

TOSHIBA

Compact ink re-circulation system

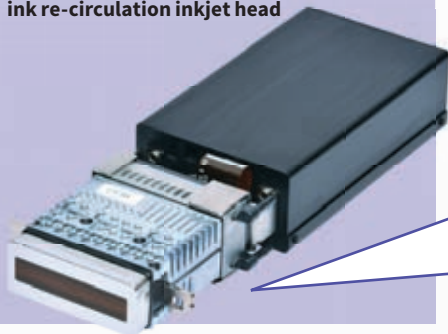
CC1

**Realize world's smallest · lightest*
Compact and light-bodied
ink re-circulation system with
all necessary functions prepared**

- Employ all necessary functions, - the control of ink temperature, flow rate and meniscus pressure
- Dedicated control software enables ink re-circulation in combination with inkjet head model CF1 and CF3/3R
- Eco-friendly ink re-circulation system reducing ink wastage at evaluation

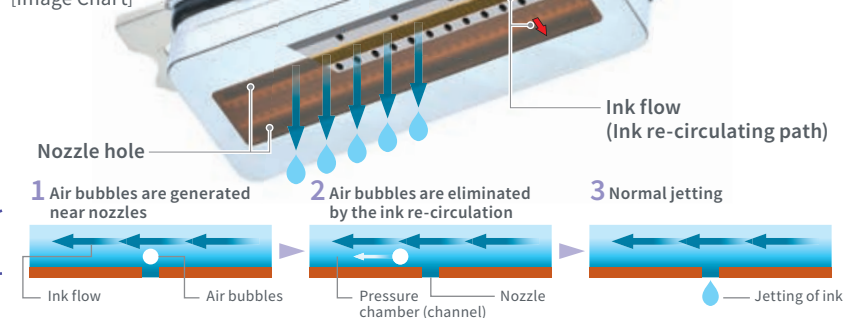
* Internal investigation as of October, 2018
All-in-one operation by directly mounting the compact ink re-circulation system onto the inkjet head incorporating pumps, sensors and control board

Direct connection with CF1/CF3 series ink re-circulation inkjet head



Mechanism of ink re-circulating through all channels

[Image Chart]



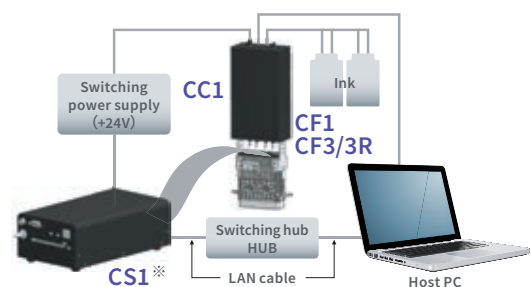
Example: Mounting of ink re-circulation system [CC1] and ink re-circulation head

Up to 2 colors of ink re-circulation per 1 system (300npi)

CC1 series	CC1-TP		CC1-SP
	Dual re-circulation configuration		Single re-circulation configuration
Inkjet head	CF3 series (600npi:1 color/300npi:2 colors head)		CF1 series (300npi:1 color head)
	600npi 1color	300npi 2colors	300npi 1color
Example of configuration			

Example : configuration of evaluation system

Easy to configure evaluation system by direct connection with CF1/CF3 series and dedicated control software



* Inkjet head controller board for CF3
[Mounting of CC1 onto CF1/CF3 series requires auxiliary mounting tools.]

Specifications



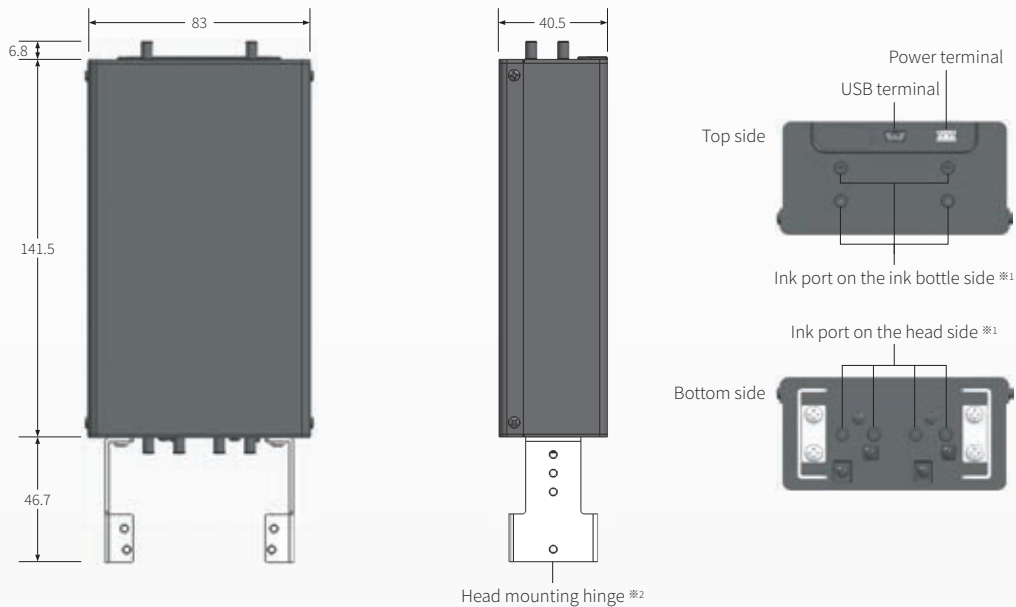
CC1-SP (Single Pump)

CC1-TP (Twin Pump)

Compatible Head	CF1B/CF1BL	CF3/CF3R/CF1BXL (CF1BXL is used with 1 re-circulation configuration)
Number of Circulation Flow Path Systems	Single system	Dual system
Ink Temperature Setting Range	Normal temperature to 60°C	
Heater	Included	
Ink-Warming Performance	Room temperature +20°C	
Circulation Flow Rate	50mL/min	CF3/3R:35mL/min CF1BXL:50mL/min
Meniscus Pressure Adjustment Range	0~-3.0kPa	
Minimum Circulating Ink Volume	20mL	
Power Supply	DC24V 3A or higher	
Environmental Conditions for Usage	5~35°C, 20~80%RH, with no condensation	
Ink Type	Conforms to the inkjet head (consult us for compatibility assurance)	
Size, Weight	83mm (W) x 40.5mm (D) x 141.5mm (H) (excl. boss) 280g	83mm (W) x 40.5mm (D) x 141.5mm (H) (excl. boss) 360g
Necessary Hardware for Customers	PC, Power Supply	
PC Connection Method	USB 2.0	
Operation Software	Windows 10 dedicated application	

※ The specifications above may change depending on the type of ink used.
 ※ The specifications above and appearance may change.

Dimensions (mm)



※1 Chart above is CC1-TP. The body dimension of CC1-SP is of the same size.
 ※2 Head mounting hinge is different depending on the head.

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