

RISO Guide to Going Green



1 Reduce.

Copiers consume the most energy of all types of office equipment and use power even when sitting idle. Choose an energy efficient printer or duplicator for your organization's printing needs.

Extreme Energy Savings

RISO digital duplicators do not need heat, high pressure, or high-voltage electronics to work. In fact, RISO digital duplicators require as little as 2 amps of electrical current when producing copies - less energy than three light bulbs. What's more, unlike many photocopiers and laser printers, the RISO digital duplicator easily handles a huge variety of recycled papers.

RISO inkjet printers provide full color output with no heat. Inkjet printers use far less electricity than toner-based technologies. Because RISO full color printers do not use a heat and laser process, they consume a fraction of the energy required to run heat-intensive devices.

Did You Know...

If every home in America replaced just one incandescent light bulb with an ENERGY STAR qualified compact fluorescent lamp, it would save enough energy to light more than 3 million homes and prevent greenhouse gas emissions equivalent to those of more than 800,000 cars annually.



2

Re-use.

Electricity is not only used to create documents, but also for the production of the paper on which it is printed. Set your printer and copier to automatically default to making two-sided copies. If you do print on one side only, print on the back side of used paper.

High Speed Printers

Jobs simply get done faster with RISO's high speed printers. Boasting up to 150 pages per minute (up to 92 pages per minute duplex), ComColor machines get the job done fast. Add a scanner and a finisher for advanced productivity. RISO's duplicators boast impressive print speeds as well. The RISO MZ1090 two-color, one-pass digital duplicator prints at up to 150 pages per minute, while the RZ1090 can reach up to an amazing 180 pages per minute!



Suggestions For Re-Use

Other materials that can be re-used in an office setting:

- Envelopes for internal mail
- File folders
- Draft paper for note-taking

3

Recycle.

Choose recycled papers and soy-based inks.

Soy-Based Ink

RISO duplicator ink is soy based, which is more environmentally friendly than ink that is petroleum based. Soy inks contain lower levels of VOCs (volatile organic compounds); use of soy inks results in lower amounts of air pollution through reduction of toxic emissions.

Unlike electrophotographic printers, RISO printers are free from ozone emissions, toner particle emissions, silica dust, and other air pollutants. Also, RISO printers do not emit greenhouse gases.



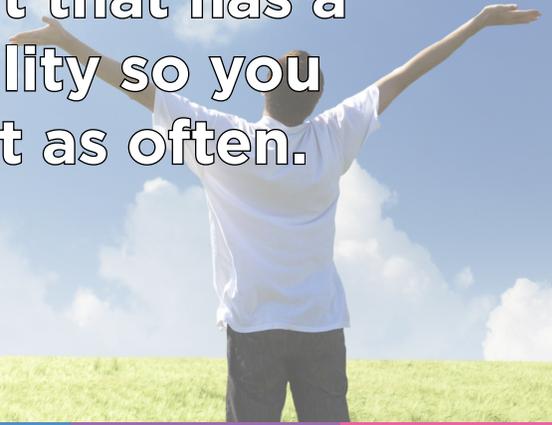
Did You Know...

RISO digital duplicators easily handle unusual stocks like construction paper, newsprint, and recycled paper stocks.



4 Look to the future.

Choose office equipment that has a proven record of reliability so you won't need to replace it as often.



Built To Last

RISO digital duplicators and full color printers are built to last and last - it's not unusual to print millions and millions of copies on a RISO printer. This reduces the amount of material that ends up in landfills and reduces the number of hazardous materials that can contaminate the environment.

Did You Know...

Riso Kakagu Corporation is ISO 14001 certified and RISO products meet all RoHS Directive standards. ISO 14001 is an international specification for an environmental management system. the RoHS Directive is the restriction of certain hazardous substances in electrical and electronic equipment in the EU market.



5 Sleep to save.

Copiers and printers are on all day but only used for a small part of the day. Use the “stand-by” and “sleep” modes available on the device. Turn copiers and printers off at night and on the weekends.

Energy Savings Are Built In

Making sure that all RISO printers are environmentally friendly is a key part of the design process at RISO. Features like Auto Power Off and Auto Sleep modes help reduce energy consumption when the printers are not in use.

Energy Saving Mode lowers running costs by automatically turning the printer off or placing it in sleep mode after a user-selected period without operation. Choose from 5, 15, 30, 60, or 90-minute periods without operation before the printer turns off or enters sleep mode.

Copiers and printers are the most significant source of power usage in an office setting, especially if left on all the time.

Power consumption figures do not always appear on office equipment; they are often labeled only with their peak power usage. When purchasing office equipment, look for the most efficient model and measure your investment against the cost savings over the life of the equipment.



6 Save a tree.

How many times do you print an email or memo to read it and then just throw it out? Save electricity and paper and read directly from the monitor. You can always print it out later if you need to.

RISO's Tree Planting Efforts

In 2008, RISO instituted a tree-planting program that planted 25,000 trees in National Forests in the United States. These trees were planted in honor of RISO customers who are doing their part to reduce energy consumption by purchasing a RISO high speed printing system.

