



# Specifications and Supplies

**HL-EX470W**

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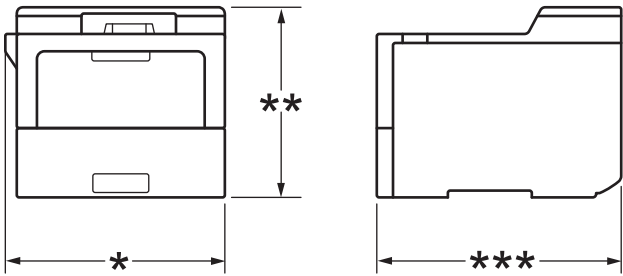
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## Specifications

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### General Specifications

<b>Printer Type</b>		<ul style="list-style-type: none"> <li>• Laser</li> </ul>
<b>Print Method</b>		<ul style="list-style-type: none"> <li>• Electrophotographic Laser Printer</li> </ul>
<b>Memory Capacity</b>	<b>Standard</b>	<ul style="list-style-type: none"> <li>• 1 GB</li> </ul>
<b>Machine display</b>		<ul style="list-style-type: none"> <li>• Liquid Crystal Display (LCD) 3.5 in. (87.6 mm) TFT Color touchscreen LCD <sup>1</sup></li> <li>• Touchscreen 2.85 x 2.70 in. (72.5 x 68.7 mm)</li> </ul>
<b>Power Source</b>		<ul style="list-style-type: none"> <li>• 110 V to 120 V AC 50/60 Hz</li> </ul>
<b>Power Consumption</b> (Average)	<b>Peak</b>	<ul style="list-style-type: none"> <li>• Approximately 1,050 W</li> </ul>
	<b>Printing</b> <sup>2</sup>	<ul style="list-style-type: none"> <li>• Approximately 790 W at 77°F (25°C)</li> </ul>
	<b>Printing (Quiet Mode)</b> <sup>2</sup>	<ul style="list-style-type: none"> <li>• Approximately 430 W at 77°F (25°C)</li> </ul>
	<b>Ready</b> <sup>2</sup>	<ul style="list-style-type: none"> <li>• Approximately 90 W at 77°F (25°C)</li> </ul>
	<b>Sleep</b> <sup>2</sup>	<ul style="list-style-type: none"> <li>• Approximately 18.4 W</li> </ul>
	<b>Deep Sleep</b> <sup>2</sup>	<ul style="list-style-type: none"> <li>• Approximately 1 W</li> </ul>
<b>Power Off</b> <sup>3 4</sup>		<ul style="list-style-type: none"> <li>• Approximately 0.02 W</li> </ul>
<b>Dimensions</b> (Typical outline view) 		Unit: in. (mm) <ul style="list-style-type: none"> <li>• * : 17.4 (442)</li> <li>• ** : 15.9 (403)</li> <li>• *** : 21.3 (541)</li> </ul>
<b>Weights (with supplies)</b>		<ul style="list-style-type: none"> <li>• 64.6 lb (29.3 Kg)</li> </ul>

<b>Noise Level</b>	<b>Sound Pressure</b>	<b>Printing</b>	<ul style="list-style-type: none"> <li>• <b>1-sided printing</b> LpAm = 55 dB (A)</li> <li>• <b>2-sided printing</b> LpAm = 56.5 dB (A)</li> </ul>	
		<b>Printing (Quiet Mode)</b>	<ul style="list-style-type: none"> <li>• <b>1-sided printing</b> LpAm = 52 dB (A)</li> <li>• <b>2-sided printing</b> LpAm = 53 dB (A)</li> </ul>	
		<b>Ready</b>	<ul style="list-style-type: none"> <li>• LpAm = 17.2 dB(A)<sup>5</sup></li> </ul>	
	<b>Sound Power</b>	<b>Printing</b> <sup>6</sup>	<b>Monochrome</b>	<ul style="list-style-type: none"> <li>• LWAd = 6.87 B (A)</li> </ul>
			<b>Color</b>	<ul style="list-style-type: none"> <li>• LWAd = 6.88 B (A)</li> </ul>
		<b>Printing (Quiet Mode)</b>	<b>Monochrome</b>	<ul style="list-style-type: none"> <li>• <b>1-sided printing</b> LWAd = 6.37 B (A)</li> <li>• <b>2-sided printing</b> LWAd = 6.68 B (A)</li> </ul>
			<b>Color</b>	<ul style="list-style-type: none"> <li>• <b>1-sided printing</b> LWAd = 6.37 B (A)</li> <li>• <b>2-sided printing</b> LWAd = 6.68 B (A)</li> </ul>
	<b>Ready</b>	<ul style="list-style-type: none"> <li>• LWAd = 3.02B (A)</li> </ul>		
<b>Temperature</b>	<b>Operating</b>		<ul style="list-style-type: none"> <li>• From 50°F to 90°F (10°C to 32°C)</li> </ul>	
	<b>Storage</b>		<ul style="list-style-type: none"> <li>• From 32°F to 104°F (0°C to 40°C)</li> </ul>	
<b>Humidity</b>	<b>Operating</b>		<ul style="list-style-type: none"> <li>• 20% to 80% (without condensation)</li> </ul>	
	<b>Storage</b>		<ul style="list-style-type: none"> <li>• 10% to 90% (without condensation)</li> </ul>	

