



## HP Designjet 90 Printer series



Focus on your creativity with this professional, C+/A2+-size photo printer: the HP Designjet 90. HP Professional Color Technologies deliver consistent color output while HP Vivera Inks and select HP papers provide exceptional fade resistance.<sup>1</sup>

### Experience professional color

- **Rich color depth and minimal dot visibility.** Proprietary dye-based HP Vivera Inks in HP six-ink color printing work to deliver a wide range of colors, deeper blacks, continuous tones, and gloss uniformity. A four-picoliter ink-drop size maintains fine detail reproduction, especially in dark areas, and smooth tonal transitions.
- **Maximum color consistency.** See reliable, consistent color from print to print. HP invests in HP Professional Color Technologies making your color experience simple and straightforward. Plus, enjoy more robust color and job management capabilities.
- **Revolutionary HP Vivera inks.** HP Vivera inks are carefully engineered to work flawlessly with all parts of the printing system so you achieve rich, vibrant colors and extraordinary photo image quality, time after time. Graphic designers and professional photographers can rest assured that the images they create will maintain their impact.

### Live out your creativity

- **Optional EFI software RIP.** Add the optional EFI software RIP to expand your printing options and enhance color accuracy. The EFI software RIP provides Adobe® PostScript® 3™ support and optional Automatic PANTONE® calibration. Added to that, you get enhanced job management capabilities for greater control. Spend just a little more to get a lot more from this professional, versatile printer.<sup>4</sup>

- **Print high-quality images quickly.** Print high-quality images on B+/A3+ -size media at four minutes per page in Normal print mode. Use Draft mode for proof printing to deliver B+/A3+ -size prints quickly. No matter which mode you choose, you'll appreciate the quality that comes from HP technology.
- **Experience full color workflow support.** Your design software choices expand when you use the HP Designjet 90 Printer series, which enables color solutions for every color workflow. The print preview ensures correct layout and you can add optional EFI software if you need color management in a CMYK workflow.

### Valuable time and cost savings

- **Save time and increase productivity.** Cost-effective, individually replaceable HP ink cartridges and printheads maximize efficiency and provide reliable operation that minimizes user intervention and improves productivity. 3-ink multipacks provide additional savings and convenience for high-volume printing.
- **Wide range of media weights and types.** Choose the media type that best conveys your concepts with durable HP media. The HP Designjet 90 Printer series can handle stock in weights up to 80 lb (300 g/m<sup>2</sup>), as well as thick or rigid media (up to 15 mil). Choose from a variety of HP media finishes. Furthermore, you also benefit from the added convenience of four different HP 18 in (457 mm) media rolls.<sup>2</sup>

WHAT DO YOU HAVE TO SAY?

# HP Designjet 90 Printer series

1. LCD printer status indicator for ink supply maintenance and print message alerts
2. Media tray holds up to 70 sheets of standard-size media (up to C+/A2+ -size)
3. Front bypass slot accommodates cut sheet media up to 18 in (457mm)
4. Small footprint allows placement of printer on tabletop or in common work area
5. USB and parallel connection ensure easy system integration. Optional network connectivity with compatible HP Jetdirect network cards
6. Rear bypass slot handles heavy and rigid media of weights up to 80 lb (300g/m<sup>2</sup>)
7. Roll feed (optional with HP Designjet 90 Printer) feeds rolls up to 18 in (457 mm) wide and 150 ft (45.7 m) long

Internal color sensor for color consistency

Fade-resistant inks with 4 pl drop size for fade-resistant<sup>†</sup>, photo-quality images

Modular ink system with six independently replaceable ink cartridges allows you to replace only the ink colors you need



HP Designjet 90 Printer front view



HP Designjet 90r Printer top view



## Series at a glance

### HP Designjet 90 Printer

- Input tray for 70 sheets up to 18 x 24 in (457 x 609 mm)
- Optimized Macintosh and Windows® drivers with RGB ICC profiles
- Optional network connectivity

