

# Ricoh

## Environmental features and programs guide



## In pursuit of a zero carbon society

Using resources effectively helps promote a recycling-oriented society and keeps used products out of landfills. By reusing and recycling materials, we can generate less waste, reduce the demand on our natural resources to create new materials and move toward a zero-carbon society. At Ricoh, our goal is to support a circular economy through the effective use of resources. We're placing importance on producing smaller and lighter products, extending the life of parts, reusing products, adopting recycled materials and utilizing recyclable resources.



# Eco excellence by design

## Paper savings

-  Duplexing
-  Locked print
-  Do not print blank pages
-  Condense multiple pages
-  Sample print

## Efficiency

-  Eco-friendliness widget
-  Staple-free option
-  Toner saving mode
-  Recycled paper runability

## Ecolabels\*

-  ENERGY STAR® certified
-  EPEAT®
-  Ecologo® certified
-  Blue Angel Mark
-  EcoLeaf



## Energy savings

-  Eco mode/quick recovery
-  Sleep mode timer
-  Auto on/off timer
-  Weekly timer
-  Motion sensors

## Recycling

-  End-of-life equipment recycling
-  Global consumables take-back programs
-  Toner bottles use recycled content

**Our products are designed both for productivity and for the environment. The principles of reducing, reusing and recycling resources are a core part of our design thinking and process.**

\*Ecolabels are applicable in the following countries/regions: ENERGY STAR® (U.S. and Canada), EPEAT® (U.S.), Ecologo® (Canada), Blue Angel Mark (Europe).

Not all imaging devices include every feature. Please reference the tables at the end of this guide for complete information.



Energy savings built right in



### Eco mode/quick recovery

Configured to work on its most energy-efficient settings (entering sleep-mode within 1-6 minutes of inactivity).



### Weekly timer

Switches to low energy consumption sleep mode on a specified day and time of the week to help balance system availability and power consumption.



### Sleep mode timer

Places the machine in low energy consumption sleep mode after a predetermined time, allowing the machine to awaken quickly for use.



### Motion sensors

Promote efficiency by detecting a user's presence so the Smart Operation Panel responds quickly to user input.



### Auto on/off timer

System can be turned on or off at specified times, allowing customers to match system availability and power consumption to their work schedule to reduce costs.

#### TIP: Stick with the factory default settings

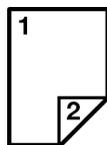
Ricoh is building advances in sustainability right into our products. Our products are designed to be environmentally efficient and productive — as they are shipped — with factory default settings.

Built-in advanced energy management features — such as Eco mode/quick recovery along with low sleep mode electricity consumption — help you save energy without getting in the way of your productivity. Our devices are designed to be sustainable and productive, so there's no need to change the device's default settings.

## Saving paper saves trees and supports conservation

Ricoh technology can help you save paper in many areas of your day-to-day operations. We can help you discourage waste and meet environmental initiatives. Make eco-friendliness the norm in your workplace with features and settings that make the green choice the easy choice.

Ricoh products are designed to promote environmental sustainability and distinguish themselves in the productivity benefits they provide.



### Duplexing

Cuts paper bills in half and saves trees by making duplexing the norm and printing on both sides of the paper.



### Locked print

Saves paper and other consumables by only printing documents released by the user with a password at the machine. This also ensures confidential documents are kept safe.



### Blank page removal

Eliminates the blank pages within a document that require unnecessary use of resources, reducing paper waste.



### Condensing pages

Reduces the amount of paper required to print and copy by combining multiple pages into one.



### Sample print

Automatically outputs a sample set before committing the system to a lengthy print job that could result in error and waste.

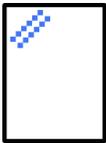


Green means efficiency and innovation



### Eco-friendliness widget

Displays percentage of paper reduction and color utilization to increase environmental awareness.



### Staple-free option

Ricoh's exclusive unique technology binds up to five sheets of paper using no staples.



### Toner saving mode

Toner saver mode is an effective way to reduce printing costs with less toner than usual. This is convenient when print outs are needed for internal viewing.



### Recycled paper runability

Ricoh devices have the ability to work using paper with higher recycled content, which reduces environmental impact.

