Ricoh Aficio SP C820DN

Color Laser Printer

Keep More Jobs In-House

RICOH

reliability

control

on-demand

Ricoh Aficio SP C820DN Series Color Laser Printer

Take Control Of Your Documents

The RICOH® Aficio® SP C820DN Series Color Laser Printer helps offices bring more full-color documents in-house and regain control of your budget. This cost-effective printer produces a wide variety of jobs on all kinds of media, with in-line finishing. As a result, you can reduce outsourcing costs without sacrificing document quality or visual appeal. The Ricoh Aficio SP C820DN Series is based on a successful, market-proven design. That means you can expect high reliability and easy maintenance, plus helpful device management and security tools. All from a network printer that offers exceptional productivity and a total cost of ownership that ranks among the lowest in its class.

ControlPerformanceSecurityValue

Improve In-House Productivity

The Ricoh Aficio SP C820DN Series is one of the most productive color printers on the market today.

- Print presentations, reports, brochures and other documents quickly. This printer delivers 40 pages-per-minute speed for full-color and black & white output.
- Cut wait time. Expect your first color print in nine seconds, or just eight seconds for black & white. Warm-up time is less than a minute.
- Meet the demands of a large office without frequent paper refills. This printer holds up to 3,200 sheets with all trays and options.
- Prevent document mix-ups with a 4-Bin Mailbox that allows shared access to the printer and maintains user privacy.
- Reprint forms and other frequently used documents instantly with the optional 80 GB Hard Disk Drive (HDD), which enables a full line of print-on-demand choices.

Dramatically reduce the need for outsourcing by printing an incredible variety of full-color documents in-house.

Long-Lasting Reliability

The Ricoh Aficio SP C820DN Series combines high durability with low total cost of ownership (TCO).

- Ensure flawless operation for the long haul. This reliable printer has a monthly duty cycle that easily outperforms the competition and supports heavy use.
- Enjoy smooth, uninterrupted print runs with a shorter, soft curve paper path that easily accommodates heavy stocks and makes it simple to clear jams.
- Produce more color output while keeping your budget under control with low operating costs and high-yield consumables.

The printer's smart, accessible design makes it easy for anyone to replace the toner cartridges.

Tight Security, Easy Management

Protect confidential documents and make life much easier for IT.

- Reduce the risk of color printing being abused. Administrator and user authentication provides accountability and helps prevent unauthorized access.
- Keep documents secure if the hard drive is stolen. The DataOverwriteSecurity System (DOSS) option overwrites hard drive data after every print job.
- Maximize your technology investment across the entire organization with the embedded @Remote solution, an advanced device utilization and fleet reporting utility.
- Configure network settings, browse printer status, manage administrator/user authentication settings and even view system status, such as paper and supply levels, with utilities like Web Image Monitor.

Outstanding Flexibility

Produce booklets, flyers, handouts, banners, and more.

- Select the ideal resolution for any job. Optimize color quality for shadow detail and skin tones with 4-bit color and interpolated resolution up to 9600 x 600 dpi.
- Expand your capabilities with heavier paper stock. All paper trays accept weights up to 140 lb. Index in simplex mode and up to 90 lb. Index in duplex mode.
- Publicize events with full-color banners up to 12" wide and 49.6" long.
- Staple reports, strategic plans and other documents with the 3,000-Sheet Finisher. Add the Hole Punch Unit to prepare output for insertion in three-ring binders.
- Produce high-impact, full-color training, education and marketing materials with folding and saddle-stitching using the 1,000-Sheet Booklet Finisher.