### HP Designjet 90r Printer

All the features of the HP Designjet 90 Printer plus:

- Roll feed for printing up to 18 in (457 mm) wide

### Optional accessories

- HP Designjet 90 Roll Feed accessory\*
- HP Designjet 90 Spindle accessory\*
- EFI Designer Edition 5.1 for HP M International
- EFI Designer Edition 5.1 for HP M Japan
- EFI Designer Edition 5.1 for HP XL International
- EFI Designer Edition 5.1 for HP XL Japan
- Compatible HP Jetdirect network cards

\* Standard with the HP Designjet 90r

### HP Color Profiling Offsite Service

The HP Color Profiling Offsite Service helps eliminate wasted time, media and ink caused by inadequate results, while improving the efficiency and effectiveness of advanced color workflow. This is done by providing an ICC profile specialized design for your printer and media. There are 2 packages available:

- UC217E: for creation of 1 profile
- UC218E: for creation at a reduced price

## A great tool for professional photographers

### Exceptional fade-resistant photo quality

HP Vivera inks, together with HP Premium Plus photo papers for exceptionally fade-resistant images that last approximately 82 years<sup>1</sup>.

### Fine details and faithful reproduction

Excellent highlight and shadow detail, smooth transitions and persuasive skin tones, with 4pl ink drop size. HP color layering technologies provide dense blacks, reliable color consistency and gloss uniformity.

### Excellent gloss level and gloss uniformity

Dye-based HP Vivera inks provide rich color depth, minimal dot visibility, and uniform gloss—all important attributes of image quality.



## An asset for graphic designers

### No need to outsource or tile and assemble

Save time and money by publishing professional color prints in-house.

### Media versatility up to C+/A2+ size

4 independent paper paths and a roll-feed<sup>2</sup> expand your printing capabilities, from postcards to full sized banners.

### Professional color proofs

HP Color Technologies such as Professional PANTONE Emulation and CMYK+ will provide the edge to win more clients. Automatic printhead alignment and Closed Loop Color calibration deliver consistent reliable colors every time. PostScript® support through EFI Designer Edition 5.1 RIP<sup>3</sup>.



## Improving the workflow of proofing professionals

### Fast color stability

Obtain accurate and stable proofs quickly with new dye-based HP Vivera ink and HP Proofing media (most media are stable 10 minutes after printing).

### Color consistency

Consistency is guaranteed by way of the patented Closed Loop Color calibration, which eliminates guess work.

### Press simulation

Press simulation is a CMYK to CMYK transformation that changes the lightness, hue, and saturation of the CMYK files sent to the inkjet printer to match the output of a production device, giving pre-press professionals an easy-to-use and low-cost tool for producing accurate proofs. PostScript support through EFI Designer Edition 5.1 RIP<sup>3</sup>.

### Flexible printing sizes

Switching easily between sheet and roll-fed media<sup>2</sup> up to 18 in (457 mm) wide, you can reliably print postcard-size images, full-color pages, or banner-style pieces.



**vivera**  
HP INKS

HP Vivera Inks, specifically developed for use with HP inkjet printing systems, encompass a number of key elements that contribute to the inks' exceptional performance:

- Superior ingredients and unique ink formulations
- Exceptional ink purity
- Low-colorant inks designed from the ground up

