



Color  
imageCLASS

MF B20 Cdn / MF B10 Cdn

**Revolutionizing  
Today's Workspace**

**Technology Guide**



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# Overview

## Improved User Operability

- 3.5-inch QVGA, color touch-panel
- Flick operation support
- Control panel with adjustable angle
- Retractable paper drawers

## Large-Capacity Paper Feeding

- Total paper capacity of 2,300 sheets (with the optional Cassette Feeding Unit-AK1)
- Supported sizes: A4, A5, B5, LGL, LTR, STMT, EXEC, postcard, envelope, custom
- Envelope cassette — standard-equipped (only available in first paper drawer)

## Energy Saving/Environmental Response

- Energy usage approximately 1.0 W in Sleep mode
- RAPID Fusing Technology ensures low energy consumption and a faster first-print time
- Approximately 34-second warm-up time
- Approximately 10-second recovery time from Sleep mode
- Excellent TEC values of 1.2 kWh (MF820Cdn) and 0.8 kWh (MF810Cdn)

## Driver Support

- UFR II/PCL 6 (5c, XL)/Adobe® PostScript® 3™/PDF

## Productivity

- Print and scan speeds up to 36 ppm (MF820Cdn) B/W and Color\*
- Print and scan speeds up to 26 ppm (MF810Cdn) B/W and Color\*

## Maintenance and Installation

- Select user-replaceable items
- Easy setup (user-guided through initial setup interface)



\* Print speeds are based on internal testing. Print and copy speeds may vary depending on the number of copies selected as well as the settings for size, type, and orientation of paper.





## Ease of Use

The control panel includes a 3.5-inch QVGA, color touch-panel that enables both touch and flick operations for intuitive and comfortable user interaction.

- Tiltable control panel allows for easy adjustment at various viewing angles.
- Additional custom buttons can be configured, placed, and arranged on the Home screen.
- Easy access Status Monitor button is available on the control panel for quick device monitoring.



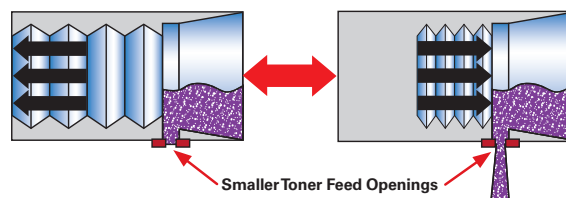
## Easy to Replace

New to Canon Color imageCLASS, IAP (Insulated Air Pressure) toner bottles are designed for fast and easy replacement.

- The Waste Toner Collection System helps ensure a high recovery rate of waste toner particles.
- The large size of the waste toner container expands user uptime, is easy to replace, and is conveniently located on the front of the device.
- The new IAP toner cartridge design helps eliminate the traditional toner cap.



Conceptual Diagram of Air-Assist Method



## Easy Paper Handling

- Closing assist mechanism allows for smooth drawer closure.
- Unlike past models, no need to set paper size dial or paper size on control panel.
- Get standard envelope feeding from top cassette and Multipurpose Tray.



Optional three-drawer  
550-sheet Cassette  
Accessory



Optional 550-sheet  
Cassette Plus  
Cabinet Accessory

# Security

The Color imageCLASS MF800 Series helps reduce the risk of information leaks and enhances overall security by utilizing various security features and protocols.

## Fax Archiving

- Sent fax documents can be forwarded to a single destination registered in advance.
- Administrator or end-user can check documents and document history of end-users.

## LDAP Authentication

This is in addition to the traditional authentication system. Based on the fixed information registered in the device address book, authentication on a per-entry basis and automatic authentication via user names and passwords are supported.

## SMTP Authentication

As part of the newly supported feature, the authentication screen appears with the user ID required for the device log-in service, preset with the user name field. The password field is left blank when the information is not registered.

When using the same user ID for the device log-in service and SMTP authentication, users are not required to enter their respective IDs when registering for the first time.

