

# HP PageWide Enterprise Color MFP 780dn



## The new printing paradigm

Modern business demands forward-thinking technology – it's why HP engineered the next generation of HP PageWide Enterprise to deliver a competitive edge from every angle: lowest colour cost,<sup>1</sup> maximum uptime and the industry's strongest security.<sup>2</sup>



This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: <http://www.hp.com/learn/ds>

### The lowest cost for colour<sup>1</sup>

- Get the quality you expect with HP PageWide Technology that delivers the lowest cost per colour page.<sup>1</sup>
- Print more pages and replace cartridges less often with optional high-yield cartridges.<sup>3</sup>
- Print even faster – and save even more per page – by setting this printer to General Office mode.<sup>4</sup>
- Help keep energy costs down with the most efficient MFP in its class.<sup>5</sup>

### Minimal interruptions. Maximum uptime.

- Minimise interruptions with an HP PageWide device designed for the least maintenance in its class.<sup>6</sup>
- Print speeds up to 50% faster than competitors – as fast as 65 ppm in colour and black-and-white.<sup>7</sup>
- Tailor this MFP to the needs of your business with a wide range of paper-handling accessories.
- Scan files directly to Microsoft® Office 365 and SharePoint, plus email, USB, and network folders.<sup>8</sup>

### The world's most secure printing<sup>2</sup>

- Each printer in your fleet checks its operating code and repairs itself from attacks.
- Your printer's outgoing network connections are inspected to stop suspicious requests and thwart malware.
- Memory activity is monitored to continually detect and stop attacks.
- Firmware is automatically checked during startup to determine if it's authentic code – digitally signed by HP.



A3/11x17 inch media



Color touchscreen



2-sided printing



HP PageWide technology

## Product walkaround

HP PageWide Enterprise Color MFP 780dn shown

1. 20.3 cm (8.0-inch) pivoting colour touchscreen
2. Hardware Integration Pocket
3. Easy-access USB printing port
4. 100 sheet multipurpose tray 1 supports media up to 305 x 457 mm
5. 550 sheet tray 2 supports media up to 297 x 432 mm
6. 200 sheet ADF with single-pass, two-sided scanning
7. 297 x 432 mm (11.7 x 17 inches) flatbed scanner
8. 500 sheet output bin
9. Front door access to cartridges
10. Automatic two-sided printing
11. Host USB port, Ethernet network port, Hi-speed USB 2.0 printing port



## Accessories, Supplies and Support

<b>Supplies</b>	<b>TOB30A</b> HP 982X High Yield Black Original PageWide Cartridge (~20,000 pages)
	<b>TOB27A</b> HP 982X High Yield Cyan Original PageWide Cartridge (~16,000 pages)
	<b>TOB28A</b> HP 982X High Yield Magenta Original PageWide Cartridge (~16,000 pages)
	<b>TOB29A</b> HP 982X High Yield Yellow Original PageWide Cartridge (~16,000 pages)
<b>Accessories</b>	<b>9UW01A</b> HP PageWide 550 sheet Paper Tray/Stand
	<b>9UW02A</b> HP PageWide 3x550 sheet Paper Tray/Stand
	<b>9UW03A</b> HP PageWide 4K Sheet HC Paper Tray/Stand
	<b>A7W99A</b> HP PageWide 550-sheet Paper Tray
	<b>P1V16A</b> HP PageWide 550-sheet Paper Tray
	<b>P1V17A</b> HP PageWide 550-sheet Paper Tray and Cabinet
	<b>P1V18A</b> HP PageWide 3x550 sheet Paper Tray and Stand
	<b>P1V19A</b> HP PageWide 4000 sheet High-capacity Paper Tray and Stand
	<b>W1B43A</b> HP PageWide Printhead Wiper Kit
<b>W1B44A</b> HP PageWide Service Fluid Container	
<b>Service and Support</b>	<b>U9RJ6E</b> HP 3 year Next Business Day Service with Defective Media Retention for PageWide Colour 78x
	<b>U9RJ7E</b> HP 4 year Next Business Day Service with Defective Media Retention for PageWide Colour 78x
	<b>U9RJ8E</b> HP 5 year Next Business Day Service with Defective Media Retention for PageWide Colour 78x
	<b>U9RK5PE</b> HP 1 year Post Warranty Next Business Day Service with Defective Media Retention for PageWide Colour 78x
	<b>U9RK6PE</b> HP 2 year Post Warranty Next Business Day Service with Defective Media Retention for PageWide Colour 78x

