

SHARP

Be Original.

BP-90C80

Digital Full Colour Multifunctional System

A heavy-duty solution for colour printing on demand



High Productivity

The MFP delivers a fast output of 80 ppm^{*1}—even for paper as thick as 220 g/m². And if toner runs out during a print job, the MFP continues printing your documents while you change the toner cartridge.

On-screen System Information

The 15.4-inch full-flat touchscreen control panel shows the state of your MFP, displaying current operation and notifications for things like paper, toner, and maintenance.

Versatile Paper Handling

Handling a wide range of paper types and sizes, this MFP expands your possibilities for printing. Along with standard sizes up to SRA3/A3W, it can take extra-long and custom sizes. What's more, it handles paper thicknesses up to 360 g/m² as well as envelopes and other types of paper.

All the Needed Finishing Options

Finishing options are available for all your common needs—there's an inserter, a folding unit, a saddle stitch finisher, and a trimming module. These let you easily create professional-looking direct mail, handouts, booklets, brochures, and more.

Solid Security

The MFP has multiple levels of security to keep the device—and your precious data—secure.

Unified Cloud Connection^{*2}

You only need to sign in once to connect to multiple cloud services, such as Microsoft Teams, from the MFP. Applications can also be easily downloaded from the cloud. Updates are clearly displayed, so you're always using the latest version of services.

Superb Print Quality

The MFP supports 2,400 dpi writing resolution, so that fine lines and small text come out crisp and clear. For efficient front-to-back registration, the MFP automates adjustments of the vertical/horizontal ratio and position settings.

Full-bleed Printing

Edge-to-edge printing is available for both Windows and Mac printer drivers, with the MFP supporting A3 and A4 paper as well as paper up to 668 mm long. This helps you create eye-catching posters. And with the optional trimming module and saddle stitch finisher, you can also make full-bleed A4- and A5-size booklets.

Fiery® Server (option)

You can pair the MFP with a Fiery server—external or embedded—to manage a busy on-demand printing environment. For example, you could use the Sharp printer driver for standard text documents and the Fiery printer driver for graphic-rich documents. You need to register your paper settings only once—the settings on the Fiery server are automatically reflected on the Sharp MFP, and vice versa.

Eco-friendly Design

Despite its many functions, this MFP achieves superb energy efficiency. For example, the use of low-temperature-fusing toner results in vastly reduced energy consumption for the MFP.

High-performance DSPF

The DSPF (duplex single pass feeder) scans both pages of two-sided documents in one pass—in batches of up to 300 sheets. With scanning speeds of up to 280 opm^{*3} (two-sided), the MFP is quick to finish even large jobs.

^{*1}: A4 (8 1/2" x 11"), long-edge feeding. ^{*2}: In some countries/regions, optional equipment is required. ^{*3}: Originals per minute; when feeding A4 (8 1/2" x 11") sheets.

PROFESSIONAL-QUALITY PRINTING AND IN-LINE FINISHING OPTIONS

The MFP can be equipped to suit a variety of workplaces and applications. It supports full-bleed printing in all configurations. And you can choose finishing options to automate time-consuming finishing tasks.

Features		MX-FN21 Finisher	MX-FN21 Finisher +	MX-FN22 Saddle Stitch Finisher	MX-FN22 Saddle Stitch Finisher +
			MX-FD10 Folding Unit		MX-FD10 Folding Unit
	Stapling	✓	✓	✓	✓
	Punching ^{*1}	✓	✓	✓	✓
	Saddle folding			✓	✓
	Saddle stitching			✓	✓
	Half-folding		✓		✓
	Z-folding		✓		✓
	C-folding		✓		✓
	Accordion folding		✓		✓
	Double folding		✓		✓
	Trimming ^{*2}			✓	✓
	Insertion ^{*3}	✓	✓	✓	✓
	Edge-to-edge printing (one sheet)	✓	✓	✓	✓
	Edge-to-edge printing (booklet)			✓	✓

^{*1}: Requires optional punch module. ^{*2}: Requires optional trimming module. ^{*3}: Requires optional inserter.

