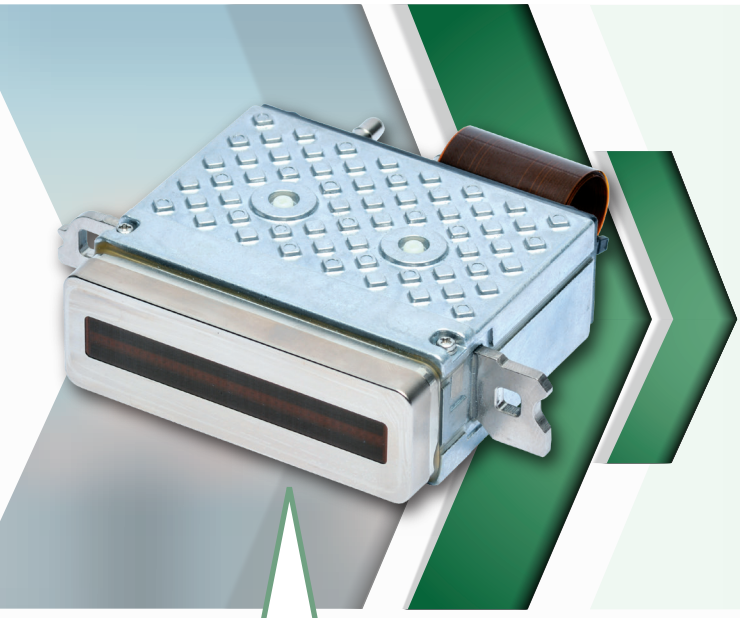
TOSHIBA

Ink recirculating type inkjet head

CF1B / CF1BL / CF1BXL 300npi

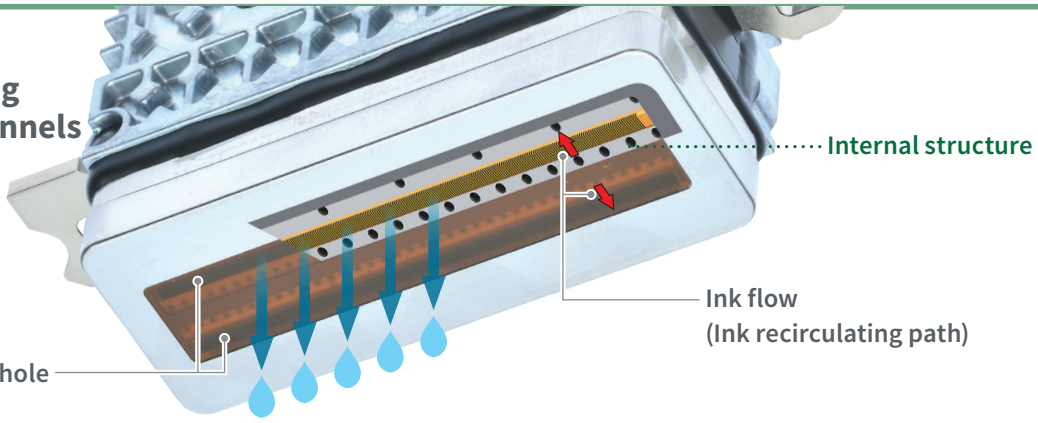


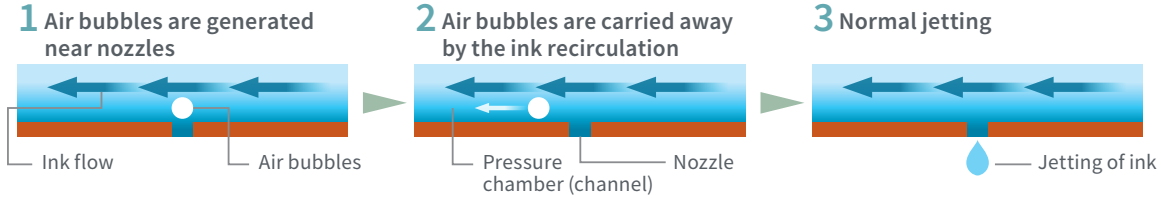
Ink recirculation through all channels Ensures high jetting reliability

- Suitable for jetting ink with **larger particle size and higher gravity**
- Controlling ink temperature by ink recirculating system **enables stable print quality**
- **Stable start-up after long downtime**
- Less necessity of maintenance reducing downtime and ink waste **resulting in low running cost and eco-friendliness**