The Total Green Office Solution

ENERGY STAR

Our earth, Our tomorrow

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 C820DN Series

Specifications

Aficio®

Mainframe EDP Codes

Aficio SP C820DN	406547
Aficio SP C820DNT1	406548
Aficio SP C820DNT2	406549
Aficio SP C820DNLC	406550

System Specifications

Configuration	Desktop
Technology	Laser-beam scanning & electrophotographic printing with dual component toner development, 4-drum tandem method
Printing Speed	40-ppm black & white and full-color
Warm-Up Time	35 seconds
First Print Speed	Black & white: 8 seconds or less Full-color: 9 seconds or less
Duplex Print Speed	Near 100% productivity for all paper sizes
Print Resolution	600 x 600-dpi (1-bit) 600 x 600-dpi (2-bit) (Default) 600 x 600-dpi (4-bit) 1200 x 1200 dpi (1-bit)
Standard Input Capacity	SP C820DN (Base): 2 x 550 sheets + 100-Sheet Bypass Tray* SP C820DNT1**: 3 x 550 sheets + 100-Sheet Bypass Tray SP C820DNT2: 4 x 550 sheets + 100-Sheet Bypass Tray SP C820DNLC: 2 x 550 sheets + 2,000 sheet LCT + 100-Sheet Bypass Tray (Maximum 3,200 Sheets)

*Can be configured with 550 x 1 Paper Feed Unit; 550 x 2 Paper Feed Unit, Large Capacity Tray or FAC33 Large Cabinet Stand.
**Can be configured with 550 x 2 Paper Feed Unit or FAC35 Stand.

Output Capacity	Standard: 500 sheets face down Optional: 3,000-Sheet Finisher, 1,000-Sheet Booklet Finisher or 4-Bin Mailbox Maximum: 4,000-sheet stack capacity (with 3,000-Sheet Finisher and 4-Bin Mailbox)
Paper Sizes	First Paper Tray: 8.5" x 11" Second Paper Tray: 7.17" x 5.83" – 11" x 17" Bypass Tray: Width: 3.5" – 12", Length: 5.8" x 49.6" Optional Large Capacity Tray: 8.5" x 11" Optional Paper Feed Units: 7.17" x 5.83" – 11" x 17"
Paper Weights	Standard & Optional Paper Feed Units, Large Capacity Tray: 16 – 68 lb. Bond/ 140 lb. Index (60 – 256 g/m²) Bypass Tray: 16 – 68 lb. Bond/140 lb. Index (60 – 256 g/m²) (Source for Labels, OHP, and Envelopes) Duplex Unit: 16 – 45 lb. Bond/ 90 lb. Index (60 – 169 g/m²)
Paper Types	Bond, Plain, Recycled, Preprinted, Special, Color, Letterhead, Card Stock, Glossy, Coated, Labels, OHPs and Envelopes
Auto Duplex	Standard
Dimensions (WxDxH) (Base Model)	26.4" x 26.4" x 25.2" (670 x 670 x 640 mm) (Standard Configuration)
Weight (Base Model)	Less than 213 lb. (97 kg)
Power Requirements	120V, 60Hz
Operating Power Consumption	890W
Maximum Power Consumption	1440W
Energy Saver	2.2W

Printer Controller Specifications (Standard)

CPU	Intel Celeron M @ 600MHz
Memory	SP C820DN, SP C820DNT1: Standard 512 MB RAM/Maximum 1 GB RAM SP C820DNLC, SP C820DNT2: Standard 768 MB RAM/Maximum 1 GB RAM
Hard Disk Drive	80 GB HDD Optional on all models
Printer Languages	PCL 5c, PCL 6, RPCS, Adobe® PostScript® 3™, PDF Direct Print
Fonts	Standard: 45 PCL fonts, 13 International fonts, 136 PostScript 3 fonts Optional: OCR and Barcode fonts available
Standard Interfaces	10/100Base-TX Ethernet (RJ-45), USB 2.0, USB Host I/F
Optional Interfaces*	IEEE 1284 Interface Board Type A – Part # 411699 IEEE 802.11a/bg Wireless LAN Type J – Part # 414008 Bluetooth Wireless Interface Type 3245 – Part # 412866 Gigabit Ethernet Board Type B – Part # 414204

*Only one additional interface can be installed.

