

OKIPAGE *8p/8w*



User's Guide

Notice

Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. Oki assumes no responsibility for the results of errors beyond its control. Oki also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by Oki.

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Safety Instructions

Your Oki printer has been carefully designed to give you years of safe, reliable performance. As with all electrical equipment, however, there are a few basic precautions you should take to avoid hurting yourself or damaging the printer:

- Read the set up instructions in this handbook carefully. Be sure to save it for future reference.
- Read and follow all warning and instruction labels on the printer itself.
- Unplug the printer before you clean it. Use only a damp cloth; do not use liquid or aerosol cleaners.
- Place your printer on a firm, solid surface. If you put it on something unsteady, it may fall and be damaged; if you place it on a soft surface, such as a rug, sofa, or bed, the vents may become blocked, causing the printer to overheat.
- To protect your printer from overheating, make sure all openings on the printer are not blocked. Do not put the printer on or near a heat source, such as a radiator or heat register. Keep it out of direct sunlight. Allow enough room around the printer for adequate ventilation and easy access to the paper trays.
- Do not use your printer near water, or spill liquid of any kind into it.
- Be certain that your power source matches the rating listed on the back of the printer. If you are not sure, check with your dealer or with your local power company.
- Your printer has an earthed, 3-pin plug as a safety feature, and it will only fit into an earthed outlet. If you can not plug it in, chances are you have an older, non-earthed outlet; contact an electrician to have the outlet replaced. Do not use an adapter to defeat the earthing.
- To avoid damaging the power cable, do not put anything on it or place it where it will be walked on. If the cable becomes damaged or frayed, replace it immediately.
- If you are using an extension cable or power strip with the printer, make sure that the total of the amperes required by all the equipment on the extension is less than the extension's rating. The total ratings of all equipment plugged into the outlet should not exceed 13 amperes.
- The power outlet into which you plug your printer must remain accessible at all times.
- Lifting the top cover exposes hot surfaces. These are clearly labelled. Do NOT touch them.
- Do not poke anything into the ventilation slots on the printer; you could get a shock or cause a fire.

- Aside from the routine maintenance described in this handbook, do not try to service the printer yourself; opening the cover may expose you to shocks or other hazards. Always contact your local dealer.
- Do not make any adjustments other than those outlined in the handbook. You may cause damage requiring extensive repair work.
- It is recommended that the printer be switched off prior to opening or removing covers.

If anything happens that indicates that your printer is not working properly or has been damaged, unplug it immediately and contact your dealer.

These are some of the things to look for:

- The power cable or plug is frayed or damaged.
- Liquid has been spilled into the printer, or it has been exposed to water.
- The printer has been dropped, or the cabinet is damaged.
- The printer does not function normally when you are following the operating instructions.

Conventions



This symbol marks a 'note'. Notes are hints or tips which offer additional information to help you.



This symbol marks a 'caution'. Cautions are special notices which you should read and follow carefully to avoid possible damage to your equipment.



This symbol marks a 'warning'. Warnings are special notices which you should read and follow carefully to avoid potential danger to yourself or others.

EMC/Low Voltage Directive



This product complies with the requirements of the Council Directives 89/336/EEC and 73/23/EEC on the approximation of the laws of the member states relating to electromagnetic compatibility and low voltage.

Energy Star



As an ENERGY STAR Partner, Oki has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Important Wiring Instructions

The wires in the power cable are coloured in accordance with the following code:

Green and Yellow	—	Earth
Blue	—	Neutral
Brown	—	Live

If the colours of the wires in the power cable of this printer do not correspond with the markings of the terminals of your plug, proceed as follows:

Green and Yellow

Must be connected to the terminal marked with the letter **E** (or the safety earth symbol) or the terminal coloured green or green and yellow.

Blue

Must be connected to the terminal marked with the letter **N** or coloured blue or black.

Brown

Must be connected to the terminal marked with the letter **L** or coloured red.



This printer must be earthed!

If you are in any doubt regarding the wiring, please contact a qualified electrician.