## Technical specifications

Model	HP PageWide Enterprise Color MFP 780dn
Product number	J7Z09A
Functions	Print, copy, scan, fax (optional)
Control panel	20.3 cm (8.0 in) Colour Graphics Display (CGD) with touchscreen; Rotating (adjustable angle) display; Illuminated Home button (for quick return to the Home menu); USB High-speed 2.0 port; Hardware Integration Pocket
<b>Print</b>	
Print technology	HP PageWide Technology
Print speed <sup>1</sup>	<b>Black (A4, normal):</b> Up to 45 ppm; <b>Colour (A4, normal):</b> Up to 45 ppm; <b>Black (A4, duplex):</b> Up to 31 ppm; <b>Colour (A4, duplex):</b> Up to 31 ppm; <b>Black (General Office):</b> Up to 65 ppm; <b>Colour (General Office):</b> Up to 65 ppm;
First page out <sup>2</sup>	<b>Black (A4, ready):</b> As fast as 7.0 sec; <b>Colour (A4, ready):</b> As fast as 7.0 sec; <b>Black (A4, sleep):</b> As fast as 17.5 sec; <b>Colour (A4, sleep):</b> As fast as 17.5 sec;
Print resolution	<b>Black (best):</b> Up to 1200 x 1200 optimised dpi from 600 x 600 input dpi (on Unspecified, Plain, HP Premium Presentation Matte, and HP Brochure Matte); <b>Colour (best):</b> Up to 2400 x 1200 optimised dpi from 600 x 600 input dpi (on HP Advanced Photo Papers); <b>Technology:</b> HP PageWide Technology up to 1200 x 1200 optimised dpi from 600 x 600 input dpi;
Monthly duty cycle	Up to 100,000 pages A4; <b>Recommended monthly page volume:</b> 2,500 to 20,000
Printer smart software features	HP SureStart; Run-time Intrusion detection; Whitelisting; HP Trusted Platform Module; HP JetAdvantage Security Manager; HP Web Jetadmin; Open Extensibility Platform; FutureSmart Firmware; HP ePrint, Apple AirPrint™; HP Auto-On/Auto-Off technology; HP Colour Access Control; HP EasyColour; Front-facing USB printing; Store print jobs; HP EasyColour; Print preview; Automatic two-sided printing; Print multiple pages per sheet (2, 4, 6, 9, 16); Collation; Booklet printing; Cover pages; Tray selection; Scaling; Portrait/Landscape orientation; High Quality Greyscale and Black Ink Only; General Office/Professional/Presentation dpi print modes; Optional: HP and third party extensibility solutions; Wireless
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation; PDF 1.7
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono WorldType); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); Additional font solutions available via third-party flash memory cards; HP LaserJet Fonts and IPDS Emulation available at <a href="http://www.hp.com/go/laserjet/fonts">http://www.hp.com/go/laserjet/fonts</a>
Print area	<b>Print margins:</b> Top: 4.23 mm (default), 2 mm (Edge-to-Edge mode), Bottom: 4.23 mm (default), 2 mm (Edge-to-Edge mode), Left: 4.23 mm (default), 2 mm (Edge-to-Edge mode), Right: 4.23 mm (default), 2 mm (Edge-to-Edge mode);
Print cartridges number	4 (1 each black, cyan, magenta, yellow)
Multitasking supported	Yes
Memory card compatibility	144-pin DDR3 DIMM; HP Part Number ESK48A only
Duplex printing	Automatic (standard); Manual (driver support provided)
<b>Copy</b>	
Copy speed	<b>Black (A4, ISO):</b> Up to 45 cpm; <b>Colour (A4, ISO):</b> Up to 45 cpm
Copier specifications	Two-sided copying, scalability, image adjustments (darkness, contrast, background cleanup, sharpness), N-up, N or Z-ordering, content orientation, collation, booklet, ID Scan, job build, edge-to-edge, job storage; <b>Maximum number of copies:</b> Up to 9,999 copies; <b>Copy resolution:</b> Up to 600 x 600 dpi; <b>Reduce/Enlarge:</b> 25 to 400%;
Copier smart software features	Auto scale; Reduce/enlarge from scanner glass (25 to 400 percent); Collate; Auto colour detection; Two-sided copying; Image adjustments (darkness, background cleanup, sharpness); Job build
<b>Scan</b>	
Scan speed	<b>Normal (A4):</b> Up to 90 ppm (black and white); Up to 90 ppm (colour); <b>Duplex (A4):</b> Up to 90 ppm (black and white); Up to 90 ppm (colour)
Scan file format	PDF, JPEG, TIFF, MTIFF, XPS, PDF/A
Scanner specifications	<b>Scanner type:</b> Flatbed, ADF; <b>Scan technology:</b> Charge Coupled Device (CCD) & Contact Image Sensor (CIS); <b>Scan input modes:</b> Front panel applications: Copy; E-mail; Save to Network Folder; Save to USB; Save to Device Memory; Open Extensibility Platform (OXP) applications; <b>Twain version:</b> Version 2.1; <b>Duplex ADF scanning:</b> Yes, single-pass duplexing ADF; <b>Scan size maximum (flatbed, ADF):</b> 297 x 432 mm; <b>Optical scan resolution:</b> Up to 600 ppi
Scanner advanced features	Optimise text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect colour; Edge Erase; Job notification; Blank page suppression; HP Quick Sets
Recommended monthly scan volume	2,000 to 50,000
Scannable area	<b>Maximum media size (flatbed):</b> 297 x 432 mm; <b>Minimum media size (ADF):</b> 68 x 148 mm <b>Maximum media size (ADF):</b> 297 x 432 mm; Up to 297 x 1000 mm when "long scan size" selected
Bit depth/ Grey scale levels	24-bit / 256
Digital sending	Standard: Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Colour Sense; Auto Crop To Content; Compact PDF
<b>Fax</b>	
Fax <sup>3</sup>	Optional, 33.6 kbps
Fax specifications	<b>Fax memory:</b> Up to 500 pages; <b>Fax resolution:</b> Standard: 204 x 98 dpi; Fine: 204 x 196 dpi; <b>Quick dialing:</b> Up to 1000 numbers (each with 210 destinations)
Fax smart software features	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule
Processor speed	1.2 GHz
<b>Connectivity</b>	
Standard	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket

<b>Model</b>	HP PageWide Enterprise Color MFP 780dn
<b>Product number</b>	J7Z09A
<b>Optional</b>	HP Jetdirect 3000w NFC/Wireless Accessory J8030A, HP Jetdirect 2900nw Print Server J8031A
<b>Wireless</b>	Optional, enabled with purchase of a hardware accessory
<b>Mobile printing capability</b>	HP ePrint, Apple AirPrint™, Google Cloud Print
<b>Supported network protocols</b>	IPv4/IPv6: Apple Bonjour Compatible (Mac OS v10.2.4 or higher), SNMPv1/v2c/v3, HTTP, HTTPS, FTP, TFTP, Port 9100, LPD, WS Discovery, IPP, Secure-IPP, IPsec/Firewall; IPv6: DHCPv6, MLDv1, ICMPv6; IPv4: Auto-IP, SLIP, Telnet, IGMPv2, BOOTPDHCP, WINS, IP Direct Mode, WS Print
<b>Network capabilities</b>	Via HP Jetdirect Ethernet embedded print server (standard) supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gigabit Ethernet; IPsec (standard)
<b>Hard disk</b>	500 GB High-Performance Secure Hard Disk (AES 256 hardware encryption or greater; Secure erase capabilities: Secure File Erase-Temporary Job Files, Secure Erase-Job Data, Secure ATA Erase-Disk)
<b>Memory</b>	<b>Standard:</b> 3584 MB; <b>Maximum:</b> 3584 MB
<b>Paper handling</b>	
<b>Number of paper trays</b>	<b>Standard:</b> 2 trays; <b>Maximum</b>
<b>Media types</b>	Plain paper, HP EcoFFICIENT, HP Premium Presentation Matte 120g, HP Brochure Matte 180g, HP Brochure Glossy, HP Advanced Photo Papers, Light 60-74g, Intermediate 85-95g, Mid-Weight 96-110g, Heavy 111-130g, Extra Heavy 131-175g, Cardstock 176-220g, Labels, Letterhead, Envelope, Heavy Envelope, Preprinted, Prepunched, Coloured, Bond, Recycled, Rough
<b>Media size</b>	<b>Custom (metric):</b> Tray 1: 99.1 x 127 to 304.8 x 457.2 mm; Trays 2-5: 210.1 x 148.1 to 304.8 x 457.2 mm; HCl Trays 3 & 4: A4 Only <b>Supported (metric):</b> Tray 1: RA3, A3, 8K, B4 (JIS), SRA4, RA4, A4, A4-R, 16K, 16K-R, A5, A5-R, B5 (JIS), B5 (JIS)-R, B6 (JIS), A6; Trays 2-5: A3, 8K, B4 (JIS), SRA4, RA4, A4, A4-R, 16K, 16K-R, A5, A5-R, B5 (JIS), B5 (JIS)-R, B6 (JIS), A6; HCl Trays 3 & 4: A4 <b>ADF:</b> A3, B4-JIS, A4, B5-JIS, A5, B6-JIS, A6
<b>Media handling</b>	<b>Standard input:</b> 100-sheet multipurpose tray, 550-sheet input tray <b>Standard output:</b> 500-sheet output bin <b>Optional input:</b> Up to 4,000 + 550 + 100 sheets <b>ADF:</b> Standard, 200 sheets
<b>Media weight</b>	Tray 1: 60 to 220 g/m², 300 g/m² Photo Paper Only; Trays 2-5: 60 to 220 g/m²; HCl trays 3 & 4: 60 to 220 g/m²
<b>Input capacity</b>	<b>Tray 3:</b> Up to 1,650 sheets in 3 x 550; Up to 2 x 2,000 sheets in HCl <b>Maximum:</b> Up to 4,650 sheets <b>ADF:</b> Standard, 200 sheets
<b>Output capacity</b>	<b>Standard:</b> Up to 500 sheets Envelopes: Up to 50 envelopes Labels: Up to 200 labels <b>Maximum:</b> Up to 500 sheets
<b>Compatible operating systems</b>	Android, Linux Boss (5.0), Linux Debian (7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6), Linux Fedora (22, 23, 24), Linux Mint (17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2, 42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10), OS mac OS 10.12 Sierra, OS X 10.11 El Capitan, OS X 10.10 Yosemite, UNIX, Windows 10 all 32/64-bit editions (excluding RT OS for Tablets), Windows 7 all 32/64-bit editions, Windows 8/8.1 all 32/64-bit editions (excluding RT OS for Tablets), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)