1 Measured diagonally.

2 Measured when the machine is connected to the USB interface.

3 Measured according to IEC 62301 Edition 2.0.

4 Power consumption varies slightly depending on the usage environment.

5 If the fan motor is on: LpAm = 17.2 dB(A)

6 Measured in accordance with ISO 7779.

## Print Media Specifications

<b>Paper Input</b>	<b>Paper Tray (Standard)</b>	<b>Paper Type</b>	<ul style="list-style-type: none"> <li>• Plain Paper, Letterhead, Colored Paper, Thin Paper, Recycled Paper, Thick Paper, Thicker Paper</li> </ul>
		<b>Paper Size</b>	<ul style="list-style-type: none"> <li>• A4, Letter, B5 (JIS), B5 (ISO), A5, A5 (Long Edge), B6 (JIS), A6, Executive, Legal, Mexico Legal, India Legal, Folio, 16K (195x270 mm), A4 Short (270mm Paper)</li> </ul>
		<b>Paper Weight</b>	<ul style="list-style-type: none"> <li>• 16 to 61 lb (60 to 230 g/m<sup>2</sup>)</li> </ul>
		<b>Maximum Paper Capacity</b>	<ul style="list-style-type: none"> <li>• Up to 520 sheets of 20 lb (80 g/m<sup>2</sup>) Plain Paper</li> </ul>
	<b>Multi-purpose tray (MP tray)</b>	<b>Paper Type</b>	<ul style="list-style-type: none"> <li>• Plain Paper, Letterhead, Colored Paper, Thin Paper, Thick Paper, Thicker Paper, Recycled Paper, Bond, Label, Envelope, Env. Thin, Env.Thick, Glossy Paper</li> </ul>

