



# Technical specifications

Print	
Print speed	24-in: Fast: 55.7 m <sup>2</sup> /hr on plain media Normal: 13.4 m <sup>2</sup> /hr on coated media Best: 3.5 m <sup>2</sup> /hr on glossy media 44-in: Fast: 71.4 m <sup>2</sup> /hr on plain media Normal: 17.2 m <sup>2</sup> /hr on coated media Best: 4.5 m <sup>2</sup> /hr on glossy media <sup>1</sup>
Print resolution	Up to 2400 x 1200 optimized dpi
Technology	HP Thermal Inkjet
Margins	Roll: 5 x 5 x 5 mm (borderless on selected media <sup>3</sup> , or on all media with V-Trimmer <sup>4</sup> ) Sheet: 5 x 17 x 5 x 5 mm
Ink types	Pigment-based
Ink drop	7/3 pl dual-drop weight (M, C, PK, CB, G); 6 pl single-drop weight (Y, CR, MK, CG)
Printheads	5 universal printheads (valid for all colors)
Printhead nozzles	2112 per color
Line accuracy	±0.1% <sup>5</sup>
Minimum line width	0.02 mm (PDF addressable @ 1200 dpi)
Color accuracy	Median < 1.6 dE2000, 95% of colors < 2.8 dE2000 <sup>7</sup>
Short-term color stability	< 1 dE2000 in less than 5 minutes <sup>8</sup>
Long-term print-to-print repeatability	Average < 0.5 dE2000, 95% of colors < 1.4 dE2000 <sup>8</sup>
Max optical density	4 L* min/2.5 D <sup>9</sup>
Media	
Handling	Single-roll: Roll feed, top sheet feed, rear sheet feed for rigid media, media output bin, automatic horizontal cutter Dual-roll: Two automatic roll feeds, smart roll-switching, top sheet feed, media output bin, automatic horizontal cutter and vertical trimmer (cuts all HP Z-series printer-qualified media, including most canvas)
Roll size	24-in: 279 to 610-mm 44-in: 279 to 1118-mm
Sheet size	24-in: 210 x 279 to 610 x 1676 mm 44-in: 210 x 279 to 1118 x 1676 mm
Standard sheets	24-in: A4, A3, A2, A1 44-in: A4, A3, A2, A1, A0
Grammage	80 to 500 g/m <sup>2</sup>
Thickness	Up to 0.8 mm
Applications	Digital fine art; Exhibition and event graphics; Graphics design; Photos; Point of sale/display; Posters
Memory	128 GB (virtual) <sup>9</sup>
Hard disk	500 GB self-encrypting
Connectivity	
Interfaces	Gigabit Ethernet (1000Base-T) (802.3, 802.3u, 802.3ab); Hi-Speed USB 2.0 certified interface for direct printing from USB flash drive
Print languages (standard)	Adobe PostScript 3, Adobe PDF 1.7, TIFF, JPEG, CALS G4, HP-GL/2, HP-RTL
Printing paths	Apple AirPrint, direct printing from USB flash drive, email printing, HP Click, HP driver for macOS, HP driver for Windows, HP driver for Linux, printing support for Chrome OS, HP Print Service Plugin for Android, HP Smart app for iOS and Android, HP SmartStream
Drivers	Raster and PostScript drivers for Windows and macOS PDF driver for Windows 8 and above
Security features	
	HP Secure Boot, Whitelisting, Role Based Access Control, SNMPv3, HTTPS, Secure-IPP, IPsec/Firewall, Certificates management, 802.1X, TLS 1.0/1.1/1.2, HP Web Jetadmin compatible, HP JetAdvantage Security Manager compatible, Secure Disk erase (DoD 5220.22-M), Secure File erase, self-encrypted HDD, PIN printing
Dimensions (w x d x h)	
Printer	24-in: 1293 x 695 x 998 mm 44-in: 1802 x 695 x 998 mm
Shipping	24-in: 1440 x 766 x 718 mm 44-in: 1950 x 766 x 718 mm
Weight	
Printer	72-98 kg
Shipping	102-137 kg
What's in the box	
	HP DesignJet Z9+ PostScript Printer; printheads; introductory ink cartridges; printer stand and media bin; spindle; 3-in core adapter <sup>10</sup> ; quick reference guide; setup poster; power cord
HP Software and solutions	
	Printer drivers, HP Click, HP Web Jetadmin, HP JetAdvantage Security Manager, HP DesignJet Utility including HP Color Center, HP Partner Link Pay-per-use, HP MPS
Environmental ranges	
Operating temperature	5 to 40°C
Operating humidity	20 to 80% RH
Storage temperature	-25 to 55°C
Acoustics	
Sound pressure	42-45 dB(A) (operating), 33 dB(A) (idle), <16 dB(A) (sleep)
Sound power	6.0-6.3 B(A) (operating), 5.1 B(A) (idle), <3.4 B(A) (sleep)
Power	
Consumption	< 100 W (printing); < 32 W (ready); < 0.3 W (< 6.5 W with embedded Digital Front End) (sleep); 0.1 W (off)
Requirements	Input voltage (auto ranging): 100-240 V (±10%), 50/60 Hz (±3 Hz), 2 A max
Certification	
Safety	USA and Canada (CSA certified); EU (LVD and EN 60950-1 compliant); Russia, Belarus, Khazakstan (EAC); Singapore (PSB); China (CCC); Argentina (IRAM); India (BIS)
Electromagnetic	Compliant with Class B requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI), Korea (KCC), South Africa (SABS)
Environmental	ENERGY STAR; ErP; WEEE; RoHS (EU, China, Korea, India); REACH; EPEAT Silver
Warranty	One-year limited hardware warranty

