

# MUTOH

World-Class Inkjet Printers with Excellent Features

To the age of Sustainable Printing.

Specifications	ValueJet VJ-1304W	ValueJet VJ-1604W	ValueJet VJ-1618W	DrafStation RJ-900C Pro																						
Model Name	ValueJet VJ-1304W	ValueJet VJ-1604W	ValueJet VJ-1618W	DrafStation RJ-900C Pro																						
Printer Technology	Drop-on-demand Micro Piezo Inkjet Technology, 4-color print head: Y,M,C,K		Drop-on-demand Micro Piezo Inkjet Technology, 4-8 color print head: Y,M,C,K,Lc,Lm,Or,Gr	Drop-on-demand Micro Piezo Inkjet Technology, 4-color print head: Y,M,C,K																						
Print Head Nozzle Configuration	180 nozzles x 8 lines per one head		180 nozzles x 8 lines per one head x 2 print heads	180 nozzles x 8 lines per one head																						
Print Head Height Adjustment	1,2mm, 2,0mm (adjustable)	1,5mm, 2,5mm (adjustable)		1,3mm, 2,1mm (adjustable)																						
Ink Cartridge	MUTOH ValueJet Aqueous Ultra Inks			MUTOH ValueJet Aqueous Ultra Inks & DrafStation Aqueous CAD Inks																						
	4 colors (C,M,Y,K) and 4 cartridges		4-8 colors (C,M,Y,K,Lc,Lm,Or,Gr) and 8 cartridges	4 colors (C,M,Y,K) and 4 cartridges																						
	220ml cartridge (±5%)			MUTOH ValueJet Aqueous Ultra Inks : 220ml cartridge (±5%) MUTOH DrafStation Aqueous CAD Inks : 110ml cartridge (±5%)																						
Media Width	182-1,371,5mm	1,000-1,625mm		1,080mm (Maximum)																						
Media Thickness	0,01-0,3mm																									
Maximum Roll Media Weight & Roll Media Diameter	19kg, 150mm diameter(3inch Scroller)	30kg, 150mm diameter(3inch Scroller)		19kg, 150mm diameter(3inch Scroller)																						
Maximum Print Width	1,365,5mm	1,615mm		1,074mm																						
Print Margin	3-25mm (programmable) in the left and right, 3mm in the front and 17mm in the back	5-25mm (programmable) in the left and right, 5mm in the front and back		3mm in the left and right, 3mm in the front and 17mm in the back																						
Maximum Print Length(*1)	18m																									
Media Cutting Systems	Horizontal Auto Cutting System		—	Horizontal Auto Cutting System																						
Maximum Print Resolution	1440x1440dpi		1440x2880dpi																							
Print Modes	540x720dpi, 720x720dpi, 1440x720dpi, 1440x1440dpi		360x360dpi, 720x360dpi, 720x720dpi, 1440x720dpi, 1440x1440dpi, 1440x2880dpi																							
Multiple Print Modes / Resolutions Combination of Speed and Precision (*2)(*5)	Quality 1: 1440x1440dpi, 16pass(Uni-D)	Quality 1: 1.9 m²/h	Quality 1: 1.65 m²/h	Quality 1: 2.4 m²/h	<table border="1"> <thead> <tr> <th>Print Modes</th> <th>Time per A0</th> <th>Speed</th> </tr> </thead> <tbody> <tr> <td>360x360dpi, 1pass(Bi-D)</td> <td>1min 31s</td> <td>39.6 m²/h</td> </tr> <tr> <td>720x360dpi, 1pass(Bi-D)</td> <td>3min 16s</td> <td>18.4 m²/h</td> </tr> <tr> <td>720x720dpi, 2pass(Bi-D)</td> <td>5min 35s</td> <td>10.7 m²/h</td> </tr> <tr> <td>1440x720dpi, 2pass(Bi-D)</td> <td>10min 3s</td> <td>6.0 m²/h</td> </tr> <tr> <td>1440x1440dpi, 4pass(Bi-D)</td> <td>22min 13s</td> <td>2.7 m²/h</td> </tr> <tr> <td>1440x2880dpi, 4pass(Bi-D)</td> <td>1h 37min 22s</td> <td>0.6 m²/h</td> </tr> </tbody> </table>	Print Modes	Time per A0	Speed	360x360dpi, 1pass(Bi-D)	1min 31s	39.6 m²/h	720x360dpi, 1pass(Bi-D)	3min 16s	18.4 m²/h	720x720dpi, 2pass(Bi-D)	5min 35s	10.7 m²/h	1440x720dpi, 2pass(Bi-D)	10min 3s	6.0 m²/h	1440x1440dpi, 4pass(Bi-D)	22min 13s	2.7 m²/h	1440x2880dpi, 4pass(Bi-D)	1h 37min 22s	0.6 m²/h