<b>Compatible network operating systems</b>	Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2, and 3), Citrix on Windows Server 2003/2003 R2, Citrix on Windows Server 2008/2008 R2/2008 R2 SP1, Citrix on Windows Server 2012/2012 R2, Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3) for Windows Server 2008 Terminal Services 32/64-bit, Citrix XenApp 6.0/6.5 [for Windows Server 2008 R2 Terminal Services, 32/64-bit], Citrix XenApp 6.0/6.5/7.5 [for Windows Server 2008 R2 SP1 Terminal Services, 32/64-bit], Citrix XenApp 7.5 [for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit], Citrix XenDesktop 5.6 (for Windows Server 2008 R2 Terminal Services, 32/64-bit), Citrix XenDesktop 5.6/7.0/7.5 (for Windows Server 2008 R2 SP1 Terminal Services, 32/64-bit), Citrix XenDesktop 7.0/7.5 (for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit), Novell NetWare 6.5/SP8 Novell Clients <a href="http://www.novell.com/iprint">http://www.novell.com/iprint</a> , Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, Novell Servers <a href="http://www.novell.com/iprint">http://www.novell.com/iprint</a> , Windows Server 2003/2003 R2 32/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 32/64-bit (SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services), Windows Server 2016/ 64-bit Standard/ Essential/Datacenter (+ Cluster & Terminal Services)
<b>Minimum system requirements</b>	<b>Windows:</b> 2 GB available hard disk space; For OS hardware requirements see <a href="http://www.microsoft.com">http://www.microsoft.com</a> <b>Mac:</b> 1.3 GB available hard drive space; Internet; OS hardware requirements see <a href="http://www.apple.com">http://www.apple.com</a> for more info
<b>Software included</b>	HP Connected, HP Device Experience (DXP), HP PCL 6 Printer Driver, HP Software Installer/Uninstaller, Mac OS Welcome Screen (directs users to <a href="http://www.123.hp.com">http://www.123.hp.com</a> or OS App Source for printer software), Online user manuals
<b>Security management</b>	Identity Management: Kerberos authentication, LDAP authentication, 1000 user PIN codes, optional HP and third-party advanced authentication solutions (e.g., badge readers); Network: IPsec/firewall with Certificate, Pre-Shared Key, and Kerberos authentication, Supports WJA-10 IPsec configuration Plug in, 802.1X authentication (EAP-PEAP, EAP-TLS), SNMPv3, HTTPS, Certificates, Access Control List, HP Trusted Platform Module (TPM) comes standard; Data: Storage Encryption, Encrypted PDF & Email (uses FIPS 140 validated cryptographic libraries from Microsoft), Secure Erase, SSL/TLS (HTTPS), Encrypted Credentials; Device: Security lock slot, USB port disablement, Hardware Integration Pocket for security solutions, 18 Intrusion Detection with Red Balloon Security Technology (Constant in-device monitoring for attacks), HP Sure Start Secure Boot (BIOS integrity checking with self-healing capability), Whitelisting (loads only known good code (DLLs, EXEs, etc.); Security Management: Compatible with HP JetAdvantage Security Manager, 21 Device Security Syslog Messages processed and accessible in ArcSight and Splunk SIEMs; For more security settings go to <a href="http://h10032.www1.hp.com/ctg/Manual/c03602120">http://h10032.www1.hp.com/ctg/Manual/c03602120</a>
<b>Printer management</b>	HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP Web JetAdmin Software; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver
<b>Dimensions and weight</b>	
<b>Printer dimensions (W x D x H)</b>	<b>Minimum:</b> 604 x 652 x 681 mm; <b>Maximum:</b> 896 x 591 x 534 mm;
<b>Package dimensions (W x D x H)</b>	790 x 760 x 933 mm
<b>Printer weight</b>	69 kg
<b>Package weight</b>	85 kg
<b>Operating environment</b>	<b>Temperature:</b> 15 to 30°C <b>Humidity:</b> 30 to 70% RH

