Océ VarioPrint 135

Customer Expectations Document

Version 7

Engineering Services and Solutions Division
Business Imaging Systems Group, Canon U.S.A., Inc.

Contents

IMPORTANT

The purpose of this Customer Expectations Document is to explain the current features and capabilities of the Océ VarioPrint 135, and provide customers information about what to expect before purchasing the machine.

The information included in this document has been pulled from various sources, including product reference guides, service guides, and user manuals. Specifications and other information contained herein may vary slightly, and in a non-material way, from actual device values, including those found in advertising and other printed matter. Part numbers, yield information, and specifications are subject to change without notice. Accordingly, the latest specifications for the machine may not be found in this document. As new information becomes available, this document will be revised. Canon authorized dealers can access the latest revision of this document from the Download Center page on the e-Support Web site (support.cusa.canon.com).

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1. Introduction

The Océ VarioPrint 135 Customer Expectations Document contains information about the features and capabilities of the Océ VarioPrint 135. This document should be used as part of the presale and preinstallation planning processes to help clarify the requirements and responsibilities associated with supporting, owning, and operating the Océ VarioPrint 135. It is also recommended that those interested in purchasing the Océ VarioPrint 135 have, and familiarize themselves with, the information in this document prior to making their purchase.

2. Product Overview

The Océ VarioPrint 135 is a co-development product of Canon and Océ. This machine integrates Canon's accessories with Océ's engine, PRISMAsync controller, and operation management.

The Océ VarioPrint 135 brings the following capabilities to users in a high-volume, light- to mid-production office environment, including commercial printers, Print-for-Pay, graphic arts, and CRD customers:

- Printing/copying speeds of up to 135 ipm (images-per-minute)[*1] (Duplex, LTR, and B&W (Black-and-White)).
- One integrated 15" full-color touch screen operator panel for the total system.
- One media catalog for the total system.
- Prints up to 600 x 2,400 dpi (dots per inch). This results in higher quality characters, smoother corners, and cleaner gradient transitions. Text appears sharper, and graphics appear clear and detailed.
- Copies up to 600 x 1,200 dpi.
- Scans in up to 600 x 600 dpi.
- Dust-free toner filling and no waste toner or ozone is generated.
- Vacuum feed, air separation, Océ HeatXchange process, Océ ScreenPoint technology, Océ DirectPress print process, and Océ EnergyLogic process ensure reliable media handling from up to 13 lb bond to 110 lb cover (50 to 300 g/m^2).
- PRISMAsync controller offers optional scheduling feedback software for production planning on the user interface for up to 8 hours.
- Optional operator's attention light with adjustable "warn-ahead" timing.
- POC (Printer Operation Care) enables the operator to safely replace certain parts, increasing uptime.

*1 An image is defined as any text, graphics, or combination of the two, that fits onto one side of a single sheet (or page) of paper. Therefore, a printing/copying speed of approximately 135 ipm in the duplex mode equates to approximately 67.5 ppm (pages-per-minute).

IMPORTANT

- Friction fed finishing is not recommended due to the risk of slight toner abrasion.
- When running certain applications, which contain large areas of heavy coverage of solid black toner, you may observe some minor density changes from the lead edge to trail edge on the print.

2.1 Summary of Functions

Function		Océ VarioPrint 135
Print Speed (LTR) B&W		135 ipm
Scan Speed (300 dpi, LTR)	Simplex, B&W and Color[*1]	120 ipm
	Duplex, B&W and Color[*1]	
Scan Speed (600 dpi, LTR)	Simplex, B&W and Color[*1]	100 ipm
	Duplex, B&W and Color[*1]	25 ipm
Scan Speed (600 x 300 dpi, LTR)	Simplex, Duplex, and Color[*1]	105 ipm
DADF		Standard duplex automatic document feeder
DADF Capacity		300 sheets (20 lb bond (80 g/m²))
Print Resolution		Up to 600 x 2,400 dpi
Copy Resolution		Up to 600 x 1,200 dpi
Scan Resolution		Up to 600 x 600 dpi
Gradations		200 levels
Paper Size	Minimum	5.5” x 7.2” (140 mm x 182 mm)
	Maximum	12.6” x 19.2” (320 mm x 488 mm)
Paper Weight		13 lb bond to 110 lb cover (50 to 300 g/m²)
Maximum Printable Area		12.1” x 19.1” (308 mm x 484 mm)
Controller		Standard Océ PRISMAsync Controller
Controller HDD Capacity		160 GB
Controller Memory		2 GB
Security		Optional with E-Shredding license enabled on the PRISMAsync controller
Copy		Standard
Scan		Standard for B&W[*1]
Print		Standard
Network		Standard Ethernet 10/100/1000 Base-TX

*1 To scan in color, the optional Color Scan to File/E-Mail-C1 license must be installed.

2.2 Offset Press vs. Océ DirectPress

Offset printing is a technique that transfers (or “offsets”) an inked image from a plate to a rubber blanket, and then to the printing surface. This enables the offset press to maintain a consistent and high-image quality over long print runs because the plate never touches the paper. The process requires a substantial investment in equipment and setup expenses to achieve these results.

Océ DirectPress converts digital data into a toner image in a single step. This compact process is unaffected by temperature, static, or humidity. Therefore, it offers stable performance and no deterioration in quality, while producing no ozone or waste toner.

2.3 Standard Configuration

The standard configuration for the Océ VarioPrint 135 includes:

- Océ VarioPrint 135 main unit
- Duplex Color Image Reader Unit-D1
- Operator panel
- PRISMAsync controller (embedded in the main unit)
- Ethernet connection (via the PRISMAsync controller)
- USB connection (via the operator panel)

IMPORTANT
The customer must purchase the Océ VarioPrint 135 Base License V2 with or without POC (Printer Operation Care). For more information on POC, see “Printer Operation Care,” on p. 39.

2.4 PRISMAsync Controller

The Océ VarioPrint 135 is powered by Océ's PRISMAsync Print Controller.

The PRISMAsync controller seamlessly enables the customer to streamline their workflow and turn out more work in less time with the following features:

- Scheduler - Plan-ahead functionality for multiple jobs simultaneously. The scheduler only shows an estimated job completion time, not the actual time it may take to complete a job. The actual job completion time may vary, depending on mixed media jobs, mixplex jobs, selected Finishing settings, and color adjustments.
- One queue and job management for printing and copying.
- Streaming (spooling, RIPing, printing, and cleaning up simultaneously).
- Multi-tasking (print, copy, and scan).
- JDF (Job Definition Format) connector compatible.
- Multiple standard and customizable workflow profiles.
- Media-based operation with PRISMA media catalog.
- PRISMAsync controller settings are accessible via a Web browser using the Settings Editor.
- DocBox (optional) for advanced job editing.

2.4.1 PRISMAsync System Backup

To backup the PRISMAsync system settings and licenses, a technician must use the USB key included in the PRISMAsync box.

To backup the PRISMAsync's firmware, a technician must use a specific type of USB stick (available for purchase), as described in "USB Stick," on p. 21.

The USB key and USB stick are the same types of physical hardware (flash drives); however, they are both used for different purposes.

It is strongly recommended that technicians make a backup of the system after installation, major system changes, or upgrades on the provided USB key.

The USB key must be left with the PRISMAsync controller.

2.4.2 PRISMAsync Firmware Updates

It is recommended that a technician use a specific kind of USB stick to upgrade or restore the PRISMAsync controller firmware. The USB stick is NOT included in the PRISMAsync box.

The USB stick used for upgrading the controller firmware must adhere to specific technical requirements. For the USB stick's technical requirements, see "USB Stick," on p. 21.

IMPORTANT

- Before downloading new firmware on the USB stick, the USB stick must be formatted (all contents on the stick erased). During the firmware update process, the current firmware on the PRISMAsync controller is erased and replaced by the newly installed firmware. Therefore, it is highly recommended that the technician backup the PRISMAsync system settings and licenses on the USB key first. Then, after the firmware is updated (using the USB stick), the installed licenses and settings can be restored using the USB key.
- Once the USB stick has been used to update firmware on the PRISMAsync controller, it cannot be used again until the format process is repeated.
- The USB key and USB stick should not be used interchangeably.
- Using a USB stick that does not meet the specific technical requirements, may result in an error when backing up the system settings or an error when installing firmware.

2.5 Professional Input/Output Accessories

The Océ VarioPrint 135 features many input and output accessories that allow customers working in office environments to complete large jobs directly from the machine. For more information on the input and output accessories that can be attached to the machine, see “Specifications,” on p. 18.

Input Accessories

- Duplex Color Image Reader-D1 (standard)
- ePIM-C1 (external Paper Input Module) (optional)

Optional Finishing (Output) Accessories

- Document Insertion Unit-F1
- High Capacity Stacker-E1
- High Capacity Stacker-F1 (Requires PRISMAsync Firmware Version 2.4)
- Paper Folding Unit-F1
- Finisher-AF1
- Saddle Finisher-AF2
- Puncher Unit-BQ1 (Internal to the Finisher-AF1 or Saddle Finisher-AF2)
- Booklet Trimmer-D1
- Two-Knife Booklet Trimmer-A1
- SDD (Smart Dedicated Design) Square Fold Booklet-Maker with Two-Knife Trimmer (Requires PRISMAsync Firmware Version 2.4.7 or later)
- SDD Square Fold Booklet-Maker (Requires PRISMAsync Firmware Version 2.4.7 or later)
- PowerLift

IMPORTANT

- Some type of finishing option (Finisher-AF1, Saddle Finisher-AF2, High Capacity Stacker-E1, or High Capacity Stacker-F1) is required.
- Either the Finisher-AF1 or Saddle Finisher-AF2 can be installed. They cannot be installed together.
- Only the Two-Knife Booklet Trimmer-A1 or SDD Square Fold Booklet-Maker with Two-Knife Trimmer can be installed.
- The Booklet Trimmer-D1 requires the Saddle Finisher-AF2.
- The Two-Knife Booklet Trimmer-A1 requires the Booklet Trimmer-D1 and Saddle Finisher-AF2.
- The SDD Square Fold Booklet-Maker with Two-Knife Trimmer requires the Booklet Trimmer-D1.
- The SDD Square Fold Booklet-Maker requires the Booklet Trimmer-D1.
- The Paper Folding Unit-F1 requires the Finisher-AF1 or Saddle Finisher-AF2.
- Two High Capacity Stacker-E1s can be attached to the machine at once.
- Two High Capacity Stacker-F1s can be attached to the machine at once.
- A High Capacity Stacker-E1 cannot be installed together with a High Capacity Stacker-F1.
- The PowerLift is used only with the High Capacity Stacker-F1.