# HP Designjet 90 Printer series

## Technical specifications

| Print speed                 |                                                                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B/A3                        | Color image (ISO N5), Normal mode on glossy paper: 4 min/page                                                                                                                                                                                                        |
| C/A2                        | Color image (ISO N5), Normal mode on glossy paper: 6.3 min/page                                                                                                                                                                                                      |
| Printing                    |                                                                                                                                                                                                                                                                      |
| Print resolution            | Up to 2400 x 1200 dpi                                                                                                                                                                                                                                                |
| Margins                     | <b>Sheet:</b> 0.2 x 0.47 x 0.2 x 0.2 in (5 x 12 x 5 x 5 mm); <b>roll:</b> 0.2 x 0.2 x 0.2 x 0.2 in (5 x 5 x 5 x 5 mm)                                                                                                                                                |
| Technology                  | HP Thermal Inkjet                                                                                                                                                                                                                                                    |
| Technology resolution       | HP Color Layering technology, PhotoREt IV                                                                                                                                                                                                                            |
| Ink types                   | Dye-based HP Vivera inks                                                                                                                                                                                                                                             |
| Ink colors                  | Cyan, magenta, yellow, black, light cyan, light magenta                                                                                                                                                                                                              |
| Ink drop                    | 4 pl                                                                                                                                                                                                                                                                 |
| Print heads                 | 6 (1 each cyan, magenta, yellow, black, light cyan, light magenta)                                                                                                                                                                                                   |
| Minimum line width          | 0.002 in (0.04 mm)                                                                                                                                                                                                                                                   |
| Media                       |                                                                                                                                                                                                                                                                      |
| Handling                    | 70-sheet input tray, 50-sheet output tray, front single-sheet paper feed, rear path for manual single-sheet feed, rear roll feed with automatic cutter                                                                                                               |
| Types                       | Bond and coated paper (coated, heavyweight coated, plain), photo (gloss, satin, matte), proofing (high-gloss contract, semi-gloss contract, matte)                                                                                                                   |
| Weight                      | <b>Tray 1:</b> 17 to 40 lb (65 to 150 g/m <sup>2</sup> ); <b>manual single-sheet feed:</b> 17 to 40 lb (65 to 150 g/m <sup>2</sup> ); <b>rear path:</b> up to 80 lb (300 g/m <sup>2</sup> ); <b>roll feed:</b> 17 to 40 lb (65 to 150 g/m <sup>2</sup> )             |
| Size                        | <b>Tray 1:</b> 3 x 5.6 to 18 x 24 in (76 x 142 to 457 x 610 mm); <b>manual single-sheet feed:</b> 4.3 x 8.1 to 18 x 24 in (110 x 205 to 457 x 610 mm); <b>rear path:</b> 4.3 x 8.1 to 18 x 24 in (110 x 205 to 457 x 610 mm); <b>roll feed:</b> up to 18 in (457 mm) |
| Thickness                   | <b>Tray 1:</b> up to 8 mil; <b>envelopes:</b> up to 15 mil; <b>front path:</b> up to 8 mil; <b>rear path:</b> up to 15 mil; <b>roll feed:</b> up to 8 mil                                                                                                            |
| Standard sizes              | Letter, legal, tabloid, C, envelopes, banners (A2, A3, A4, B3, B4)                                                                                                                                                                                                   |
| Connectivity                |                                                                                                                                                                                                                                                                      |
| Interfaces (standard)       | USB 1.1 (USB 2.0 compliant), Centronics parallel IEEE1284 (ECP compliant), 1 EIO slot                                                                                                                                                                                |
| Interfaces (optional)       | HP Jetdirect 620n, 630n, 635n, 690n, 175x, en1700, en3700, ew2400 Print Servers                                                                                                                                                                                      |
| Print languages             | PCL 3 GUI RGB 24-bit Contone; optional: Adobe PostScript 3 via software RIP                                                                                                                                                                                          |
| Drivers (included)          | PCL 3 GUI Windows driver; Microsoft® Windows drivers (Vista®, XP, 2000); Raster driver for Mac OS X v10.3, v10.4, v10.5                                                                                                                                              |
| Supported operating systems |                                                                                                                                                                                                                                                                      |
|                             | Windows Vista, XP Home, XP Professional, Server 2003, 2000; Raster driver for Mac OS X v10.3, v10.4, v10.5                                                                                                                                                           |
| Dimensions (w x d x h)      |                                                                                                                                                                                                                                                                      |
| Printer                     | <b>90:</b> 35 x 15.7 x 8.7 in (890 x 400 x 220 mm), <b>90r:</b> 35 x 20.5 x 8.7 in (890 x 520 x 220 mm)                                                                                                                                                              |
| Maximum                     | 35 x 38.6 x 8.7 in (890 x 980 x 220 mm)                                                                                                                                                                                                                              |
| Shipping                    | 43 x 22 x 20 in (1034 x 544 x 498 mm)                                                                                                                                                                                                                                |
| Weight                      |                                                                                                                                                                                                                                                                      |
| Printer                     | <b>90:</b> 40.8 lb (18.5 kg), <b>90r:</b> 43 lb (19.5 kg)                                                                                                                                                                                                            |
| Shipping                    | <b>90:</b> 68 lb (31 kg), <b>90r:</b> 73 lb (33 kg)                                                                                                                                                                                                                  |
| What's in the box           |                                                                                                                                                                                                                                                                      |
| HP Designjet 90 Printer     | HP Designjet 90 Printer, printheads (x6), ink cartridges (x6), input/output tray, input tray cover, HP media samples, documentation and drivers CD, quick reference guide, setup poster, USB cable (AP, EMEA, LAR), power cord                                       |
| HP Designjet 90r Printer    | HP Designjet 90r Printer, roll feed, spindle, printheads (x6), ink cartridges (x6), input/output tray, input tray cover, HP media samples, documentation and drivers CD, quick reference guide, setup poster, USB cable (AP, EMEA, LAR), power cord                  |

