TOSHIBA

Ink recirculating type inkjet head

CF3/CF3R 600npi - 1 colour / 300npi - 2 colours

One-and-only industrial inkjet head having both 300npi/row (doubled from our previous model) and ink recirculation through all channels

- Inherits high jetting reliability and eco-friendliness enabled by ink recirculation through all channels
- Suitable for jetting ink with larger particle size and higher gravity
- Use of 2 colours in one head enabling the printer to be more compact
- Able to control drop volume per each nozzle, minimizing density variation

Mechanism of ink recirculating through all channels

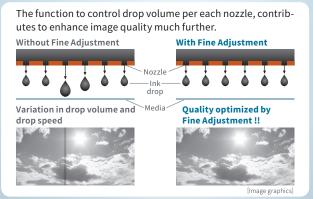
[Image Chart]

······ Internal structure

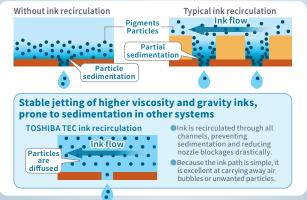
Ink flow
(Ink recirculation path)

Per each nozzle drop volume control (Fine Adjustment)

Nozzle hole



Feature of ink recirculation through all channels inkjet head



Specifications

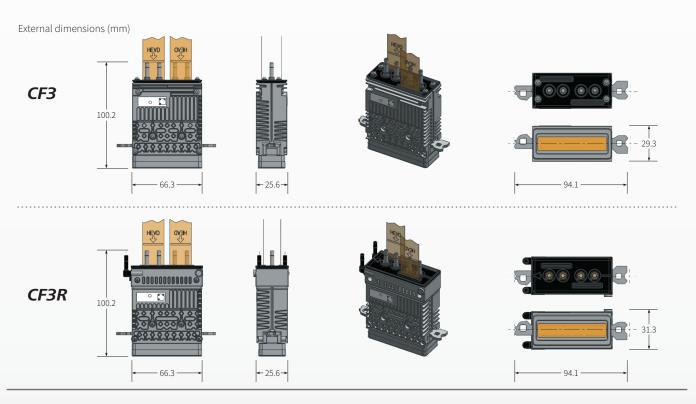


CF3/CF3R

	1 colour	2 colours
Print method	On-Demand piezo technology	
Ink recirculation structure	Ink recirculation through all channels	
Print width	53.95 mm	53.91 mm
Nozzles	1278	639
Nozzle resolution	600 npi	300 npi
Number of rows	2	
Nozzle spacing (row to row distance)	7.94 mm	
Greyscale levels	6 levels/0~5 drops	
Drop volume	20 pL/5 drops	
Minimum drop volume	3~4 pL	
Frequency	9.2 kHz/5 drops	
Ink types	UV-curing & oil-based (consult us for compatibility assurance)	
Built-in temperature sensor	Included	
Head cooling method	CF3: Air-cooling CF3R: Water-cooling (includes water cooling port)	
Size, weight	CF3: 96.7 mm(W)× 29.3 mm(D)× 100.7 mm(H), 255 g	CF3R: 96.7 mm(W)× 31.3 mm(D)× 100.7 mm(H), 285 g

CF3 is a native 600 npi head with 1st and 2nd row nozzles laterally offset from each other by 1/600°. Dot positions for 2 colors are offset accordingly.
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).
Six different types of power supplies (: 5 V, 24 V, two units of +7 ~ +15 V and two units of -7 ~ -15 V) are required in order to drive head.

* The specifications above may be modified due to certain circumstances.



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Inkjet Business Group

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