



VP700

VP700 Colour Label Printer

Comparisson between VIPColor VP700 and Epson C7500

Lower Ink Usage + Higher Versatility

A. Ink Usage

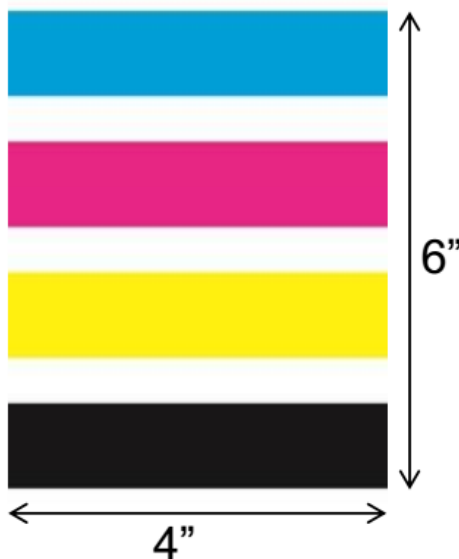
In a side-by-side comparison, the VIPColor VP700 Colour Label Printer uses less ink by significant margins and provided a considerable cost per label savings.

VIPColor VP700 does have a higher ink price than Epson. But **VP700's ink usage is much lower** than Epson, **up to x3 times lower**.

Based on Memjet benchmarking test, the results shows an important advantage of VIPColor VP70 powered by Memjet, versus Epson C7500:

- Yield testing for both products began with the printer primed and in the "Ready" state. Priming tanks were removed. New tanks were then inserted into the unit and printing began.
- All VP700 printing was on 215,9mm (8,5") media using default settings of 304 mm/s (12 ips), with default VP700 maintenance settings. This included "Matte" media driver setting to mimic Epson's default setting.
- Epson printed one up on max print width limitations. VP700 printed x2 up utilizing the full width of the printhead.

Ink Coverage: 45%



As reference :

	Ink Coverage: 40.00% 6x4
	Ink Coverage: 60.00% 6x4
	Ink Coverage: 64.00% 4x4
	Ink Coverage: 72.00% 6x4



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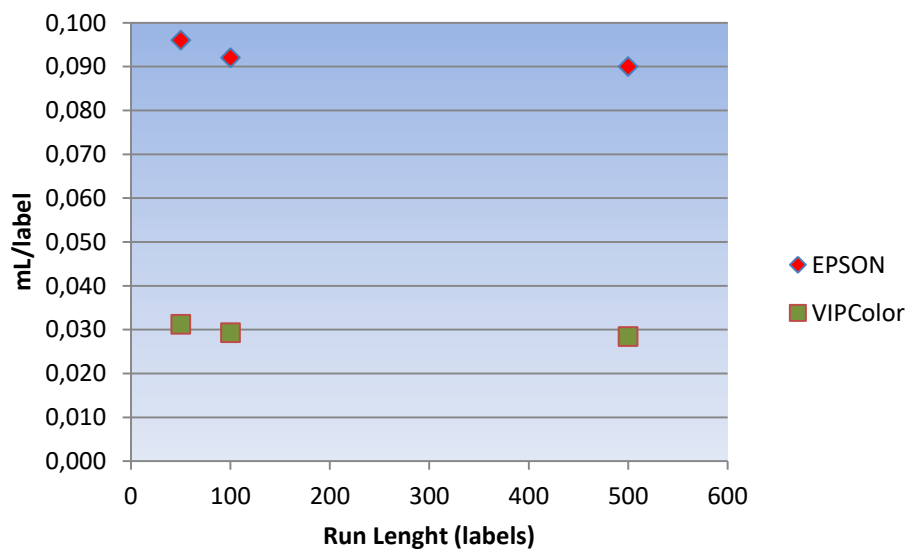
VP700 Ink usage (printing + maintenance/cleaning)