| Environmental ranges                  |                                                                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature                 | 41 to 104° F (5 to 40° C)                                                                                                                                                                                              |
| Recommended operating temperature     | 59 to 91° F (15 to 35° C)                                                                                                                                                                                              |
| Storage temperature                   | -13 to 131° F (-25 to 55° C)                                                                                                                                                                                           |
| Operating humidity                    | 20 to 80% RH                                                                                                                                                                                                           |
| Recommended humidity                  | 25 to 75% RH                                                                                                                                                                                                           |
| Storage humidity                      | 0 to 95% RH                                                                                                                                                                                                            |
| Acoustic                              |                                                                                                                                                                                                                        |
| Sound pressure, active                | 50 dB(A)                                                                                                                                                                                                               |
| Sound pressure, standby               | 37 dB(A)                                                                                                                                                                                                               |
| Sound power, active                   | 6.2 B(A)                                                                                                                                                                                                               |
| Sound power, standby                  | 5.4 B(A)                                                                                                                                                                                                               |
| Power consumption                     |                                                                                                                                                                                                                        |
| Maximum                               | 65 watts                                                                                                                                                                                                               |
| Standby                               | 17 watts                                                                                                                                                                                                               |
| Power requirements                    | Input voltage 100 to 240 V ac (+/- 10%) auto ranging, 50/60 Hz (+/- 3Hz), 2 A maximum                                                                                                                                  |
| Certification                         |                                                                                                                                                                                                                        |
| Safety                                | IEC 950-compliant, EU IVD and EN60950 compliant, CSA certified for US and Canada, Mexico NOM-1-NYCE, Argentina IRAM, China CCC, Singapore PSB, Russia VNIIS, Korea KTL                                                 |
| Electromagnetic                       | Compliance for Class B products, Class A when connected to LANs: EU (EMC Directive), USA (FCC rules), Canada (DoC), Australia (ACA), New Zealand (MoC), China (CCC), Japan (VCCI); Class A: Korea (MIC), Taiwan (BSMI) |
| ENERGY STAR® qualified models see:    | http://www.hp.com/go/energystar                                                                                                                                                                                        |
| Warranty                              |                                                                                                                                                                                                                        |
| Warranty Support call 1-800-HP INVENT | One-year, next-business-day, onsite warranty                                                                                                                                                                           |

## Ordering information

### Product

|        |                          |
|--------|--------------------------|
| Q6656A | HP Designjet 90 Printer  |
| Q6656B | HP Designjet 90r Printer |

