

RICOH



D237 Service Training

Met-C1k

Version 1.0

This course explains the new addition to the Met-C1 series. This new model is a successor to the Di-C1L and Di-C1LL.

The course explains differences from the Met-C1yz, and compares the specifications with those of the Di-C1L.



- ❑ You can install a simple ADF. It is the same as the K-C4 and Met-C1yz.

RICOH**D237
Service Training****Product Overview**

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This section provides an overview of the machine, and the options that can be installed.

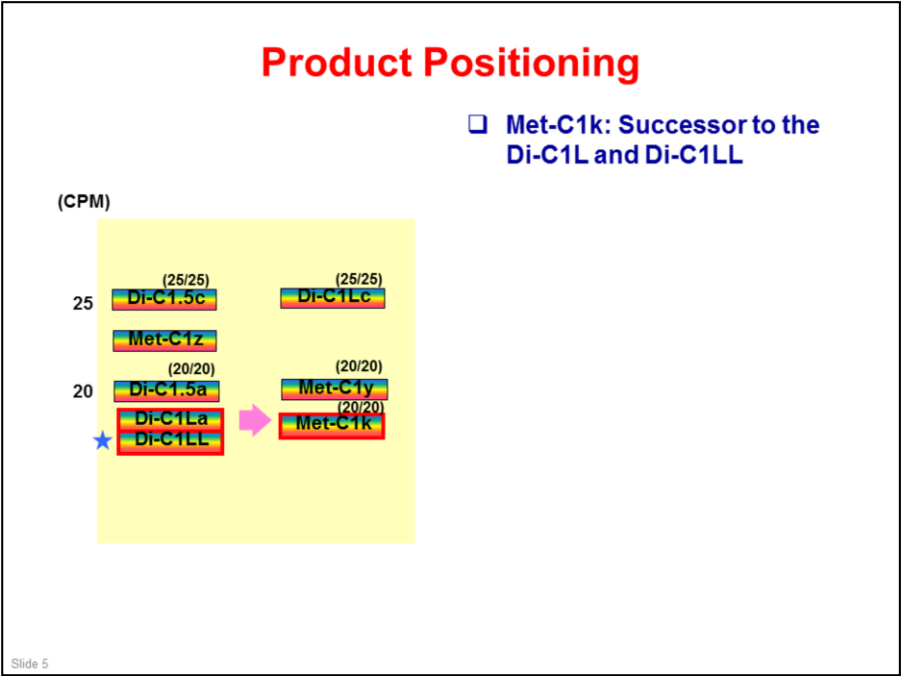
What Models are Available?

□ Met-C1k (D237) – only one model

- ♦ 20 cpm (b/w, color)
- ♦ ARDF is standard for RE, but an option for other regions
- ♦ Smart Operation Panel is not included, and is not available as an option
- ♦ There are no fax options, and very few controller options.

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No additional notes



No additional notes

Comparing Specifications
Met-C1k - 1

	Di-C1La	Met-C1k
Size (WxDxH, mm)	587 x 655 x 725 , w/o ADF	587 x 677 x 760, w/o ADF
Weight (kg)	85	81
Print/Copy Speed (B/W, ppm)	20	20
Print/Copy Speed (FC, ppm)	20	20
1 st Copy Time (B/W, seconds)	6.5	5.5
1 st Copy Time (FC, seconds)	9.5	7.7
Warm-up Time (seconds)	30	19
Recovery from Sleep Mode (Full System, seconds)	30	5.6
Print resolution, dpi	600 dpi, 2bit/1bit	1200 x 1200, 2-bit
Scan Resolution, dpi	600 dpi	600 dpi
Copy Resolution, dpi	600 dpi	600 dpi
Max Output Size (Trays)	297 x 420 mm, 11" x 17"	320 x 457 mm, 12.6" x 18"
Max Output Size (Bypass)	305 x 600 mm, 12" x 18"	320 x 600 mm, 12.6" x 18"