	Print Modes	Time per A0	Speed																							
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	1440x2880dpi, 4pass(Bi-D)	1h 37min 22s	0.6 m²/h																							
	Quality 2: 1440x720dpi, 8pass(Uni-D)	Quality 2: 3.43 m²/h (1440x1440dpi, 16pass(Bi-D)) (*3)	Quality 2: 3.30 m²/h	Quality 2: 4.9 m²/h																						
	Quality 3: 720x720dpi, 8pass(Uni-D)	Quality 3: 3.28 m²/h	Quality 3: 3.29 m²/h	Quality 3: 4.9 m²/h																						
Quality 4: 720x720dpi, 8pass(Bi-D)	Quality 4: 5.15 m²/h	Quality 4: 5.26 m²/h	Quality 4: 7.8 m²/h																							
Graphics 1: 720x720dpi, 8pass(Uni-D)	Graphics 1: 3.82 m²/h	Graphics 1: 3.80 m²/h	Graphics 1: 5.7 m²/h																							
Graphics 2: 720x720dpi, 8pass(Bi-D)	Graphics 2: 6.73 m²/h	Graphics 2: 6.89 m²/h	Graphics 2: 10.3 m²/h																							
Banner 1: 540x720dpi, 6pass(Uni-D)	—	Banner 1: 5.03 m²/h	Banner 1: 7.5 m²/h																							
Banner 2: 540x720dpi, 6pass(Bi-D)	Banner 2(*1): 8.76 m²/h	Banner 2: 9.00 m²/h	Banner 2: 13.5 m²/h																							
Banner 3: 720x720dpi, 4pass(Uni-D)	—	Banner 3: 6.54 m²/h	Banner 3: 9.8 m²/h																							
Banner 4: 720x720dpi, 4pass(Bi-D)	Banner 4(*2): 12.88 m²/h	Banner 4: 13.19 m²/h	Banner 4: 19.7 m²/h																							
Interfaces	Ethernet 100BASE-TX/10BASE-T			USB2.0 & Ethernet 100BASE-TX/10BASE-T																						
Printer language	MH-RTL pass			HP-GL, HP-GL2 & MH-RTL Pass																						
Memory	128MB			256MB																						
Take-up Roll / Media Feeder System	Optional (Take-up Roll, Maximum Roll Media Weight: 30kg)																									
Accessory (Typical)	AC Cable, CD(User guide), Hard Copy(Setup guide & Quick guide), 3 inch Scroller, Cleaning Kit, etc																									
Power Supply	AC100-120V/AC220-240V Auto changeable, 50/60Hz ±1Hz																									
Power consumption	Operation	135W	150W	900W																						
	Low Power Mode	20W	71W	100W																						
	Power OFF	1W or less																								
Noise Level	70dB or less (*A Characteristic Sound Power Level) (*4)	50dB or less		53 dB or less																						
Operating Environment	Temperature: 20-32°C, Humidity: 40-60% (no condensation)																									
Certification	MET(USA), CE(EU), FCC(USA), VCCI(Japan), RoHS(EU), CB REPORT																									
Machine Dimensions (WxDxH)	1,905mmx685mmx1,218mm	2,698mmx845mmx1,262mm	2,968mmx984mmx1,262mm	1,766mmx662mmx1,218mm																						
Packaging Dimensions	Printer (WxDxH)	2,035mmx765mmx585mm	2,905mmx830mmx1,005mm	2,905mmx830mmx1,005mm	2,008mmx764mmx581mm																					
	Stand (WxDxH)	1,510mmx435mmx260mm	2,177mmx395mmx260mm	2,277mmx395mmx260mm	1,510mmx435mmx260mm																					
Machine Weight	80.3kg	173kg	230kg	94.1kg																						
Packaging Weight	118kg	246kg	303kg	120kg																						