3. Machine Dimensions and Space Requirements

3.1 Dimensions

The following table includes the width, height, and depth dimensions (in inches and millimeters) of the main unit and optional accessories.

Unit	Width		Depth		Height	
Main Unit without Operator Panel	44.5”	1,130 mm	30.1”	765 mm	40.9”	1,040 mm
Main Unit with Operator Panel	44.5”	1,130 mm	30.1”	765 mm	56.3”	1,430 mm
Duplex Color Image Reader-D1	24.9”	633 mm	23.1”	588 mm	7.0”	179 mm
ePIM-C1	38.6”	980 mm	29.5”	750 mm	40.9”	1,040 mm
Document Insertion Unit-F1	27.6”	701 mm	31.2”	793 mm	55.0”	1,397 mm
High Capacity Stacker-E1	39.3”	997 mm	31.1”	792 mm	53.6”	1,362 mm
High Capacity Stacker-E1+ Secondary High Capacity Stacker-E1	78.7”*1	1,999 mm*1	31.1”	792 mm	53.6”	1,362 mm
High Capacity Stacker-F1	35.4”	899 mm	29.3”*2	745 mm*2	40.9”	1, 040 mm
High Capacity Stacker-F1+ Secondary High Capacity Stacker-F1	71.0”*1	1,803 mm*1	29.3”*2	745 mm*2	49.9”	1,040 mm
Paper Folding Unit-F1	13.2”	336 mm	31.2”	793 mm	46.9”	1,190 mm
Finisher-AF1	31.3”*3	800 mm*3	31.1”	792 mm	46.5”	1,180 mm
Saddle Finisher-AF2	31.3”*4	800 mm*4	31.1”	792 mm	46.5”	1,180 mm
Puncher Unit-BQ1	Internal					
Booklet Trimmer-D1*5	62.0”	1,575 mm	30.3”	770 mm	40.9”	1,040 mm
Two Knife Booklet Trimmer-A1*6	21.1”	536 mm	30.3”	770 mm	40.9”	1,040 mm
Two Knife Booklet Trimmer-D1*6 **+ Booklet Trimmer-D1***5	83.3”*1	2,116 mm*1	30.3”	770 mm	40.9”	1,040 mm
Booklet Trimmer-D1*5 **+ Saddle Finisher-AF2**	93.7”*1	2,380 mm*1	31.1”	792 mm	46.5”	1,180 mm
Two-Knife Booklet Trimmer-A1*6 **+ Booklet Trimmer-D1***5 **+ Saddle Finisher-AF2**	115.0”*1,*4	2,921 mm*1,*4	31.1”	792 mm	46.5”	1,180 mm
Square Fold Booklet-Maker & Two-Knife Trimmer*7	62.6”	1,592 mm	27.6”	701 mm	51.0”	1,295 mm
Square Fold Booklet-Maker*7	43.3”	1,100 mm	27.6”	701 mm	45.0”	1,143 mm
PowerLift	21.0”	530 mm	33.0”	850 mm	60.0”	1,520 mm

*1 The width includes one 1/5” (5 mm) gap between each piece of equipment attached.
*2 When the eject tray is extended, the depth is 49.2” (1,250 mm).
*3 When the extension tray is pulled out, the width is 35.1” (890 mm).
*4 When the auxiliary booklet tray is pulled out, the width is 41.7” (1,060 mm).
*5 With the conveyor section and delivery tray.
*6 Without the conveyor section and delivery tray.
*7 Square Fold Booklet-Maker Conveyor Tray is fully extended.

3.2 Weight

The weights of the main unit, feeding and finishing options (in pounds and kilograms) are listed in the table below.

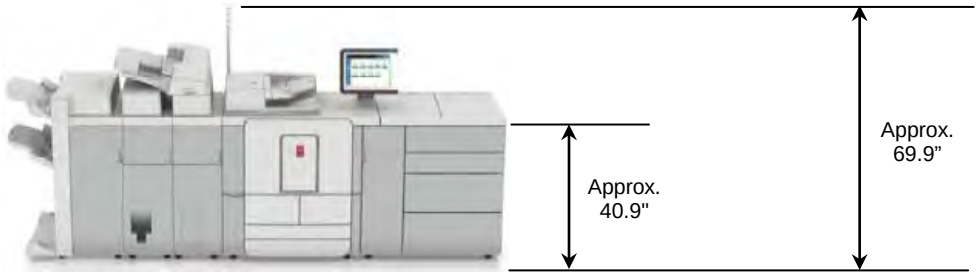
Unit	Weight	
Main Unit	580 lb	263 kg
Operator Panel	7.5 lb	3.4 kg
Operator Attention Light-C1	3 lb	1.4 kg
Duplex Color Image Reader-D1	59 lb	27 kg
ePIM-C1	441 lb	200 kg
Document Insertion Unit-F1	122 lb	55 kg
High Capacity Stacker-E1	463 lb	210 kg
High Capacity Stacker-F1	264.6 lb	120 kg
Paper Folding Unit-F1	144 lb	65 kg
Finisher-AF1	287 lb	130 kg
Saddle Finisher-AF2	396 lb	180 kg
Puncher Unit-BQ1	8.2 lb	3.7 kg
Booklet Trimmer-D1[*1]	335 lb	152 kg
Two-Knife Booklet Trimmer-A1[*1]	319 lb	145 kg
Square Fold Booklet-Maker & Two-Knife Trimmer	573 lb	260 kg
Square Fold Booklet-Maker	154 lb	70 kg
PowerLift	80 lb	36 kg

*1 Without the conveyor section and delivery tray.

3.3 Dimensions Diagrams

The installation site must provide enough space for unrestricted operation, maintenance work, and proper ventilation. Every attempt should be made to install the equipment in a room that is large enough for the proper servicing and maintenance of the equipment, and ensure that issues, such as ventilation, odors, and dust accumulation are not a concern.

Provide at least 31” behind, 39.4” around the left side, 23.6” around the right side, and 55” around the front of the machine (with all doors and access panels open).



IMPORTANT

- The Océ VarioPrint 135 was created to be modular in design. Floor space, budget, monthly copy/print volume, and applications will determine which configuration works best.
- The maximum configuration (fully configured machine) includes the Main Unit, Duplex Color Image Reader-D1, ePIM-C1, Document Insertion Unit-F1, High Capacity Stacker-E1 (x 2) or High Capacity Stacker-F1 (x 2), Paper Folding Unit-F1, Saddle Finisher-AF2, Booklet Trimmer-D1, and Two Knife Booklet Trimmer-A1.
- The optional High Capacity Stacker-F1 is not shown in the configuration diagrams above.
- The optional SDD Square Fold Booklet-Maker with Two-Knife Trimmer is not shown in the configuration diagrams above. If the SDD Square Fold Booklet-Maker with Two-Knife Trimmer is attached to the machine, make sure that there is approximately 62.6” (1,592 mm) of space added to the installation space and floor design.
- The optional SDD Square Fold Booklet-Maker is not shown in the configuration diagrams above. If the SDD Square Fold Booklet-Maker is attached to the machine, make sure that there is approximately 43.3” (1,100 mm) of space added to the installation space and floor design.
- There needs to be approximately 1/5” (5 mm) of space in between each accessory attached.
- Keep the back of the machine at least 18” (457.2 mm) away from a wall (only if the main engine, optional ePIM-C1, and either the Finisher-AF1 or Saddle Finisher-AF2 are attached). For all other configurations, keep the back of the machine at least 31” (787.4 mm) away from a wall.
- Make sure that approximately 55” (1,397 mm) of space is provided around the front, approximately 39.4” (1,000 mm) of space is provided around the left side, and approximately 23.6” (600 mm) of space is provided around the right side of the machine for the proper servicing of the equipment.
- The floor must be level (with no bows) for the stabilization and support of the machine.
- The machine should not be moved once it is in place.

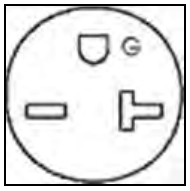
3.4 Floor Structure Requirements

The floor on which this machine is installed must have strength of at least 100 lb/ft^2 (488 kg/m^2). If the floor does not have this level of strength, consult a building contractor before installing the machine.

The weight of the machine is distributed on the floor through the adjusters and wheels. Do not install the machine on an unstable floor or platform.

4. Power/Electrical Requirements

The Océ VarioPrint 135 requires a NEMA 6-20R receptacle for the main unit and proper operation.



NEMA 6-20R Receptacle

4.1 Power Requirements for the Main Unit and Optional Accessories

Part or Accessory	Power Supply	Power Supply Cord/ Plug Specifications	Length of Power Cord
Main Unit	1-208-240 V/20 A outlet	NEMA 6-20R	13.8' (4.2 m)
e-PIM-C1	1-120 V/15 A outlet	NEMA 5-15	6' (1.8 m)
Duplex Color Image Reader-D1	From the main unit	—	—
Document Insertion Unit-F1	1-120 V/15 A outlet	NEMA 5-15 UL498, 2-pole, 3-wire, grounding devices rated 250 V/15 A	6' (1.8 m)
High Capacity Stacker-E1[*1]	1-120 V/15 A outlet (regardless of the number of stackers connected)	NEMA 5-15	6' (1.8 m)
High Capacity Stacker-F1[*2]	1-120 V/10 A outlet (regardless of the number of stackers connected)	NEMA 5-15	6' (1.8 m)
Paper Folding Unit-F1	From the finisher	—	—
Finisher-AF1	1-120 V/15 A outlet	NEMA 5-15 UL498, 2-pole, 3-wire, grounding devices rated 250 V/15 A	6' (1.8 m)
Saddle Finisher-AF2	1-120 V/15 A outlet	NEMA 5-15 UL498, 2-pole, 3-wire, grounding devices rated 250 V/15 A	6' (1.8 m)
Booklet Trimmer-D1	From the finisher	—	—
Two-Knife Booklet Trimmer-A1	1-120 V/15 A outlet	NEMA 5-15	6' (1.8 m)
Square Fold Booklet-Maker & Two-Knife Trimmer[*3]	1-120 V/15 A outlet	NEMA 5-15	6' (1.8 m)
Square Fold Booklet-Maker	1-120 V/15 A outlet	NEMA 5-15	6' (1.8 m)
PowerLift	1-120 V/2 A outlet	NEMA 5-15	6' (1.8 m)

*1 If a second High Capacity Stacker-E1 is connected, the second stacker draws power from the first stacker.
*2 If a second High Capacity Stacker-F1 is connected, the second stacker requires an additional 120 V/10 A outlet.
*3 The SDD Two-Knife Trimmer provides the SDD Square Fold Booklet-Maker with power.