# Ordering information

Product	
W3Z71A	HP DesignJet Z9+ 24-in PostScript Printer
W3Z72A	HP DesignJet Z9+ 44-in PostScript Printer
X9D24A	HP DesignJet Z9+dr 44-in PostScript Printer with V-Trimmer
Accessories	
1QF38A	HP DesignJet 44-in Take-up Reel
1V477A	HP SmartStream Print Controller USB for HP DesignJet Production Printers
1V477AAE	HP SmartStream Print Controller for HP DesignJet Production Printers
2QX55A	HP Gloss Enhancer Upgrade Kit
5EK00A	HP HD Pro 2 42-in Scanner
5EK00D	HP HD Pro 2 42-in Scanner
CN538A	HP DesignJet 3-in Core Adapter
CQ783A	HP DesignJet 24-in Spindle
G6H50B	HP SD Pro 44-in Scanner
G6H51B	HP HD Pro 42-in Scanner
N7P47AA	HP USB 3.0 to Gigabit LAN Adapter
Q6709A	HP DesignJet 44-in Spindle

Original HP printing supplies	
3WX35A	HP 746B 300-ml Photo Black DesignJet Ink Cartridge
3WX36A	HP 746B 300-ml Cyan DesignJet Ink Cartridge
3WX37A	HP 746B 300-ml Magenta DesignJet Ink Cartridge
3WX38A	HP 746B 300-ml Yellow DesignJet Ink Cartridge
P2V25A	HP 746 DesignJet Printhead
P2V81A	HP 746 300-ml Chromatic Red DesignJet Ink Cartridge
P2V83A	HP 746 300-ml Matte Black DesignJet Ink Cartridge
P2V84A	HP 747 300-ml Chromatic Green DesignJet Ink Cartridge
P2V85A	HP 747 300-ml Chromatic Blue DesignJet Ink Cartridge
P2V86A	HP 747 300-ml Gray DesignJet Ink Cartridge
P2V87A	HP 747 300-ml Gloss Enhancer DesignJet Ink Cartridge

Use Original HP inks and printheads, and HP large format printing materials, to experience consistent high quality and reliable performance that enable less downtime. These critical components are designed and engineered together as an optimized printing system, and Original HP inks are designed to maximize the life of HP printheads. Protect your HP printer investment by using Original HP inks for full HP warranty protection. For more information, visit [hp.com/go/OriginalHPInks](http://hp.com/go/OriginalHPInks).

Original HP large format printing materials	
Q6581A	HP Universal Instant-dry Satin Photo Paper (FSC® certified) <sup>11</sup> (Recyclable) <sup>12</sup> 1067 mm x 30.5 m (42 in x 100 ft)
E4J57A	HP Artist Matte Canvas 1118 mm x 15.2 m (44 in x 50 ft)
C6569C	HP Heavyweight Coated Paper (FSC® certified) <sup>11</sup> (Recyclable) <sup>12</sup> 1067 mm x 30.5 m (42 in x 100 ft)
CH025A	HP Everyday Matte Polypropylene, 2 Pack (Recyclable) <sup>12</sup> 1067 mm x 30.5 m (42 in x 100 ft)
CG460B	HP Premium Matte Photo Paper (FSC® certified) <sup>11</sup> (Recyclable) <sup>12</sup> 914 mm x 30.5 m (36 in x 100 ft)

For the entire HP Large Format Printing Materials portfolio, please see [HPLFMedia.com](http://HPLFMedia.com).

