

QL-300

Color Electrophotographic Label Printer Specifications

Operation	
Print Technology	Electrophotographic, Toner
Ink Type	Toner, (4 or 5) individual CMYK or W cartridges
Print Resolution	1,200 x 1,200 dpi / 600 x 600 dpi
Label size	Width: Minimum construction width 1" (in continuous mode). Maximum total construction 5.125" Length: Minimum label length is 0.5". Maximum length is 52.0"
Print Speed	6 ips (152 mm/sec), 4 ips (102 mm/sec) or 2.3 ips (58 mm/sec)
Print Position Accuracy	±1 mm
Media Sensors	Gap, Reflective (black mark, bottom), Continuous
Cutter	Automatic, 4.0" (102 mm) minimum cut length
Control Panel	Display: Color LCD 480 x 272 pixel Keypad: Power, Online, Cancel, Help, Power Save, Menu (Up, Down, OK, Back), Numeric Keypad, Feed, Unload LED Indicators: Power, Online, Help, Power Save, Attention
Connectivity	High-Speed USB 2.0; Gigabit Ethernet
Software	Microsoft Windows® 11, 10, 8.1; Windows Server® 2019, 2016, 2012; PCL and PostScript 64/32-bit Drivers CQL Pro advanced label creation and print management software (one free license included)
Barcodes	All major barcodes supported, including 2D Datamatrix and QR Code
Printing Supplies	
Toner Cartridges	QuickLabel QL-300 CMYKW toner cartridges, with integral image drum
Additional Supplies	Transfer Belt, Transfer Roller, Waste Toner Box, Fuser
Transfer Belt / Fuser Life	Approximately 150,000 A6 labels
Waste Toner Box Life	Approximately 25,000 A6 labels
Toner / Image Drum Life (CMYK)	Approximately 9,000 A6 labels, based on 20% coverage
Toner / Image Drum Life (W)	Approximately 4,500 A6 labels, based on 20% coverage
Media Dimensions	
Thickness	3.0 - 9.8 mil (0.076 mm - 0.25 mm)
Roll Size	8.0" OD (203 mm), 3" ID (76 mm) core
Types	QuickLabel Approved Paper, Synthetic label and tag stock
Environmental & Physical	
Optimal Color Consistency while Printing	63° F to 81° F (17° C to 26° C) 50% to 70% Relative Humidity (non-condensing)
Printer/Toner Operating	50° F to 86° F (10° C to 30° C), 20% to 70% Relative Humidity (non-condensing)
Printer/Toner Storage	14° F to 109° F (-10° C to 43° C), 10% to 90% Relative Humidity (non-condensing)
Noise Level	Approximately 80dB while printing, 51dB while idle (ISO7779)
Power Requirements	110 – 127 VAC 60Hz 220 – 240 VAC 50Hz
Power Consumption	Operating: 710W (average) Peak: .200W Idle, Powered On: 27W Power Save: 25W
Dimensions	40.9" L x 18.8" W x 17.4" H (1040 mm x 477 mm x 441 mm)
Weight	136 lbs. (62 Kg) with supplies. 183 lbs. (83 Kg) shipping, two cartons on pallet
Compliance Standards	Safety - CE(CB) EN 55032:2015; EN 61000-6-1:2007; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013; EN 62311:2008; EN 50581:2012 EMC: FCC 47CFR Part 15 Subpart B; CAN ICES-3(A)/NMB-3(A) Chemical Safety: TSCA, OSHA HCS, EU directive Others: RoHS, REACH, WEEE, EU Battery, EU Packaging Waste
Optional Accessories	RW-300 Automatic Label Roll Rewinder, MR-300 Inline
Warranties	
One-Year Manufacturer's Parts & Labor Warranty on Printer (excludes printing supplies) 2 years from date of production on unused/unopened Toner Cartridges, 6 months if opened or installed	
What's Included	
QuickLabel Systems QL-300 printer, AC power cord, USB Cable, QL-300 CMYKW toner cartridges, Installation Guide CQL Pro® advanced label creation and print management software Manufacturer-Direct Sales, Warranty and Service Unlimited Telephone, Web and E-mail Technical Support Optional Remote and On-Site Setup & Training, Extended Warranty, Support and QuickSwap™ programs available	



