



	Item	Specifications	
	Input Voltage	5 VDC ± 5%	
	Output Frequency	1 ~ 60 Hz	
	Output Voltage	60 ~ 300 Vp-p	
	Number of Pumps Connectable	2 pieces (maximum)	
r	External Dimensions, Weight	75 x 30 x 89 mm, approx. 140 g	c it
1	Attachment	AC adapter	L.IL