IMPORTANT

- Use only dedicated outlets for the main unit and each optional accessory. Do not use extension cords.
- Before installation, confirm that all necessary receptacles are available.

5. Environmental Factors and Requirements

This section describes the necessary environmental factors and requirements in which the machine should be operated to achieve the best image quality and print results.

5.1 Temperature and Humidity Conditions

The optimal humidity range is 20% to 80% RH (Relative Humidity) with a room temperature of 62.6°F to 78.8°F (17°C to 26°C) for print speeds greater than 120 ipm, or 62.6°F to 82.4°F (17°C to 28°C) for print speeds up to 120 ipm. Make sure to maintain a constant temperature and humidity within this range. Otherwise, there is a risk that productivity, paper feeding, image quality, and reliability may be affected if the machine is operated outside of these guidelines.

The machine should not be installed in locations with significant shifts in temperature or humidity. Areas containing water, or equipment that can significantly alter room temperature or humidity, such as a space heater, stove, or portable air conditioner, should be avoided.

The optimal humidity range for storing paper is 20% to 80% RH with a room temperature of 62.6°F to 78.8°F (17°C to 26°C) for print speeds greater than 120 ipm, or 62.6°F to 82.4°F (17°C to 28°C) for print speeds up to 120 ipm. Storing paper in a location that does not meet these specifications may affect paper feeding and image quality. For example, if the humidity is too high, paper curling and paper jams will increase. If the humidity is too low, paper may shrink or lose resistance, and toner will not adhere to the paper as well.

Only use paper that has fully acclimatized to the environment in which the machine is installed. Using paper that has been stored in a different environment (with a different temperature and humidity), may cause paper jams or result in poor print quality.

5.2 Temperature Gradient

If a sudden temperature change occurs, it may have an adverse affect on image positioning. Sudden temperature changes may cause the paper to bend or contract, cause the machine to malfunction, and form condensation. Every effort should be made to maintain consistent temperature and humidity levels in the operating environment at all times for the Océ VarioPrint 135.

5.3 Ventilation

Ensure that there is at least 1,236 ft^3 (35 m^3) of space in the location where the machine will be installed.

The machine does not emit any ozone.

5.4 Lighting

We recommend installing the machine in a location with at least 500 lux (29 1/2” (75 cm) above the floor) for normal operation and maintenance.

5.5 Sunlight

Avoid installing the machine in direct sunlight. Direct sunlight has adverse effects on toner consistency and image quality. If direct sunlight is unavoidable, use curtains to shade the machine. Make sure that the curtains do not block the machine’s ventilation slots or louvers, or interfere with the electrical cord or power supply.

5.6 Ammonia

Avoid installing the machine where ammonia is emitted. In a sufficient amount, ammonia will attack the surfaces of the machine’s paper feed and image quality components, thereby shortening their useful life and increasing the need for periodic and remedial maintenance.

A professional assessment of the air quality in the room in which the machine is to be installed is recommended prior to its installation.

6. Specifications

This chapter explains the specifications of the main unit and optional accessories.

The specifications provided are approximate values for the user's reference only, and are subject to change without notice for product improvement or future release.

6.1 Main Unit

Item	Specifications
Name	Océ VarioPrint 135
Type	Console
Imaging Technology	Océ DirectPress
Color Supported	Black-and-White
Print Resolution	Up to 600 x 2,400 dpi
Copy Resolution	Up to 600 x 1,200 dpi
Scan Resolution	Up to 600 x 600 dpi*1 *1 Color scanning requires an optional license.
Number of Gradations	200
Paper Capacity	Drawer 1: 1,500 sheets (LTR) (20 lb bond (80 g/m^2)) Drawer 2: 1,500 sheets (LTR) (20 lb bond (80 g/m^2)) Drawer 3: 500 sheets 5.5" x 7.2" to 11" x 17" (140 mm x 182 mm to 279 mm x 432 mm) Drawer 4: 500 sheets 5.5" x 7.2" to 12.6" x 19.2" (140 mm x 182 mm to 320 mm x 488 mm)
Paper Size/Weight/Type	Size: 12" x 19.2", 12" x 18", 11" x 17", LGL, LTRR, EXECR, EXEC LTR-Tab, LTR, and Irregular Size (5.5" x 7.2" to 12.6" x 19.2" (140 mm x 182 mm to 320 mm x 488 mm)) Weight: 13 lb bond to 110 lb cover (50 to 300 g/m^2) Type: Plain, Offset, Coated, Transparency, Pre-punched, Pre-printed, Tab, Labels, Textured, Die cuts, NCR (No Carbon Required)
Margin	Top Margin: 1/8" (3 mm) Left and Right Margins: 1/8" (3 mm) Bottom Margin: 1/8" (3 mm)
Warm-Up Time	2.5 minutes to 4.5 minutes, depending on the amount of toner in the cleaner.
First Copy Time	Approximately 3.9 seconds (simplex)
First Print Time	Approximately 5.1 seconds (simplex)
Maximum Printable Area	12.1" x 19.1" (308 mm x 484 mm)
Registration Tolerance	Maximum ±0.5 mm

Main Unit Table Continued

<table>
<tr><th>Item</th><th colspan="5">Specifications</th></tr>
<tr><td rowspan="20">Copy/Print Speed</td><td rowspan="2">Mode</td><td rowspan="2">Size</td><td colspan="3">Paper Weight</td></tr>
<tr><td>Less than 31 lb bond (120 g/m^2)</td><td>31 lb bond to 80 lb cover (120-220 g/m^2)</td><td>Greater than 80 lb cover (220 g/m^2)</td></tr>
<tr><td rowspan="9">Simplex</td><td>LTR</td><td colspan="2">120</td><td>60</td></tr>
<tr><td>LTR-Tab</td><td colspan="2">113</td><td>56</td></tr>
<tr><td>EXEC</td><td colspan="2">123</td><td>61</td></tr>
<tr><td>EXECR</td><td colspan="2">100</td><td>49</td></tr>
<tr><td>LTRR</td><td colspan="2">95</td><td>47</td></tr>
<tr><td>LGL</td><td colspan="2">74</td><td>37</td></tr>
<tr><td>11” x 17”</td><td colspan="2">63</td><td>31</td></tr>
<tr><td>12” x 18”</td><td colspan="2">60</td><td>30</td></tr>
<tr><td>12” x 19.2”</td><td colspan="2">56</td><td>28</td></tr>
<tr><td rowspan="9">Duplex</td><td>LTR</td><td>135</td><td>120</td><td>60</td></tr>
<tr><td>LTR-Tab</td><td>—</td><td>—</td><td>—</td></tr>
<tr><td>EXEC</td><td>138</td><td>123</td><td>61</td></tr>
<tr><td>EXECR</td><td>75</td><td>75</td><td>49</td></tr>
<tr><td>LTRR</td><td>75</td><td>75</td><td>47</td></tr>
<tr><td>LGL</td><td>75</td><td>74</td><td>37</td></tr>
<tr><td>11” x 17”</td><td>70</td><td>63</td><td>31</td></tr>
<tr><td>12” x 18”</td><td>68</td><td>60</td><td>30</td></tr>
<tr><td>12” x 19.2”</td><td>62</td><td>56</td><td>28</td></tr>
<tr><td>Multiple Prints</td><td colspan="5">1 to 65,000 sheets</td></tr>
<tr><td>Operating Noise</td><td colspan="5">Printing: Approximately 75.3 dB
Standby: Approximately 47.3dB</td></tr>
<tr><td>Ozone Emissions</td><td colspan="5">None</td></tr>
<tr><td>Power Source</td><td colspan="5">1-phase, 208-240 V AC, 50/60 Hz, 20 A (one power cord)</td></tr>
<tr><td>Maximum Power Consumption</td><td colspan="5">Main Unit:
Ready Mode Approximately 275 W
Low Power Mode: Approximately 150 W
Sleep Mode: Approximately 38 W</td></tr>
<tr><td>TEC (Typical Electricity Consumption)</td><td colspan="5">20.2-21.2 kWh</td></tr>
<tr><td>Dimensions (H x W x D)</td><td colspan="5">Without Operator Panel:
40.9” x 44.5” x 30.1” (1,040 mm x 1,130 mm x 765 mm)

With Operator Panel:
56.3” x 44.5” x 30.1” (1,430 mm x 1,130 mm x 765 mm)</td></tr>
<tr><td>Weight</td><td colspan="5">Approximately 579.8 lb (263 kg)</td></tr>
</table>

Main Unit Table Continued

Item	Specifications
Ozone Emissions	None
Altitude	3,280.8' (less than 1,000 m) maximum
Temperature while in Use	62.6°F to 78.8°F (17°C to 26°C) for print speeds greater than 120 ipm, or 62.6°F to 82.4°F (17°C to 28°C) for print speeds up to 120 ipm
Humidity	20 to 80% RH

6.2 PRISMAsync Controller

Item	Specifications
Server Type	• Embedded with optional removable hard disk • Web-based configuration with Océ Settings Editor
Processor	2 GHz
Memory	2 GB
Hard Disk	160 GB
Network Connectivity	10/100/1000 Base-T
Network Protocols	TCP/IP (LPR/LPD, Socket), SMB Static IP/Auto IP (via DHCP) SNMP v1-v3 (Printer MIB, Private MIB, Job Monitor MIB), IPP
Operating System	Windows 7
Page Description Languages	Adobe PostScript 3, PDF 1.7, PCL 6, XPS
Print from USB	PDF, PS, PCL, XPS via USB connection on the operator panel
Security	CC EAL 2+, E-Shredding, Firewall, PIN for Doc Box, User authentication to SDS, optional removable hard disk, IPv6
Features	• Print-while-RIP • RIP-then-Print • Streaming • Process multiple jobs • No cycle-down between jobs • Multi-tasking (scan, copy, print)
Options	• Generic USB mouse support • Section 508 kit (video attention light) • CCD (Charge-Coupled Device) interface for accounting • Operator attention light • Removable hard disk • Remote UI

6.2.1 USB Stick

Item		Specifications				
USB Connection Speed		USB 2.0 High-Speed certified, USB 1.1 backward compatible				
USB Stick Size		≥ 2 GB, 4 GB is recommended				
Bootable Media Support		Yes (Mandatory)				
File System Support		Bootable NTFS and FAT32 (Intel)				
Drivers		Windows generic drivers for USB mass storage. No specific drivers or specific setup.				
Bios Recognition		USB HDD device				
USB Stick Technology		SLC (Single Level Cell) (Mandatory)				
Encryption		No hardware data encryption. Software on the USB stick is allowed.*1				
U3 Support		Not allowed.				
Biometric Support		Not allowed.				
Micro-Drive		Not allowed.				
Ready Boost Certified		Yes (Mandatory)				
Minimal Throughputs	**File Size**	512 B	32 KB	256 KB	2 MB	64 MB
	Read	1.5 MB	8 MB	20 MB	23 MB	24 MB
	Write	0.1 MB	0.8 MB	4 MB	4 MB	8 MB
Housing		Rubber housing (shock resistant) is preferred.				
LCD Screen		Not allowed.				
Activity Indication LED		Yes				
Tested & Supported USB Sticks*2		• OCZ ATV – Supplier Ref#: OCZUSBATVxG*3 • Corsair Flash Voyager GT – Supplier Ref#: CMFUSB2.0-16GBGT • Patriot Xporter XT Boost – Supplier Ref#: PEFxGUSB*3				
Minimum Manufacturer Warranty		5 years				

*1 Encryption software on the USB stick is allowed only if it is possible to automatically format the stick (e.g., with the Format command), and does not involve any additional human action.