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Media Construction Requirements

Note on Printer Operation with White

PCL Driver: Allows placement of white toner under all elements of the artwork (all or none)

PostScript Driver: Allows placement of white toner under individual, specific elements of the artwork

1- Gap Labels: Refer to image 1

Driver Media Form: Die Cut Label (Gap)

Gap Labels (Gap label will have a non printed area of 2.12mm or 0.083" around the label)		
Total Construction Width (a)	1.125" - 5.125" (28.6 mm - 130 mm)	
Label Width	1.00" - 4.96" (25.4 mm - 126 mm)	
Label Length	PCL Driver: 0.5" - 52.0" (12.7 mm - 1320.8 mm)	PostScript Driver: 1.0" - 52.0" (25.4 mm - 1320.8 mm)
Print Area	PCL Driver: Max Print Width: 4.8" (122 mm) Print Length: 0.33" - 51.83" (8.5 mm - 1316.6 mm)	PostScript Driver: Max Print Width: 4.8" (122 mm) Print Length: 0.83" - 51.83" (21.0 mm - 1316.6 mm)
Edge Trim (b)	0.0625" - 0.079" (1.6 mm - 2 mm)	
Gap Length (c)	0.12" - 0.394" (3 mm - 10 mm)	
Margins	0.083" (2.12 mm) Non printed area around the label	
Note:	Materials #253, #254, #255, #2562, #260 require reflective mark/cue bar	

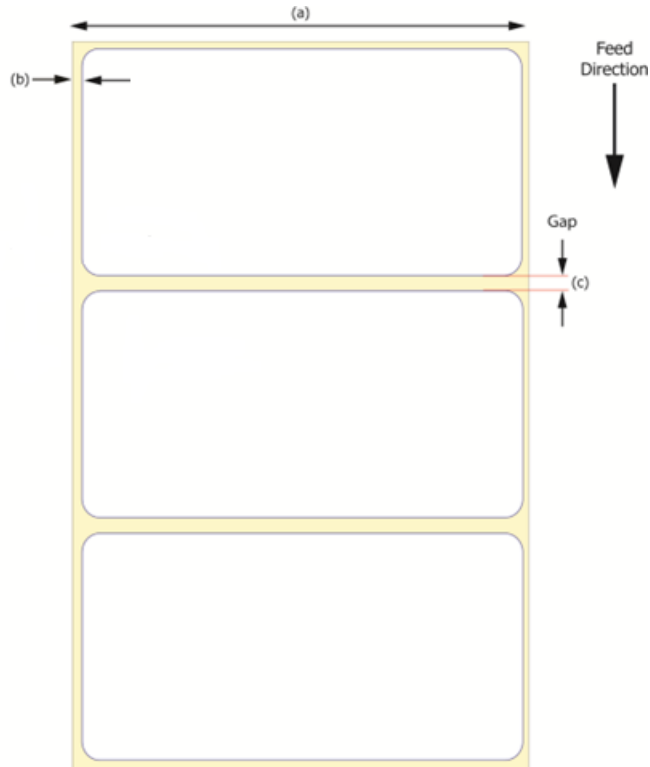


Image 1, Gap Label

- 2- Matrix In with reflective mark (required for full-bleed printing). Refer to Image 2
Driver Media Form: Continuous Paper (Black Mark)