Stapling

Rear corner Front corner 2-point side

Punching

2-hole punching 3-hole punching 4-hole punching 4-hole wide punching

Saddle Folding/Stitching

Saddle fold Saddle stitch

Trimming

Edge-to-edge Printing

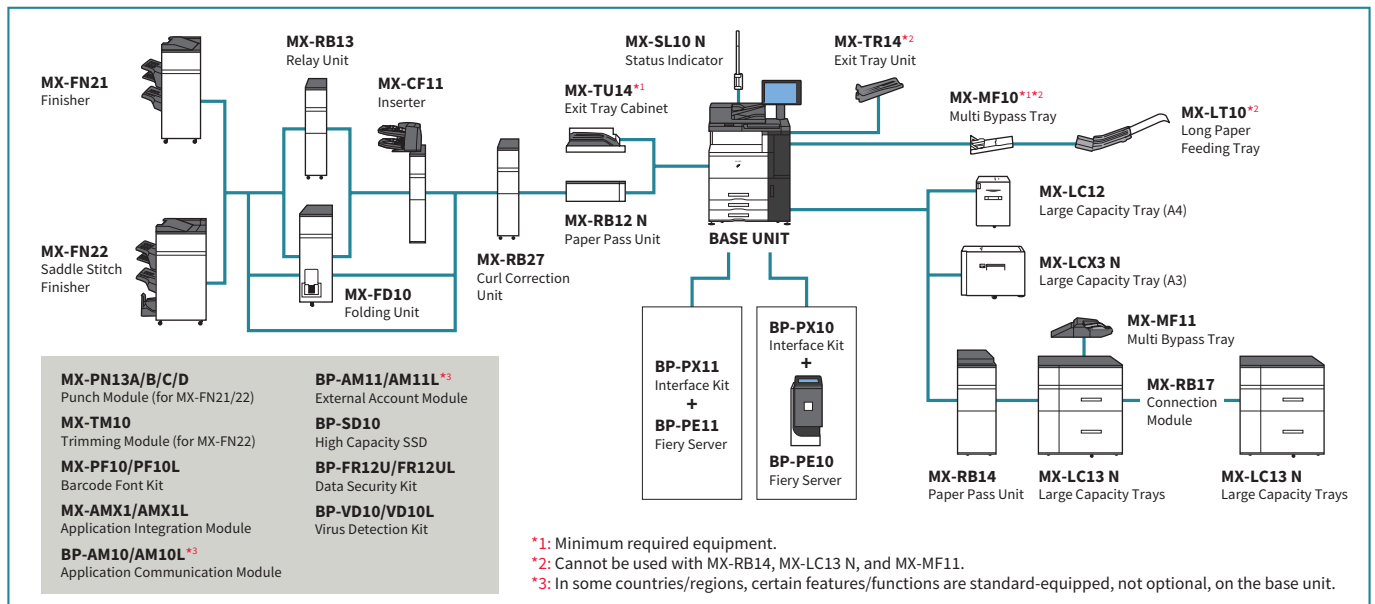
Folding

Half-fold Z-fold C-fold Accordion fold Double fold

Insertion

Cover Inner page

SYSTEM CONFIGURATION



Certain optional equipment may not be available in some areas.

SPECIFICATIONS FOR OPTIONAL EQUIPMENT

MX-FN21 Finisher

Paper size	Non offset	SRA3/A3W to A5 ^{*1} (13" x 19" to 5 1/2" x 8 1/2" ^{**2}) Custom sizes up to 330 x 488 mm (13" x 19.2")
	Offset/staple	A3 to B5 ^{*3} (11" x 17" to 8 1/2" x 11")
Paper weight	Non offset/offset	55 to 360 g/m² (13 lbs bond to 130 lbs cover)
	Staple	60 to 300 g/m² (16 lbs bond to 110 lbs cover)
Paper capacity	Upper tray (Non offset)	1,500 sheets (A4 ^{*3} , B5 ^{*3} , A5 ^{*1})
	(Staple)	750 sheets (SRA3, A3W, A3, B4, A4 ^{*1} , B5 ^{*1}) 100 sets or 1,500 sheets (A4 ^{*3} , B5 ^{*3}) 50 sets or 750 sheets (A3, B4, A4 ^{*1})
	Lower tray (Non offset)	2,500 sheets (A4 ^{*3} , B5 ^{*3}), 1,500 sheets (A5 ^{*1})
	(Offset)	750 sheets (SRA3, A3W, A3, B4, A4 ^{*1} , B5 ^{*1})
	(Staple)	1,500 sheets (A4 ^{*3} , B5 ^{*3}), 750 sheets (A3, B4, A4 ^{*1}) 100 sets (A4 ^{*3} , B5 ^{*3}), 50 sets (A3, B4, A4 ^{*1})
	Middle tray (Non offset)	250 sheets (A4 ^{*3} , B5 ^{*3} , A5 ^{*1})
		125 sheets (A3, B4, A4 ^{*1} , B5 ^{*1}), 30 sheets (SRA3, A3W)
Stapling capacity ^{**4}		100 sheets (A4 ^{*3} , B5 ^{*3}), 50 sheets (A3, B4, A4 ^{*1})
Staple position		3 locations (front, rear, or 2-point stapling)
Power consumption (max.)		200 W, 350 W with MX-FD10
Power requirements		AC 230 V, 10 A
Dimensions	With tray stored	654 x 765 x 1,040 mm (W x D x H)
	With tray extended	782 x 765 x 1,040 mm (W x D x H)
Weight (approx.)		61 kg

