

Ricoh Aficio SP 4310N
B/W Laser Printer
Maximum Performance,
Minimal Investment

RICOH

versatile



scalable



reliable



Ricoh Aficio **SP 4310N**

A scalable business solution.

At 37-ppm, the versatile and eco-friendly RICOH® Aficio® SP 4310N black & white laser printer delivers superior performance that grows along with your business. Increase paper capacity without occupying more space to handle rising volumes. Install automatic duplexing when your needs call for efficient two-sided printing. Equip this solution-ready printer with optional interfaces and workflow tools to meet your unique connectivity and application requirements—the Ricoh Aficio SP 4310N easily fits into any environment whether front office or host print, wired or wireless networks. Add a Hard Disk Drive to enable robust local document storage and print-on-demand capabilities, plus built-in data and device security. Best of all, the compact SP 4310N employs Ricoh's proven All-In-One (AIO) print cartridge technology and innovative energy saving features for maximum uptime and ease of use with a low total cost of ownership.



Scalable Ecological Productive Secure

Expandable In So Many Ways

The Ricoh Aficio SP 4310N provides the speed and image quality every business demands, plus the versatility to address your specific needs.

- Meet every deadline. The powerful 466 MHz controller efficiently processes every job. Print with 37-ppm productivity at resolutions up to 1200 x 600 dpi. Standard Ethernet plus optional wireless or Gigabit connectivity share the printing power.
- Increase memory in step with expanding workgroups. Add more RAM to handle larger files and multiple print jobs with maximum efficiency. Install the optional 80 GB Hard Disk Drive to enable secure local document storage and print-on-demand capabilities for up to 9,000 pages.
- Maximize your investment through environmental versatility. In addition to support for Adobe® PostScript®3™ and PCL Windows and Mac printing, the Ricoh Aficio SP 4310N provides specialized tools such as Ricoh's genuine IPDS and barcode printing solution to optimize performance in host print workflows.
- Start small and boost paper capacity to meet growing volumes. Install one or two 500-sheet Paper Feed Units to minimize reloading. Add Automatic Duplexing for productive two-sided printing and a 60-piece Envelope Feeder to speed mailing applications. Every tray is user-adjustable and supports media up to 8.5" x 14"; the Bypass accepts sheets up to 17" long.

Efficient and Ecological

An All-In-One printer for everyone, the Ricoh Aficio SP 4310N combines simplicity in design and operability with affordable, energy-efficient laser printing.

- Maximize user friendliness with the informative 4-line LCD panel. View printer status at a glance, get simple maintenance guidance, and easily select stored documents for reprinting.
- Achieve affordable laser quality output with proven All-In-One print cartridge technology that delivers high yields and low cost-per-page factors. The user-serviceable design saves even more by minimizing service tasks. Replace the AIO cartridge in seconds for maximum uptime and do-it-yourself convenience.
- Reduce your total cost of ownership further with an energy efficient design. Save supplies with Toner Saving Mode and optional Automatic Duplexing.
- Manage job queues and network settings, view supply status, and initiate proactive maintenance right from your desktop using the Web Image Monitor utility. Network administrators can use Ricoh's @Remote fleet management tool for enterprise-wide printer monitoring and optimization across multiple units and locations.

Control Data and Device Access

The Ricoh Aficio SP 4310N supports the security tools you need to manage device access and safeguard confidential data sent to the printer.

- Protect print jobs and passwords with standard 256-bit SSL data encryption to prevent information theft, interception, or falsification.
- Activate the User Code feature to restrict device access, set volume limits, and track printer usage for up to 200 individual users.
- Help ensure compliance with client/patient privacy regulations. The 80 GB Hard Disk Drive option provides a confidential Locked Print feature plus secure local document storage with advanced data encryption and overwrite protection.
- Enjoy the confidence that comes from knowing your decision to invest in the SP 4310N is backed by your local authorized Ricoh dealership committed to meeting your business objectives for performance, cost control, and security.



The printer incorporates a redesigned 4-line LCD panel with an integrated 12-key alphanumeric keypad. The larger LCD allows for at-a-glance supply monitoring and more informative system status messages; the keypad makes it easier to enter network settings and PINs for convenient secure printing.

The Total Green Office Solution



Ricoh continues its long-standing commitment to developing office solutions with environmentally friendly and superior energy- and supply-saving features, without compromising productivity.