### Sustainability without sacrifice

Sustainability and workplace productivity shouldn't be mutually exclusive. We value and emphasize technologies that help our customers lower costs while driving sustainability for our future — but we don't stop there. With the right partner, processes and technology, you can take charge over your environmental impact while giving your people the tools they need to do their jobs well. Whether your goal is to reduce energy expenditure or to simply work more efficiently, you can have confidence that Ricoh devices allow you to address business challenges in a sustainable way — without sacrificing productivity.



## Green procurement tools and programs

We have been an ENERGY STAR® partner for more than 20 years, and the U.S. Environmental Protection Agency has awarded us the ENERGY STAR® Partner of the Year Award for eight years in a row — achieving the special designation of Sustained Excellence for the sixth consecutive year.

Ricoh devices deliver superior energy performance by incorporating unique technologies and features into their product designs. Ricoh is a charter member of the EPEAT® (Electronic Product Environmental Assessment Tool) program and has been a strong supporter of ENERGY STAR®. With energy saving, green printing processes and reduced environmental footprints, our customers can work the way they want while being sustainable.

Our devices are specifically designed for “practical” energy performance — achieving the ENERGY STAR® qualification while maintaining ease of use. With a recognized sustainability partner on your side, you don’t have to choose between a productive workplace and a green workplace.



### ENERGY STAR® certified (U.S. and Canada)

Certification that the U.S. Government approves the device as energy efficient in design and specification. ENERGY STAR® certified products contribute to a more energy-efficient world and help keep your costs down.



### EPEAT (U.S.)

EPEAT® is a comprehensive procurement rating program which includes energy efficiency, take-back programs for equipment, packaging and consumables, reduction/elimination of environmentally sensitive substances and other important environmental attributes.



### Ecologo® certified (Canada)

Ecologo® certified products are multi-attribute, life cycle-based environmental sustainability standards that indicate a product has exceeded product performance standards.



### Blue Angel Mark (Europe)

Developed by the federal government of Germany, the Blue Angel environmental ecolabel sets high standards for product design and sustainable consumption.



### EcoLeaf

EcoLeaf environmental label uses the Life Cycle Analysis (LCA) method to quantitatively show the environmental information of products through life cycle stages from the extraction of resources to manufacturing, assembly, distribution, use, discarding and recycling.



## Recycling and resource conservation

We encourage recycling Ricoh branded end-of-life consumables and supplies, to keep products out of landfills and reduce environmental impact. By reusing and recycling materials, we can generate less waste and reduce the demand on our natural resources to work toward a zero-carbon society.



### End-of-life equipment recycling

Take-back programs look to refurbish and reuse devices or perform environmentally responsible demanufacturing to recover reusable parts and materials that can be recycled or converted into other useful resources. Visit [ricoh-return.com](http://ricoh-return.com) for services in your area.



### Global consumables take-back programs

Toner containers and cartridges can be returned to us. Our environmentally friendly recycling helps keep plastic and other materials out of landfills while yielding usable materials. Visit [ricoh-return.com](http://ricoh-return.com) for services in your area.



### Toner bottles use recycled content

We're working to reduce reliance on new resources in product manufacturing. Consumables such as toner bottles are designed with the goal of utilizing recycled content.

### Supporting biodiversity and addressing climate change



Using resources effectively helps promote a recycling-oriented society. Within our focus on the planet and driving sustainability for our future, we are focused on supporting the United Nations Sustainability Development Goals related to affordable and clean energy, responsible consumption and production, and climate action.

## Circular economy

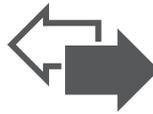
The principles of reducing, reusing and recycling resources are a core part of our design thinking and process. By reusing and recycling materials, we can generate less waste and reduce the demand on our natural resources to create new materials.

Based on our “Comet Circle” concept, we aim at effective use of resources by engaging in recycling with lower environmental impact and higher economic benefits. We are also working to reduce the input of new resources in product manufacturing by placing importance on size of products, longevity of parts, adoption of recycled materials and utilization of recyclable resources.



### Lighter weight design

Products that are lighter and more compact generally have less of an impact on the environment. We design products to be lighter and to consume fewer resources — both in component materials and in resources used during manufacturing, like energy and water.



### Interchangeable parts design

Improving sustainability starts with design. Recycling and conservation are core parts of the design process that impact the overall effective use of resources. This includes reducing the manufacturing impact by utilizing parts that can be interchanged across models, as well as giving parts a second life.