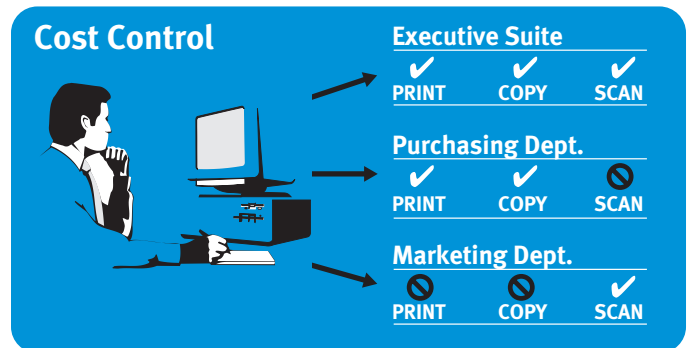
## Other Security Protocols

- SMB 2.0
- IEEE 802.1X
- IPv6

## Department ID Management

Department IDs and passwords registered on the Color imageCLASS MF800 Series allow system administrators to manage device usage for each department. Department IDs can contain up to seven numeric digits.

Volume limitations or controlled access to copy, scan, and print functions can be set for up to 300 departments.



## Secure Print



The Color imageCLASS MF800 Series features Secure Print to help protect the privacy of your printed documents. To help ensure that they end up in the right hands, follow the simple steps below:

1. Enter the code on PC.
2. Select the touch-screen "Secure Print" button on the MF820Cdn/MF810Cdn.
3. Select the document name in Secure Print Mode.
4. Enter the code on the MF820Cdn/MF810Cdn.
5. Pick up the secure print from the output tray.

# Print, Scan, Go

In today's mobile world, business people need to be productive while on the go. The Canon Color imageCLASS MF800 Series fills this need with the following various mobile capability options.



## Apple® AirPrint<sup>†</sup>

Allows you to print documents, e-mails, Web pages, and photos to compatible imageCLASS devices from your compatible iPhone®, iPad®, and iPod touch® mobile devices.



**Canon**

With Canon Mobile Printing for select iOS and Android devices, you can print right to your MF800 Series device. With a variety of finishing options and file types available, this app suits both personal and business printing needs.<sup>▲</sup>



**Canon**

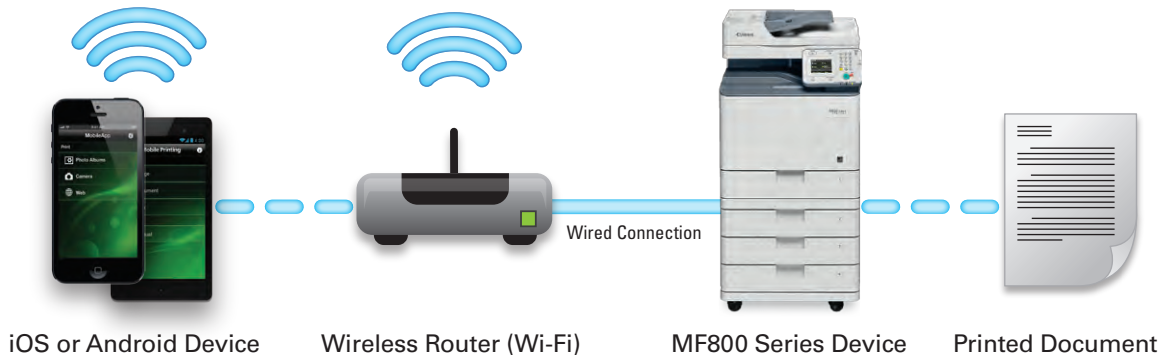
Canon Mobile Scanning for Business allows you to scan jobs from your MF800 Series device to your compatible iOS or Android device. This is particularly convenient when on the road and for backup and distribution needs.<sup>◆</sup>



## Mopria Print Service<sup>††</sup>

Allows you to print documents, e-mails, Web pages, and photos to compatible imageCLASS devices from your compatible Android™ KitKat 4.4 mobile computing device.

## Canon Mobile Printing<sup>▲</sup>



## Canon Mobile Scanning<sup>◆</sup>



<sup>▲</sup> Mobile printing capabilities will require MF800 Series products to be attached to a wireless router. Wireless printing requires a working Ethernet network with wireless 802.11b/g or n capability. Wireless performance may vary based on terrain and distance between printer and wireless network clients.