<b>Paper Input</b>	<b>Multi-purpose tray (MP tray)</b>	<b>Paper Size</b>	<ul style="list-style-type: none"> <li>Width: 3 to 8.5 in. (76.2 to 215.9 mm)</li> <li>Length: 5 to 14 in. (127 to 355.6 mm)</li> <li>Envelope: COM-10, DL, C5, Monarch</li> </ul>
		<b>Paper Weight</b>	<ul style="list-style-type: none"> <li>16 to 61 lb (60 to 230 g/m<sup>2</sup>)</li> </ul>
		<b>Maximum Paper Capacity</b>	<ul style="list-style-type: none"> <li>Up to 100 Sheets of 20 lb (80 g/m<sup>2</sup>) Plain Paper</li> <li>Envelope: 15 envelopes</li> </ul>
	<b>Paper Tray 2, 3, 4 (Optional)</b> <sup>1</sup>	<b>Paper Type</b>	<ul style="list-style-type: none"> <li>Plain Paper, Letterhead, Colored Paper, Thin Paper, Recycled Paper</li> </ul>
		<b>Paper Size</b>	<ul style="list-style-type: none"> <li>A4, Letter, B5 (JIS), A5, Executive, Legal, Mexico Legal, India Legal, Folio, 16K (195x270 mm), A4 Short (270mm Paper)</li> </ul>
		<b>Paper Weight</b>	<ul style="list-style-type: none"> <li>16 to 28 lb (60 to 105 g/m<sup>2</sup>)</li> </ul>
		<b>Maximum Paper Capacity</b>	<ul style="list-style-type: none"> <li>LT-330CL Up to 250 sheets of 20 lb (80 g/m<sup>2</sup>) Plain Paper</li> <li>LT-340CL Up to 500 sheets of 20 lb (80 g/m<sup>2</sup>) Plain Paper</li> </ul>
	<b>Paper Output</b> <sup>2</sup>	<b>Face Down Output Tray</b>	
<b>Face Up Output Tray</b>		<ul style="list-style-type: none"> <li>One sheet (face up delivery to the face up output tray)</li> </ul>	
<b>Mailbox (Optional)</b>		<ul style="list-style-type: none"> <li>100 sheets x 4 bins of 20 lb (80 g/m<sup>2</sup>)</li> <li>400 sheets x 2 bins of 20 lb (80 g/m<sup>2</sup>)</li> </ul>	
<b>2-sided</b>	<b>Automatic 2-sided Printing</b>	<b>Paper Type</b>	<ul style="list-style-type: none"> <li>Plain Paper, Letterhead, Colored Paper, Thin Paper, Thick Paper, Thicker Paper, Recycled Paper, Glossy Paper</li> </ul>
		<b>Paper Size</b>	Select the paper size you want to use by sliding the 2-sided lever: <ul style="list-style-type: none"> <li>A4, A4 Short (270mm Paper)</li> <li>Letter, Legal, Mexico Legal, India Legal, Folio</li> </ul>
		<b>Paper Weight</b>	<ul style="list-style-type: none"> <li>16 to 61 lb (60 to 230 g/m<sup>2</sup>)</li> </ul>

<sup>1</sup> Maximum number of Lower Trays: Up to three LT-330CL Lower Trays, or two LT-340CL, or a combination of one LT-330CL and one LT-340CL.

<sup>2</sup> For labels, we recommend removing the printed sheets from the output paper tray immediately after they exit the machine to avoid the possibility of smudging.

## Printer Specifications

<b>Automatic 2-sided Print</b>		<ul style="list-style-type: none"> <li>Yes</li> </ul>
<b>Emulation</b>		<ul style="list-style-type: none"> <li>PCL5e, PCL5c, PCL6 (PCL XL Class3.0), BR-Script3, PDF Version 1.7, XPS Version 1.0</li> </ul>
<b>Resolution</b>		<ul style="list-style-type: none"> <li>600 x 600 dpi, 2,400 dpi class (2400 x 600) quality</li> </ul>
<b>Print Speed</b> <sup>1 2</sup>	<b>1-sided Print</b> <sup>3</sup>	<b>Monochrome</b>
		<b>Color</b>
		<ul style="list-style-type: none"> <li>Up to 42 pages/minute (Letter size)</li> <li>Up to 40 pages/minute (A4 size)</li> </ul>
		<ul style="list-style-type: none"> <li>Up to 42 pages/minute (Letter size)</li> </ul>

<b>Print Speed</b> <sup>1 2</sup>	<b>1-sided Print</b> <sup>3</sup>	Up to 40 pages/minute (A4 size)
	<b>2-sided Print</b>	<p><b>Monochrome</b></p> <ul style="list-style-type: none"> <li>Up to 42 sides/minute (Up to 21 sheets/minute) (Letter size)</li> <li>Up to 40 sides/minute (Up to 20 sheets/minute) (A4 size)</li> </ul> <p><b>Color</b></p> <ul style="list-style-type: none"> <li>Up to 42 sides/minute (Up to 21 sheets/minute) (Letter size)</li> <li>Up to 40 sides/minute (Up to 20 sheets/minute) (A4 size)</li> </ul>
<b>First Print Time</b> <sup>4 5 6 7</sup>	<b>Monochrome</b>	<ul style="list-style-type: none"> <li>Less than 10 seconds at 73.4°F (23°C) / 115 V</li> </ul>
	<b>Color</b>	<ul style="list-style-type: none"> <li>Less than 10 seconds at 73.4°F (23°C) / 115 V</li> </ul>

- The print speed may change depending on the type of document you print.
- The print speed may be slower when the machine is connected by wireless LAN.
- Measured in accordance with ISO/IEC 24734.
- Printing from Ready mode and standard tray.
- Length of time from when the machine is started until paper output is complete (except when the machine is turned on or when an error is fixed).
- May vary when calibration or registration is in progress.
- This applies when printing on A4- or Letter-size paper from the standard tray. It could be longer however, depending on the paper size and the amount of print data.