### Longer life design

Extending the service life of equipment and parts is good for customers and good for the environment. Ricoh products are designed so their content, manufacturing processes, shipping and end-of-life recovery minimize environmental impact. Another way to achieve longer equipment life is to delay technological obsolescence. RICOH Always Current Technology enables software and security updates to be handled remotely, leading to longer hardware life and even lowering field service and maintenance-related travel emissions.





Learn how to create a sustainable workplace with the right device fleet

We are committed to pursuing the reduction of emissions across the entire value chain, continually striving to improve the energy efficiency of our products, and encouraging business partners and customers to work together to reduce GHG emissions.

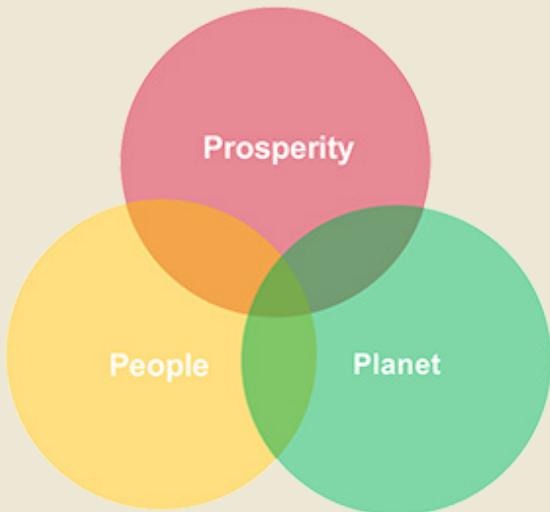


Ricoh hardware and software incorporate major sustainability features — such as rules-based printing, sleep/energy saver modes, green reporting and more.

Whether you're considering implementing Ricoh devices and solutions for the first time or are looking to upgrade your current Ricoh device fleet, our [Carbon Calculator](#) can demonstrate potential energy, paper and even financial savings between your current state and a more optimized fleet.

With hard numbers at your fingertips, it's easy to see how Ricoh devices can lower costs while reducing your carbon footprint.

Commercial and industrial printing devices are out of scope for this tool.



**Ricoh commitments**

A sustainable society is one that pursues a Three Ps Balance — the balance of Prosperity, People and Planet. With our commitment to this balance in mind, we focus on the planet and on driving sustainability.



## Environmental health & safety

Ricoh is committed to ensuring that health and safety requirements are met in order to provide a healthy and safe working environment for customers, employees and stakeholders. We also recognize our responsibilities as a corporate citizen to promote health and safety as it relates to our products and business practices. Ricoh supports local, national and international initiatives as they apply to multiple areas — including regulatory, compliance and environmental sustainability.

Ricoh has set strict standards for chemical substances related to our products. These standards enable many products to meet the requirements for leading environmental labels — such as the Blue Angel Mark from Germany and Japan's Eco Mark. As Ricoh continues to develop products, compliance with such standards helps ensure that products avoid negative health effects.

In addition, our standards for toner and other chemical substances comply with the regulations of each world region in which our products are sold. Testing of these substances is done in accordance with relevant regulations.



### Safety data sheets

A safety data sheet, or SDS, is a standardized document that contains safety and health data. The International Hazard Communication Standard (HCS) mandates that chemical manufacturers must communicate a chemical's hazard information to chemical handlers by providing a safety data sheet.

#### Access safety data sheets online

For [Americas region](#) – select **Americas**

For [EMEA region](#) – select **Support & Downloads** from the individual product page, then **Environment, Health and Safety (EHS)**



### IT Eco Declarations

Ricoh publicly discloses product environmental information in an industry standard format known as the ECMA-370: "The Eco Declaration." This environmental information includes but is not limited to chemicals, electromagnetic compatibility and safety regulations, materials, packaging and energy efficiency. Ricoh makes Eco Declarations available via its web sites.



### Blue Angel Mark certificates

The Blue Angel, the world's first ecolabel, has set high standards for a large variety of eco-friendly products and services. Originally introduced by the federal government of Germany back in 1978, the Blue Angel sets high standards for environmentally friendly product design and has proven itself over the past 40 years as a reliable guide for more sustainable consumption. Ricoh makes these certificates available via its web sites.