<sup>†</sup> AirPrint functionality requires an iPad, iPad Mini, iPad 2, the new iPad, iPhone 3GS or later, or iPod touch 3rd generation or later device running iOS 4.2 or later, and an AirPrint-enabled printer connected to the same network as your iOS device. A printer connected to the USB port of your Mac, PC, AirPort Base Station, or Time Capsule is not supported.

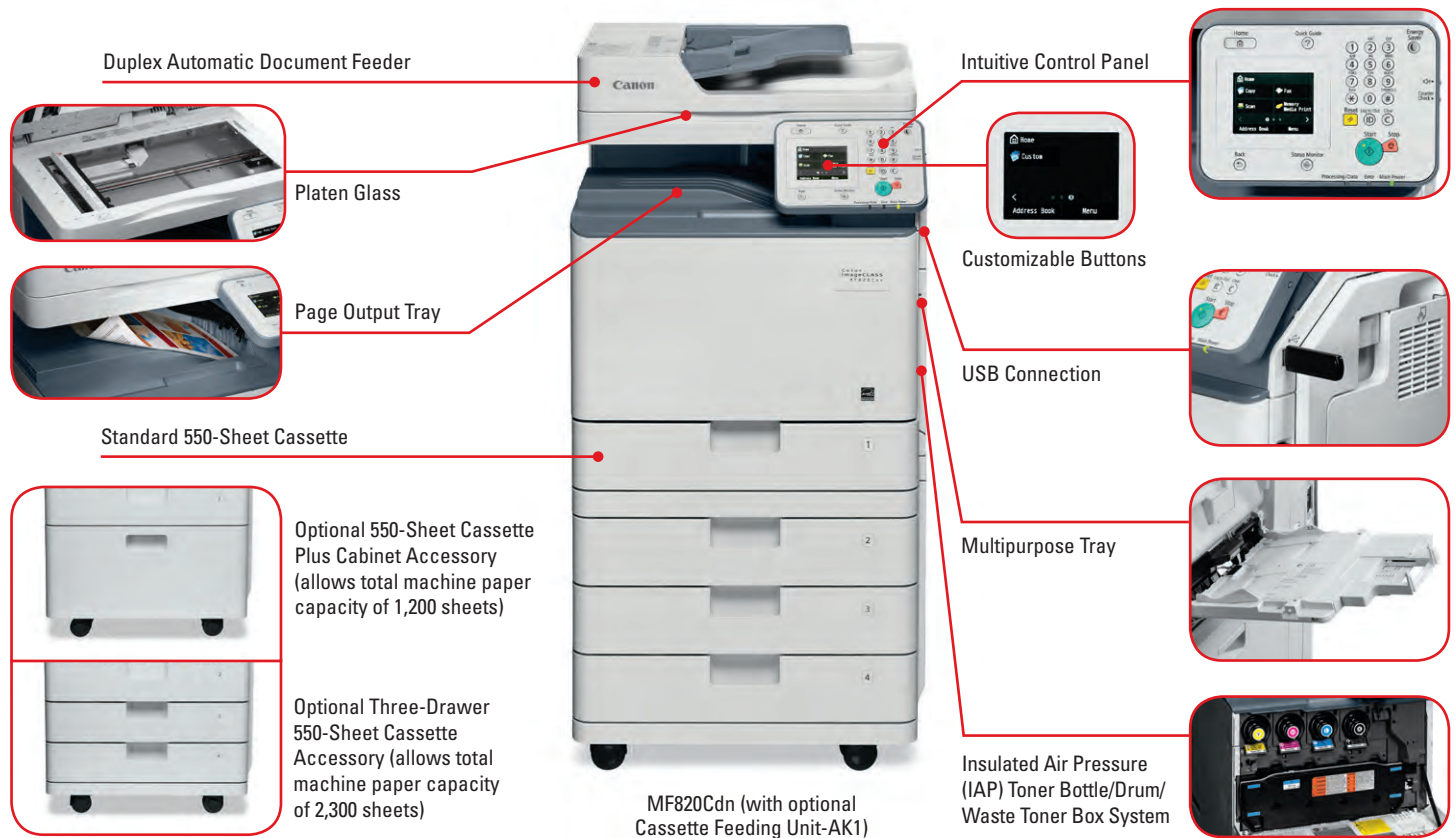
<sup>††</sup> Mopria Print Service, available for free at the Google Play Store, requires a compatible Android KitKat 4.4 smartphone or tablet. The printer must be either wirelessly connected to the network router or with an Ethernet cable. The mobile device and printer must be connected to the same network.