*2 USB sticks that have not been tested cannot be used.

*3 "x" is the size of the USB stick (e.g., OCZUSBATV4G = 4 GB USB stick).

6.3 Duplex Color Image Reader-D1 with Feeder

Item	Specifications
Feeder	
Original Feeding Mechanism	Single Pass Duplex Automatic Document Feeder
Size and Weight of Originals	11” x 17”, LGL, LTR, LTRR, STMT, or STMTR 1-Sided Original: 10 lb bond to 80 lb cover (38 to 220 g/m^2) 2-Sided Original: 13 lb bond to 80 lb cover (50 to 220 g/m^2)
Original Tray Capacity	300 sheets (20 lb bond (80 g/m^2))
Original Replacement Speed	Copying: 1-sided scanning and 2-sided scanning: B&W originals (300 x 300 dpi) : 120 ipm Color originals (300 x 300 dpi)*1: 120 ipm 1-sided scanning and 2-sided scanning: B&W originals (600 x 600 dpi): 100 ipm Color originals (600 x 600 dpi)*1: 25 ipm 1-sided scanning and 2-sided scanning: Color originals (600 x 300 dpi)*1: 105 ipm *1 Color scanning requires an optional license.
Power Source	From the main unit.
Dimensions (H x W x D)	7 1/8” x 25” x 23 1/8” (179 mm x 633 mm x 588 mm)
Weight	Approximately 59 lb (27 kg)
Reader	
Type	Flat Bed
Platen	Fixed
Resolution for Reading	Up to 600 x 600 dpi
Acceptable Originals	Sheet, book, three dimensional objects (up to 4.4 lb (2 kg))
Paper Sizes	11” x 17”, LGL, LTR, LTRR, STMT, STMTR, or EXEC

6.4 ePIM-C1

Item	Specifications
Paper Size/Weight/Type	Size: 12” x 19.2”, 12” x 18”, 11” x 17”, LGL, LTRR, LTR-Tab, LTR, and Irregular Size (8.0” x 8.0” to 12.6” x 19.2” (203 mm x 203 mm to 320 mm x 488 mm)) Weight: 13 lb bond to 110 lb cover (50 to 300 g/m^2) Type: Plain, Offset, Coated, Transparency, Pre-punched, Pre-printed, Tab, Labels, Textured, Die cuts, NCR (No Carbon Required)
Paper Deck Capacity (LTR paper (20 lb bond (80 g/m^2))	Drawer 1: 600 sheets Drawer 2: 600 sheets Drawer 3: 1,700 sheets for single tray 3,300 sheets for optional Duo Paper Tray-A1[*1] Drawer 4: 1,700 sheets for single tray 3,300 sheets for optional Duo Paper Tray-A1[*1]
Paper Feed Technology	Vacuum feed, air separation
Power Source/Maximum Power Consumption	120 V AC, 60 Hz, 1.0 A 200 W maximum
Dimensions (H x W x D)	40.9” x 38.6” x 29.5” (1,040 mm x 980 mm x 750 mm)
Weight	Approximately 440.9 lb (200 kg)

*1 The optional Duo Paper Tray-A1 is available only for Drawers 3 and 4, supports only LTR-size paper, and requires PRISMAsync firmware 2.4. If the single tray for Drawer 3 or 4 is converted to the optional Duo Paper Tray-A1, the paper tray cannot be converted back to use different-size paper again.

6.5 Document Insertion Unit-F1

Item	Specifications
Paper Size/Weight/Type	Size: 13” x 19”, 12” x 18”, 12 5/8” x 17 3/4”, 11”x 17”, LGL, LTR, LTRR, EXEC, EXECR, and Irregular Size (7 1/8” x 7 1/8” to 13” x 19 13/64” (182 mm x 182 mm to 330.2 mm x 487.7 mm)) Weight: Plain: 13 lb bond to 110 lb cover (50 to 300 g/m^2) Coated: 24 lb bond to 90 lb cover (80 to 240 g/m^2) Type: Thin, Plain, Heavy, Recycled, Color, Pre-punched, Bond, Transparency, Labels, Coated, Textured, Tab[*1], Vellum, Offset, Pre-printed, Die cuts, NCR (No Carbon Required) *1 To neatly square off tab paper, only output tab paper to the High Capacity Stacker’s Output Tray.
Paper Capacity	Upper & Lower Trays: 200 sheets (20 lb bond (80 g/m^2))
Power Source/Maximum Power Consumption	120 V AC, 60 Hz, 1.0 A 200 W maximum
Dimensions (H x W x D)	55” x 27 5/8” x 31 1/4” (1,397 mm x 701 mm x 793 mm)
Weight	Approximately 122 lb (55 kg)

6.6 High Capacity Stacker-E1

Item	Specifications
Paper Size	Stack Tray: 13” x 19”, 12” x 18”, 12 5/8” x 17 3/4”, 11” x 17”, LGL, LTR, LTRR, EXEC, EXECR, and Irregular Size (10 1/8” x 7 1/8” to 13” x 19 13/64” (257 mm x 182 mm to 330.2 mm x 487.7 mm), 8 1/4” x 11” to 10 1/8” x 19 13/64” (210 mm x 279.4 mm to 256.9 mm x 487.7 mm)) Output Tray: 13” x 19”, 12” x 18”, 12 5/8” x 17 3/4”, 11” x 17”, LGL, LTR, LTRR, EXEC, EXECR, and Irregular Size (7 1/8” x 7 1/8” to 13” x 24 7/8” (182 mm x 182 mm to 330.2 mm x 630 mm))
Paper Weight	Weight: Plain: 13 lb bond to 110 lb cover (50 to 300 g/m^2) Coated: 24 lb bond to 90 lb cover (80 to 240 g/m^2)
Paper Type	Thin, Plain, Heavy, Recycled, Color, Pre-punched, Bond, Labels, Transparency, Tab[*1], Coated, Textured, Vellum, Offset, Pre-printed, Die cuts, NCR (No Carbon Required) *1 To neatly square off tab paper, only output tab paper to the High Capacity Stacker’s Output Tray.
Paper Capacity	6,000 sheets maximum
Number of Trays	2 trays
Tray Capacity	Output Tray: 1,000 sheets (or 5 3/4” (147 mm) in height) Stack Tray: 5,000 sheets x 2 (or 22 5/8” (575 mm) in height)
Stacking Modes	Collate, Group, Offset, Continuous Load
Power Source/Maximum Power Consumption	120 V AC, 60 Hz, 15 A 580 W maximum
Dimensions (H x W x D)	53 5/8” x 39 1/4” x 31 1/4” (1,362 mm x 997 mm x 792 mm)
Weight	Approximately 463 lb (210 kg)

6.7 High Capacity Stacker-F1

Item	Specifications
Paper Size	13” x 19”, 12” x 18”, 11” x 17”, LGL, LTR, LTRR, STMTR, EXEC, EXECR, and Irregular Size (5.5” x 7.2” to 13” x 19.2” (140 mm x 182 mm to 330.2 mm x 487.7 mm))
Paper Weight	13 lb bond to 110 lb cover (50 to 300 g/m^2)
Paper Type	Plain, Offset, Coated, Transparency, Pre-punched, Pre-printed, Tab, Labels, Textured, Die cuts, NCR (No Carbon Required)
Paper Capacity	6,200 sheets maximum (Including the top tray)
Number of Trays	3 trays
Tray Capacity (LTR paper (20 lb bond (80 g/m^2))	Top Tray: 200 sheets (or 0.8” (20 mm) in height) Stack Tray (Internal): 3,000 sheets (or 14” (355 mm) in height) Eject Tray (External): 3,000 sheets (or 14” (355 mm) in height)
Stacking Modes	Straight, Offset
Interface	The optional DFD (Document Finishing Device) connects the High Capacity Stacker-F1 with various third party finishers.
Power Source	120 V AC, 60 Hz, 10 A
Maximum Power Consumption	Off: Less than 0.5W Ready: Less than 15 W In Use: Less than 300 W
Dimensions (H x W x D)	40.9” x 35.4” x 29.3” (49.2”*1) (1,362 mm x 997 mm x 792 mm (1,250 mm*1)) *1 When the eject tray is extended.
Weight	Approximately 264.6 lb (120 kg)

6.8 Paper Folding Unit-F1

Item	Specifications
Paper Size/Weight/Type	Size: Z-Fold: 11” x 17” C-Fold: LTRR Accordion Z-Fold: LTRR Double Parallel Fold: LGL and LTRR Weight: Z-Fold, C-Fold, Accordion Z-Fold: 13 to 28 lb bond (50 to 105 g/m^2) Double Parallel Fold: 13 to 24 lb bond (50 to 90 g/m^2) Type: Thin, Plain, Coated, Offset, Pre-printed, Die cuts, NCR (No Carbon Required)
Power Source/Maximum Power Consumption	From the finisher. 200 W maximum
Dimensions (H x W x D)	46 7/8” x 13 1/4” x 31 1/4” (1,190 mm x 336 mm x 793 mm)
Weight	Approximately 144 lb (65 kg)