## Interface Specifications

<b>USB</b> <sup>1 2</sup>	<ul style="list-style-type: none"> <li>Hi-Speed USB 2.0</li> <li>Use a USB 2.0 interface cable that is no more than 6 feet (2 meters) long.</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>10Base-T/100Base-TX/1000Base-T <sup>3</sup></li> </ul>
<b>Wireless LAN</b>	<ul style="list-style-type: none"> <li>IEEE 802.11a/b/g/n (Infrastructure Mode)</li> <li>IEEE 802.11a/g/n (Wi-Fi Direct®)</li> </ul>
<b>NFC</b> <sup>4</sup>	<ul style="list-style-type: none"> <li>Yes</li> </ul>

- Your machine has a USB 2.0 Hi-Speed interface. The machine can also be connected to a computer that has a USB 1.1 interface.
- Third-party USB hub devices are not supported.
- Use a Category 5e (or greater) network cable.
- When you connect an external IC card reader, use a HID class driver supported device.

## Direct Print Feature Specifications

<b>Compatibility</b>	<ul style="list-style-type: none"> <li>PDF version 1.7, JPEG, Exif+JPEG, PRN (created by the machine's own printer driver), TIFF (scanned by Brother models), XPS version 1.0</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>USB direct interface : Front x 1, Rear x 1</li> </ul>

## Supported Protocols and Security Features

### Ethernet

10Base-T/100Base-TX/1000Base-T

### Wireless LAN (5 GHz)

IEEE 802.11a/n (Infrastructure Mode), IEEE 802.11a/n (Wi-Fi Direct)

### Wireless LAN (2.4 GHz)

IEEE 802.11b/g/n (Infrastructure Mode), IEEE 802.11g/n (Wi-Fi Direct)

## Protocols (IPv4)

ARP, RARP, BOOTP, DHCP, APIPA (Auto IP), WINS/NetBIOS name resolution, DNS Resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, IPP/IPPS, FTP Server, TELNET Server, HTTP/HTTPS server, TFTP client and server, SMTP Client, SNMPv1/v2c/v3, ICMP, Web Services (Print), CIFS client, SNTP client, LDAP

## Protocols (IPv6)

NDP, RA, DNS resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, IPP/IPPS, FTP Server, TELNET Server, HTTP/HTTPS server, TFTP client and server, SMTP Client, SNMPv1/v2c/v3, ICMPv6, Web Services (Print), CIFS Client, SNTP Client, LDAP

## Network Security (Wired)

SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP), SNMP v3, 802.1x (EAP-MD5, EAP-FAST, PEAP, EAP-TLS, EAP-TTLS), Kerberos, IPsec

## Network Security (Wireless)

SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP), SNMP v3, 802.1x (EAP-FAST, PEAP, EAP-TLS, EAP-TTLS), Kerberos, IPsec

## Wireless Network Security

WEP 64/128 bit, WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES) (Wi-Fi Direct supports WPA2-PSK (AES) only)

## Wireless Certification

Wi-Fi Certification Mark License (WPA™/WPA2™ - Enterprise, Personal), Wi-Fi Protected Setup™ (WPS) Identifier Mark License, Wi-Fi CERTIFIED™ Wi-Fi Direct

## Computer Requirements Specifications

Supported Operating Systems And Software Functions

Computer Platform & Operating System Version		Computer Interface				Processor	Hard Disk Space to Install	
		Parallel (IEEE1284)	USB <sup>1</sup>	10Base-T/100Base-TX/1000Base-T (Ethernet)	Wireless 802.11a/b/g/n		For Drivers	For Applications (including Drivers)
Windows Operating System	Windows 7 SP1 / 8.1 <sup>1 2</sup>	N/A	Printing		32 bit (x86) or 64 bit (x64) processor	50 MB	1.6 GB	
	Windows 10 Home / 10 Pro / 10 Education / 10 Enterprise <sup>1</sup>							
	Windows Server 2008 SP2 <sup>2</sup>	N/A	Printing		64 bit (x64) processor	50 MB		
	Windows Server 2008 R2 <sup>2</sup>							
	Windows Server 2012							
	Windows Server 2012 R2							
	Windows Server 2016							

	Windows Server 2019				
Mac Operating System <sup>3</sup>	macOS v10.14.x	Printing	64 bit (x64) processor	N/A	500 MB
	macOS v10.15.x				
	macOS v11				

<sup>1</sup> Third-party USB ports are not supported.

