

# Pneumatic Pump IAP-1000(100,8000) for Microfluidics

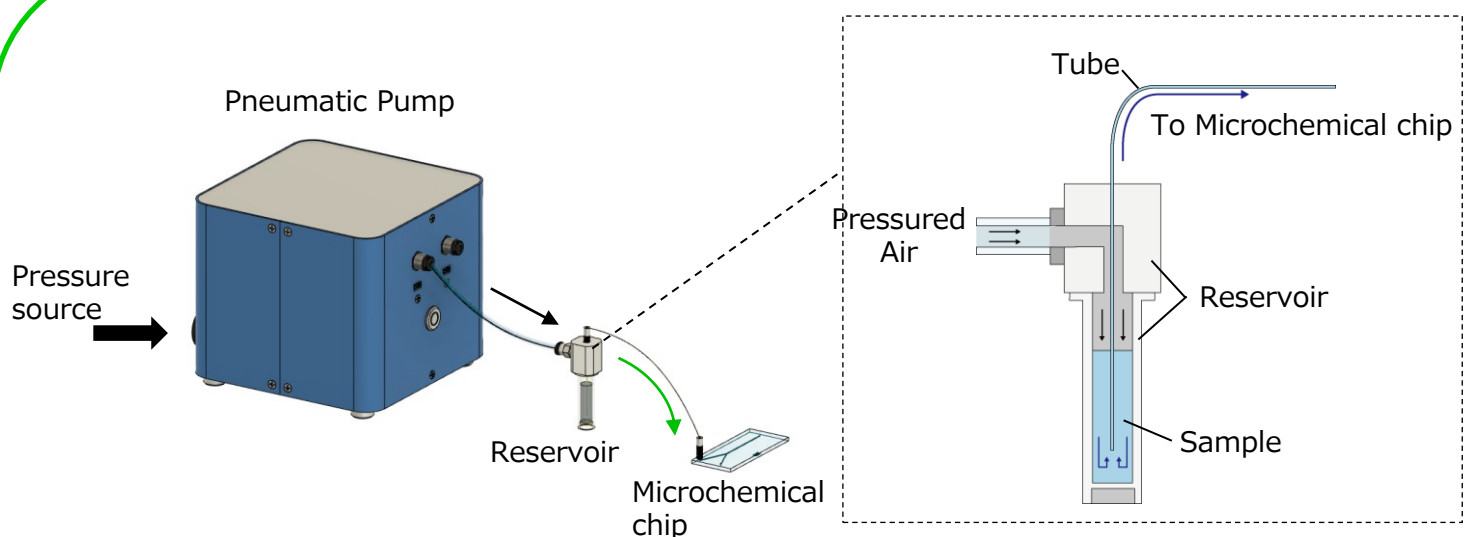
The Pneumatic pump, which is essential for microfluidics experiments, has been improved from the researcher's point of view and developed as an original IMT's product.



## Product Features

- ① 2ch pump by the air pressure-controlled
- ② Pressure range can be customized from 100 to 8000 mbar depending on user's request
- ③ The reservoir size can be up to 0.5 to 250 mL.
- ④ IMT original flow meter support
- ⑤ Easy to operate the program motion by control software
- ⑥ Software control provides two pressure modes (quick response, high stability)

## Principles of operation and features



This product is a pump that controls air pressure and sends liquid to Microchemical chip. The air pressure from the pressure source is precisely adjusted inside the pump, and the sample in the reservoir is sent to the Microchemical chip at the target pressure. It is characterized by being able to perform experiments with less pulse flow and quick response by the liquid flow by air pressure. Air pressure control is operated by the PC's control software, "IMT Fluics Control (IFC)". This software enables two control modes (high response, high stability), Automate functions(script module), linkage with 1-10-way rotary valve (sold separately) and flow meter (sold separately).



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# Specifications and operating environment

## Specifications

	IAP-1000	IAP-8000
Pressure range [mbar]	0-1000	0-8000*
Pressure resolution [mbar]	1	10
Pressure sensor response time [ms]	2.5	2.5
Control unit machine Reproducibility[CV]	0.0013%	0.02%
Number of Channels	2ch	2ch
Usage environment	RT~50°C	RT~50°C
Dimensions [mm]	W143xd143xh127 (Exclude protrusions)	W143xd143xh127 (Exclude protrusions)
Weight. [kg]	1.1	1.1

\* Max 8000mbar (Depends on the pressure source)

## Operating environment

【PC】	DOS/V compatible PC with Windows 7 or 10 OS installed
【Communication port】	USB 2.0 port or higher 2 ports
【Memory】	4GB or greater
【HDD】	1GB or greater free space.
【Monitor】	Monitor capable of displaying resolutions higher than 1920 x 1080
【Power】	AC100V

## Options

Reservoir	4 sizes from 0.5 to 250 mL
Flow meter	3 ranges from 7 to 1000 $\mu\text{L}/\text{min}$

\*Product specifications can be changed without notice such as shape, color, etc.



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