Did You Know...

In the U.S. alone, there are an estimated 100 million spaces available along city streets and around homes to plant trees. Planting this many trees could save consumers about \$4 billion in energy costs each year.



7

Get the right size.

A mid-volume (20 to 44 copies per minute) copier can use 70% more energy per page than an efficient low-volume.(under 20 copies per minute) copier.

Just The Right Size

Many small print shops feel that it is difficult to justify the purchase of a ComColor inkjet printer. Users of these machines, however, quickly find the value in their decision. With a low cost per copy for both black and white and color work, plus the ability to print envelopes and card stock, ComColors are the perfect printer for small business owners wishing to expand their printing businesses.

One such example is a copy center in Massachusetts. Since adding a ComColor, they only use copiers for monochrome and short run jobs, while everything else goes to their RISO printer. “I used to outsource all of my full color flyers, which was inconvenient and expensive,” states the owner. “Now, with my RISO ComColor inkjet, color has become a large percentage of my business.”



8

Consider alternatives.

Explore adding solar or wind power to generate electricity for your organization.

Bicycle Powered RISO Printer

Two business partners in British Columbia have a printing business that is going green for both health and the environment.

They have begun generating their own power to run a RISO digital duplicator. “It started when my girlfriend wanted a treadmill and I wanted to get an exercise bike,” one explains. “I wondered if there was any way that I could get electricity while getting fit. I’d heard that you could watch TV from peddling a bike, so when I found the apparatus, I wondered if there was anything at work I could power with it. So here we are, we have a RISO printer that draws about 600 watts, and without solar panel and the bike, we can run it on 100% renewable resource power, completely off the grid.”

The battery pack used to power the machine consists of two sealed Gel Batteries and a 1-Kilowatt inverter. The partners completed the package with two solar panels and the generator for the bike. With a full charge, the battery alone will run the RISO for about three hours. With someone on the bike and a sunny day, they can extend that considerably by recharging the battery while the printer is running. They have other printers, but these printers all draw too much power for this system.



9 Stay cool.

Office equipment raises energy consumption and also makes work areas hotter; this requires more power for cooling. Put printing devices in areas with natural ventilation and good airflow to reduce the need for air-conditioning.

Printing Without Heat

In addition to the low energy usage of RISO full color printers, the lack of heating elements in the printing process eliminates the need for compensatory cooling, further reducing energy consumption and cost. This reduction in energy consumption in turn further reduces RISO full color printers' carbon footprint - the amount of carbon dioxide emitted through combustion of fossil fuels that leads to ozone depletion. The heatless process also means higher reliability and durability, resulting in fewer maintenance calls that would require a technician to drive to the customer site for a repair job.

Did You Know...

The net cooling effect of one young, healthy tree is equivalent to ten room-size air conditioners operating 20 hours a day.

Shade trees can make buildings up to 20 degrees cooler in the summer.

Both deciduous and evergreen trees save energy in summer by directly cooling the air, as water evaporates from the leaf surfaces. Strategically placed trees can also act as a windbreak in cold weather, preventing heat from being carried away from a building's outer surfaces.

10 Choose ENERGY STAR.

Look for the ENERGY STAR logo when buying office equipment. The logo ensures that the device has automatic power-management features and uses energy more efficiently.

ENERGY STAR Certified

RISO digital duplicators are ENERGY STAR certified. Because RISO digital duplicators employ a plate-based ink-on-paper technology that eliminates the extreme heat and high power consumption required by photocopiers and toner-based printers, they offer an environmentally friendly alternative that is also significantly less expensive to operate. RISO digital duplicators are substantial energy savers even when compared to other ENERGY STAR rated printing and photocopying products; in a side-by-side comparison of a RISO digital duplicator and an ENERGY STAR rated photocopier, the digital duplicator resulted in a 95% energy cost savings over the photocopier.

Did You Know...

Americans, with the help of ENERGY STAR, saved enough energy in 2007 alone to avoid greenhouse gas emissions equivalent to those from 27 million cars - all while saving \$16 billion on their utility bills.





For over 50 years we have consistently delivered high quality, reliable, environmentally friendly products that meet the needs of our customers. Whether you purchase a RISO digital duplicator or a RISO full color printer, you are assured that each product has been designed with protecting the environment in mind.

RISO: A Green Company

RISO, Inc. is a wholly owned subsidiary of Riso Kagaku Corporation, a company that has long been committed to environmental preservation. RKC promotes environmental protection actively in daily corporate operations worldwide; RKC established the RISO environmental charter in 1996 and RISO Environmental Protection Principles in 1998.

Voted the Greenest Office Products Company

In a 2008 survey of Dealers by the Business Technology Association, Dealers were asked to rate the brands they carried on a scale from “Extremely Green” to “Not at all Green”. RISO received the highest “Green” ratings of all office product dealers.

At RISO, creating the best digital printing solutions is our only business.