<sup>2</sup> Windows 7 / Server 2008 / Server 2008 R2 supported by Extended Security Updates until Jan 10, 2023.

<sup>3</sup> macOS Disclaimer. AirPrint capable: Printing via Mac requires using AirPrint. Mac printer driver is not provided.

For the latest driver updates, go to your model's **Downloads** page at [support.brother.com](https://support.brother.com).

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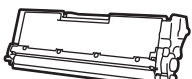
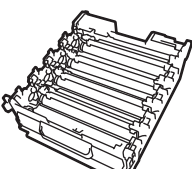
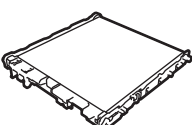


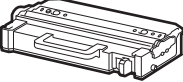
## Supplies

When the time comes to replace supplies, such as the toner cartridge or drum unit, an error message will appear on your machine's control panel or in the Status Monitor. For more information about the supplies for your machine, visit [www.brother.com/original](http://www.brother.com/original) or contact your local Brother dealer.



The Supply Order Number (No.) will vary depending on your country and region.

Supply Items	Supply Order No.	Approximate Life (Page Yield)	Applicable Models
<b>Toner Cartridge</b> 	Standard Toner: TN810	<ul style="list-style-type: none"> <li>Black: Approximately 9,000 pages<sup>1 2</sup></li> <li>Cyan / Magenta / Yellow: Approximately 6,500 pages<sup>1 2</sup></li> </ul>	HL-EX470W
	High Yield Toner: TN810XL	<ul style="list-style-type: none"> <li>Black: Approximately 12,000 pages<sup>1 2</sup></li> <li>Cyan / Magenta / Yellow: Approximately 9,000 pages<sup>1 2</sup></li> </ul>	HL-EX470W
	Super High Yield Toner: TNE80	<ul style="list-style-type: none"> <li>Black: Approximately 15,000 pages<sup>1 2</sup></li> <li>Cyan / Magenta / Yellow: Approximately 12,000 pages<sup>1 2</sup></li> </ul>	HL-EX470W
	Starter Toner: (Supplied with your machine)	<ul style="list-style-type: none"> <li>Black: Approximately 15,000 pages<sup>1 2</sup></li> <li>Cyan / Magenta / Yellow: Approximately 12,000 pages<sup>1 2</sup></li> </ul>	HL-EX470W
<b>Drum Unit</b> 	<ul style="list-style-type: none"> <li>DR810CL</li> </ul>	<ul style="list-style-type: none"> <li>Approximately 100,000 pages<sup>3</sup></li> </ul>	HL-EX470W
<b>Belt Unit</b> 	<ul style="list-style-type: none"> <li>BU800CL</li> </ul>	<ul style="list-style-type: none"> <li>Approximately 150,000 pages<sup>4</sup></li> </ul>	HL-EX470W

Supply Items	Supply Order No.	Approximate Life (Page Yield)	Applicable Models
<b>Waste Toner Box</b> 	<ul style="list-style-type: none"> <li>WT800CL</li> </ul>	<ul style="list-style-type: none"> <li>Approximately 100,000 pages<sup>2 5 6</sup></li> </ul>	HL-EX470W

1 The approximate cartridge yield is declared in accordance with ISO/IEC 19798.

2 Letter or A4 size single-sided pages

3 Approximately 100,000 pages based on three pages per job (A4/Letter single-sided pages). The number of pages may be affected by a variety of factors including but not limited to media type and media size.

4 Approximately 150,000 pages based on two pages per job (A4/Letter single-sided pages). The number of pages may be affected due to a variety of factors including but not limited to media type and media size.

5 Approximate waste toner box yield is declared in accordance with ISO/IEC 19798.

6 The number of pages may be affected due to a variety of factors including but not limited to media type and media size.

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USA/CAN  
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