

ISO/IEC 24734 Printing Productivity Report: Office Category
 ISO/IEC 29183 Copying Productivity Report
 ISO/IEC 17629 First Page Out Time Report

Full Detailed Test Reports
 HP Ink Tank 310 series Deskjet series

Printing device and test settings	
Test Start Date and Time	07/18/17 8:30:00 AM
Tester	Kevin Ting
Machine product number	Z4804A
Machine name/model	HP Ink Tank 310 series Deskjet
FW Version	KGM1FN1725BR
Colour or B&W	Color
Temperature and humidity	22-16 degrees, 5% humidity
Voltage	240V
Test End Date and Time	07/21/17 5:30:00 PM

Item	Value
Driver version	Build 2317
Media / Quality Setting	Plain/Normal
Simplex B&W settings	Black ink only
Duplex B&W settings	Black ink only
Setting N set count	Application
Collate function	Yes
Paper Path	Paper sending direction: Default
	Paper size setting: Default
	Paper feeding: Standard cassette
	Paper exit: Standard exit tray
Output orientation	Face up, Portrait
Duplexing ADF Unit	No
Duplexing Print Unit	No
Paper	Paper Manufacturer: Print: HP Copy: HP
	Weight: Print: 80gsm Copy: 80gsm
	Size: Print: A4 Copy: A4
	Paper type/name: Print: HP Everyday Media Copy: HP Everyday Media

ISO/IEC 24734		
Color	FSOT (seconds)	ESAT (gpm)
Single Sided	62	5
Two Sided	N/A	N/A
B&W	38	8
Two Sided	N/A	N/A

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute
 2) For Simplex B&W results, Black ink only
 3) For Duplex B&W results, Black ink only
 4) Scale content for A4 for 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183		
Color	FCOT (seconds)	sESAT (gpm)
B&W	15	8.5

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629		
Color	Simplex	FPOT From Ready (sec)
B&W	Simplex	14

Notes: 1) For B&W results, Black ink only

ISO/IEC 24734		Office Category	FSOT (sec)	EFTP (gpm)				sESAT (gpm)
Color	Single Sided	PDF (# sets)	Word (# sets)	1 Set	1 Set + 30 seconds	1 Set + 4 Minutes	6	
				70.00	3.00	3.00		3.00
Color	Two Sided	PDF (# sets) <td rowspan="2">Word (# sets) <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>8.70</td> </td>	Word (# sets) <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>8.70</td>	1	2	3	4	8.70
				36.00	1.00	1.00	1.00	3.30
Color	Average	PDF (# sets) <td rowspan="2">Word (# sets) <td>62</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>5</td> </td>	Word (# sets) <td>62</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>5</td>	62	N/A	N/A	N/A	5
				77.00	N/A	N/A	N/A	N/A
Color	Two Sided	PDF (# sets) <td rowspan="2">Word (# sets) <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </td>	Word (# sets) <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	N/A	N/A	N/A	N/A	N/A
				N/A	N/A	N/A	N/A	N/A
Color	Average	PDF (# sets) <td rowspan="2">Word (# sets) <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </td>	Word (# sets) <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	N/A	N/A	N/A	N/A	N/A
				N/A	N/A	N/A	N/A	N/A
B&W	Single Sided	PDF (# sets) <td rowspan="2">Word (# sets) <td>42.00</td> <td>6.00</td> <td>6.00</td> <td>6.00</td> <td>6.40</td> </td>	Word (# sets) <td>42.00</td> <td>6.00</td> <td>6.00</td> <td>6.00</td> <td>6.40</td>	42.00	6.00	6.00	6.00	6.40
				29.00	1.00	1.00	1.00	11.10
B&W	Two Sided	PDF (# sets) <td rowspan="2">Word (# sets) <td>42.00</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td>6.80</td> </td>	Word (# sets) <td>42.00</td> <td>1.00</td> <td>1.00</td> <td>1.00</td> <td>6.80</td>	42.00	1.00	1.00	1.00	6.80
				38	N/A	N/A	N/A	8
B&W	Average	PDF (# sets) <td rowspan="2">Word (# sets) <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </td>	Word (# sets) <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	N/A	N/A	N/A	N/A	N/A
				N/A	N/A	N/A	N/A	N/A

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute
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FDIS ISO/IEC 29183		FCOT (sec)	1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	sESAT (gpm)
Color	Page 1 (# copies)	36.60	1.00	1.00	3	2.00
	Page 2 (# copies)	23.70	2.00	3.00	3	3.70
	Page 3 (# copies)	52.60	1.00	2.00	3	2.20
	Page 4 (# copies)	42.90	1.00	1.00	3	1.50
Black	Page 1 (# copies)	14.90	4.00	5.00	1	6.00
	Page 2 (# copies)	11.70	5.00	6.00	1	9.30
	Page 3 (# copies)	13.70	4.00	5.00	1	6.90
	Page 4 (# copies)	18.50	3.00	4.00	1	4.50
Black	Average (# copies)	16	4	6	1	6.0

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629		FPOT from Ready (sec)	FPOT from Sleep (sec)	Recovery Time (sec)
Color Simplex	PDF	20.50	25.50	5.00
	Word	13.50	18.50	5.00
	Excel	19.00	24.00	5.00
	Average	18.00	23.00	5.00
B&W Simplex	PDF	12.60	18.60	6.00
	Word	11.60	17.60	6.00
	Excel	12.80	18.80	6.00
	Average	14.00	19.00	6.00

Notes: 1) For B&W results, Black ink only
 2) FPOT from Sleep Average = FPOT from Ready Average + Recovery Time
 3) Scale content for A4 for 8.5x11 paper sizes set to off for Word and Excel

Test system parameters		Item	Value
Test System	Computer	HP Envoy 15 Notebook	
	Processor	Intel Core i5-4210U 1.70GHz	
	System Disk Set	Intel Chipset	
	System Board	229A	
	System Memory	8GB 1600MHz DDR3L	
	Hard Drive subsystem	HGST 200GB of storage	
	Video subsystem	Intel HD graphics	
	Optical Drive	HP DVDRW G8-B0N	
	IO subsystem	Built in	
	USB subsystem	USB 2.0/3.0	
I/O	Printer Connection	USB 2.0	
	Operating System	Microsoft Windows 8.1 Multi Language 64 E-d	
Software	Printing Applications	Microsoft Office Word 2013 64-bit SP1	
		Microsoft Office Excel 2013 64-bit SP1	
		Adobe Reader X 11.0.10	
Test Files and location		Office Category files, hard drive	