6.9 Finisher-AF1

Item	Specifications
Paper Size/Weight/Type	Size: 13” x 19”, 12” x 18”, 12 5/8” x 17 3/4”, 11” x 17”, LGL, LTR, LTRR, EXEC, EXECR, and Irregular Size (7 1/8” x 7 1/8” to 13” x 19 13/64” (182 mm x 182 mm to 330.2 mm x 487.7 mm)) Weight: Plain: 13 lb bond to 110 lb cover (50 to 300 g/m^2) Coated: 24 lb bond to 90 lb cover (80 to 240 g/m^2) Type: Thin, Plain, Heavy, Recycled, Color, Pre-punched, Bond, Transparency, Labels, Tab, Coated, Textured, Vellum, Offset, Pre-printed, Die cuts, NCR (No Carbon Required)

Finisher-AF1 Table Continued

Item	Specifications
Capacity Per Tray	No Collating, Collate, or Group Mode Tray A: If the High Volume Stack Mode is set to 'Off': 13" x 19", 12" x 18", 12 5/8" x 17 3/4", 11" x 17", LGL, LTR, LTRR, EXEC, EXECR: 1,000 sheets (or 5 3/4" (147 mm) in height) If the High Volume Stack Mode is set to 'On': (The maximum stack volume may vary, depending on the paper type.) LTR, LTRR, EXEC: 3,000 sheets (or 16 5/8" (423 mm) in height) 11" x 17", LGL: 1,500 sheets (or 8 1/2" (216 mm) in height) Tray B: LTR, LTRR, EXEC: 2,000 sheets (or 11 1/4" (285 mm) in height) 13" x 19", 12 5/8" x 17 3/4", 12" x 18", 11" x 17", LGL: 1,000 sheets (or 5 3/4" (147 mm) in height) Staple Mode Tray A: 11" x 17", LGL, LTR, LTRR, EXEC: 1,000 sheets/100 sets (or 5 3/4" (147 mm) in height) Tray B: LTR, LTRR, EXEC: 2,000 sheets/100 sets (or 11 1/4" (285 mm) in height) 11" x 17", LGL: 1,000 sheets/100 sets (or 5 3/4" (147 mm) in height) No Collating, Collate, Group, and Staple Modes with Different Paper Sizes: 13" x 19", 12 5/8" x 17 3/4", 12" x 18", 11" x 17", LGL, LTR, LTRR, EXEC, EXECR: 1,000 sheets/100 sets (or 5 3/4" (147 mm) in height) - The Staple mode cannot be used with 13" x 19", 12" x 18", or 12 5/8" x 17 3/4" Z-Fold Mode (When the Optional Paper Folding Unit-F1 Is Attached): Tray A: 20 sheets Tray B: 30 sheets

Finisher-AF1 Table Continued

Item	Specifications
Max. Stapling Capacity/Available Staple Size	When the Standard Staple Cartridge Is Attached: (The maximum stapling capacity may vary, depending on the paper type and weight.) LTR, EXEC: 100 sheets (20 lb bond (80 g/m^2)) or Heavy paper stacked less than 1/2" (11 mm) high 98 sheets (20 lb bond (80 g/m^2)) + 2 sheets (73 lb cover (200 g/m^2)) 11" x 17", LGL, LTRR: 50 sheets (20 lb bond (80 g/m^2)) or Heavy paper stacked less than 1/4" (5.5 mm) high 48 sheets (20 lb bond (80 g/m^2)) + 2 sheets (73 lb cover (200 g/m^2)) Corner Stapling: 11" x 17", LGL, LTR, LTRR, EXEC Double Stapling: 11" x 17", LGL, LTR, LTRR, EXEC
Power Source/Maximum Power Consumption	120 V AC, 60 Hz, 8 A 250 W maximum
Dimensions (H x W x D)	46 1/2" x 31 1/2" (35")*1 x 31 1/4" (1,180 mm x 800 mm (890 mm)*1 x 792 mm) *1 When the extension tray is pulled out.
Weight	Approximately 286 lb (130 kg)

6.10 Saddle Finisher-AF2

Item	Specifications
Paper Size/Weight/Type	Size: 13” x 19”, 12” x 18”, 12 5/8” x 17 3/4”, 11” x 17”, LGL, LTR, LTRR, EXEC, EXECR, and Irregular Size (7 1/8” x 7 1/8” to 13” x 19 13/64” (182 mm x 182 mm to 330.2 mm x 487.7 mm)) Weight: Plain: 13 lb bond to 110 lb cover (50 to 300 g/m^2) Coated: 24 lb bond to 90 lb cover (80 to 240 g/m^2) Type: Thin, Plain, Heavy, Recycled, Color, Pre-punched, Bond, Transparency, Labels, Tab, Coated, Textured, Vellum, Offset, Pre-printed, Die cuts, NCR (No Carbon Required)

Saddle Finisher-AF2 Table Continued

Item	Specifications
Capacity Per Tray	No Collating, Collate, or Group Mode Tray A: If the High Volume Stack Mode is set to 'Off': 13" x 19", 12" x 18", 12 5/8" x 17 3/4", 11" x 17", LGL, LTR, LTRR, EXEC, EXECR: 1,000 sheets (or 5 3/4" (147 mm) in height) If the High Volume Stack Mode is set to 'On': (The maximum stack volume may vary, depending on the paper type.) LTR, LTRR, EXEC: 3,000 sheets (or 16 5/8" (423 mm) in height) 11" x 17", LGL: 1,500 sheets (or 8 1/2" (216 mm) in height) Tray B: LTR, LTRR, EXEC: 2,000 sheets (or 11 1/4" (285 mm) in height) 13" x 19", 12" x 18", 12 5/8" x 17 3/4", 11" x 17", LGL: 1,000 sheets (or 5 3/4" (147 mm) in height) Staple Mode Tray A: 11" x 17", LGL, LTR, LTRR, EXEC: 1,000 sheets/100 sets (or 5 3/4" (147 mm) in height) Tray B: LTR, LTRR, EXEC: 2,000 sheets/100 sets (or 11 1/4" (285 mm) in height) 11" x 17", LGL: 1,000 sheets/100 sets (or 5 3/4" (147 mm) in height) No Collating, Collate, Group, and Staple Modes with Different Paper Sizes: 13" x 19", 12" x 18", 12 5/8" x 17 3/4", 11" x 17", LGL, LTR, LTRR, EXEC, EXECR: 1,000 sheets/100 sets (or 5 3/4" (147 mm) in height) - The Staple mode cannot be used with 13" x 19", 12" x 18", or 12 5/8" x 17 3/4" Z-Fold Mode (When the Optional Paper Folding Unit-F1 Is Attached): Tray A: 20 sheets Tray B: 30 sheets

Saddle Finisher-AF2 Table Continued

Item	Specifications
Max. Stapling Capacity/ Available Staple Size	When the Standard Staple Cartridge Is Attached: (The maximum stapling capacity may vary, depending on the paper type and weight.) LTR, EXEC: 100 sheets (20 lb bond (80 g/m^2)) or Heavy paper stacked less than 1/2" (11 mm) high 98 sheets (20 lb bond (80 g/m^2)) + 2 sheets (73 lb cover (200 g/m^2)) 11" x 17", LGL, LTRR: 50 sheets (20 lb bond (80 g/m^2)) or Heavy paper stacked less than 1/4" (5.5 mm) high 48 sheets (20 lb bond (80 g/m^2)) + 2 sheets (73 lb cover (200 g/m^2)) Corner Stapling: 11" x 17", LGL, LTR, LTRR, EXEC Double Stapling: 11" x 17", LGL, LTR, LTRR, EXEC
Available Saddle Stitch Capacity/Size	Plain Paper: 25 sheets (20 lb bond (80 g/m^2)) Coated Paper: 15 sheets (20 lb bond (80 g/m^2)) Saddle Fold: 5 sheets (20 lb bond (80 g/m^2)) Size: 13" x 19", 12" x 18", 12 5/8" x 17 3/4",11" x 17", LGL, LTRR, and irregular size: 8 1/4" x 11" to 13" x 19 13/64" (210 mm x 279.4 mm to 330.2 mm x 487.7 mm)
Power Source/Maximum Power Consumption	120 V AC, 60 Hz, 8 A 250 W maximum
Dimensions (H x W x D)	46 1/2" x 31 1/2" (41 3/4")[*1] x 31 1/4" (1,180 mm x 800 mm (1,060 mm)[*1] x 792 mm) *1 When the auxiliary booklet tray is pulled out.
Weight	Approximately 396 lb (180 kg)

6.11 Puncher Unit-BQ1

Item	Specifications
Paper Size/Weight/Type	Size: 11” x 17”, LGL, LTR, LTRR, EXEC, EXECR Weight: 13 lb bond to 73 lb cover (50 to 200 g/m^2) Type: Thin, Plain, Heavy, Recycled, Color, Bond, Tab, Coated, Textured, Offset, Pre-printed, Die cuts, NCR (No Carbon Required)
Punch Hole Quantity, Hole Diameter	Two holes: 1/4” (6.5 mm) Three holes: 3/8” (8 mm)
Distance between Punch Holes	Two holes: 2 3/4” (70 mm) Three holes: 4 1/4” (108 mm)
Paper Size in Which Holes Can be Punched	Two holes: LGL and LTRR Three holes: 11” x 17”, EXEC, and LTR
Punch Waste Tray Capacity	When approximately 6,000 sheets of paper (20 lb bond (80 g/m^2)) have been punched.
Power Source	From the finisher.
Weight	Approximately 8.2 lb (3.7 kg) inside the finisher

6.12 Booklet Trimmer-D1

Item	Specifications
Description	Upper knife reciprocating, fore-edge trimmer with delivery tray
Trim Amount	0.08” to 0.78” (2 mm to 20 mm)
Trim Thickness	100 sheets (20 lb bond (80 g/m^2)) 98 sheets (20 lb bond (80 g/m^2)) + 2 sheets (110 lb cover (300 g/m^2))
Delivery Tray Capacity	Conveyor belt - 30 booklets (or 40 sheets of an LTR booklet (20 lb bond (80 g/m^2))
Booklet Waste Tray Capacity	Approximately 1,500 sheets of trimmed strips (LTR (20 lb bond (80 g/m^2), trim width 0.78” (20 mm))
Acceptable Paper Sizes	13” x 19.2”, 12” x 18”, 12 5/8” x 17 3/4”, 11” x 17”, LGL, LTRR
Acceptable Paper Weights	Weight: Plain: 13 lb bond to 110 lb cover (50 to 300 g/m^2) Coated: 24 lb bond to 90 lb cover (80 to 240 g/m^2)
Power Source/Maximum Power Consumption	From the finisher. 300 W maximum
Dimensions (H x W x D)	41” x 62” x 30 3/8” (1,040 mm x 1,575 mm x 770 mm) (including conveyor belt and delivery tray)
Weight	Approximately 335 lb (152 kg)