Choosing Print Media

Paper

- For best results, use paper that is smooth and of high quality, like copier type paper or paper with a Sheffield rating of 100-250.
- Store paper in its ream wrapper until you are ready to use it. Keep it away from moisture or other conditions that can cause it to wrinkle or curl.
- Preprinted forms must not scorch, melt, offset, or release hazardous emissions when heated to 200°C (392°F) for 0.1 second.
- Avoid printing on both sides of the paper or preprinted documents that have been in a photocopier.
- Try paper before you buy it in quantity.

Transparencies/Adhesive Labels

- Use manual feed.
- Should be specifically made for laser printers or photocopiers.
- Must be able to withstand 200°C for 0.1 second.
- Labels should cover entire carrier sheet.
- Carrier sheet or adhesive must not be exposed to any part of the printer.

Envelopes

- Use manual feed.
- No windows or metal clasps.
- Paper no heavier than 105g/m².
- Smooth, even surface.
- No self-sealing flaps.
- Seams down the side, not across the middle.
- Squared-off flaps that do not cover the print area.

Paper Sizes

Paper format	Width	x	Length
Letter	8½"	x	11"
Legal 13	8½"	x	13"
Legal 14	8½"	x	14"
Executive	7¼"	x	10½"
A4	210mm	x	297mm
A5	148mm	x	210mm
B5	176mm	x	250mm
A6	105mm	x	148mm
Free size (min)	76.2mm	x	216.0mm
(max)	127.0mm	x	355.6mm

Paper Weight

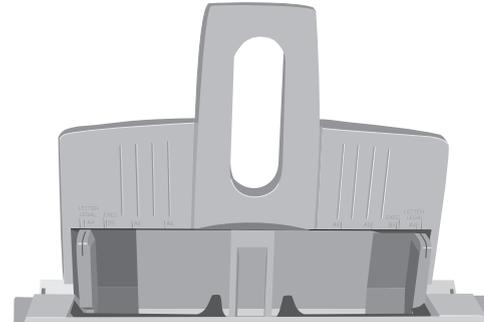
	Minimum	–	Maximum
Automatic feed	60	–	105 g/m ²
Manual feed	60	–	120 g/m ²
Envelopes	75	–	90 g/m ²

Media Type (default)	Minimum	–	Maximum
Light (60)	60	–	66 g/m ²
Medium light (68)	67	–	73 g/m ²
Medium (75)	74	–	88 g/m ²
Medium Heavy (90)	89	–	104 g/m ²
Heavy (105)	105	–	120 g/m ²

Loading Paper

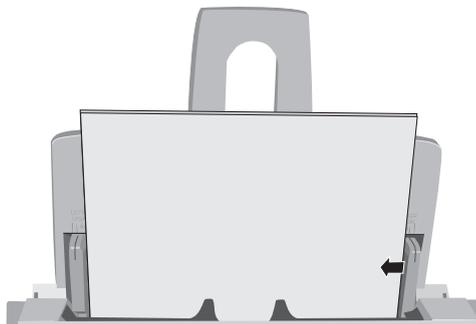
The paper feeder handles up to 100 sheets of 75g/m² (20lb.) paper.

- 1 Set the left paper guide to the marker for the required paper size and move the right guide to a position slightly wider than your paper width.



- 2 Insert the paper so that it is up against the left paper guide and check that it is not skewed.

- 3 Adjust the right paper guide to fit against the edge of the paper. Do not move the left guide again as this may cause the paper to skew as it is fed in.



- 4 Lift the paper out of the tray again slightly (about 1 cm) and re-insert it gently, allowing it to drop under its own weight – do not force it down.

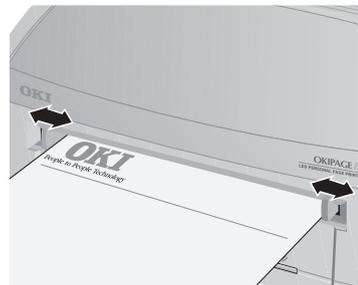
 Insert letterhead paper face-down, top of page first.

Manual feed

Use manual feed for printing envelopes, transparencies, heavyweight and odd size paper.