Ricoh Aficio SP 4310N

Specifications



Main Unit Specifications

Aficio SP 4310N Configuration Technology	Part # 406799 Desktop Monochrome Laser Printer Laser beam scanning & electrophotographic printing Dual-component toner development
Control Panel	4-line LCD + Integrated 12-key alphanumeric keypad
Print Resolution	300 x 300 dpi 600 x 600 dpi 1200 x 600 dpi
Output Speed	37 pages per minute (Letter)
First Print Speed	6.9 seconds or less
Warm-up Time	19 seconds or less
Non-printable Area	12 seconds or less (from Energy Saver mode)
Standard Paper Supply	Approx. 1/6" (4.2 mm) around all four sides 500-sheet Tray + 100-sheet Bypass Tray = 600 sheets
Optional Paper Supply	500-sheet Paper Feed Unit (1 or 2 may be installed)
Maximum Paper Capacity	1,600 sheets
Automatic Duplexing	Optional (approx. 90% productivity)
Output Capacity	250 sheets, face down
Acceptable Paper Sizes	Standard Tray: 5.5" x 5.5" – 8.5" x 14" (139.7 mm x 139.7 mm – 216 mm x 356 mm) Bypass Tray: 2.52" x 5.5" – 8.5" x 17" (64 mm x 139.7 mm – 216 mm x 432 mm) Optional PFUs: 5.5" x 6.3" – 8.5" x 14" (139.7 mm x 160 mm – 216 mm x 356 mm) When Duplexing: 5.5" x 8.5" – 8.5" x 14" (139.7 mm x 216 mm – 216 mm x 356 mm)
Acceptable Paper Weights	Standard Tray: 16 – 34 lb. Bond (60 – 130 g/m ²) Bypass Tray: 16 – 43 lb. Bond/90 lb. Index (60 – 162 g/m ²) Optional PFUs: 16 – 34 lb. Bond (60 – 130 g/m ²) When Duplexing: 16 – 28 lb. Bond (60 – 105 g/m ²)
Acceptable Paper Types	Standard Tray: Plain Paper, Thick Paper, Preprinted Paper, Letterhead, Labels Bypass Tray: Plain Paper, Thick Paper, Preprinted Paper, Letterhead, Labels, Transparency, Envelopes Optional PFUs: Plain Paper, Thick Paper, Preprinted Paper, Letterhead, Labels
Envelope Feeder	Envelopes (Installs inside optional PFU)
Dimensions (WxDxH)	15.28" x 17.72" x 13.58" Main Unit only (388 mm x 450 mm x 345 mm) 15.28" x 21.37" x 13.58" w/Duplex Unit (388 mm x 543 mm x 345 mm)
Weight	34.1 lb. (15.5 kg) Main Unit only 47.3 lb. (21.4 kg) w/Duplex Unit
Power Requirements	120V, 60Hz
Power Consumption	Maximum: 960W or less Energy Saver: 3.9W or less
Safety Regulations	UL60950-1, CAN/CSA C22.2 No.60950-1 (c-UL)
EMI	FCC Part15 Subpart B <Class B>, IC ES-003
Environmental Standard	Energy Star, BAM

Hardware Accessories

Paper Feed Unit TK 1030	Part # 402807
Capacity	500 sheets, 1 or 2 units may be installed
Paper Size	5.5"x6.3"-8.5"x14" (139.7x160 mm – 216x356 mm)
Paper Weights	16 – 34 lb. Bond (60 – 130 g/m ²)
Dimensions (WxDxH)	15.3" x 19.1" x 5.3" (388x486x135 mm)
Weight	Less than 13.2 lb (Less than 6 kg)
Duplex Unit AD 1000	Part # 402808
Paper Size	5.5" x 8.5" to 8.5" x 14"
Paper Weights	16 – 28 lb. Bond (60 – 105 g/m ²)
Dimensions (WxDxH)	12.0" x 13.3" x 8.5" (306x337x216 mm)
Weight	Less than 13.2 lb (Less than 6 kg)
Envelope Feeder Type 400*	Part # 400939
Capacity	Up to 60 envelopes
Paper Size	Crane Crest Com #10, Strathmore Writing Com #10, Neenah Classic Crest Com #10, C5, C6, DL
Dimensions (WxDxH)	14.1" x 16.8" x 3.9" (359.4x427x101 mm)
Weight	Less than 4.4 lb (Less than 2 kg)

*Required to stack envelopes inside an optional Paper Feed Unit TK 1030.