### Accessories

|        |                                                       |
|--------|-------------------------------------------------------|
| Q6662A | HP Designjet 90 Roll Feed Accessory (standard on 90r) |
| Q6661A | HP Designjet 90 Spindle Accessory (standard on 90r)   |
| Q6641D | EFI Designer Edition 5.1 RIP for HP (M) Intl          |
| Q6642D | EFI Designer Edition 5.1 RIP for HP (M) Japan         |
| Q6643D | EFI Designer Edition 5.1 RIP for HP (XL) Intl         |
| Q6644D | EFI Designer Edition 5.1 RIP for HP (XL) Japan        |
| J7934G | HP Jetdirect 620n Fast Ethernet Print Server          |

### Ink supplies

|        |                                           |
|--------|-------------------------------------------|
| C9420A | HP 85 Cyan Printhead                      |
| C9421A | HP 85 Magenta Printhead                   |
| C9422A | HP 85 Yellow Printhead                    |
| C9423A | HP 85 Light Cyan Printhead                |
| C9424A | HP 85 Light Magenta Printhead             |
| C5019A | HP 84 Black Printhead                     |
| C9425A | HP 85 Cyan Ink Cartridge (28 ml)          |
| C9426A | HP 85 Magenta Ink Cartridge (28 ml)       |
| C9427A | HP 85 Yellow Ink Cartridge (69 ml)        |
| C9428A | HP 85 Light Cyan Ink Cartridge (69 ml)    |
| C9429A | HP 85 Light Magenta Ink Cartridge (69 ml) |
| C5016A | HP 84 Black Ink Cartridge (69 ml)         |

### Media

|        |                                                                  |
|--------|------------------------------------------------------------------|
| Q5486A | HP Premium Plus Gloss Photo Paper, B+, 25 sheets                 |
| Q5487A | HP Premium Plus Gloss Photo Paper, C+, 20 sheets                 |
| Q7920A | HP Premium Plus Satin Photo Paper 18 in x 50 ft /458 mm x 15.2 m |
| Q5492A | HP Matte Photo Paper, B+, 50 sheets                              |
| Q1967A | HP Matte Proofing Paper, B+, 100 sheets                          |
| Q8662A | HP Professional High-gloss Contract Proofing Paper B+, 50 sheets |
| Q7970A | HP Professional Semi-gloss Contract Proofing Paper B+, 50 sheets |

### HP Care Pack Services

|        |                                             |
|--------|---------------------------------------------|
| UC744E | HP Installation Services with Network Setup |
| U3477E | HP 3-Year Next Day Onsite Services          |
| UC217E | HP Color Profiling Service - 1 Profile      |
| UC218E | HP Color Profiling Service - 3 Profiles     |

For more service options visit: [www.hp.com/go/lookuptool](http://www.hp.com/go/lookuptool)  
HP Care Pack Services call 1-800-633-3600 for service.

More HP media sizes and weights available at  
[www.hp.com/go/designjet/supplies](http://www.hp.com/go/designjet/supplies)

### Footnotes

- 1) Wilhelm Imaging Research, Inc. concluded that prints made with HP No. 85 ink cartridges and HP Premium Plus Photo and Proofing paper may be displayed indoors under glass for 82 years before noticeable fading and staining occur (see <http://www.wilhelm-research.com> for details). Display permanence ratings are based on accelerated light stability tests conducted at 35 klux with glass-filtered, cool white fluorescent illumination with the sample plane air temperature maintained at 24° C and 60 percent relative humidity. Data was extrapolated to display conditions of 450 lux for 12 hours per day using the Wilhelm Imaging Research, Inc. Visually-weighted endpoint criteria set v 3.0 and represent the years of display for easily noticeable fading, changes in color balance, and/or staining to occur.
- 2) Roll-feed device is standard on the Designjet 90r model, optional (not included, sold separately) on the Designjet 90 model.
- 3) The EFI software RIP is optional (not included, sold separately). Some color technologies are also optional, as they require the EFI software RIP.
- 4) HP has worked with the leading RIP vendors to ensure easy integration of the HP Designjet 90 into your workflow



For more information, visit our website at  
[www.hp.com/go/designjet90](http://www.hp.com/go/designjet90)

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