 Insert envelopes with flap side down and to the left.

- 1 Adjust guides.



- 2 Insert paper squarely into the guides.

 Insert letterhead paper face-up, top of page first.

Paper Exit

- Up to 30 sheets of 75g/m² (20lb) paper can be stacked.
- Printed pages exit face up.

Toner Cartridge

Toner Cartridge Life

Toner cartridge life depends on the page density, the percentage of each page that is printed black. The higher the print density, the more toner is used. On average, a toner cartridge will produce approximately 1500 sheets at 5% print density.

The first cartridge you place in your printer will produce between 500 and 700 sheets. This is normal, as the new image drum reservoir and developing roller must saturate with toner.

When to Replace the Toner Cartridge

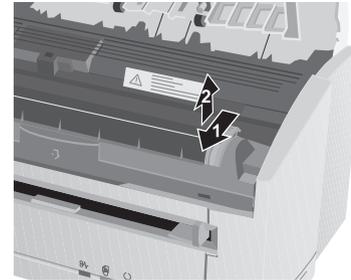
Replace the toner cartridge when you see the **TONER LOW** message displayed on your screen. You can continue printing using the toner in the printer reservoir. However, you should replace the toner cartridge as soon as possible to maintain print quality and avoid possible damage to the imaging system.

Replacing the Toner Cartridge

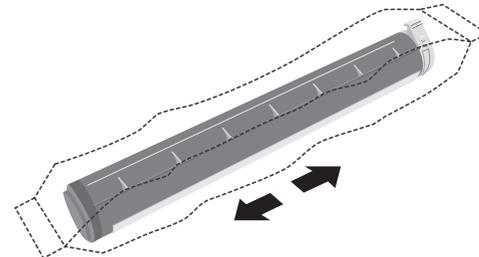
 Do not remove the new cartridge from its packaging.

1 Open the cover and remove the used toner cartridge.

 Opening the cover exposes hot surfaces which are clearly labelled. Do NOT touch them.

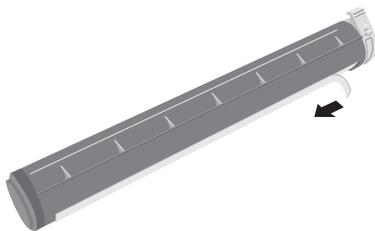


2 Shake the new toner cartridge gently to distribute toner evenly.

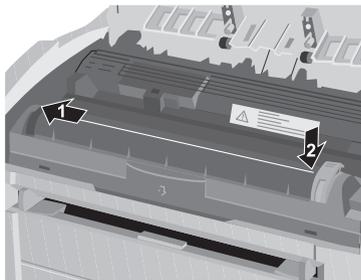


3 Unwrap the new cartridge.

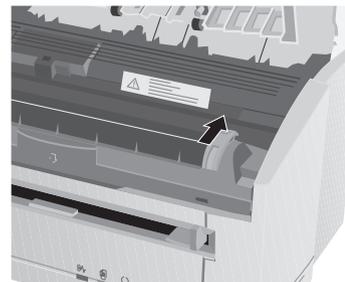
4 Remove the tape.



5 Insert the toner cartridge.



6 Push the lock lever forward.



7 Close the printer cover.

Cleaning the LED Array

Clean the LED array...

- Whenever you install a new toner cartridge.
- If you see faded vertical areas or light printing down a page.
- If printing is fuzzy or blurred.

Wipe the LED array gently using a clean, lint-free cloth.

Image drum Cartridge

Image Drum Cartridge Life

The life of an image drum depends on a number of factors, including temperature, humidity, the type of paper you use, and the number of pages per job.

The image drum cartridge should last about 10,000 pages for continuous printing, up to 8,000 pages at 3 pages per job (without power save).

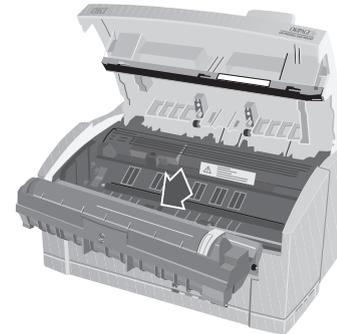
When to Replace the Image Drum Cartridge

As the image drum approaches its end of life, **CHANGE DRUM** displays on your screen. At this point, be sure you have a new drum on hand. Replace the old one as soon as print quality becomes faint or starts to deteriorate.