6.13 Two-Knife Booklet Trimmer-A1

Item	Specifications
Description	Upper knife, reciprocating top-bottom trimmer
Maximum Number of Sheets[*1]	100 sheets (20 lb bond (80 g/m^2)) 98 sheets (20 lb bond (80 g/m^2)) + 2 sheets (110 lb cover (300 g/m^2))
Acceptable Paper Sizes	13” x 19.2”, 12” x 18”, 12 5/8” x 17 3/4”, 11” x 17”, LGL, LTRR
Acceptable Paper Weights	Weight: Plain: 13 lb bond to 110 lb cover (50 to 300 g/m^2) Coated: 24 lb bond to 90 lb cover (80 to 240 g/m^2)
Trimming Width	Top-bottom[*2]: 0.08” to 0.59” (2 mm to 15 mm)
Trim Box Capacity	Approximately 1,500 sheets of trimmed strips (width 0.59” (15 mm), LTRR paper (20 lb bond (80 g/m^2)) (Equivalent to approximately 750 sheets)
Conveyor Capacity[*3]	30 booklets (40 sheets of an LTRR booklet (20 lb bond (80 g/m^2), with the width trimmed 0.79” (20 mm) by the Booklet Trimmer)
Power Source/Maximum Power Consumption	120 to 127 V AC, 50/60 Hz, 4.5 A 440 W maximum
Dimensions (H x W x D)	41” x 21 1/8” x 30 3/8” (1,040 mm x 536 mm x 770 mm) (without conveyor and delivery trays)
Weight	Approximately 319 lb (145 kg) (without conveyor and delivery trays)

*1 If the cover sheet is thinner than the other sheets in the booklet, the cover sheet may not be output as expected. We recommend that a thicker sheet be used for the cover sheet.
*2 Minimum width of booklet in top and bottom directions: 7.48” (190 mm)
*3 The Two-Knife Booklet Trimmer-A1 does not come with a conveyor tray. It can only be used with the optional Booklet Trimmer-D1’s conveyor tray. Therefore, the conveyor capacity is the same as the booklet trimmer’s conveyor tray.

6.14 SDD Square Fold Booklet-Maker with Two-Knife Trimmer

Item	Specifications
Input Accessory	Booklet Trimmer-D1 is required.
Pass Through Width (No Trimming)	Approximately 8.27” (210 mm) to 12.60” (320 mm)
Booklet Trimming	Input Width*1: Approximately 8.27” (210 mm) to 12.60” (320 mm) Output Width: Approximately 7.87” (200 mm) to 12.60” (320 mm) Input/Output Length: Approximately 4.71” (120 mm) to 9.60” (244 mm)
Acceptable Paper Weights	16 lb bond to 110 lb cover (60 to 300 g/m^2)
Trimming Width	Each Side: 0.08” to 1.38” (2 mm to 35 mm) Together: 0.16” to 2.76” (4 mm to 70 mm)
Asymmetrical Trim (Offset Capability)	Approximately ±0.59” (15 mm)
Minimal Booklet Staple Clearance (from Top to Bottom)	Approximately 1.57” (40 mm)
Booklet Sheet Capacity	Up to 25 sheets (100 pages per booklet or 5 mm in height, whichever is less) (20 lb bond (80 g/m^2))
Maximum Productivity	Up to 800 booklets/hour (each booklet up to 100 pages) (20 lb bond (80 g/m^2))
Power Source	120 V AC, 60 Hz, 15 A
Maximum Power Consumption	Approximately 740 W
Dimensions (H x W x D)	51” x 62.3” x 51.1” (1,295 mm x 1,582 mm x 1,298 mm) (with the conveyor tray fully extended)
Weight	Approximately 573 lb (260 kg)

*1 If a booklet’s input height is greater than 12.60” (320 mm), it must be trimmed to 12.60” (320 mm) or fewer inches/millimeters.

6.15 SDD Square Fold Booklet-Maker

Item	Specifications
Input Accessory	Booklet Trimmer-D1 is required.
Booklet Trimming	Input Width*1: Approximately 5.51” (140 mm) to 12.60” (320 mm) Output Width: Approximately 5.51” (140 mm) to 12.60” (320 mm) Input/Output Length: Approximately 4.88” (124 mm) to 9.60” (244 mm)
Acceptable Paper Weights	16 lb bond to 110 lb cover (60 to 300 g/m^2)
Booklet Sheet Capacity	Up to 25 sheets (100 pages per booklet or 5 mm in height, whichever is less) (20 lb bond (80 g/m^2))
Maximum Productivity	Up to 1,800 booklets/hour (each booklet up to 40 pages) (20 lb bond (80 g/m^2))
Power Source	120 V AC, 60 Hz, 15 A
Maximum Power Consumption	Approximately 230 W
Dimensions (H x W x D)	45” x 43.3” x 14.2” (1,140 mm x 1,100 mm x 360 mm) (with the conveyor tray fully extended)
Weight	Approximately 154 lb (70 kg)

*1 If a booklet’s input height is greater than 12.60” (320 mm), it must be trimmed to 12.60” (320 mm) or fewer inches/millimeters.

6.16 PowerLift

Item	Specifications
Maximum Lifting Weight	175 lb (80 kg)
Maximum Fork Height	47” (1,200 mm)
Minimum Fork Height	4” (100 mm)
Available Number of Pallets	5
Power Source	24 V (From two 12 V batteries), 9.0 Ah gas tight and maintenance free
Charger	120 V AC, 60 Hz, 2 A
Charging Time	4 to 5 hours (Discharged batteries)
Dimensions (H x W x D)	60” x 21” x 33” (1,520 mm x 530 mm x 850 mm)
Pallet Dimensions (W x D)	19.7” x 13” (500 mm x 330 mm)
Weight	Approximately 80 lb (36 kg)

7. System Options and Software

The functionality of the Océ VarioPrint 135 can be expanded by installing system related optional software. This section describes the system related optional software and their functions.

7.1 Remote User Interface-C1

The Remote User Interface-C1 license enables users to access the status window of the machine remotely from any computer on the same network. The remote information that is provided includes:

- The current machine status.
- A fixed timeline of up to 30 minutes with a moving bar below it that shows the time left for all print jobs to complete.

7.2 Removable HD Kit-C1

The Removable HD Kit-C1 enables the hard disk of the machine to be removed while the machine is unattended or not in use. This kit provides another layer of data security for government agencies and corporate enterprises who need to ensure that the data stored on the hard disk is physically secured when the machine is no longer in use. The Océ VarioPrint 135 requires PRISMAsync firmware 2.4 to use the Removable HD Kit-C1.

7.3 Océ PRISMAaccess

The Océ PRISMAaccess software enables users to manage print jobs from print submission to finishing, as well as maintain control over print costs via online PDF previews, cost estimation, cost quotation, and budget approval. With Océ PRISMAaccess, users can also link to Océ PRISMAprepare, link to all production printers, and link to a local reprint archive.

7.4 Océ PRISMAprepare

The Océ PRISMAprepare software is for customers who require advanced impositioning features for complex documents, such as manuals with mixed media and tabs and mailings or books with color inserts. Océ PRISMAprepare also provides customers with the following capabilities:

- Document preparation with full preview for production printing.
- Define settings per page for complex print jobs.
- Send print jobs to the printer.
- Send print jobs to the PostScript printers in the network.

7.5 Other Océ VarioPrint 135 Software Optional Licenses

- DocBox-C1
- Color Scan to File/E-Mail-C1
- Multiple Queue-C1
- Streaming-C1
- DP Link-C1
- Accounting-C1
- E-Shredding-C1
- KDK Link-C1
- Microsoft XPS Standard Speed-C1
- Microsoft XPS High Speed-C1
- Chinese Simplified PS3 Fonts-C1
- Chinese Traditional PS3 Fonts-C1
- Japanese PS3 Fonts-C1
- Korean PS3 Fonts-C1

8. Installation Review

This chapter describes the necessary number of technicians required to install the machine properly, the time required to install the main unit and optional equipment, and customer installation responsibilities.

8.1 Installation Time

The time required to install the Océ VarioPrint 135 depends on the options and accessories to be installed, and the number of technicians performing the installation. Customers should discuss the time requirements with their servicing dealer and schedule the installation accordingly.

The table below indicates the estimated length of time needed to unpack and install the machine and optional accessories, and calculated from the average amount of manpower hours. The estimated installation times are based on a minimum of two (2) experienced technicians.

Description	Estimated Time
Main Unit	3 hours
Operator Panel	15 minutes
Operator Attention Light-C1	5 minutes
Duplex Color Image Reader-D1	13 minutes
ePIM-C1	45 minutes
Document Insertion Unit-F1	10 minutes
High Capacity Stacker-E1	12 minutes
Second High Capacity Stacker-E1	15 minutes
High Capacity Stacker-F1	60 minutes
Second High Capacity Stacker-F1	60 minutes
Paper Folding Unit-F1	11 minutes
Finisher-AF1/Saddle Finisher-AF2	12 minutes
Booklet Trimmer-D1	28 minutes
Two-Knife Booklet Trimmer-A1	11 minutes
SDD Square Fold Booklet-Maker & Two-Knife Trimmer	120 minutes
SDD Square Fold Booklet-Maker	120 minutes

8.2 Customer Responsibilities

Item	Comment
Identify location for equipment.	Area meets installation space and service space requirements.
Verify strength of floor and level.	Certified by structural engineers.
Ensure that the equipment can be delivered to the site.	Path is clear and unobstructed.
Confirm proper electrical outlets and power are available.	Dedicated power, and enough outlets for equipment (including accessories).
Area meets environmental specifications.	Temperature and humidity are within specifications, venting provided if necessary.
Network connections available.	If desired.

9. Printer Operation Care

POC (Printer Operation Care) enables an owner of the Océ VarioPrint 135 to perform self-service on the machine.

If an owner wants to perform POC, the VarioPrint 135 Base License V2 with POC should be purchased, along with the VarioPrint DP LINE POC Kit-A1. The VarioPrint DP LINE POC Kit-A1 contains the necessary parts and tools that the owner needs to perform self-service on their machine at the estimated time of replacement (shown in the table below). The customer can contact the servicing dealer to order additional replacement parts.

However, if an owner does not want to perform POC, the customer should purchase the VarioPrint 135 Base License V2 without POC, and a service technician will perform all the necessary work.

The benefits of the POC are maximized uptime, higher monthly print volume, reduced dealer service calls, and optimized machine performance. Consult the servicing dealer for program details.