Total Construction Width (a)	1.125" - 5.125" (28.6 mm - 130 mm)	
Label Width	0.5" - 4.75" (12.7 mm - 120.65 mm)	
Label Length	PCL Driver: 0.251" - 51.75" (6.3mm - 1314.45 mm)	PostScript Driver: 0.576" - 51.57" (14.6 mm - 1314 mm)
Black Mark Repeat (top to top)	PCL 0.626" (16 mm) Minimum	PostScript Driver: 1.126" (28.6mm) Minimum
Print Area	PCL Driver: Maximum Print Width: 4.75" (120.65 mm) Print Length: 0.251" - 51.75" (6.3mm - 1314.45 mm)	PostScript Driver: Maximum Print Width: 4.75" (120.65 mm) Print Length: 0.576" - 51.576" (14.6 mm - 1310 mm)
Label to Label Distance (c)	PCL Driver: 0.375" (9.5 mm) Minimum for full bleed in the print direction (Vertical)	PostScript Driver: 0.55" (13.84 mm) Minimum for full bleed in the print direction (Vertical). Note: A Gap of 0.375" (9.5 mm) will result in non printed area in the print direction
Edge Trim (b)	0.0625" - 0.079" (1.6 mm - 2 mm)	
Horizontal Bleed Zone (f)	0.125" - 0.25" (3.18 mm - 6.35 mm) <i>Note: for paper material, 0.25" is required for matrix removal</i>	
Reflective Mark Width (e)	0.59" - 5.125" (15 mm - 130 mm) From either side	
Reflective Mark Length (d)	0.12" - 0.125" (3 mm - 3.175mm)	

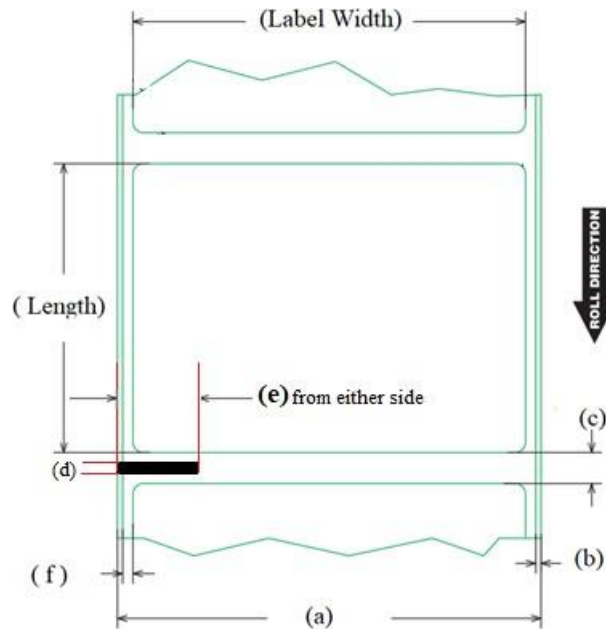


Image 2, Reflective/ BlackMark Label

- 3- **Matrix In with Notch (required for full-bleed printing) Refer to Image 3.**
 Driver Media Form: Die Cut Label (Gap)

Total Construction Width (a)	1.125" - 5.125" (28.6 mm - 130 mm)	
Label Width	0.5" - 4.75" (12.7 mm - 120.65 mm)	
Label Length	PCL Driver: 0.251" - 51.75" (6.3mm - 1314.45 mm)	PostScript Driver: 0.625" - 52.126" (15.87mm - 1324.0 mm)
Label to Label Distance (c)	PCL driver: 0.375" (9.5 mm) Minimum for full bleed in the print direction (Vertical)	PostScript driver: 0.375" (9.5 mm) Minimum for full bleed in the print direction (Vertical)
Print Area	PCL Driver: Maximum Print Width: 4.75" (120.65 mm) Print Length: 0.251" - 51.75" (6.3mm - 1314.45 mm)	PostScript Driver: Maximum Print Width: 4.75" (120.65 mm) Print Length: 0.576" - 51.576" (14.6 mm - 1310 mm)
Edge Trim (b)	0.0625" - 0.079" (1.6 mm - 2 mm)	
Horizontal Bleed Zone (f)	0.125" - 0.25" (3.18 mm - 6.35 mm) <i>Note: for paper material, 0.25" is required for matrix removal</i>	
Notch Width (e)	0.4" (10 mm) Minimum	
Notch Length (d)	0.12"-0.125" (3 mm- 3.175 mm)	
Note	Please note that clear labels do not work with notch	