<sup>◆</sup> Scanning with MF800 Series products requires TWAIN compliant software scan utility.



# Machine Configurations

The new MF800 Series employs several different physical hardware and software configurations to fit the specific needs of its users.



## Document Management and Security Options\*

Feature	Description
Canon Send PDF Security Feature Set-E1	PDF Encryption and PDF Digital Signature are features offered in Canon Send PDF Security Feature Set-E1. PDF Encryption is utilized to enable PDF data protection. PDF Digital Signature or User Signature can be added to PDF files as a security measure. This measure allows for verification of the device or user who signs off on a file.
Canon Barcode Printing Kit-D1	Prints bar codes in SAP R/3 environments, other ERP software, and Windows-based applications. It supports more than 50 bar code formats (1D and 2D) as well as Euro symbols, safety, electronic, and manufacturing systems.

\* Document Management and Security options sold separately.

## Image Quality

Thanks to V<sup>2</sup> (Vivid and Vibrant) Color Technology, high-quality printing is possible by increasing image sharpness and color vibrancy.

The performance of these color multifunction printers can be fully utilized to expand the color range (color gamut) of dark areas within printed images. Sharpness control has also been added to the new MF800 Series to expand on individual image details.

# V<sup>2</sup> COLOR

### Vivid Color



Predecessor Canon Product without V<sup>2</sup> Color Technology



New Canon Product with V<sup>2</sup> Color Technology



### Utilizing the Color Range

The new MF800 Series is able to exercise full use of color range. Shadows and dark colors are optimized by adjustments with color ratio of each individual toner. The color range can be increased in parts of

images that have shadows or are dark in nature. This technique allows for expression of dark colors to be very detailed.

### Image Vibrance



Predecessor Canon Product without V<sup>2</sup> Color Technology



New Canon Product with V<sup>2</sup> Color Technology

# Eco-Conscious

## Resource Preservation

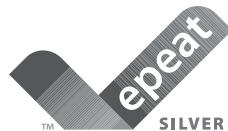
Plastics are normally manufactured using petroleum as a raw material. By contrast, bio-based plastics are made from plant-based organic resources.

This helps reduce the dependence on finite fossil fuel resources. When bio-based plastic is burned after the product is discarded, there's no increase of CO<sub>2</sub> in the air. This is because the quantity of CO<sub>2</sub> that's emitted at this time is the same as that absorbed by the plants that are used to make the bio-plastic. The process, therefore, is considered to cause no overall increase in the amount of CO<sub>2</sub>. The Color imageCLASS MF820Cdn/MF810Cdn have employed bio-based plastics.\*

## Environmental Commitment. A Better Future.

The imageCLASS Series incorporates innovative, eco-conscious solutions that propel your business while helping to reduce your environmental footprint.

## EPEAT Silver Rated



The devices are designated EPEAT® Silver rated (the definitive global registry for greener electronics).

