

Product range/positioning

The Xerox DocuPrint 96/4635/180 NPS printing system is fully compatible with the IBM AFP Group 3 page printer with the Advanced Function Image and Graphics (AFIG) option. The targeted impressions per month are as follows:

- DocuPrint 96 NPS: 800,000 - 3 million
- DocuPrint 4635 NPS: 1.8 million - 4 million
- DocuPrint 180 NPS: 1.8 million - 6 million

Usage outside this range may vary the service frequency.

Variables other than monthly print volume affect average number of service calls. Please contact your sales representative or Customer Service Engineer for more information.

Performance

Reliability performance of the DocuPrint 96/4635/180 NPS for the targeted impressions per month is as follows:

Average Month Print Volume	Average Calls per Month		
	96 NPS	4635 NPS	180 NPS
1 million	2.3	2.5	2.4
2 million	4.6	5	4.8
3 million	6.9	7.5	7.2
4 million		10	9.6
5 million			12
6 million			14.4

Speed

Data can be printed at rates up to 96 pages (96 NPS), 135 pages (4635 NPS), and 180 pages (180 NPS) per minute. Throughput rate can vary depending upon job complexity and system configuration.

Resolution

96/4635 NPS: 600 by 600 dots per inch (dpi).

180 NPS: 600 by 2400 dots per inch (dpi).

Paper handling

- 20 lb. (80 gsm) bond to 110 lb. (200 gsm) index cut-sheet weights
- Paper sizes: 8 by 10 in. (203 by 254 mm) to 14 by 17 in. (356 by 432 mm), including A4 and A3
- 7 by 10 in. (178 by 254 mm) with the 7 by 10 in. option kit, (4635 and 180 NPS only)

Input:

- Main Tray (Tray 1): 1100 sheet capacity of 20 lb. (80 gsm) bond paper
- Auxiliary Tray (Tray 2): 600 sheet capacity of 20 lb. (80 gsm) bond paper
- The 4635/180 NPS may have up to six feeder trays: two processor trays and two to four high-capacity trays.
- The 96 NPS may have up to four input trays: the two processor trays and one to two high-capacity trays.

Output:

- Output bin: Each output bin has a capacity of 2500 sheets of 20 lb. (80 gsm) bond with offset capability
- The 96 NPS has one output bin as a standard, with one additional bin available as an option. The 4635/180 NPS has two output bins as a standard, with up to two additional bins available as options.

- Sample Tray: 100 sheets of 20 lb. (80 gsm) bond

Refer to the *Helpful Facts About Paper* to help in selection of preprinted forms, perforated stock and labels.

System control module (High performance Sun workstation)

Note: This configuration may change due to Xerox policy of staying abreast of current technology.

- 256 MB RAM
- Rigid disk drives:
 - 4.2 GB primary disk drive
 - Up to three additional disk drives in increments of 4 or 9 GB
- 1.44 MB 3.5-inch diskette drive
- Internal CD ROM
- 4 mm DAT SCSI tape drive (optional)
- 21-inch color monitor
- Type 4 or 5, 107-keyboard

Printer module

- Black dry ink (permanent)
- Operator attention light

Interface requirements

One of the following network communications systems may be used to transport documents from the client workstation to the printer.

- Ethernet LAN running TCP/IP, AppleTalk, or Novell NetWare network protocol software.
- Token Ring running TCP/IP or AppleTalk network protocol software
- (For the DP 180 NPS only) Fibre Distributed Data Interface (FDDI) running TCP/IP, Novell 3.x, or AppleTalk network protocols (available only with the Solaris 2.x environment). The FDDI supports a Single Connection configuration only.

DocuPrint does not support both network interfaces simultaneously.

PDL compatibility

The system interprets the following text formats:

- PostScript level 1
- PostScript level 2
- PCL5c
- PCL5e
- ASCII

Space requirements

	Depth	Width	Height
Controller			
Note: The following data is accurate for the Sun Ultra 2 workstation and is presented as an example of typical space requirements for workstations. Space requirements for the printer controller are 36 by 36 inches/ 91 by 91 cm.			
Processor	17.5 in. <p>44.5 cm</p>	17.5 in. <p>44.5 cm</p>	5 in. <p>12.7 cm</p>
Monitor	21 in. <p>53.3 cm</p>	19 in. <p>48.3 cm</p>	21 in. <p>53.3 cm</p>
4mm DAT SCSI tape drive (optional)	12.25 in. <p>31 cm</p>	7.5 in. <p>19 cm</p>	2.75 in <p>7 cm</p>
Keyboard	7.5 in. <p>19.1 cm</p>	20 in. <p>50.8 cm</p>	