The VarioPrint DP LINE POC Kit-A1 includes:

Part	Estimated Time of Replacement
Separation feed rollers*1	Approximately every 500,000 prints
Heat exchange foil*2	Approximately every 2,000,000 prints
Spiral cleaner	Approximately every 500,000 prints
Tools	
Gloves	
Socket wrench	

*1 One kit for the main unit, which fits in all four paper drawers.

*2 The estimated time of replacement is reduced when coated media is used. When a paper drawer media type is set to ‘Coated’ media via the Settings Editor, the counter for the heat exchange foils increments by a factor of four (4) for every sheet of coated media used. Plain paper increments the heat exchange foils counter by a factor of one (1) for every sheet of plain paper used.

⚠ WARNING

Certain parts of the Océ VarioPrint 135 emit a strong magnetic field and are a danger to customers with pacemakers. While the machine is being serviced by a service technician, customers with pacemakers are not allowed in the service technician’s work area.

10. Consumables

Consumables are all products and materials that are consumed with regular use and cannot be reused. Such consumables include, but are not limited to, paper, chemicals, and toner. A number of factors go into the approximate life expectancy of a consumable item, including paper size and the amount of coverage per page.

Operate the machine within the following usage conditions to achieve optimal machine performance.

Item	Condition
Operating Temperature	• 62.6°F to 78.8°F (17°C to 26°C) for print speeds greater than 120 ipm. • 62.6°F to 82.4°F (17°C to 28°C) for print speeds up to 120 ipm.
Operating Humidity	20% to 80%
Optimal Performance Range Per Month	200,000 to 350,000[*1]
Image Ratio	6%

*1 Based on 20 lb LTR size paper, and under the above optimal environmental conditions.

10.1 Consumable Parts

Consumable parts are defined as those parts having a limited life that will be reached during a customer's specific machine operation, and then should be replaced as needed. Examples of consumable parts include, but are not limited to feed rollers, cleaning blades, and fixing assembly components.

An estimated consumable parts life can be provided by a service technician to assist in the initial parts/supplies planning. A consumable part's life expectancy is directly related to usage factors, such as paper size, paper quality, environment, usage application, and machine maintenance. Therefore, consumable parts do not have a warranty, and Canon U.S.A., Inc. cannot guarantee a minimum life.

10.1.1 Estimated Life of Consumables

The tables below state the estimated life expectancy yields based on LTR size paper. Using paper larger than LTR reduces the supply yields and parts life accordingly.

NOTE
All consumable supplies shown in the tables below are for reference purposes only, and are subject to change without notice.

Toner

Item	Part Number	Quantity	Estimated Yield (LTR @ 6% Image Ratio) (Copies/Prints)	Remarks
VarioPrint DP-LINE Toner	6117B005AAA	1	96,000	The toner package contains two toner bottles. Each toner bottle yields approximately 48,000 copies/prints at 6% coverage*1.

*1 The actual consumption of toner varies, depending on saturation, coverage of the original, paper type, and job mode.

11. Toner Container and Toner Supply Unit Yields

A toner container holds approximately 1,500 grams of toner, and yields approximately 48,000 impressions at 6% coverage.

The toner supply unit holds approximately 1,500 grams, and yields approximately 48,000 impressions at 6% coverage.

12. Estimated Performance Standards

The EPS (Estimated Performance Standard) is an estimate of the maximum print and scan volumes the machine can achieve in its life span, depending on certain variables:

- If the machine is maintained and serviced by a Canon authorized service technician
- If only Genuine Canon service parts for the accessories and Océ consumable parts are used

The actual performance of the machine may vary, based on customer usage factors, such as the environment in which the machine is installed, the types of jobs performed, and the types of media used.

The following EPS values are for reference purposes only, and are based on the use of LTR size paper.

Item	Estimated Life
Reader Unit	400,000 scans (fixed reading) 2 million scans (stream reading) or 5 years, whichever is earlier (including when the machine is powered ON for a whole day)
Printer	Approximately 100,000,000 sheets (LTR)[*1] or 7 years, whichever is earlier
PRISMAsync Controller	Approximately 7 years

*1 The machine will continue to operate after approximately 100 million sheets; however, performance, copy quality, and maintenance costs cannot be guaranteed.

13. Optimum Monthly Product Performance

The table below describes the differences between the optimum PCV (Print Copy Volume) and maximum PCV. Please note that the numbers in the table are for reference purposes only, and depend strongly on the type of media selected and environmental conditions. For information on the optimal environmental conditions for the machine, see "Environmental Factors and Requirements," on p. 16.

Monthly PCV Type	Description	Number of LTR Prints/Copies
Optimum PCV	This is the print/copy volume range that the equipment was intended to run on a regular basis to maintain a high level of performance and print/copy quality. Running the equipment within this range ensures that no undue stress is placed on components, and it allows time for the proper servicing and maintenance of the equipment.	200,000 to 350,000
Maximum PCV	This is the maximum number of pages the machine can produce within a one-month period. However, sustained use of the machine at this print/copy level will impact the long term performance and durability of the machine. It is recommended to stay within the optimum print/copy volume to reduce a possible increase in servicing and maintenance issues.	2,200,000

IMPORTANT

If the machine consistently runs at or above the upper end of the optimum PCV, consider purchasing additional machines or higher volume machines.

14. Machine Reliability and Productivity

This chapter describes the reliability and productivity of the Océ VarioPrint 135.

14.1 Machine Reliability and Service Call Ratio

The service call ratio varies, depending on the total print volume, installation environment, image ratio, paper size, and paper type.

Usage Factors	**Monthly Print Volume**		200,000			
	Print Volume Over a 5 Year Maintenance Agreement		12,000,000			
	Large/Heavy Paper Ratio	**CMP[*1]**	40%			
		CRD[*2]	0%			
	Toner Coverage		6.0%			
	Media Type		100% Plain Paper			
	Configuration (Main Unit and Accessories)		• Main Unit • PRISMAsync Controller • 1-ePIM-C1 • Saddle Finisher			
Labor	**Work Time[*3]**		60 Minutes			
	Travel Time[*4]		30 Minutes			
Service			**With POC**		**Without POC**	
			CMP[*1]	**CRD[*2]**	**CMP[*1]**	**CRD[*2]**
	Average CBV[*5]		108,200	155,900	77,350	117,150
	Visit Ratio[*6]		1.85	1.28	2.59	1.71

*1 CMP (Commercial Print)
*2 CRD (Central Reproduction Department)
*3 The Work Time (minutes per visits) is the average amount of time a service technician needs to service a machine. This number may vary, depending on the service technician's experience and the service required during each site visit.
*4 The Travel Time (minutes per visits) is the average amount of time a service technician needs to travel from site to site. This number may vary, depending on the local service map.
*5 The Average CBV (Copies Between Visits) is the estimated number of total copies/prints between service visits. The CBV takes into account all service visits throughout the term of the maintenance agreement. The actual CBV may vary, depending on the MCV (Monthly Copy Volume), large paper ratio, and service required.
*6 The Visit Ratio is the estimated number of service visits per month.

14.2 Print Speed

The table below describes the printing speeds one should expect when printing simplex or duplex documents on the indicated paper size and type. This applies to both the main unit and the ePIM-C1.

Mode	Size	Paper Weight		
		Less than 31 lb bond (120 g/m^2)	31 lb bond to 80 lb cover (120-220 g/m^2)	Greater than 80 lb cover (220 g/m^2)
Simplex	LTR	120		60
	LTR-Tab	113		57
	EXEC*1	123		61
	EXECR*1	100		50
	LTRR	96		48
	LGL	74		37
	11” x 17”	63		31
	12” x 18”	59		30
	12.6” x 19.2”	56		28
Duplex	LTR	135	120	60
	LTR-Tab	—	—	—
	EXEC*1	138	123	61
	EXECR*1	75	67	33
	LTRR	75	67	33
	LGL	75	67	33
	11” x 17”	70	63	31
	12” x 18”	67	59	30
	12.6” x 19.2”	63	56	28

*1 EXEC and EXECR are available only for the main unit.

14.3 Mixed Media Productivity

The Océ VarioPrint 135 is capable of processing jobs that contain mixed media; however, the machine’s productivity may be reduced if one or more of the following print conditions occur during a job run:

- Using certain finishing modes, such as punching or folding
- Using a machine that is not fully warmed-up
- Using paper with different sizes
- Using paper with different paper weights
- Using tab paper, which can only be printed in the Simplex mode
- Using EXECR or LTRR, which limits the print speed in the Duplex mode

14.4 Paper and Toner

The operator can maintain productivity by removing, replacing, and refilling the paper and toner while the machine is running.

The paper trays can also be opened and refilled during operation. The tray that is used by the machine during production, however, will be locked. Once the job completes, or the machine switches to another tray, the empty tray unlocks, allowing the operator to prepare for the next job, and add more paper. No productivity is affected, and jobs finish quicker. The drawers will not always run dry when switching.

Similar to the paper, toner may be replaced while a job is printing. Therefore, productivity and image quality are not affected, and jobs finish in the same amount of time.

15. Media Usage/Compatibility

The Océ VarioPrint 135 maintains reliable, predictable, and high-quality output. Consistency of the output is dependent on knowing and compensating for the variables of a print job. The Océ VarioPrint 135 incorporates many control systems which compensate for environmental and print process conditions. Another variable is the print media. Knowing the characteristics of the media facilitates optimal print output.

15.1 Media Characteristics by Media Library Parameters

This section describes the standard media library characteristics and parameters.

The following settings can be manually adjusted through the Settings Editor > Media > Add icon. The Settings Editor can only be accessed via a Web browser using the IP address of the Océ VarioPrint 135.

The IP address of the Océ VarioPrint 135 is found on the machine's operator panel through System > Local key operator settings > Connectivity > TCP/IP address.

The table below describes the Add new media settings and each setting's description.

Setting	Description
Name	Set the name of the media.
Type	Set the brand name of the paper.
Size	Select the size of the paper from the drop-down list, including custom size paper.
Width (0.01 inches)	Specify the width of the custom paper in millimeters or inches.
Length (0.01 inches)	Specify the length of the custom paper in millimeters or inches.
Tab sheet	Select the check box to use tab paper, and then enter the cycle length (how many tabs in one set).
Insert	Select the check box to use the paper as a sheet insertion, and then enter the cycle length (how many sheet insertions in a set).
Oriented	Specify the portrait or landscape orientation of the paper.
Cycle length	Set the value 1 to N. Where "N" is the number of sheets in one cycle. Must specify the cycle length when specifying tab sheets or sheet insertions.
Punch count	Specify how many holes are in the pre-punched paper.
Weight (lb Bond / lb Index)	Specify the weight of the paper in g/m^2 or lb.
Color	Specify the color of the paper. This setting acts as an identifier to display the color of the paper on the operator panel.
RGB Color	Specify the RGB color value (0-255) for identification purposes on the operator panel.
Surface type	Specify the type of paper (e.g., Vellum, Coated, Textured).