Replacing the Image Drum Cartridge

The image drum is a delicate unit and care should be taken not to damage it. It is therefore necessary to follow the guidelines listed below so the best print quality can be obtained from your printer.

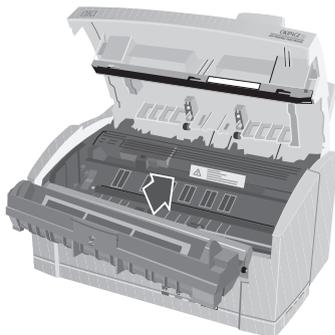
- Do NOT touch the green drum surface.
 - Do NOT set the cartridge down on anything that might scratch the surface of the drum.
 - Do NOT expose the drum to direct sunlight and do not expose it to room light for more than 5 minutes. Leave it in the package until you are ready to install it into the printer.
- 1 Open the cover and remove the used image drum cartridge.



- 2 Unwrap the new image drum cartridge and remove the protective sheet.



- 3 Insert the new image drum cartridge.



- 4 Remove the protective plastic cover from the toner well in the image drum unit.
- 5 Insert the toner cartridge.

Resetting the Drum Counter

- 1 Enter the printer status monitor.
- 2 Click on the **Printer Setup** tab.
- 3 Click on the **Printer Menu** button.
- 4 Click on the **Maintenance** tab.
- 5 Click the **Reset** button next to “Drum Counter Reset”.

Fonts

What is a Font?

Strictly speaking, a font refers to a set of printable characters in a particular typeface of a specific size (e.g. 12 point) and style (e.g. roman, bold or bold italic). In computer printing however, this term has been used in a wider context to refer to all sizes and styles of a particular typeface. In printers, fonts may be divided into two basic types: bitmap fonts and scalable (or outline) fonts.

Bitmap fonts are made up of a pattern of dots (at the printer resolution) to form the image of each printable character. These are of a fixed size, and scaling makes them look ragged.

Scalable fonts are stored as a set of mathematical curves. At print time the printer uses the stored curves to make up a bitmap of each character required, at the required size, and in the required style, at the full printer resolution. Such fonts are therefore said to be scalable, and do not appear ragged at enlarged sizes.

Using Fonts

The easiest way to select fonts is through your software program. Your software can send a printer command that consists of a set of codes, one for each of the font characteristics. If your software has the appropriate driver, you can specify the font you want, and it will send the necessary commands to the printer. For detailed information on how to select fonts in your software package, refer to your software documentation.

OKIPAGE 8p Fonts

These typefaces are resident in the OKIPAGE 8p:

- 35 MicroType scalable fonts
- 10 TrueType scalable font
- 1 Line Printer bitmap font
- OCR A/B

Front Panel Indication (OKIPAGE 8p)

As well as error indication on the host PC, the OKIPAGE 8p has a set of LEDs that inform the user of certain conditions.



Each of the LEDs can be in any one of five states:

- ⦿ **ON**
- **OFF**
- ⤴ **Blinking (slow)** repeats – ON(2secs)/OFF(2secs)
- ★ **Blinking** repeats – ON(500ms)/OFF(500ms)
- * **Blinking (fast)** repeats – ON(120ms)/OFF(120ms)

The front panel switch has different functions, depending on the condition of the front panel LEDs and also on the length of time that the button is pressed. There are three different modes of operation:

- ⓪ button pressed and released immediately.
- Ⓜ button pressed for more than 2 seconds (but less than 5 seconds).
- Ⓟ button pressed for more than 5 seconds.