Printer			
Space requirements (physical hardware and required service area) for each of the printer configurations are:			
DocuPrint 96 NPS printer with inverter feeder/stacker only	114 in. <p>290 cm</p>	191 in <p>485 cm</p>	
DocuPrint 96/4635/180 NPS printer with inverter feeder/stacker and one (1) feeder/stacker	114 in. <p>290 cm</p>	223 in. <p>567 cm</p>	
DocuPrint 4635 NPS printer with inverter feeder/stacker and two (2) feeder/stackers	114 in. <p>290 cm</p>	256 in. <p>649 cm</p>	
DocuPrint 180 NPS printer with inverter feeder/stacker and two (2) feeder/stackers	114 in. <p>290 cm</p>	257 in. <p>652.8 cm</p>	
DocuPrint 96/4635/180 NPS printer with inverter feeder/stacker and three (3) feeder/stackers	114 in. <p>290 cm</p>	288 in. <p>731 cm</p>	
DocuPrint 4635/180 NPS printer with inverter feeder/stacker, feeder/stacker, and bypass transport modules	114 in. <p>290 cm</p>	242 in. <p>615 cm</p>	
DocuPrint 4635/180 NPS printer with inverter feeder/stacker and three (2) feeder/stackers, and bypass transport modules	114 in. <p>290 cm</p>	276 in. <p>701 cm</p>	

Note: All the dimensions indicated are taken from the system frame to the nearest wall or obstruction, shown in inches (centimeters) and are absolute minimums.

- There should be a minimum of 78 inches (1,981 mm) clearance from the floor to the nearest overhead obstruction, throughout the entire area.
- 4635/180 NPS must be installed in a fixed location with minimum clearance space of 36 inches/ 914 mm around all sides of each piece of equipment for access by service personnel.
- 50 inches/1270 mm clearance is required in front of the 4635/180 NPS printer.

- The Printer Controller must be positioned within the line-of-sight of the printer for safety purposes while servicing the equipment.*
- Customer must supply a table or desk for the Printer Controller. Work surface must be at least 36" X 36" to provide enough space for the components and cables.
- For proper operation, the printer component must be perfectly level. On floors less than two degrees out of level, a leveling kit must be used to level the equipment. The printer will not function properly on floors more than two degrees out of level.

For additional space/configuration options, refer to the *Xerox DocuPrint 96/4635/180 NPS Installation Planning Guide* (Pub #721P8XXXX).

Special considerations

- Transference of the black toner to poly-vinyl surfaces is a common occurrence.
- Print quality is guaranteed to a range of three to four millimeters for edge marking and six millimeters for text printing to the edge of the page.
- Xerox carbonless paper is approved for DocuPrint 96/4635/180 NPS only. Refer to the Xerox Supplies Catalog for the reorder numbers.
- Appearance of very small spots is a common occurrence on all xerographic printers. Consult your Xerox service representative for details on acceptable spot occurrence specifications.



Environmental requirements



	Recommended	Minimum	Maximum
Operating temperature	72 ^o +/- 4 ^o F <p>22^o +/- 2^o C</p>	50 ^o F	85 ^o F
Humidity	45% +/- 10% RH	30% RH	65% RH

	Normal	Maximum
Altitude	Up to 6,000 feet above sea level	9,000 feet above sea level

Heat dissipation	Standby	Running
Printer Module	4,454 BTU/Hr (Fuser on) <p>2,700 BTU/Hr (Energy Saver)</p>	96/4635 NPS: 28,140 BTU/Hr <p>180 NPS: 32,770 BTU/Hr</p>
System Controller	1,100 BTU/Hr	

Electrical requirements

	System Controller	Printer Module
96/4635 NPS 50 Hz		
Voltage	100-240 VAC +/- 10%	Delta (3 phase, 4 wire): 220, 230, 240 VAC WYE (star) (3 phase, 5 wire) 380, 400, 415 VAC
Amperage	15 (power connection per local codes/regulations)	Delta (3 phase, 4 wire): 30 WYE (star) (3 phase, 5 wire): 20
96/4635 NPS 60 Hz		
Voltage	120 VAC (1 phase)	120/208 VAC; or 120/240 VAC (2 phase)
Amperage	15	50
Receptacle NEMA Part No.	Standard wall outlet	14-50R
Power Consumption KVA Rating Operating Mode	0.8	7.3 (+.75 per middle module)
Receptacle Diagram		