Print Controller Specifications

CPU	466 MHz
Memory	256 MB RAM standard 512 MB RAM maximum 80 GB Hard Disk Drive (Optional)
Standard Interfaces	10/100Base-TX Ethernet USB 2.0 Host (Type A) USB 2.0 Hi Speed (Type B) Dual SD/VM Card slots for expanded functionality
Optional Interfaces	IEEE 802.11a/g Wireless LAN Gigabit Ethernet (1000Base-T) IEEE 1284/ECP Parallel
Printer Languages/ Drivers	PCL 5e PCL 6 XPS Adobe PostScript 3 + PDF Direct Print Optional genuine IPDS
Fonts	PCL: 45 fonts + 13 International fonts PostScript 3: 136 fonts IPDS: 108 fonts (optional)
Network Protocols	TCP/IP AppleTalk IPX/SPX (optional) Windows XP, Vista, 7, Server 2003, Server 2003/R2, Server 2008, Server 2008/R2 Mac OS 8.6 – 9.2x, OS X v.10.2+ Novell NetWare v 6.5 SAP R/3 Citrix Presentation Server Various UNIX/Linux OS
Supported Environments	Bundled Utilities: Web Image Monitor Printer Utility for Mac Font Manager 2000 @Remote Embedded Software Architecture (ESA™) ready
Software Utilities	Web SmartDeviceMonitor SmartDeviceMonitor for Admin DeskTopBinder Lite
Optional Utilities	

Standard Security Features

200 User Codes	256-bit SSL Print Job Data Encryption
802.1X Authentication	Address Book & Password Encryption
IP Address Filtering	IPsec Communications
Network Protocol Management	SNMP v3 Authentication
User Lockout/Auto Logout	Administrator Authentication (5 levels) (with 80 GB HDD option)
User Authentication (3 types)	Locked Print
HDD Data Encryption Unit + DataOverwrite Security System (DOSS) (bundled with HDD option)	WPA (Wi-Fi Protect Access) (w/IEEE 802.11a/g option)

Optional Security Features

Controller & Memory Options

128 MB RAM Memory Unit Type G	Part # 402965
256 MB RAM Memory Unit Type G	Part # 414046
80 GB Hard Disk Drive Type 4310	Part # 406884
Includes HDD Encryption Unit & Data Overwrite (DOSS)	
Gigabit Ethernet (Type C)	Part # 406914
IEEE 802.11a/g Wireless LAN (Type L)	Part # 403000
IEEE 1284/ECP Parallel (Type A)	Part # 411699
IPDS Unit Type 4310	Part # 406807
SD Card for Netware Printing (Type G)	Part # 406885
Data Storage Card Type A	Part # 402627
VM Card Type O	Part # 406678
Ricoh BB-HPL10A-R High Definition	Part # 100123FNG
Power Line Communications Ethernet Adaptor	
Ships with 1 Master Adaptor, 1 Terminal Adaptor, and 2 power cords.	
Additional Adaptors can be purchased separately.	

Consumables

	Part #	Yield
All-In-One Black Print Cartridge SP 4100	406997	15,000 prints*
Maintenance Kit SP 4100 Type 120	406642	90,000 prints*

Includes Fusing Unit, Transfer Roller, Paper Feed Rollers and Friction Pads

*Declared toner yield values in accordance with ISO/IEC 19752. Actual yields may vary based on types of images printed and other factors.

The Ricoh Aficio SP 4310N ships with a starter AIO cartridge yielding 6,000 pages. All other consumables ship at full yield. For maximum performance and yield, we recommend using genuine Ricoh parts and supplies.

What's in the Box?

Every Ricoh Aficio SP 4310N ships with the mainframe, a starter All-In-One print cartridge with toner for 6,000 prints (using ISO/IEC 19752), printed operator manuals, software, electronic documentation, and printer drivers on a CD-ROM, a power cable, and the paper tray cover. USB and network cables not included.

Warranty

The Ricoh Aficio SP 4310N is under warranty against defects for a period of one year from the date of purchase. Consumables are under warranty for a period of 90 days from the date of purchase or until depleted, whichever comes first. Please refer to warranty documents shipped with the product for more details.

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