## Multifunction Colour

Feature availability by product <sup>1</sup>		IMC6500 / IMC8000 /	IMC4500 / IMC6000 /	IMC3000 / IMC3500 /	IM C2500	IM C2510 IM C3010 IM C3510 IMC4510 IMC6010	MC 240FW	M C251FW	IMC 300F / IMC 400F / IMC 400SRF	IMC 530FB	IJM C180F
ENERGY SAVINGS	Eco Mode Activated / Quick Recovery <sup>1</sup>	–	✓	✓	✓	✓	–	✓	✓	✓	–
	Sleep mode timer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Auto on/off timer	✓	✓	✓	✓	✓	–	–	✓	✓	✓
	Weekly timer	✓	✓	✓	✓	✓	–	–	✓	✓	–
	Motion sensors	✓	✓	–	–	–	–	–	–	–	–
PAPER SAVINGS	Duplexing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Do not print blank pages	✓	✓	Optional	Optional	Optional	✓	✓	–	✓	–
	Locked print	✓	✓	✓	✓	✓	✓	✓	✓	✓	–
	Condense multiple pages	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Sample print	✓	✓	✓	✓	✓	–	–	✓	✓	–
EFFICIENCY	Eco-friendliness widget	✓	✓	✓	✓	✓	–	–	✓	✓	–
	Staple-free option	–	Optional	Optional	Optional	Optional	–	–	–	–	–
	Toner saving mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	–
	Recycled paper runability	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ENERGY STAR <sup>®</sup> certified	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ECOLABELS <sup>2</sup>	EPEAT <sup>®</sup>	Gold	Gold	Gold	Gold	Gold	Silver	Silver	Gold	Silver	N/A
	Ecologo <sup>®</sup> certified	✓	✓	✓	✓	Pending	–	Pending	✓	✓	N/A
	Blue Angel Mark	✓	✓	✓	✓	✓	✓	–	✓	✓	N/A
	EcoLeaf	✓	✓	✓	✓	✓	–	–	–	–	N/A

<sup>1</sup> Eco Mode Activated / Quick Recovery: Ricoh devices have been configured to work on its most energy-efficient settings (going to sleep within 1-6 minutes of inactivity). If the device is not utilized for more than 1 minute, it goes into a series of power-saving modes to reduce electricity consumption.

<sup>2</sup> Ecolabels are applicable in the following countries/regions: ENERGY STAR<sup>®</sup> (U.S. and Canada), EPEAT<sup>®</sup> (U.S.), Ecologo<sup>®</sup> (Canada), Blue Angel Mark (Europe)

<sup>3</sup> Available in Europe only.

## Multifunction B&W

Feature availability by product <sup>1</sup>		IM 550F	IM 600SRF	IM 350F / IM 430F / IM 430Fb	MP 3555	MP 6055	M 320F	IM6000 / IM5000 / IM4000 / IM3500 / IM2500 /	IM 7000 / IM 8000 /	IM 9000
ENERGY SAVINGS	Eco mode activated/ quick recovery <sup>1</sup>	✓	✓	✓	✓	✓	-	✓	✓	-
	Sleep mode timer	✓	✓	✓	-	-	✓	✓	✓	✓
	Auto on/off timer	✓	✓	✓	✓	✓	-	✓	✓	✓
	Weekly timer	✓	✓	✓	✓	✓	-	✓	✓	✓
	Motion sensors	-	-	-	✓	✓	-	-	✓	✓
PAPER SAVINGS	Duplexing	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Do not print blank pages	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Locked print	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Condense multiple pages	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Sample print	✓	✓	✓	✓	✓	-	✓	✓	✓
EFFICIENCY	Eco-friendliness widget	✓	✓	✓	✓	✓	-	✓	✓	✓
	Staple-free option	-	-	-	Optional	Optional	-	-	-	-
	Toner saving mode	✓	✓	✓	-	-	✓	✓	✓	✓
	Recycled paper runability	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ENERGY STAR® certified	✓	✓	✓	✓	✓	✓	✓	✓	✓
ECOLABELS <sup>2</sup>	EPEAT®	Silver	Silver	Gold	Gold	Gold	Silver	Gold	Gold	Gold
	Ecologo® certified	✓	✓	✓	✓	✓	Pending	✓	✓	✓
	Blue Angel Mark	✓	✓	✓	✓	✓	✓	✓	✓	✓
	EcoLeaf	-	-	-	✓	✓	-	✓	✓	✓

<sup>1</sup> Eco Mode Activated / Quick Recovery: Ricoh devices have been configured to work on its most energy-efficient settings (going to sleep within 1-6 minutes of inactivity). If the device is not utilized for more than 1 minute, it goes into a series of power-saving modes to reduce electricity consumption.