Network Protocols	Standard: TCP/IP (IPv4, IPv6), SMB, AppleTalk Optional: IPX/SPX
Operating Systems	Windows 2000/XP/Server 2003/ Server 2008/Vista; Novell NetWare 3.12, 3.2, 4.1, 4.11, 5.0, 5.1, 6, 6.5; UNIX (using Ricoh UNIX filter Phase 11): Sun Solaris, HP-UX, SCO OpenServer, RedHat Linux,and IBM AIX; Citrix Metaframe, Mac OS 8.6 – 9.2x, OS X10.1 or later; SAP R/3 3.x or later
Drivers	RPCS, PCL5c, PCL6: Windows 2000/ XP/Server 2003/Vista/Server 2008 XPS: Windows Vista/Server 2008 PostScript: Windows 2000/XP/Server 2003/Vista/Server 2008, Macintosh 8.6 or later, OS X (v. 10.1, 10.2, 10.3)
Utilities	SmartDeviceMonitor for Admin and Client; Web SmartDeviceMonitor (Optional); Web Image Monitor; DeskTopBinder V2 Lite; Print Utility for Mac; Agfa Font Manager 2000

Controller Options

Printer Hard Disk Drive Type 820 – Part # 004167MIU
Camera Direct Print Card Type F – Part # 403108: Enables direct printing from a PictBridge™ enabled digital camera, without a PC.
VM Card Type K for ESA™ – Part # 406535
BB-HPL10A-R HD-PLC Ethernet Adaptor – Part # 100123FNG
Netware Card Type A – Part # 403114
Memory Options
Memory Unit Type J 256 MB RAM – Part # 004166MIU
Memory Unit Type J 512 MB RAM – Part # 004165MIU

Security Features

DataOverwriteSecurity System Type M (Optional) – Part # 406495: Security feature that overwrites latent data on the system's hard drive after scan and print jobs
HDD Encryption Unit Type D (Optional) – Part # 403113: Encrypts data on HDD, so data is secure even if HDD is stolen
Other Security Features
Network Protocols ON/OFF, Administrator Authentication, Job Log/Job Access, IP Address Filtering, User Account Registration, User Authentication, Wi-Fi Protect Access (WPA), Kerberos, 802.1X Wired Authentication, 128-bit Secure Socket Layer, SNMP v3 Encryption, IPsec Communication, Locked Print Password Encryption, Unauthorized Copy Control and Mask Type for Copying

Hardware Accessories

Two-Tray Paper Feed Unit (PB3040) – Part # 415002

Paper Capacity	1,100 sheets (550 x 2)
Paper Sizes	7.17" x 5.83" – 11" x 17"
Paper Weights	16 – 68 lb. Bond/140 lb. Index (60 – 256 g/m²)

One-Tray Paper Feed Unit (PB3080) – Part # 414720

Paper Capacity	550 sheets (550 x 1)
Paper Sizes	7.17" x 5.83" – 11" x 17"
Paper Weights	16 – 68 lb. Bond/140 lb. Index (60 – 256 g/m²)

Large Capacity Tray (LCT) (PB3050) – Part # 415003

Paper Capacity	2,000 sheets (1,000 x 2)
Paper Sizes	8.5" x 11" LEF
Paper Weights	16 – 68 lb. Bond/140 lb. Index (60 – 256 g/m²)

FAC33 Cabinet Stand (Large) – Part # 413762
Note: The Cabinet Stand or a paper supply option must be selected for Base Model installation when the printer is to be configured with a Finisher.
FAC35 Stand (Small) – Part # 402849
Note: The Stand must be selected for the SP C820DNT1 installation when the printer is to be configured with a Finisher.
3,000-Sheet Finisher (SR3030)* – Part # 413325

Paper Sizes	5.5" x 8.5" – 11" x 17", 12" x 18"
Paper Weights	Proof Tray: 14 – 43 lb. Bond/90 lb. Index (52 –163 g/m²); Shift Tray: 14 – 68 lb. Bond/140 lb. Index (52 – 256 g/m²) Stack Capacity Proof Tray: 250 sheets (8.5" x 11" or smaller), 50 sheets (8.5" x 14" or larger); Shift Tray: 3,000 sheets (8.5" x 11" LEF), 1,500 sheets (8.5" x 11" SEF, 8.5" x 14", 11" x 17", 12" x 18"), 100 sheets (5.5" x 8.5")
Staple Capacity	50 sheets (8.5" x 11" SEF), 30 sheets (8.5" x 14" or larger, 8.5" x 11" LEF)
Staple Paper Sizes	8.5" x 11" – 11" x 17"
Staple Paper Weights	17 – 24 lb. Bond (64 – 90 g/m²)
Staple Positions	1 staple/3 positions; 2 staples/ 1 position