MX-FN22 Saddle Stitch Finisher

Paper size	Non offset	SRA3/A3W to A5 ^{*1} (13" x 19" to 5 1/2" x 8 1/2" ^{**2}) Custom sizes up to 330 x 488 mm (13" x 19.2")
	Offset/staple	A3 to B5 ^{*3} (11" x 17" to 8 1/2" x 11")
Paper weight	Non offset/offset	55 to 360 g/m² (13 lbs bond to 130 lbs cover)
	Staple/saddle stitch/folding	60 to 300 g/m² (16 lbs bond to 110 lbs cover)
Paper capacity	Upper tray (Non offset)	1,500 sheets (A4 ^{*3} , B5 ^{*3} , A5 ^{*1})
	(Staple)	750 sheets (SRA3, A3W, A3, B4, A4 ^{*1} , B5 ^{*1}) 100 sets or 1,500 sheets (A4 ^{*3} , B5 ^{*3}) 50 sets or 750 sheets (A3, B4, A4 ^{*1})
	Lower tray (Non offset)	2,500 sheets (A4 ^{*3} , B5 ^{*3}), 1,500 sheets (A5 ^{*1})
	(Offset)	750 sheets (SRA3, A3W, A3, B4, A4 ^{*1} , B5 ^{*1})
	(Staple)	1,500 sheets (A4 ^{*3} , B5 ^{*3}) 750 sheets (A3, B4, A4 ^{*1})
	Middle tray (Non offset)	100 sets (A4 ^{*3} , B5 ^{*3}), 50 sets (A3, B4, A4 ^{*1})
		250 sheets (A4 ^{*3} , B5 ^{*3} , A5 ^{*1})
	Saddle stitch tray	125 sheets (A3, B4, A4 ^{*1} , B5 ^{*1}), 30 sheets (SRA3, A3W)
		1 to 5 sheets: 25 sets, 6 to 10 sheets: 15 sets, 11 to 15 sheets: 10 sets, 16 to 20 sheets: 5 sets
Stapling capacity ^{**4}		100 sheets (A4 ^{*3} , B5 ^{*3}), 50 sheets (A3, B4, A4 ^{*1})
Staple position		3 locations (front, rear, 2-point stapling)
Power consumption (max.)		200 W, 350 W with MX-FD10
Power requirements		AC 230 V, 10 A
Dimensions	With tray stored	767 x 765 x 1,040 mm (W x D x H)
	With tray extended	896 x 765 x 1,040 mm (W x D x H)
Weight (approx.)		108 kg

Punch Modules

Model name	For the MX-FN21/22	MX-PN13A	MX-PN13B	MX-PN13C	MX-PN13D
Number of holes		2	3/2	4/2	4 (wide)
Paper weight		55 to 256 g/m²			
Power requirements		Supplied by MX-FN21/FN22 Finisher			

MX-TM10 Trimming Module (for MX-FN22)

Paper size	SRA3/A3W to A4 ^{*1} (13"x 19" to 8 1/2" x 11" ^{**1}) Custom sizes up to 330 x 488 mm (13" x 19.2")
Paper weight	60 to 300 g/m² (16 lbs bond to 110 lbs cover)
Acceptable number of sheets ^{*5}	2 to 20 sheets (60 to 81.4 g/m²) 2 to 10 sheets (81.4 to 105 g/m²) 2 to 3 sheets (105 to 220 g/m²)
Trim width	2 to 20 mm in 0.1 mm increments
Power requirements	Supplied by MX-FN22 Finisher
Weight (approx.)	32 kg