LED Indication

State	Error	Manual feed	Ready	Comments
Ready	●	●	⦿	—
Cancelling data process (data remains in the buffer)	●	●	⤴	Buffer contents – Ⓜ cleared Ⓟ printed
Receiving, processing or printing data	●	●	★	—
Manual request	●	★	●	—
Change drum, toner low or toner sensor warning	⤴	—	—	—
Buffer overflow or Print overrun (ERROR)	★	●	●	Recover – ⓪
Paper out or Input jam (ERROR)	★	●	●	Recover and print re-start – ⓪
Paper jam (size check, feed jam, exit jam)	★	●	●	print re-start by cover open/close
Error Cover open	★	●	●	—
Program error (watchdog timer or controller error)	★	★	★	Recover by power off/on
Hardware error (FATAL ERROR)	*	*	*	Service call if no recovery made after power off/on
Resetting printer	●	●	★	—
Initializing	⦿⇒●	⦿⇒●	⦿⇒●	—
EEPROM initializing	★⇒●	★⇒●	★⇒⦿	—

Front Panel Switch Functions

State before press	⓪ short press	Ⓛ 2 sec. press	Ⓜ 5 sec. press
Power turned on.	—	Sets internal menu to factory default.	Sets internal menu to factory default.
Receiving, printing or processing data.	Data process is cancelled.	—	—
Data in buffer.	Data process is re-started.	Prints buffer data and goes to ready.	Printer is reset (buffer is cleared)
Cancelling data process.	—	—	Printer is reset (buffer is cleared)
Page/receive buffer or print overflow.	Recovery is made.	—	—
Paper; out, jam or size error.	Recovery and re-start of print data.	—	—
Off-line	Ready.	Demo page print (menu, demo)	Cleaning print.
Low toner	—	—	—
Ready	Off-line	—	—

Viewing and using the menus

The menus can be viewed by opening the printer status monitor. This indicates printer status and also allows access to the printer menus.



The status monitor has a comprehensive on-line help system which provides explanations and advice on all features and settings that are available.

Printer Maintenance

Transporting Your Printer

If you need to transport your printer to another location, including return for service, be sure to take the following precautions:

- 1 Seal the toner cartridge and the image drum cartridge in the black, light-proof bag provided.
- 2 Try to ensure that the printer remains the right way up during transportation to avoid spillage of any residual toner.

Generating a Cleaning Page

- Removes residual impurities from printing surfaces.
 - Reduces problems such as repeating marks, blotching and shading.
- 1 Enter the printer status monitor.
 - 2 Click on the **Printer Setup** tab.
 - 3 Click on the **Printer Menu** button.
 - 4 Click on the **Maintenance** tab.
 - 5 Click the **Cleaning** button next to “Cleaning printer”.

Cleaning the Printer

To obtain the best performance from your printer, it must be cleaned regularly.



Disconnect your printer from mains power.

- 1 Open the cover and remove the image drum cartridge.
- 2 Use a soft, dry cloth to remove any excess toner.
- 3 The printer exterior can be cleaned using a soft cloth **moistened** with water.
- 4 Wipe the printer cover with a clean, dry cloth.



Do NOT use chemical cleaners or sprays on your printer.

Aside from routine service or repair, no further printer maintenance is necessary.

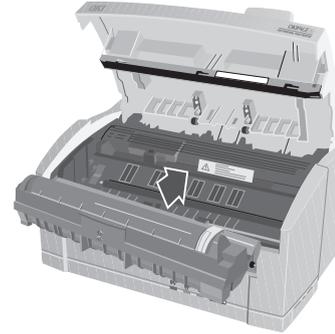
Basic Troubleshooting

Paper Jams

- 1 Open the cover.

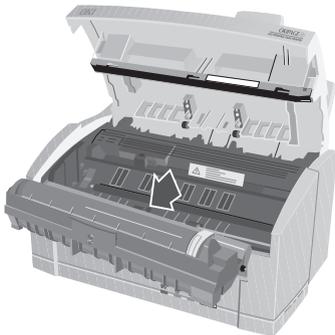


- 3 Remove the jammed paper.
- 4 Replace the image drum.



 The fuser unit at the back of the printer is hot.

- 2 Lift out the image drum.



- 5 Close the cover.