Model	HP PageWide Enterprise Color MFP 780dn
Product number	J7Z09A
Storage conditions	<b>Temperature:</b> Before initial setup (Non-Purged): -40 to 60°C; After initial setup (Purged): 0 to 60°C. If stored below the lowest specified operating temperature, unit must slowly warm up to an approved operating temperature (HP recommends waiting 24 hours at approved operating temperature prior to using the printer). <b>Humidity:</b> 10 to 80% RH
Acoustics	<b>Acoustic power emissions:</b> 6.7 B(A) <b>Acoustic pressure emissions:</b> 53 dB(A) (printing at 46 ppm)
Power <sup>4</sup>	<b>Requirements:</b> Input voltage: 220 to 240 VAC, 50/60 Hz; <b>Consumption:</b> 650 watts (max. print/copy), 110 watts (print/copy), 28 watts (ready), 1.37 watts (sleep), 0.2 watts (auto-off), 0.2 watts (off); <b>Typical Electricity Consumption (TEC):</b> Blue Angel: 1.620 kWh/Week; Energy Star 3.0: 0.565 kWh/Week; <b>Power supply type:</b> Internal (Built-in) power supply;
Energy savings feature technology	HP Auto-on/Auto-off Technology
Certifications	CISPR 22:2008 Class A, CISPR 32:2012 Class A, EN 55032:2012 Class A, EN 61000-3-3:2013, EN 61000-3-2:2014 ENERGY STAR <sup>®</sup> qualified; EPEAT <sup>®</sup> Gold
Sustainable impact specifications	Mercury-free
Country of origin	Made in Netherlands
What's in the box	HP PageWide Enterprise Colour MFP 780dn printer; HP Setup Ink Cartridges (yield after setup 6,000 pages CMY and 10,000 pages Black); Installation guide, Support flyer; Documentation on CD-ROM; Power cord
Warranty	1 Year Parts Only. Extended Warranty and support options vary by product, country and local legal requirements. Go to <a href="http://www.hp.com/support">http://www.hp.com/support</a> to learn about HP award winning service and support options in your region.