	System Controller	Printer Module	Printer Module
180 NPS 60 Hz		Cord #1	Cord #2
Voltage	See 96/4635 NPS	120/208 VAC; or 120/240 VAC (2 phase)	120/208 VAC; or 120/240 VAC (2 phase)
Amperage	See 96/4635 NPS	50	30
Receptacle NEMA Part No.	See 96/4635 NPS	14-50R	14-30R
Power Consumption KVA Rating Operating Mode	See 96/4635 NPS	7.3 (+.75 per middle module)	7.3 (+.75 per middle module)
Receptacle Diagram	See 96/4635 NPS		

Notes:

1. Dedicated service is required for each component. Each power cord must have a separate circuit.

2. Power requirements of the Bypass Transport are satisfied by the printer module.

Installation considerations

- Data Cables - Components can be separated up to the length of the data interface cables that connect them.
 - Printer and systems controller = 20 foot/6.1 m data cable
- Power cable lengths are as follows:

Printer Controller:	8 feet / 2.1 m
Printer:	15 feet / 6 feet/1.8m/4.5m (60 Hz)
- Cable length loss must be factored in if equipment is installed in a raised-floor environment. Part of the cable length is routed inside the equipment to connect with interior power receptacles.
- All power cords attach to the back of the printer. Listed below are the distances of the printer power cord attachments from the left end of the printer as you face it:
 - Cord #1: 36 inches / 914 mm
 - Cord #2: 23 inches / 584 mm (180 NPS only)

Supplies

	Reorder # (US)	Expected Yield (Prints/Carton)
Dry Ink	6R206	180,000
Dry Ink, MICR	6R819	180,000
Dry Ink waste bottle	93K460	N/A
Developer	5R161	1,000,000
Developer, MICR	5R573	600,000
Fuser agent	8R2955 (1 bottle)	250,000

Notes:

- Expected dry ink yield is based on a 7% area coverage, 8.5"X 11" paper, and will vary depending on area coverage of the application, as well as the darkness settings of the printer.
- The Xerox Supplies Marketing Center, 1.800.822.2200, is available for ordering Xerox supplies, including paper and other throughput material.

Supported hardware and operating systems

Xerox DocuPrint 4635 NPS supports the following types of networked client workstations and operating systems:

- Sun Workstation running Solaris 1.1.X or Solaris 2.X
- PC running MS-DOS 6.2 and Microsoft Windows 3.1, using Ethernet with TCP/IP or Novell NetWare, Windows95, Windows NT
- PC 386 or 486, running MS-DOS, version 6.2, with one or more of the following TCP/IP packages:
 1. PathWay Access 3.1, Wollongong Integrated Networking/ Transmission Control Protocol (WIN/TCP) for DOS, release 6.0
 2. FTP software, PC-TCP/IP for DOS, release 6.0
 3. Sun Personal Computer Network File Services (PC-NFS), version 5.1
- IBM RS/6000 running IBM AIX, version 4.1
- HP/Apollo running HP-UX, version 10.01
- DECStation 5000/200 running DEC Ultrix, version 4.3
- VAXStation 2000 running DEC VMS, version 5.5, with WIN/TCP, version 5.1
- Apple Macintosh, System 7 (7.5), using AppleTalk through EtherTalk, phase 1 or 2
- Any system that supports RFC-1179 lpr/lpd

Diagnostics (Sixth Sense Technology)

Sixth Sense technology is a user-friendly suite of tools that allow service personnel to connect with a customer system and evaluate its performance while the system is being used. The Customer Service Engineer (CSE) can troubleshoot problems remotely, transfer, apply, and remove patches remotely, and, if an on-site call is required, arrive with the solution to fix the problem.

Customer benefits of using this technology include:

- Diagnostic help and identification of required parts before the service visit
- Planned visits based on known problems and/or replacement of wear-out items
- Customer self-maintenance to provide faxed replacement change reminder to trained operators.

The Sixth Sense feature is available to customers at no charge through Xerox Service. Customers need to provide an analog phone line for use by the Sixth Sense modem connection, and a 120 Volt outlet for the modem to connect to. Customers unable to dedicate a phone line to the Sixth Sense connection may purchase three or five port phone share devices.

Xerox DocuPrint 96/4635/180 NPS

Customer Information

Quick Reference Card

THE DOCUMENT COMPANY
XEROX

Version 7.1
August 2000
721P88521