Mechanism of ink recirculating through all channels

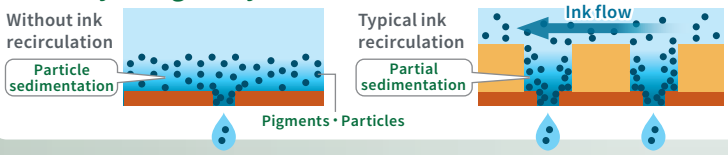
[Image Chart]



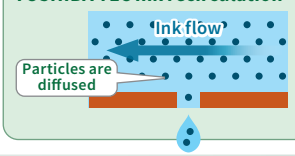


Feature of ink recirculation through all channels

Stable jetting of easily sedimenting ink with higher viscosity and gravity

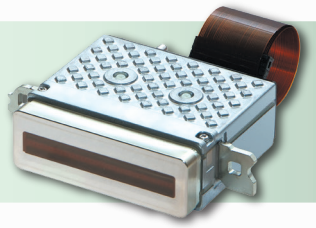


TOSHIBA TEC ink recirculation



- Ink is recirculated through all channels, preventing sedimentation and reducing nozzle blockages drastically.
- Because the ink path is simple, it is excellent at carrying away air bubbles or unwanted particles.

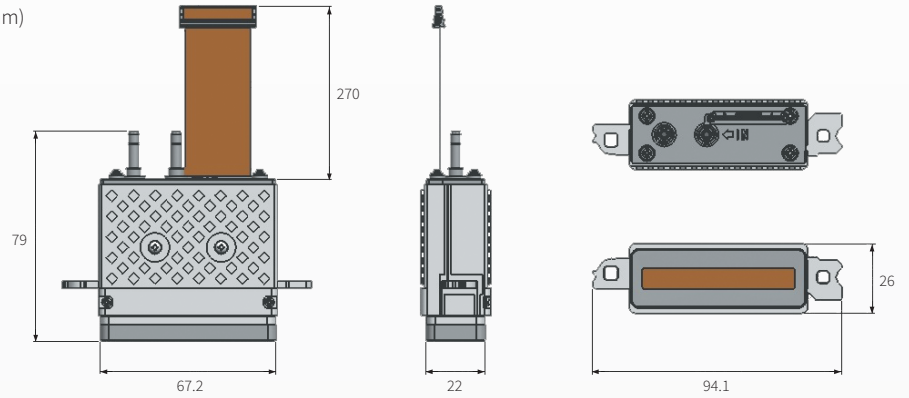
Specifications



	CF1B	CF1BL	CF1BXL
Print method	On-Demand piezo technology		
Ink recirculation structure	Ink recirculation through all channels		
Print width	53.7 mm		
Nozzles	636		
Nozzle resolution	300 npi		
Number of rows	2		
Nozzle spacing (Row to row distance)	4.64 mm		
Greyscale levels	8 levels/0～7 drops	4 levels/0,5,6,7 drops	7 levels/0～6 drops
Drop volume	6～42 pL	57～80 pL	36～180 pL
Frequency	4.97 kHz/7 drops	4.8 kHz/7 drops	4.8 kHz/6 drops
Ink type	UV-curing & oil-based (consult us for compatibility assurance)		
Built-in temperature sensor	Included		
Head cooling method	Air-cooling		
Size, weight	94.1 mm(W)× 26 mm(D)× 79 mm(H), 161 g		

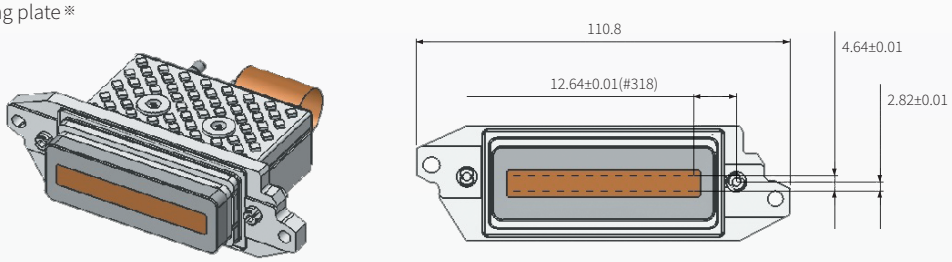
※Gradation levels and drop volumes depend upon the type of ink used. Maximum printing speed and linear frequency can be increased by reducing the number of drops per dot (dpd).
※Four different types of power supplies (: 5 V, 39 V and two units of 14-31 V) are required in order to drive head.
※The specifications above may be modified due to certain circumstances.

External dimensions (mm)



Weight:161g

With optional positioning plate※



Weight:185g

※A factory-fitted option enables easy and accurate head positioning with a precision of 10μm to the 1st nozzle.

TOSHIBA TEC CORPORATION

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