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No additional notes

Comparing Specifications
Met-C1k - 2

	Di-C1La	Met-C1k
Paper Weight (Trays, gsm)	60 - 256	60 - 300
Paper Weight (Bypass, gsm)	60 - 256	52 - 300
Paper Weight (Duplex, gsm)	60 - 105	52 - 169
Paper Feed Capacity (Standard)	250 x 2 + 100 = 600	550 x 2 + 100 = 1200
Paper Feed Capacity (Maximum)	250 x 2 + 500 x 2 + 100 = 1600	550 x 4 + 100 = 2300
Hard Disk (GB)	60	250
Memory (GB)	0.512	1.5 (Max 2.0)
Scanning Speed (B/W,)	41 lpm (200 dpi)	55 lpm (200 dpi, 300 dpi)
Scanning Speed (FC)	26 lpm (200 dpi)	54 lpm (200 dpi, 300 dpi)
TEC Value (kWh)	N/A	0.78
Max Power Consumption (kW)	US: 1.44 EU: 1.68	US: 1.584 EU: 1.7

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- ❑ Memory: To upgrade the memory to 2 GB, the 1.5 GB memory is removed and a 2 GB option is installed.

Differences from Other Models in the Series

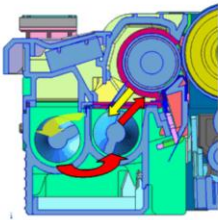
	Met-C1y/z/k	Met-C1a/b	Met-C1c/d/e
Laser diode unit	LD 1 beam	LD 1 beam	LD 4 beams
Air flow	7 fans	8 fans	11 fans
Double feed detection	No	No	Only Met-C1e
Bypass: Side fence contact sensor mechanism	No	No	Only Met-C1e
Paper tray	- Locked tray (At/Ap-C3) - No pick up solenoid - No Paper Feed sensor (Main frame only)	Tray pull-in mechanism	Tray pull-in mechanism
IPU	No SPDF option, so the issues with the IPU do not apply	IPU is not compatible with SPDF	IPU is compatible with SPDF, but an additional board (IPU sub board) is mounted on SPDF models, and must be installed when an optional SPDF is installed.
HVP-CB (high voltage supply board)	Correction SP value must be input when this board is replaced	No SP value	No SP value

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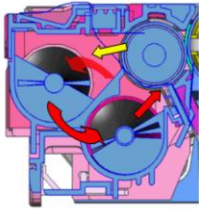
No additional notes

Differences from Other Models in the Series

	Met-C1y/z/k	Met-C1a/b	Met-C1c/d/e
PCU	<ul style="list-style-type: none">-DC charge roller (Contact type)- No lubricant bar- 3-layer drum- Discharge lamp is in the mainframe- Correction SP value must be input when PCU is replaced	<ul style="list-style-type: none">-AC charge roller (No contact type)- Lubricant bar- 4-layer drum- No discharge lamp	<ul style="list-style-type: none">- AC charge roller (No contact type)- Lubricant bar- 4-layer drum- No discharge lamp
Development unit	Two mixing augers, two-way circulation (see diagram below)	Two mixing augers, one way circulation (see diagram below)	



Met-C1yzk



Met-C1abcde

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No additional notes

Yield of Consumables

- ☐ Same as Met-C1yz

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No additional notes

Targets

☐ Same as Met-C1y

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No additional notes

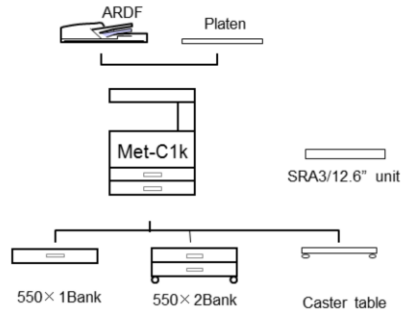
Reliability Information

- ☐ Same as Met-C1y

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No additional notes

Optional Hardware Peripherals



- ☐ Only these options are available.
- ☐ For RE, the ARDF is standard, so the platen cover is not an option.