50 labels/job = 0,0312 ml

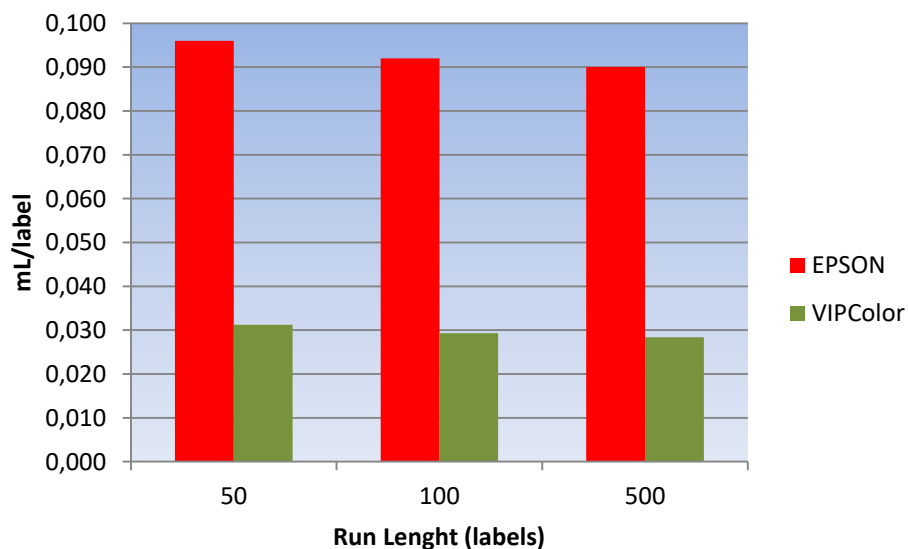
100 labels/job = 0,0293 ml

500 labels/job = 0,0284 ml

EPSON has Higher Ink Usage



Reality Based on Ink Usage





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VIPColor VP700

- VP700 ink tanks printed an average between all colors of between 49K-52K labels for test runs of 50, 100, 500 job size. The average ml per label was **.029 ml**

Epson ColorWorks C7500

- Epson ink tanks printed an average between all colors of between 13K-14K labels for test runs of 50, 100, 500 job size. The average ml per label was **.093 ml** or **+221% greater than VP700**
- Epson product uses significantly more ink per label vs. VP700 for all batch job sizes.

B. Product Specifications Comparisson

	VIPColor VP700	Epson C7500
Max. Print Resolution	1600x1600 dpi	600x1200 dpi
Max. Printable Width	215,9 mm	110 mm
Max. Print Speed	300 mm/s (18 m/min)	300 mm/s (18 m/min)
Max. Label Lenght	1.048 mm	301,8 mm
Ink Type	Dye	Pigment
Printhead	Replaceable by the user	Permament



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Summary:

Printing Specs/Criteria	VIPColor VP700	Epson C7500
Ink Cost per Page / TCO	✓	
Maximum Print Speed	✓	
Print Resolution	✓	
Ink Chemistry: Gamut, adherence to Glossy	✓	
Ink Chemistry: Adherence to Glossy	✓	
Ink Chemistry: Permanence	✓	✓
Maximum Printable Width	✓	
Job Time Completion (factoring in maintenance)	✓	
Accessibility to Different Media Types	✓	
Less ink wasted	✓	
Print head life	Replaceable ✓	Permanent
Ease of PH Replacement	✓	

..... In total, Memjet's technology offers the customer more flexibility with a more consistent cost per label !



Higher quality with less streaking

VIPColor VP700's astonishing 70.400 inkjet nozzles deliver higher quality printing with less intermittent streaking.

Epson has 12.800 inkjet nozzles. ▮

More flexibility & Versatility

Print a wider variety of label sizes using the VP700's impressive 8,77-inch print width—over double the size of the Epson.

Epson has 4,25 inches only.



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C. Printhead analysis

Nozzle Blockages

Streaks Happen

Unreliable Detection

Permanent PH

Loss of Productivity

Not If But When!