MX-FD10 Folding Unit

Folding mode	Z-fold, C-fold, Accordion-fold, Double-fold, Half-fold		
Paper size	Z-fold*6	A3 to A4*1 (11" x 17" to 8 1/2" x 11"*1)	
	Half-*6/C-/Accordion-/Double-fold	A4*1, 8 1/2" x 11"*1	
Paper capacity	Z-fold*6	30 sheets (A3, B4), 10 sheets (A4)	
	Half-fold*6	10 sheets (A4*1)	
	C-/Accordion-fold	40 sheets (A4*1)	
	Double-fold	25 sheets (A4*1)	
Paper weight	55 to 105 g/m ² (13 lbs bond to 28 lbs bond)		
Power requirements	Supplied by MX-FN21/FN22 Finisher		
Dimensions	336 x 793 x 1,050 mm (W x D x H)		
Weight (approx.)	66 kg		

MX-RB27 Curl Correction Unit

Paper size	SRA3/A3W to A5 ^{*1} (13" x 19" to 5 1/2" x 8 1/2" ^{**2}) Custom sizes up to 330 x 488 mm (13" x 19.2")
Paper weight	55 to 360 g/m² (13 lbs bond to 130 lbs cover)
Power requirements	Supplied by main unit
Dimensions	214 x 762 x 986 mm (W x D x H)
Weight (approx.)	19 kg

MX-CF11 Inserter

Paper size	SRA3/A3W to A5 ^{*1} (13" x 19" to 5 1/2" x 8 1/2" ^{**2}) Custom sizes up to 330 x 488 mm (13" x 19.2")
Paper weight	60 to 220 g/m² (16 lbs bond to 80 lbs cover)
Paper capacity	Upper/lower tray 200 sheets/each
Power requirements	Supplied by main unit
Dimensions	With tray stored 540 x 760 x 1,276 mm (W x D x H)
	With tray extended 690 x 760 x 1,276 mm (W x D x H)
Weight (approx.)	45 kg

MX-LC12 Large Capacity Tray (A4)

Paper size	A4 ^{*3} , B5 ^{*3} , 8 1/2" x 11" ^{**3}
Paper weight	60 to 220 g/m² (16 lbs bond to 80 lbs cover)
Paper capacity	3,500 sheets
Power requirements	Supplied by main unit
Dimensions	376 x 576 x 524 mm (W x D x H)
Weight (approx.)	29 kg

MX-LCX3 N Large Capacity Tray (A3)

Paper size	SRA3/A3W to B5 ^{*3} (12" x 18" to 8 1/2" x 11")
Paper weight	60 to 220 g/m² (16 lbs bond to 80 lbs cover)
Paper capacity	3,000 sheets
Power requirements	Supplied by main unit
Dimensions	670 x 570 x 525 mm (W x D x H)
Weight (approx.)	50 kg

MX-LC13 N Large Capacity Trays

Paper size	SRA3/A3W to B5 (13" x 19" to 7 1/4" x 10 1/2" ^{**1}) Custom sizes up to 330 x 488 mm (13" x 19.2")
Paper weight	55 to 360 g/m² (13 lbs bond to 130 lbs cover)
Paper capacity	Upper/lower tray 2,500 sheets/each
Power consumption	900 W
Power requirements (max.)	AC 230 V, 10 A
Dimensions	895 x 763 x 986 mm (W x D x H)
Weight (approx.)	131 kg

MX-MF10 Multi Bypass Tray

Paper size	SRA3/A3W to A6 ^{*7} (13" x 19" to 5 1/2" x 8 1/2" ^{**2}) Custom sizes up to 330 x 488 mm (13" x 19.2")
Paper weight	55 to 360 g/m² (13 lbs bond to 130 lbs cover)
Paper capacity	100 sheets
Dimensions	With tray stored 180 x 416 x 316 mm (W x D x H)
	With tray extended 465 x 416 x 117 mm (W x D x H)
	With auxiliary guide extended 579 x 416 x 117 mm (W x D x H)
Weight (approx.)	3 kg

MX-MF11 Multi Bypass Tray (for MX-LC13 N)