SR3030 Finisher Options
2/3-Hole Punch Unit Type 3260 – Part # 412209
Jogger Unit Type 3260 – Part # 412212
*Requires Bridge Unit BU3030 – Part # 414175
1,000-Sheet Booklet Finisher (SR3000)* – Part # 412851

Paper Sizes	5.5" x 8.5" – 11" x 17", 12" x 18"
Paper Weights	Upper Proof Tray: 14 – 28 lb. Bond (52 – 105 g/m²); Shift Tray: 14 – 68 lb. Bond/140 lb. Index (52 – 256 g/m²)
Stack Capacity	Upper Proof Tray: 100 sheets (8.5" x 11" or smaller), 50 sheets (8.5" x 14" or larger); Shift Tray: 1,000 sheets (8.5" x 11"), 500 sheets (8.5" x 14" or larger, 8.5" x 11" LEF), 100 sheets (5.5" x 8.5"); Booklet Tray: 20 sets (2 – 5 sheets/set, all sizes, saddle-stitched) or 10 sets (6 – 10 sheets/set, all sizes, saddle-stitched)
Staple Capacity	50 sheets (8.5" x 11" or smaller), 30 sheets (8.5" x 14" or larger) Saddle Stitch 10 sheets (up to 40 pages)
Staple Paper Sizes	8.5" x 11" to 11" x 17" (Normal Staple) 8.5" x 11", 8.5" x 14", 11" x 17" (Saddle Stitch)
Staple Paper Weights	17 – 24 lb. Bond (64 – 90 g/m²)
Staple Positions	1 staple/2 positions; 2 staples/ 1 position

SR3000 Finisher Options
2/3-Hole Punch Unit Type PU3000 – Part # 412855
*Requires Bridge Unit BU3030 – Part # 414175
4-Bin Mailbox Type C820* – Part # 406409

Number of Bins	4
Capacity Per Bin	125 sheets
Paper Size	5.5" x 8.5" to 11" x 17"
Paper Weight	16 – 34 lb. Bond (60 – 128 g/m²)

*Can be installed simultaneously with both the 1,000-Sheet Booklet Finisher and 3,000-Sheet Finisher.
Must be installed with either the PB3040 (SP C820DNT2) or the PB3050 LCT (SP C820DNLC).

Supplies

Consumables	Part #	Yield
Black Toner[1]	821026	20,000 pages @ 5%
Yellow Toner[1]	821027	15,000 pages @ 5%
Magenta Toner[1]	821028	15,000 pages @ 5%
Cyan Toner[1]	821029	15,000 pages @ 5%
Photoconductor Unit Black	403115	40,000 pages
Photoconductor Unit[2] Color	403116	40,000 pages
Waste Toner Bottle	402716	40,000 pages
Intermediate Transfer Unit[3]	403117	160,000 pages
Fusing Unit[3]	403118	120,000 pages

[1] Based on A4 letter 5% test chart; 3 pages/job; Cyan, Magenta and Yellow (color printing only).
[2] Based on A4 letter 5% test chart; 3 pages/job; Color Drum Unit (color printing only).
[3] Based on A4 letter 5% test chart; 3 pages/job.

SP C820DN, SP C820DNT1, SP C820DNT2, and SP C820DNLC ship with starter toner cartridges that yield 10,000 pages for Black and 8,000 pages for each Color @ 5% coverage.

For maximum performance and yield, we recommend using genuine Ricoh parts and supplies.

Specifications subject to change without notice.

PANTONE® Support

PANTONE Profiles and Look-up Tables will be available in Summer, 2009.

Warranty

The Ricoh Aficio SP C820DN Series 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, which ever comes first. Please refer to warranty document shipped with the product for more details.

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Bringing Ricoh Value to Your Organization
Ricoh technology offers a diverse portfolio of solutions to help your organization stay competitive and move ahead. Let Ricoh show you how to empower your business to improve critical processes, keep information secure, ensure compliance and promote environmental sustainability while reducing the total cost of ownership.

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