- Although Piezo nozzles last many billions of actuations, blocked nozzles still happen as a result of external contamination and ink dehydration.
- This risk is even increased due to the underutilization of the printhead within the Epson system
- Epson talks openly about blocked nozzles and what their system does about it! This is a normal element of inkjet printing

http://global.Epson.com/innovation/topics/201504_03.html

Nozzle Blockages

Streaks Happen

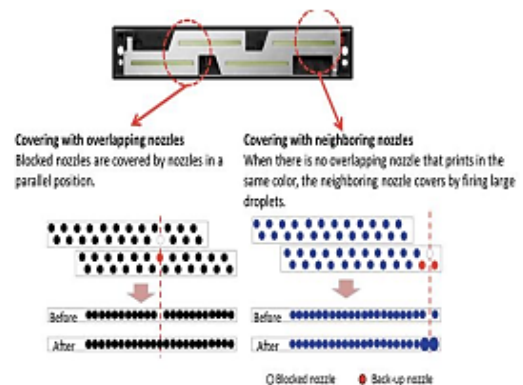
Unreliable Detection

Permanent PH

Loss of Productivity

Printhead Structure Vulnerable to Visible Streaks

- At 600dpi a blocked nozzle is visible to the human eye and must be dealt with!
- Most of the Epson nozzle structure lacks redundant nozzles to take over for blocked nozzles
- When a blocked nozzle is detected, Epson increases the size of adjacent nozzles to compensate.
- When two adjacent nozzles are blocked, Epson has no solution and the streak is permanent.



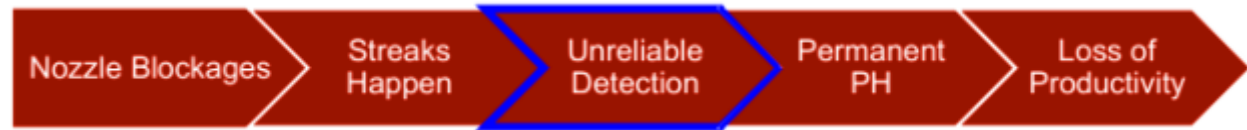
... VIPColor VP700 has 1600 dpi, streaks only become visible if 2 to 3 adjacent nozzles become blocked. This equals built in redundancy for every nozzle



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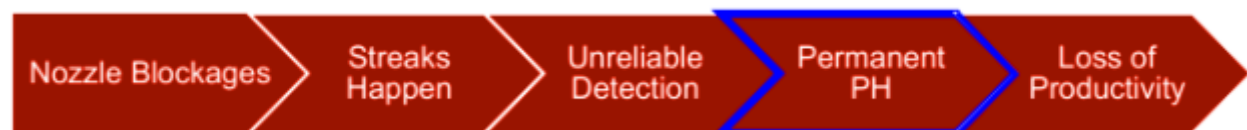
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Why Can't you fix it?

- Epson's indirect "listening" method for detecting blocked nozzles is known in the industry to be hard to implement and ineffective.
- Blocked nozzles can only be fixed if they are detected. Expert estimates assume that nozzle out detection happens less than 50% of the time.*
- When nozzles are not detected or there are two adjacent nozzles blocked, there is no way to fix the related streak!
- Expert estimates show that approximately 10% of Epson C7500 will experience an unrecoverable single nozzle streak in 3 months. Intermittent weak and missing jets will occur at about a 1% rate on an ongoing basis. Coupled with a detection rate of 50% or less suggests ~1% of the jets will fail intermittently throughout a job creating ongoing streaks*

... With Memjet's dye-based inks, blocked nozzles are easy to recover during maintenance spits and wipes. As a result, most Memjet streaks are transient



Now What?

- Epson's PH is certainly not user replaceable.
- Even a service technician would require multiple hours to replace a streak ridden printhead.
- PH replacements are difficult, costly and likely require boxing up and returning/exchanging the device.
- Whether Epson pays or not, this is a huge inconvenience to end users, and untenable for critical print processes.

... Memjet specifically designed their PHs to be easily replaceable by the end user. Replacement is easy (< 5 minutes), and cost effective



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This Affects your Business

- Downtime with your printer results in a disruption to your operations
- It is imperative that you have a printer that can not only keep up with your operations, but also have a viable backup plan when things go wrong It is here where the Epson C7500 falls short.
- Things will go wrong, and in order to keep things running smoothly you need to be able to quickly get your printer back up and running
- A drop in productivity can result in money lost and customers affected !

... VIPColor VP700 PHs are not only fast, but also extremely easy to replace resulting in no significant disruption in your operations



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