Paper size	SRA3/A3W to A5 ^{*1} (13" x 19" to 5 1/2" x 8 1/2" ^{**2}) Custom sizes up to 330 x 488 mm (13" x 19.2")
Paper weight	55 to 220 g/m² (13 lbs bond to 80 lbs cover)
Paper capacity	500 sheets
Power requirements	Supplied by MX-LC13 N Large Capacity Trays
Dimensions	With tray stored 705 x 556 x 203 mm (W x D x H)
	With tray extended 878 x 556 x 203 mm (W x D x H)
Weight (approx.)	18 kg

MX-LT10 Long Paper Feeding Tray

Paper size	Width Length	90 to 305 mm 489 to 1,300 mm
Paper capacity		1 sheet
Dimensions	With tray stored With tray extended	338 x 195 x 107 mm (W x D x H) 581 x 195 x 130 mm (W x D x H)
Weight (approx.)		0.8 kg

Note: All specifications relating to paper capacity refer to 80 g/m² paper.

^{*1}: Short-edge feeding.
^{*2}: Short-edge feeding for 7 1/4" x 10 1/2" and 5 1/2" x 8 1/2" paper.
^{*3}: Long-edge feeding.
^{*4}: Using 80 g/m² paper, can include back and front covers (total of 2 sheets) of heaviest paper that can be stapled.
^{*5}: Can include a single cover sheet of 300 g/m² or less.
^{*6}: Z-fold and half-fold pages are ejected from the finisher (MX-FN21/FN22).
^{*7}: Short-edge feeding for A5 and A6 paper.

SPECIFICATIONS

General

Type	Console
Engine speed (80 g/m ²)	A4 (8 1/2" x 11") ^{*1} : Max. 80 ppm A3 (11" x 17") ^{*1} : Max. 45 ppm ^{*2} A3W: Max. 43 ppm ^{*2} SRA3: Max. 44 ppm ^{*2}
Control panel display	15.4-inch colour LCD touchscreen
Paper size	Max. SRA3/A3W (13" x 19"), min. A6 (5 1/2" x 8 1/2") ^{*3}
Paper capacity (80 g/m ²)	Standard: 3,100 sheets ^{*4} (1,200-sheet tray, 800-sheet tray, 500-sheet tray x 2, and optional 100-sheet multi bypass tray) Max.: 13,500 sheets (3,000 sheets & optional 2 x 2,500-sheet tray x 2 and 500-sheet multi-bypass tray)
Paper weight	Tray 1&2: 60 g/m ² to 105 g/m ² (16 lbs bond to 28 lbs bond) Tray 3&4: 60 g/m ² to 300 g/m ² (16 lbs bond to 110 lbs cover) Multi bypass tray (MX-MF10): 55 g/m ² to 360 g/m ² (13 lbs bond to 130 lbs cover) Multi bypass tray (MX-MF11): 55 g/m ² to 220 g/m ² (13 lbs bond to 80 lbs cover) Large capacity tray (MX-LC12, MX-LCX3 N): 60 g/m ² to 220 g/m ² (16 lbs bond to 80 lbs cover) Large capacity trays (MX-LC13 N): 55 g/m ² to 360 g/m ² (13 lbs bond to 130 lbs cover)
Warm-up time ^{*5}	80 sec. ^{*6}
Memory	Standard: 6 GB (copy/print shared) 256 GB SSD ^{*6} Option: 512 GB ^{*7&8}
Power requirements	AC 220 V to 240 V, 8 A, 50/60 Hz (10 A plug x 2)
Power consumption	Max. 3.84 kW (220 V to 240 V)
Dimensions (W x D x H) ^{*9}	982 x 768 x 1,530 mm (38 43/64" x 30 1/4" x 60 1/4")
Weight (approx.)	220 kg (485.1 lbs)

Copier

Original paper size	Max. A3 (11" x 17")
First copy time ^{*10}	Full colour: 4.6 sec. B/W: 3.5 sec.
Continuous copy	Max. 9,999 copies
Resolution	Scan (colour): 600 x 600 dpi Scan (B/W): 600 x 600 dpi, 600 x 400 dpi Print (colour & B/W): 1,200 x 1,200 dpi, 600 x 600 dpi, 9,600 (equivalent) x 600 dpi
Gradation	Equivalent to 256 levels
Zoom range	25% to 400% (25% to 200% using DSPF) in 1% increments
Preset copy ratios	Metric: 10 ratios (5R/5E), inch: 8 ratios (4R/4E)