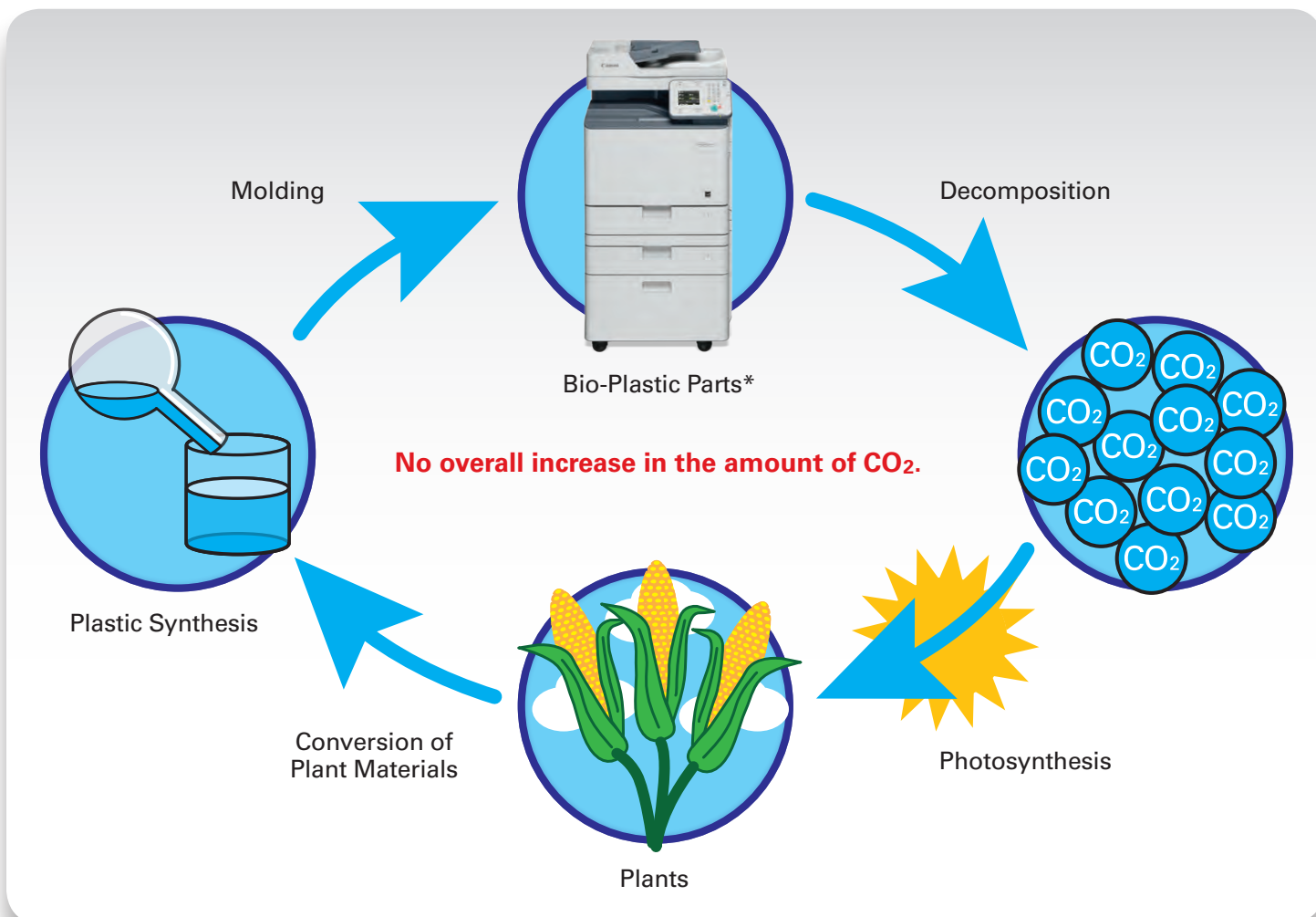
## ENERGY STAR Qualified



imageCLASS products are designed for low energy consumption. Each model meets ENERGY STAR standards.

## Eco-Conscious Features

Help reduce waste and cut energy consumption with secure authentication and centralized control. Limit users to printing only duplexed and/or black-and-white documents.



\* The Color imageCLASS MF820Cdn/MF810Cdn employ bio-based plastics for at least one or more exterior parts. Parts such as buttons on the control panel or the tilt cover, with which users frequently come into contact, are made of bio-based plastics.