<sup>2</sup> Ecolabels are applicable in the following countries/regions: ENERGY STAR® (U.S. and Canada), EPEAT® (U.S.), Ecologo® (Canada), Blue Angel Mark (Europe)

## Printers — Colour

Feature availability by product <sup>1</sup>		P C600	SP C840DN	PC 311W	PC 200W
ENERGY SAVINGS	Eco mode activated/quick recovery <sup>1</sup>	✓	✓	✓	-
	Sleep mode timer	✓	✓	✓	✓
	Auto on/off timer	-	✓	-	-
	Weekly timer	-	-	-	-
	Motion sensors	-	-	-	-
PAPER SAVINGS	Duplexing	✓	✓	✓	✓
	Do not print blank pages	-	-	✓	✓
	Locked print	Optional	✓	✓	✓
	Condense multiple pages	-	✓	✓	✓
	Sample print	-	-	-	-
EFFICIENCY	Eco-friendliness widget	-	✓	-	-
	Staple-free option	-	Optional	-	-
	Toner saving mode	✓	-	✓	✓
	Recycled paper runability	✓	✓	✓	✓
	ENERGY STAR <sup>®</sup> certified	✓	✓	✓	✓
ECOLABELS <sup>2</sup>	EPEAT <sup>®</sup>	Silver	Gold	Silver	Silver
	Ecologo <sup>®</sup> certified	✓	✓	✓	-
	Blue Angel Mark	✓	✓	-	-
	EcoLeaf	-	✓	-	-

<sup>1</sup> Eco mode activated/quick recovery / Quick Recovery: Ricoh devices have been configured to work on its most energy-efficient settings (going to sleep within 1-6 minutes of inactivity). If the device is not utilized for more than 1 minute, it goes into a series of power-saving modes to reduce electricity consumption.

<sup>2</sup> Ecolabels are applicable in the following countries/regions: ENERGY STAR<sup>®</sup> (U.S. and Canada), EPEAT<sup>®</sup> (U.S.), Ecologo<sup>®</sup> (Canada), Blue Angel Mark (Europe)

<sup>3</sup> Available in Europe only.

## Printers — B&W

Feature availability by product <sup>1</sup>		P 800 / P 801	P 501	P 502	SP 8400DN	P 311
ENERGY SAVINGS	Eco mode activated/quick recovery <sup>1</sup>	✓	✓	✓	✓	–
	Sleep mode timer	✓	✓	✓	✓	✓
	Auto on/off timer	✓	✓	✓	✓	–
	Weekly timer	–	–	–	–	–
	Motion sensors	–	–	–	–	–
PAPER SAVINGS	Duplexing	✓	✓	✓	✓	✓
	Do not print blank pages	–	–	–	✓	✓
	Locked print	Optional	✓	✓	Optional	✓
	Condense multiple pages	–	–	–	✓	✓
	Sample print	–	–	–	–	–
EFFICIENCY	Eco-friendliness widget	–	–	–	–	–
	Staple-free option	–	–	–	Optional	–
	Toner saving mode	✓	✓	✓	✓	✓
	Recycled paper runability	✓	✓	✓	✓	✓
	ENERGY STAR <sup>®</sup> certified	✓	✓	✓	✓	✓
ECOLABELS <sup>2</sup>	EPEAT <sup>®</sup>	Silver	Gold	Gold	Gold	Silver
	Ecologo <sup>®</sup> certified	✓	✓	✓	–	✓
	Blue Angel Mark	✓	✓	✓	✓	✓
	EcoLeaf	–	–	–	✓	–

<sup>1</sup> Eco mode activated/quick recovery / Quick Recovery: Ricoh devices have been configured to work on its most energy-efficient settings (going to sleep within 1-6 minutes of inactivity). If the device is not utilized for more than 1 minute, it goes into a series of power-saving modes to reduce electricity consumption.

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