Network Scanner

Scan method	Push scan (via control panel) Pull scan (TWAIN-compliant application)
Scan speed ^{*11} (colour & B/W)	One-sided: Max. 140 originals/min. Two-sided: Max. 280 originals/min.
Resolution	Push scan: 100, 150, 200, 300, 400, 600 dpi Pull scan: 75, 100, 150, 200, 300, 400, 600 dpi 50 dpi to 9,600 dpi via user setting ^{*12}
File formats	TIFF, PDF, PDF/A-1a, PDF/A-1b, encrypted PDF, XPS, compact PDF ^{*13} , JPEG ^{*13} , searchable PDF, OOXML (docx, xlsx, pptx), text (TXT [UTF-8]), rich text (RTF)
Scan destinations	Email/FTP server/network folder (SMB)/USB drive/local drive

Document Filing

Document filing capacity ^{*14}	Main and custom folders: 20,000 pages or 3,000 files
Stored jobs	Quick file folder: 10,000 pages or 1,000 files
Storage folders	Copy, print, scan Quick file folder, main folder, custom folder (max. 1,000 folders)

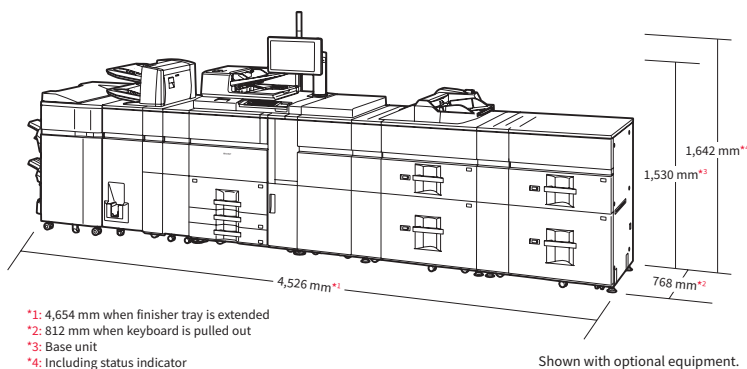
Network Printer

Resolution	2,400 x 2,400 dpi, 1,200 x 1,200 dpi, 600 x 600 dpi, 9,600 (equivalent) x 600 dpi
Interface	USB 2.0 (host, high-speed), USB 3.0 (host, super speed), 10Base-T/100Base-TX/1000Base-T
Supported OS	Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019, Windows Server 2022, Windows 10, Windows 11, Mac OS 10.10, 10.11, 10.12, 10.13, 10.14, 10.15, 11, 12, 13, 14
Network protocols	TCP/IP
Printing protocols	LPR, Raw TCP (port 9100), POP3 (email printing), HTTP, FTP for downloading print files, IPP, SMB, WSD
PDL	PCL 6 emulation, Adobe PostScript 3
Available fonts	80 fonts for PCL, 139 fonts for Adobe PostScript 3

Fiery® Server (option)

	BP-PE10	BP-PE11
Type	External server	Embedded server
Interface kit	BP-PX10	BP-PX11
System software	Fiery FS600 Pro	Fiery FS600
Operating system	Windows 10	Linux
CPU	Intel® Core™ i5-8500	Intel Pentium® G5400
Memory	8 GB DDR4, 1 TB HDD, 240/256 GB SSD	8 GB DDR4, 500 GB HDD
Resolution	1,200 x 1,200 dpi, 600 x 600 dpi (PS, PCL)	
Supported OS	Windows Server 2012 ^{*15} , Windows Server 2012 R2 ^{*15} , Windows Server 2016, Windows Server 2019, Windows Server 2022, Windows 10, Windows 11, Mac OS 10.14 ^{*16} , 10.15, 11, 12, 13, 14	
Network protocols	TCP/IP, LDAP, iPrint thru LPR	
Interface	Gigabit Ethernet	
Printing protocols	LPD, PAP, SMB, port 9100, IPP, FTP printing, print via email, WSD	
PDL	Adobe PostScript 3	
Available fonts	138 fonts for Adobe PostScript 3	
Power requirements	AC 100 V to 240 V, 50/60 Hz	
Power consumption	Max. 350 W	Max. 80 W
Dimensions (W x D x H)	235 x 464 x 528 mm (9 17/64" x 18 3/32" x 20 51/64")	90 x 272 x 297 mm (3 35/64" x 10 23/32" x 11 45/64")
Weight (approx.)	17 kg (37.5 lbs)	6 kg (13.3 lbs)

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