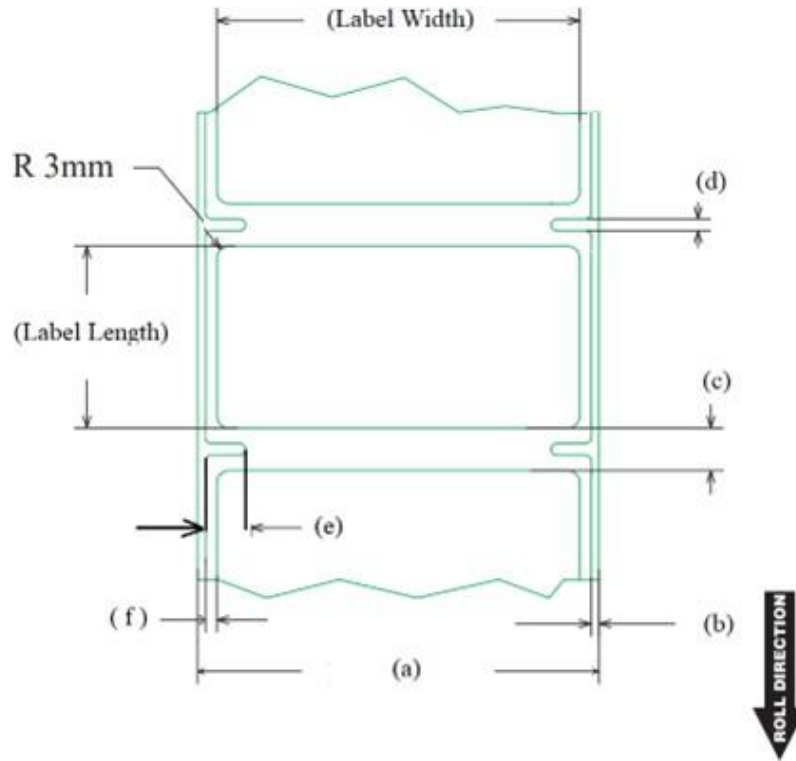


Image 3, Notch Label

4- Reflective Label (Matrix out): Refer to the image 4
 Driver Media Form: Continuous Paper (Black Mark)

Total Construction Width (a)	1.125" - 5.125" (28.6 mm - 130 mm)	
Label Width	1.00" - 4.96" (25.4 mm - 126 mm)	
Label Length <i>Note: shorter lengths can be supported with matrix-in construction</i>	PCL Driver: 0.5" - 51.8" (12.7 mm - 1299.9 mm)	PostScript Driver: 1.0" - 52.0" (25.4 mm - 1320.8 mm)
Print Area	PCL Driver: Width: 0.83" - 4.8" (21.2 mm - 121.9 mm) Length: 0.33" - 52.0" (8.4 mm - 1320.8 mm)	PostScript Driver: Width: 0.83" - 4.8" (21.2 mm - 121.9 mm) Length: 0.83" - 52.0" (21.2 mm - 1320.8 mm)
Edge Trim (b)	0.0625" - 0.079" (1.6 mm - 2 mm)	
Margins	Label artwork should be kept 0.12" (3.0 mm) away from the label edges to prevent toner deposit on the liner	
Gap Length (c)	0.125" - 0.4" (3.175 mm - 10 mm) Gap length is flexible but cannot be increased to allow label length less than 0.5"	
Reflective Mark Width (e)	0.59" - 5.125" (15 mm - 130 mm) from either side	
Reflective Mark Length (d)	0.12" - 0.125" (3 mm - 3.175 mm)	