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 (\*1) Maximum Print Length varies with the conditions such as print data size, computer, application software, interface, All maximum print length is measured by Mutoh Industries Ltd.  
 (\*2) All print speeds vary with the conditions such as print mode(wave mode, fine wave mode, super fine wave mode, fuzz mode), print data size, computer, application software, interface, All print speeds are measured by Mutoh Industries Ltd.  
 (\*3) Quality 2 mode of VJ-1304W changes from 1440x720dpi, 8pass(Uni-D) to 1440x1440dpi, 16pass(Bi-D), Print modes of VJ-1304W changes from 10 modes to 8 modes.  
 (\*4) 'A' characteristic sound power level is different from the previous noise level. The new level is bigger +11dB/m than the previous level.  
 (\*5) The print speed of VJ-1618W is mentioned as installed four color double mode.

Ink Series	Ink Type	SN	Ink	ValueJet Aqueous Series			DrafStation Series		
				VJ-1304W	VJ-1604W	VJ-1618W	RJ-901C	RJ-900C	RJ-900C Pro
Aqueous Ultra Inks	Dye Ink	70816	RJ-FGINKS-BK2	○	○	○			○
		70817	RJ-FGINKS-CY2	○	○	○			○
		70818	RJ-FGINKS-MA2	○	○	○			○
		70805	RJ-FGINKS-YE2	○	○	○			○
		70806	RJ-FGINKS-LC2	○	○	○			○
	Pigment Ink	70807	RJ-FGINKS-LM2	○	○	○			○
		70808	RJ-FGINKG-BK2	○	○	○			○
		70809	RJ-FGINKG-CY2	○	○	○			○
		70810	RJ-FGINKG-MA2	○	○	○			○
		70811	RJ-FGINKG-YE2	○	○	○			○
Aqueous CAD Inks	Cleaning Cartridge	70812	RJ-FGINKG-LC2	○	○	○			○
		70813	RJ-FGINKG-LM2	○	○	○			○
		70814	RJ-FGINKG-OR2	○	○	○			○
		70815	RJ-FGINKG-GR2	○	○	○			○
		70819	RJ-FGCLS	○	○	○			○
		71065	RJ9-INKBK				○	○	○
Aqueous CAD Inks	Cleaning Cartridge	71066	RJ9-INKC				○	○	○
		71067	RJ9-INKM				○	○	○
		71068	RJ9-INKY				○	○	○
		71120	RJ9-INK CL				○	○	○



# MUTOH

**Safety Precautions**  
 Before the use of our products, please read the entire Operations Manual to ensure safe operations.

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LARGE FORMAT INKJET PRINTER  
**ValueJet Aqueous Series**

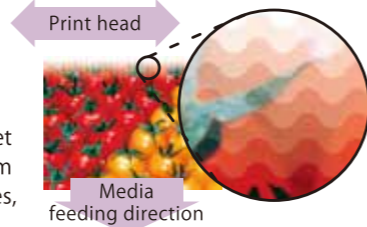
# ValueJet Aqueous Series: Environment-Conscious and Beautiful

The MUTOH ValueJet Aqueous series is a wide-format inkjet printer using aqueous ink, with optimal performance for indoor sign printing. High performance is guaranteed in all aspects.

## Beauty

### Horizontal banding on print made invisible with wave print and fuzz print functions

Inkjet printers print in a collection of thin horizontal banding, which is made invisible in the ValueJet Aqueous Series. Using MUTOH's original print function "wave print," the image is printed in a waveform unlike conventional printers that print in a straight line. The "fuzz print" function diffuses boundary lines, which prevents ink from bleeding, allowing deeper colors to be achieved.



## Speedy

### High productivity with high speed

With the new type of print head installed, VJ-1304W and VJ-1604W attain a maximum print speed of 13 m<sup>2</sup>/h, responding to the consumer demands for small quantity/large variety/short delivery times. VJ-1618W has two print heads installed and can achieve a maximum speed of 20 m<sup>2</sup>/h, which is almost double the speed of conventional printers.

## Ecology

### Implementing special ink with low environmental load

MUTOH's Aqueous Ink is a high performance ink friendly to the office environment with high chromogenic properties. It has little odor characteristic of organic solvents, increasing the comfort of workers indoors. With lamination, its high quality is weather-resistant for approximately 1 year.



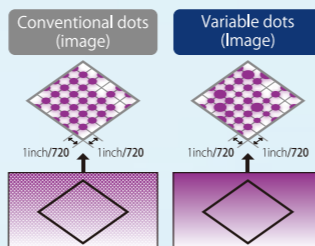
### Auto Take-up Roll System enabling continuous operation

An Auto Take-up Roll System, which is essential for continuous printing of large quantities of small- or large-sized prints is included as optional feature. Stable roll-in is realized on various media through the MUTOH tension bar system.



### Optimal print quality of 1440 dpi, which is essential for indoor signs

The MUTOH ValueJet Aqueous series printers have a maximum print resolution of 1,440 dpi. These printers use variable dot technology allowing smooth gradation, realizing beautiful prints equivalent to 6-color print using only 4 colors.



### Easy Print Head maintenance is made possible with maintenance station

A maintenance station is installed so that print heads can be maintained easily, improving the work efficiency.  
\* Except for DrafStation RJ-900C Pro



### Easy media cutting is made possible with horizontal cutter

A horizontal cutter is installed (except for VJ-1618W) so that print media can be retrieved easily, improving the work efficiency.



# Considering beyond beauty: Global environment-conscious inkjet printers from MUTOH



## VJ-1304W

Compatible with popular media with a width of 1370 mm. With comfort, beautiful results are achieved using environment-conscious "Aqueous Ultra Inks."

## VJ-1604W

Compatible with media with a maximum width of 1625 mm. Using quick drying environment conscious "Aqueous Ultra Inks." Beautiful print is guaranteed in a short time.



## VJ-1618W

Two high-speed print heads are installed, guaranteeing beautiful printing with short delivery times. Compatible with media with a maximum width of 1625 mm. Compatible with Aqueous Ultra Inks, making the work environment more comfortable.

## DrafStation RJ-900C Pro

A0 CAD images printed in 91 seconds.  
(A1 CAD images printed in 44 seconds.)  
Compatible with media with a maximum width of 1080 mm.