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- ☐ There is no optional SPDF.
- ☐ There are no large capacity trays.
- ☐ There are no optional internal or external finishers, side tray, 1-bin tray, or shift tray.
- ☐ There is no Smart Operation Panel.
- ☐ There is no EFI controller.

Options: Original Feed

		Met-C1k	Met-C1yz	Note
D779: ARDF DF3090		Yes	Yes	Not available for RE because the ARDF is
Yes	Yes	built-in		D700: Flare Cover H14200
Yes	Yes			D593: ADF Handle Type C

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No additional notes

Options: Paper Feed

	Met-C1k	Met-C1yz	Note
D787: Paper Feed Unit PB3210 (PB3220 in some regions)	Yes	Yes	2 trays
D694: Paper Feed Unit PB3150	Yes	Yes	1 tray; only one of these can be installed
D178: Caster Table Type M3	Yes	Yes	Requires PB3150

- ☐ The D787 paper feed unit is similar to the Met-C1abcde, but has the following differences.
- ♦ No pick-up solenoid
 - ♦ There is no pull-in mechanism, but there is a tray lock mechanism

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No additional notes

Options: Finishing

		Met-C1k	Met-C1yz	Note
D609: Internal Finisher SR3130		No	Yes	500-sheet
D716: Punch Unit PU3040		No	Yes	
D691: Internal Shift Tray SH3070		No	Yes	
D692: 1 Bin Tray BN3110		No	Yes	
D725: Side Tray Type M3		No	Yes	
D766: Internal Finisher SR3180		No	Yes	New type of stapling mechanism, without metal staples 250-sheet No punch unit

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No additional notes

Options: Controller

		Met-C1k	Met-C1yz	Note
D165: Postscript3 Unit Type M3		Yes	Yes	
D165: Camera Direct Print Card Type M3		No		
D165: Browser Unit Type M9		No		Requires Memory Unit Type M3 2GB
D165: SD card for NetWare printing Type M3		No		
D165: IPDS Unit Type M3		No		

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No additional notes

Options: Controller

		Met-C1k	Met-C1yz	Note
D164: IEEE 802.11a/g/n Interface Unit Type M2		Yes	Yes	
D164: Memory Unit Type M3 2GB		No		Remove existing 1.5 GB memory and install this 2GB memory
D166: OCR Unit Type M2		No		
D739: Smart Card Reader Built-in Unit Type M2		No		Install in left USB port only
B679: IEEE 1284 Interface Board Type A		No		
D566: Bluetooth Interface Unit Type D		No		
D377: File Format Converter Type E		Yes		
D640: Copy Data Security Unit Type G		Yes		
D641: SD Card for Fonts Type D		No		
B869: Unicode Font Package for SAP®		Yes		
D377: Data Overwrite Security Unit Type H		No		For CC certification

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No additional notes

Options: Fax

		Met-C1k	Met-C1yz	Note
D163: Fax Option Type M3		No	Yes	
D163: G3 Interface Unit Type M3				
D165: Fax Connection Type M3				
G578: Memory Unit Type B 32MB				
D739: Handset HS3020				
H903: Marker Type 30				

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No additional notes

Options: Other

		Met-C1k	Met-C1yz	Note
D739: Imageable Area Extension Unit Type M3		Yes	Yes	This is a longer paper transfer roller; it allows the machine to print on SRA3/12.6 inch paper
B870: Optional Counter Interface Unit Type A		Yes		
D739: Key Counter Bracket Type M3		Yes		
D593: Card Reader Bracket Type 3352		No		
D148: Smart Operation Panel Type M3		No		A new type of operation panel.
D739: External Keyboard Bracket Type M3		Yes		

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No additional notes

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D237
Service Training

**Installation, Maintenance, Detailed Section
Descriptions**

All the same as Met-C1yz

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No additional notes



The End