Print Quality Problems

Problem	Solution
Printed page is blank.	The toner cartridge is missing or empty. Install a new toner cartridge.
Entire page prints faintly.	The toner cartridge is installed incorrectly. Re-install the toner cartridge. Make sure the tape is removed from the bottom of the toner cartridge, the cartridge is seated correctly and the toner lock lever is pushed all the way forward. Toner cartridge is empty. Replace the toner cartridge.
Printed page is fuzzy or blurred.	Ensure that the image drum is located correctly and that the top cover is firmly closed. Use the printer control panel software to adjust the DARKNESS setting. LED array is dirty – clean the LED array. LED array is dislodged. Check alignment; contact service.
Page prints all black.	Hardware problem. Contact service.
Page has a grey background.	Static electricity, generally from dry environments, causes toner to stick to background. Change paper to a smoother laser bond or use a humidifier.
Vertical black lines on printed page.	Is toner low? Replace toner cartridge. LED array is defective. Contact service.

To verify print quality problems, try printing several pages to check that the problem is persistent.

Print Quality Problems contd.

Problem	Solution
Vertical white line or streaking on printed page.	Toner is low and does not distribute properly. Carefully remove image drum and shake side to side a few times to redistribute toner.
Page has repetitive marks.	Damaged image drum causes repetitive marks due to surface nicks or scratches. Use the printer control panel software to generate a cleaning page; marks may be temporary. Install a new image drum cartridge.
Smearred or blotched print.	Dirty rollers; toner dropped inside printer. Use the printer control panel software to generate a cleaning page. Image drum problem; contact service.

Software Problems

It is essential to ensure that you have installed the correct Oki printer drivers. If printing from a DOS text box, your application should be set up for printing with an HP LaserJet™ II or compatible driver.

Problem	Solution
Printing is garbled.	Incorrect driver is installed or selected. Install or select Oki drivers provided with printer.
Printer's output is below rated speed.	Much of the printing delay will be caused by your application. Complex graphic images may take longer to prepare for printing than simple text documents.

Hardware Problems

Problem	Solution
When you try to print nothing happens.	<p>Configuration error. Check cable connection.</p> <p>If more than one printer is available, make sure your printer has been selected.</p> <p>Check printer status. If the printer light flashes slowly, the print job is progressing. If the light flashes rapidly, use the control panel software to examine printer status.</p>
Printing is garbled.	<p>Incorrect cable configuration. Check cable configuration, type, continuity and length. Maximum recommended length is 1.8m.</p> <p>See software problems.</p>
Printer freezes, or an error message displays when computer is restarted.	Starting the computer while the printer is on can cause a communications error. Turn the printer off before restarting the computer.
Odours are given off by forms or adhesives passing through the hot fusing unit.	Odours are not emitted by the printer. Make sure the forms you use can withstand heating; provide adequate ventilation. Pre-printed forms, transparencies and adhesive labels must be able to withstand 200°C (392°F) for 0.1 second.
Printer is on but must "WARM UP" before a job is printed.	Power Save mode is set to ON to conserve energy. The fuser must heat up before printing the next job. To eliminate warm-up delay, use the printer control panel to change Power Save setting.

Hardware Problems contd.

Problem

Solution

Printed paper curls excessively.

Heat from the toner fusing process removes moisture from the paper and may cause curling. If the curling is severe...

- a** Turn the paper over in the paper feeder. Put paper in feeder with print facing the back of the printer, look on the package for an arrow or other indicator of the print side.
- b** A major cause of curl is improper storage. Store paper in a dry place, lying flat. Do not open the paper package until you are ready to use the paper.
- c** Try to protect your paper from excessive temperatures and rapid temperature changes.

Printer seems too hot.

The toner fusing process in your printer generates a significant amount of heat, and the top cover may feel quite warm. This is perfectly normal. If the top cover becomes too hot to touch, switch the printer off and call your dealer for advice.

Printed paper emerges wrinkled.

Use the printer control panel to change the **paper thickness** setting to **light**.