## Footnotes

<sup>1</sup> Lowest cost per colour page claim applies to devices that are not sold under contract. Comparison of HP PageWide A3 devices with the majority of in-class colour ink/laser MFPs (€3,000-€7,499), and colour ink/laser single function printers (€1,500-€2,999) as of January/February 2017; market share as reported by IDC as of Q4 2016. Cost per page (CPP) reported by gap intelligence Pricing & Promotions Report January/February 2017, comparisons for devices/supplies not sold under contract are based on published specifications of the manufacturers' highest-capacity cartridges, inclusive of long life consumables and page yield. Average HP yield based on ISO/IEC 24711 and continuous printing in default mode. Actual yield varies based on content of printed pages and other factors. For more information, see <http://www.hp.com/go/learnaboutsupplies> and <http://www.hp.com/go/PageWideClaims>.

<sup>2</sup> Based on HP review of 2016 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit <http://www.hp.com/go/PrintersThatProtect>. For more information: <http://www.hp.com/go/printersecurityclaims>.

<sup>3</sup> High-yield cartridges are not included in printer purchase; purchase separately. Comparison is based on ISO 24711 cartridge yields for HP 982X series High-Yield Original PageWide Cartridges compared with HP 982A series Original PageWide Cartridges. Learn more at <http://www.hp.com/go/learnaboutsupplies>.

<sup>4</sup> Comparison based on printing in Professional Mode.

<sup>5</sup> Energy claim based on TEC data reported on [energystar.gov](http://energystar.gov) as of February 2018. Data normalised to determine energy efficiency of in-class colour laser printers and MFPs with print speeds between 20-80 ppm as of February 2018. Subject to device settings. Actual results may vary.

<sup>6</sup> Fewer service parts claim based on HP analysis of leading in-class A3 colour laser printers and MFPs as of February 2018; calculations use publicly available and/or published manufacturer rated yields for long-life consumables and assume 600,000 pages printed (using a 60% black/40% colour ratio). Learn more at <http://www.hp.com/go/pagewideclaims>.

<sup>7</sup> Comparison of HP PageWide A3 devices with leading in-class colour ink/laser MFPs (€2,820-€11,199), and colour ink/laser single function printers (€1,410-€4,599) as of February 2018; market share as reported by IDC as of Q3 2017, excluding other HP PageWide products. HP PageWide speeds based on General Office mode and exclude first page. Learn more at <http://www.hp.com/go/printerspeeds>.

<sup>8</sup> Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see <http://www.hpconnected.com>.

## Technical specifications disclaimers

<sup>1</sup> ISO speeds measured using ISO/IEC 24734. Excludes first page or first set of ISO test pages. For details see <http://www.hp.com/go/printerclaims>.

<sup>2</sup> Exact speed varies depending on the system configuration, software application, driver and document complexity.

<sup>3</sup> Based on standard ITU-T test image at standard resolution and MMR encoding, the HP fax device can transmit at 3 sec/page for V.34 and 6 sec/page for V.17.

<sup>4</sup> Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Power Consumption and Energy Star TEC values typically based on measurement of 115V device.

<sup>5</sup> Normalized TEC (watt hours per page) Blue Angel: 0.327 Wh/page, Energy Star: 0.325 Wh/page.



<http://www.hp.com/uk>

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