# Specifications

FEATURES	Color imageCLASS MF820Cdn	Color imageCLASS MF810Cdn
	<b>BASIC SPECIFICATIONS</b>	
Functions	Print, Scan, Copy, Fax	
Print Speeds (default print mode: two-sided)	Up to 36 ppm (plain paper, Letter)*	Up to 26 ppm (plain paper, Letter)*
Connectivity	USB Device 2.0 High-Speed, 10/100/1000 Base-T Ethernet	
Operating Systems	Windows® 8.1, Windows 8, Windows 7, Windows Server® 2012, Windows Server 2008 R2, Windows Server 2008, Windows Vista®, Windows Server 2003, Mac® OS X 10.5.8 and up, Linux® Drivers available for download from <a href="http://www.usa.canon.com">www.usa.canon.com</a>	
Paper Handling	<b>Duplex Automatic Document Feeder:</b> 50 Pages**	
	<b>Standard Cassette:</b> 550-Sheet; 16-58 lb. Bond; A4, B5, A5, LGL, LTR, STMT, EXE	
	<b>Multipurpose Tray:</b> 100-Sheet; 16-58 lb. Bond	
	<b>Platen Size:</b> 8.5" x 14"	
	<b>ADF Size:</b> 8.5" x 14"	
	<b>Output Tray:</b> 250 Sheets (Face-down)	
Duplex	All Mode (Print, Copy, Scan, Fax)	
Duty Cycle	Up to 88,000 Pages Per Month	Up to 67,000 Pages Per Month
Recommended Print Volume	1,000-5,000 Pages Per Month	
Security	IP Address Filtering, MAC Address Filtering, Native Secured Print, IEEE802.1x, SNMPv3, HTTPS, IPSEC	
	<b>PRINTER SPECIFICATIONS</b>	
First-Print Time	Approximately 9 Seconds (Letter)***	
Printer Language	UFR II, PCL6(5c,XL), PostScript® 3™, PDF	
Print Resolution	Up to 600 x 600 dpi (2400-dpi equivalent x 600-dpi quality when using Image Refinement Technology)	
Print Features	Poster, Booklet, Watermark, Page Composer, Toner Saver	
Print Memory	1 GB (Shared with Copy Memory)	
Mobile Print	Apple AirPrint, Canon Mobile Printing (for iOS and Android), Mopria Print Services	
	<b>COPIER SPECIFICATIONS</b>	
First-Copy Time	Approximately 6 Seconds (Letter)†	
Copy Resolution	Up to 600 x 600 dpi	
Halftones	256 Levels	
Max. Number of Copies	999 Copies	
Copy Features	Frame Erase, Memory Sort, 2-on-1, 4-on-1, ID Card Copy	
	<b>SCANNER SPECIFICATIONS</b>	
Scan Type	Color Contact Image Sensor	
Scan Speed	Black/Color: Up to 36 ppm (one-sided, plain paper, Letter)††	Black/Color: Up to 26ppm (one-sided, plain paper, Letter)††
Scan Resolution	Up to 600 x 600 dpi (Optical); 9600 x 9600 dpi (Interpolated)	
Output File Formats	JPEG, TIFF, PDF, Compact PDF, PDF (OCR), PDF Encrypted (Opt), PDF Digital Signature (Opt.)	
Scan Features	Scan to USB, Push (Scan to PC) and Pull Scan,* Scan to E-mail, Scan to Network Folder, Scan to SMB	
Mobile Scan	Canon Mobile Scanning for Business (for iOS and Android)	
	<b>FAX SPECIFICATIONS</b>	
Modem Speed	Up to 33.6 Kbps•	
Fax Resolution	Up to 406 x 391 dpi (Super Fine)	
Fax Memory	Up to 512 Sheets**	
Speed Dialing	300 Coded Dials	
Group Dialing	199 Destinations	
Sequential Broadcasting	310 Destinations	
PC Fax	Yes (Sending Only)	
Fax Forwarding	Yes (Fax→Fax, E-mail, SMB)	
Fax Features	Dual Access, Remote Reception, Distinctive Ring Pattern Detection, Error Correction Mode, Auto Redial Fax Forwarding, Auto Redial, Fax Archive	
	<b>GENERAL SPECIFICATIONS</b>	
Dimensions	20 1/8" (W) x 22 1/4" (D) x 24" (H)	
Weight	94.8 lb.	
Package Weight	99.2 lb.	
Warranty	One-Year Limited Onsite <sup>■</sup> (Extended warranties available)	
	<b>ENVIRONMENTAL</b>	
Typical Energy Consumption (TEC)	1.2k Wh	0.8k Wh
EPEAT	Silver	
Power Consumption	<b>During Operation:</b> Approx. 500 W <b>Standby:</b> Approx. 30 W <b>Energy Saver:</b> Approx. 1 W (Wired)	<b>During Operation:</b> Approx. 400 W <b>Standby:</b> Approx. 30 W <b>Energy Saver:</b> Approx. 1 W (Wired)
Noise Level:™	<b>During Operation:</b> 51 dB (Sound Pressure) 71.3 dB (Sound Power) <b>During Standby:</b> Inaudible (Sound Pressure) 53 dB or less (Sound Power)	<b>During Operation:</b> 50 dB (Sound Pressure) 68.5 B (Sound Power) <b>During Standby:</b> Inaudible (Sound Pressure) 43 dB or less (Sound Power)
	<b>WHAT COMES IN THE BOX</b>	
	Canon imageCLASS Product, Toner 034 CMYK, Drum Unit 034 CMYK, Waste Toner Box WT-A3, Power Cord, Phone Cable, User Software DVD-ROM Starter Guide, Warranty Card, Canon Drivers	