Service and Support	
U7VB9E	HP Installation Service Moderate Level
U3Z1C	HP 3 year Next Business Day with Defective Media Retention Support for HP DesignJet Z9 24in
U9ZAG6	HP 3 year Next Business Day with Defective Media Retention Support for HP DesignJet Z9 44in
U9ZF7E	HP 3 year Next Business Day with Defective Media Retention Support for HP DesignJet Z9dr 44in
U9ZC3E	HP 5 year Next Business Day with Defective Media Retention Support for HP DesignJet Z9 24in
U9ZAB8	HP 5 year Next Business Day with Defective Media Retention Support for HP DesignJet Z9 44in
U9ZF9E	HP 5 year Next Business Day with Defective Media Retention Support for HP DesignJet Z9dr 44in
U9ZC4PE	HP 1 year Post Warranty, Next Business Day with Defective Media Retention Support for HP DesignJet Z9 24in
U9Z99PE	HP 1 year Post Warranty, Next Business Day with Defective Media Retention Support for HP DesignJet Z9 44in
U9Z0PPE	HP 1 year Post Warranty, Next Business Day with Defective Media Retention Support for HP DesignJet Z9dr 44in

HP DesignJet Support Services offer installation, maintenance, and extended support services (e.g. 2, 3, 4 and 5 years). For more information, please visit [hp.com/go/cpc](http://hp.com/go/cpc)

# ECO highlights

- ENERGY STAR® certified<sup>1</sup>, EPEAT® Silver registered as environmentally preferable product<sup>2</sup>
- Breakthrough color consistency can help reduce unnecessary reprints
- Printer made from 30% post-consumer recycled plastic; free HP printing supplies recycling<sup>3</sup>
- FSC®-certified papers<sup>4</sup>, range of recyclable HP media with a take-back program<sup>5</sup>

Please recycle large-format printing hardware and printing supplies. Find out how at our website: <http://www.hp.com/ecosolutions>

<sup>1</sup> ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.  
<sup>2</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country.  
<sup>3</sup> Program availability varies. Please check <http://www.hp.com/recycle> for details.  
<sup>4</sup> BMG trademark license code FSC®-C115319, see <http://www.fsc.org>. HP trademark license code FSC®-C017543, see <http://www.fsc.org>. Not all FSC®-certified products are available in all regions.  
<sup>5</sup> HP Large Format Media take-back program availability varies. Some recyclable HP papers can be recycled through commonly available recycling programs. Recycling programs may not exist in your area. See <http://www.HPLFMedia.com/hp/ecosolutions> for details.  
<sup>6</sup> Maximum rate of output for color image 100% color coverage. Printed on maximum roll size, with Original HP Vivid Photo Inks.  
<sup>7</sup> Mechanical printing time with Original HP Vivid Photo Inks. Measured on a 44-in printer.  
<sup>8</sup> Borderless printing available on photo gloss, photo satin, polypropylene, and backlit roll media.  
<sup>9</sup> Except self-adhesive vinyls and non-cuttable medias.  
<sup>10</sup> ±0.1% of the specified vector length or ±0.2 mm (whichever greater) at 23°C (73°F), 50-60% relative humidity, on A0/E HP Matte Film in Best or Normal mode with HP Vivid Photo Inks.  
<sup>11</sup> Measured on HP Matte Film.  
<sup>12</sup> ICC absolute colorimetric accuracy on HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.  
<sup>13</sup> With HP Premium Instant-dry Satin Photo Paper with HP Vivid Photo Inks.  
<sup>14</sup> Based on 4 GB RAM.  
<sup>15</sup> Not included in the box for 24-in models.  
<sup>16</sup> BMG trademark license code FSC®-C115319, see <http://www.fsc.org>. HP trademark license code FSC®-C017543, see <http://www.fsc.org>. Not all FSC®-certified products are available in all regions.  
<sup>17</sup> Recyclable HP papers can be recycled through commonly available recycling programs, or according to region-specific practices, or can be returned through the HP Large Format Media take-back program. Recycling programs may not exist in your area. See <http://www.HPLFMedia.com/hp/ecosolutions> for details.