15.2 Media Specific Adjustments

The media specific adjustments are for customers who want to precisely adjust the image quality per paper type that is registered in the machine.

The following settings can be manually adjusted through the Settings Editor > Media > select a registered media type > Registration icon. The Settings Editor can only be accessed via a Web browser using the IP address of the Océ VarioPrint 135.

The IP address of the Océ VarioPrint 135 is found on the machine's operator panel through System > Local key operator settings > Connectivity > TCP/IP address.

The table below describes the Edit media registration settings and each setting's description.

Setting	Description
X image shift front (0.01 inches)	Make a fine adjustment to enable printing with the correct alignment of the image from the leading edge of the paper in the feed direction on the front side. (From ±500 mm in 0.1 mm increments)
X image shift back (0.01 inches)	Make a fine adjustment to enable printing with the correct alignment of the image from the leading edge of the paper in the feed direction on the back side. (From ±500 mm in 0.1 mm increments)
Z image shift front (0.01 inches)	Make a fine adjustment to enable printing with the correct alignment of the image from the side edge of the paper perpendicular to the feed direction on the front side. (From ±500 mm in 0.1 mm increments)
Z image shift back (0.01 inches)	Make a fine adjustment to enable printing with the correct alignment of the image from the side edge of the paper perpendicular to the feed direction on the back side. (From ±500 mm in 0.1 mm increments)
X offset (0.01 inches)	Make a fine adjustment to the margin of the image from the leading edge of the paper in the feed direction. (From ±25 mm in 0.1 mm increments)
Z offset (0.01 inches)	Make a fine adjustment to the margin of the image from the side edge of the paper perpendicular to the feed direction. (From ±25 mm in 0.1 mm increments)
X elongation front (0.1 ‰)	Make a fine adjustment to the image size from the feed direction on the front side. (From ±250% in 0.01% increments)
X elongation back (0.1 ‰)	Make a fine adjustment to the image size from the feed direction on the back side. (From ±250% in 0.01% increments)
S adjust (0.01 inches)	Make a fine adjustment to the image to straighten out a skewed image. (From ±25 mm in 0.1 mm increments)
Trapezoid (0.01 inches)	Make a fine adjustment to the image to straighten out a trapezoidal image. (From ±25 mm in 0.1 mm increments)
Diamond shape adjust (0.01 inches)	Make a fine adjustment to the image to straighten out a diamond-shaped image. (From ±25 mm in 0.1 mm increments)

15.3 Advanced Media Settings

The Advanced media settings are for customers who want to use advanced print settings to avoid certain print quality issues.

The following settings can be adjusted from the operator panel through System > Setup > Advanced media settings.

The table below describes the Advanced media settings and each setting's description.

Setting	Description
Pre-printed mode	Select if preprinted media is being used without following the recommended guidelines for preprinted media. This mode reduces the print speed to 60 ipm.
Wax mode[*2]	Select if wax paper[*1] is being used, or if there are print quality issues, such as spotting, lines, or smearing on any paper type. After printing in the Wax mode is complete, select the Wax mode to disable it.[*3]
Paper quality	Specify the Paper quality mode to improve the print quality if low-quality paper is being used to avoid leaving uneven, dark areas on the prints.

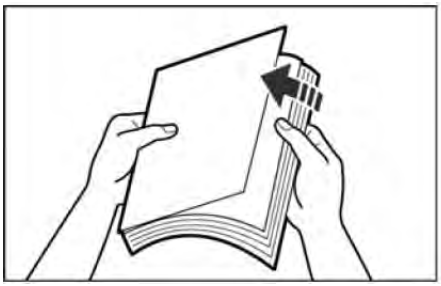
*1 Wax paper is a type of paper that is made moisture-proof through the application of wax.

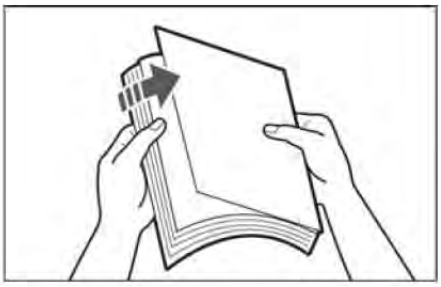
*2 The machine has two Wax modes ('1' and '2'). Each Wax mode safely preheats the system to prevent the deposition of wax. Select Wax mode '1' when there are print quality issues with wax paper or any paper type. Select Wax mode '2' if Wax mode '1' does not resolve the print quality issues. Wax mode '2' requires a higher start-up temperature, which increases the start-up time of the machine, and requires more time for the decomposition of the wax. After printing in the Wax mode is complete, the system is cleaned automatically, and the machine remains in the Standby mode so that the remaining wax can be decomposed.

*3 The more the Wax mode is used, the longer the machine needs to decompose the wax. To get optimal performance results using the Wax mode, do not print more than 50,000 sheets of wax paper. However, if more printing is needed, let the machine remain in the Standby mode to decompose the wax, or perform print jobs that do not require wax paper. After using wax paper, do not power OFF the machine or put the machine into the Sleep mode. Leave the machine in the Standby mode to allow it to clean the wax components. After a maximum of 2 hours in the Standby mode, the machine switches to the Sleep mode automatically. If 2 hours is not enough time to decompose all of the wax, the machine remains in the Standby mode after the next job, until all of the wax is cleaned.

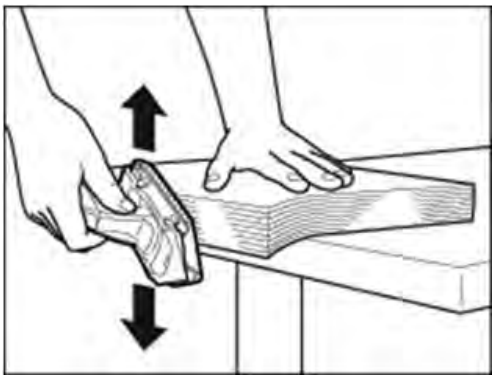
15.4 Paper Handling and Storage

- The permissible humidity range for paper storage is 20% to 80% (with a room temperature of 62.6°F to 82.4°F (17°C to 28°C)). Storing paper in a location that does not meet these specifications may affect paper feeding and image quality.
- Only use paper that has fully acclimatized to the environment in which the machine is installed. Using paper that has been stored in a different environment (with a different temperature and humidity), may cause paper jams or result in poor print quality.
- We recommend using paper immediately after opening the package. Rewrap any remaining paper in its original package, and store it on a flat surface.
- Before loading paper, make sure to fan the sheets thoroughly so that air runs through the sheets, as shown in the diagrams below.





- When you cut paper, the cutting sides of the paper must be made smooth. Use an abrasive to make the four cutting sides smooth. Otherwise, streaks may appear on the image, paper feeding may be affected, part life may be reduced, or service calls may increase. Make sure to put the paper on a flat table to use the abrasive, and move the abrasive perpendicular to the paper approximately three times.



15.5 Selecting the Correct Media

A media guide is available that provides detailed information on the recommended media, such as acceptable paper, paper specifications, and acceptable storage and print conditions. For more information, contact your servicing dealer.


IMPORTANT

If non-recommended ink or drying powder, not suitable for digital printing, were used to create the preprinted media, damage to important parts of the printing system may occur, or the digital printing performance can seriously deteriorate. This can result in increased downtime and additional service costs. To ensure optimal performance on preprinted media, review the preprinted media guidelines available from your servicing dealer.

15.6 Note for Customers Who Cut Their Own Paper

Customers who cut their own paper may experience:

- An increase of paper dust in the machine
- Paper jams due to paper dust getting into areas of the machine where it is not meant to be
- Improper paper feeding
- Paper registration inaccuracies

Follow the precautions below to minimize the above issues:

- Have a process in place to regularly make sure that the cutting blades are sharpened, and that cuts are made as clean as possible.
- Place the paper with the factory mill cut sides facing to the right (leading edge), and to the front of the machine when feeding paper. The best results for consistency and front-to-back registration are obtained by using factory mill cut, digital compatible paper.

15.7 Paper Sizes and Feed Location Chart

The table below represents the available paper sizes and feed locations. The ePIM-C1 and Document Insertion Unit-F1 are optional.

✓: Available —: Unavailable

Paper Size	Width x Length	Paper Source		
		Paper Decks of the Main Unit	ePIM-C1	Document Insertion Unit-F1
12” x 19.2”	12” x 19.2”	✓	✓	✓
12” x 18”	12” x 18”	✓	✓	✓
11” x 17”	11” x 17”	✓	✓	✓
LGL	8 1/2” x 14”	✓	✓	✓
LTRR	11” x 8 1/2”	✓	✓	✓
EXECR	EXECR	✓	—	✓
EXEC	7 1/4” x 10 1/2”	✓	—	✓
LTR-Tab	8 1/2” x 11”	✓	✓	✓
LTR	8 1/2” x 11”	✓	✓	✓
Irregular Size	5.5” x 7.2” to 12.6” x 19.2” (140 mm x 182 mm to 320 mm x 488 mm)	✓	—	—
Irregular Size	8.0” x 8.0” to 12.6” x 19.2” (203 mm x 203 mm to 320 mm x 488 mm)	—	✓	—
Irregular Size	7.2” x 7.2” to 13” x 19.2” (182 mm x 182 mm to 330.2 mm x 488 mm)	—	—	✓

16. Responsibility Matrix

Please discuss this Responsibility Matrix with your customer and check off who owns each action in the table below.

	Responsibility	
Action	**Customer**	**Dealer**
Ensure adequate space and power to properly install machine.		
Verify floor strength and level.		
Ensure that the equipment can be delivered to the site, and that the path is clear and unobstructed.		
Unpack all delivered items.		
Install all system hardware.		
Connect all system components.		
Install printer files and PRISMAsync controller.		
Ensure network configuration, and confirm that the device is attached to the network.		
Install client workstation network software.		
Load additional fonts (as required).		
Order and replace, as necessary, customer replaceable items (i.e., toner, etc.).		
Provide technical support.		
Provide on-site support.		
Establish an installation file of a typical job, and retain for future reference.		

Primary customer applications for using this equipment:

_____

_____

_____

Special considerations or performance limitations:

_____

_____

_____

I have received a copy of this document.

_____

Customer: _____

Sales Person: _____