\* Print speeds are based on internal testing. Print and copy speeds may vary, depending on the number of copies selected as well as the settings for size, type, and orientation of paper.

\*\* Based on 20 lb. Bond paper.

\*\*\* May vary depending on the output environment.

† Letter-sized, after being restored from Energy Saver mode.

†† Based on Letter-sized scanning at 300 x 300 dpi.

• Scanning MF800 Series requires TWAIN compliant software scan utility.

• The Public Switched Telephone Network currently supports fax modem speeds of 28.8 Kbps or lower, depending on telephone line conditions. Sending and receiving fax machines need to conform to ITU-T v.34 guidelines.

• Based on ITU-T #1 Chart (Standard).

• Warranty program is subject to certain conditions and restrictions. See the warranty card for details.

■ Declared noise emission in accordance with ISO 9296.



### Printer Ordering Information

Color imageCLASS MF820Cdn	9548B006AA
Color imageCLASS MF810Cdn	9548B001AA

### Accessories Ordering Information

Canon Toner 034 Black	Full Yield, 12,000 Sheets ISO/IEC	9454B001AA
Canon Toner 034 Cyan	Full Yield, 7,300 Sheets ISO/IEC	9453B001AA
Canon Toner 034 Magenta	Full Yield, 7,300 Sheets ISO/IEC	9452B001AA
Canon Toner 034 Yellow	Full Yield, 7,300 Sheets ISO/IEC	9451B001AA
Drum Unit 034 Black	Full Yield 32,500 Sheets	9458B001AA
Drum Unit 034 Cyan	Full Yield 34,000 Sheets	9457B001AA
Drum Unit 034 Magenta	Full Yield 34,000 Sheets	9456B001AA
Drum Unit 034 Yellow	Full Yield 34,000 Sheets	9455B001AA
Waste Toner Box WT-A3	Full Yield 30,000 Sheets	9549B002AA
Cassette Feeding Unit-AK1 US	550 x 3 Cassette (1,650-Sheet Capacity)	9580B003AA
Cassette Feeding Unit-AJ1 US	550 x 1 Cassette + Cabinet (550-Sheet Capacity)	9579B003AA
eCarePak New Tier 201Y	eCarePak 1-Year Onsite	5707B058AA
eCarePak New Tier 202Y	eCarePak 2-Year Onsite	5707B059AA
eCarePak New Tier 203Y	eCarePak 3-Year Onsite	5707B060AA
eCarePak New Tier 204Y	eCarePak 4-Year Onsite	5707B061AA
Canon Barcode Printing Kit-D1	Software Print Accessory	
Canon Send PDF Security Feature Set-E1	Software Print Accessory	

Learn more about the ENERGY STAR®  
program at [www.usa.canon.com/energystar](http://www.usa.canon.com/energystar)

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