Specifications

Category	Item	Specification										
Printing Process	—	LED array imaging to organic photo-conductive drum.										
Physical	Height x Width x Depth Weight (8p, 8w)	264 x 324 x 346 mm (170 x 324 x 207 mm without paper tray) 4.3kg, 4.2kg										
Print Speed	Engine speed (A4)	7.7ppm										
Print Start	First print time Warm-up time	13 sec (Okipage 8p) 40 sec										
Resolution (8p,8w)	Maximum output	600 x 1200 dpi, 600 x 600 dpi										
CPU (8p, 8w)	Core Clock	MIPS R3000, OKI nX8 28MHz, 16MHz										
RAM (8p, 8w)	Resident Option	2MB, 512KB Additional 4MB (Okipage 8p only)										
ROM (8p, 8w)	ROM	6MB, 62KB										
Electrical	Voltage Frequency AC Cable	230VAC ±10% 50/60Hz ± 2% Standard 1.8m cable fitted with appropriate power plug.										
Power Consumption	Power Save Mode Idle Typical Operation Peak	<table border="0"> <tr> <td>Okipage 8w</td> <td>Okipage 8p</td> </tr> <tr> <td>4W</td> <td>6W</td> </tr> <tr> <td>32W</td> <td>37W</td> </tr> <tr> <td>160W</td> <td>180W</td> </tr> <tr> <td>450W</td> <td>450W</td> </tr> </table>	Okipage 8w	Okipage 8p	4W	6W	32W	37W	160W	180W	450W	450W
Okipage 8w	Okipage 8p											
4W	6W											
32W	37W											
160W	180W											
450W	450W											

Category	Item	Specification			
Paper handling	Input Tray Manual Feed Output Tray	Approx. 100 sheets standard paper (70g/m ²) Single sheet; paper, transparencies, adhesive labels and envelopes. 30 sheets face up – standard paper.			
Paper size	Input Tray Manual Feed	Letter, 13" or 14" Legal, A4, A5, A6, B5, Executive, Free Minimum: 76.2x147.3mm (3.0"x5.8") maximum: 14" Legal Letter, 13" or 14" Legal, A4, A5, A6, B5, C5, DL, COM-10, Monarch, Free Minimum: 76.2x127.0mm (3.0"x5.0") maximum: 14" Legal			
Media support	Media Support	Paper 60 – 105 g/m ² , heavyweight paper (up to) 120 g/m ² (manual feed only) Transparencies, adhesive labels, and envelopes are supported via the manual feed slot.			
Temperature (°C)	Operating Non-operating Storage Transit	10 0 -20 -29	– – – –	32 43 50 50	for up to 1 month in fully packed state minus toner and image drum for up to 1 month in fully packed state minus toner and image drum
Humidity (%)	Operating Non-operating Storage Transit	20 10 10 10	– – – –	80 90 90 90	25.0°C 26.8°C 35.0°C 40.0°C } Wet bulb temperature.

SCategory	Item	Specification
Life & Duty cycle	Printer Life	30 000 pages, 5 years @ max: 2 500 pages/month, av: 500 pages/month.
Service & Reliability	MTBF MTTR	5 700 Print hours @ 2.3% duty 20 minutes
Consumable life	Toner Image Drum	1 500 pages (5% print density) 10 000 pages – continuous print 8,000 pages – 3 pages/job (without power save)
Emulation (Okipage 8p only)	Standard Optional	HP LaserJet5 PCL5e, PCLXL IBM Proprinter EPSON FX None
Acoustic noise	Operating Standby	50dBA (without peak sounds) Background level
Approvals	—	EN 60950, EN 50081-1 (1992), EN 50082-1 (1992)

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User Notes

Oki Systems (UK) Ltd.

550 Dundee Road
Slough
SL1 4LE

Tel: 44 (0) 1753 819819
Fax: 44 (0) 1753 819899
<http://www.oki.co.uk>

Oki Systems (Ireland) Ltd.

The Square Industrial Complex
Tallaght
Dublin 24

Tel: 01 459 8666
Fax: 01 459 8840
<http://www.oki.ie>

Hawthorn Business Centre
Adelaide Industrial Estate
Belfast, BT12 6HP

Tel: 01232 572355
Fax: 01232 572350
<http://www.oki.ie>