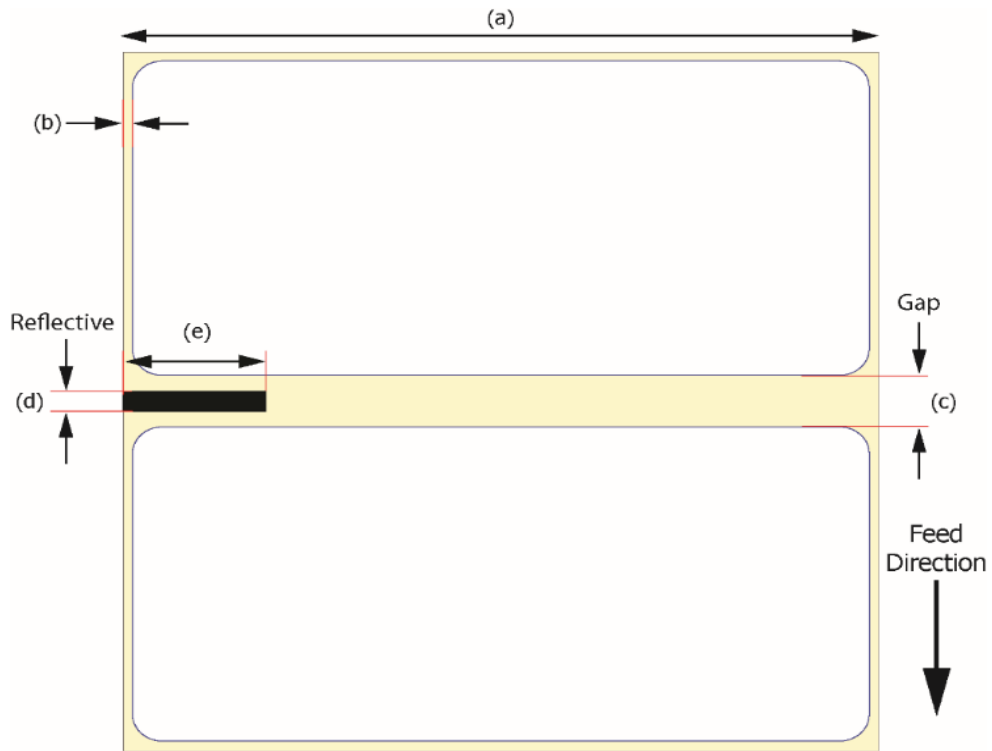


Image 4

5- Continuous Labels and Additional Guidelines: Refer to image 4 above.

Driver Media Form: Continuous Paper

Continuous Label/Tag			
Total Construction Width (a)	1.0" - 5.125" (25.4 mm - 130 mm)		
Edge Trim (b)	0.0625" - 0.079" (1.6 mm - 2 mm)		
Note:	Continuous stock without edge trim can be supported when using the LF-100 finishing system		
Print Area	<table border="0"> <tr> <td>PCL Driver: Width: 0.83" - 4.95" (21.2 mm – 125.73 mm) Length: 0.5" – 52.0" (12.7 mm – 1320.8 mm)</td> <td>PostScript Driver: Width: 0.83" - 4.95" (21.2 mm – 125.73 mm) Length: 0.83" - 51.83" (21.2 mm - 1316.6 mm)</td> </tr> </table>	PCL Driver: Width: 0.83" - 4.95" (21.2 mm – 125.73 mm) Length: 0.5" – 52.0" (12.7 mm – 1320.8 mm)	PostScript Driver: Width: 0.83" - 4.95" (21.2 mm – 125.73 mm) Length: 0.83" - 51.83" (21.2 mm - 1316.6 mm)
PCL Driver: Width: 0.83" - 4.95" (21.2 mm – 125.73 mm) Length: 0.5" – 52.0" (12.7 mm – 1320.8 mm)	PostScript Driver: Width: 0.83" - 4.95" (21.2 mm – 125.73 mm) Length: 0.83" - 51.83" (21.2 mm - 1316.6 mm)		
Additional Guidelines			
Perforations	Perforations on label or gap are supported		
Notched Media	Notch through label and liner is not supported, while a notch on the label (facestock only) is supported.		
Z-Fold	Z-fold media is not permitted		
Splices	No material, liner or core splices permitted		
Clear Liner	Is not supported as it can cause paper jams		
Card Stock	Is supported with black mark (driver media form used is continuous paper black mark)		



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