

User Information in accordance with DE-UZ 219 “Blue Angel” for Brother HL-L6410DN and HL-L6415DN



www.blauer-engel.de/uz219

General Information

Increasing resource efficiency, avoiding pollution and waste, climate protection and reducing energy consumption are important environmental objectives.

The eco-label Blue Angel for office equipment with print function can be awarded to devices characterized by the following environmental characteristics:

- Durable and recyclable construction;
- Prevention and reduction of materials which are harmful to the environment and to health;
- Low energy consumption;
- Low emissions of noise and pollutants;

Compliance with the legal regulations of German and European law is presupposed for the products marked with the eco-label.

More information about the Blue Angel can be found at <https://www.blauer-engel.de>.

Information in English is available at <https://www.blauer-engel.de/en>

Design for Device

This device is designed for use in a business environment.

Availability of Service Parts

During a period of seven years after the last date we place models on the market, both the repair service and the spare parts supply (i.e. the parts which are essential for the device functions) of this device are ensured.

Please contact your dealer or our technical support.

Maintenance of the Machine

Maintenance work, which can be carried out by the user, is described in the user manual of the device.

Any special maintenance work may only be carried out by trained personnel.

General Information on Emissions

All the requirements of the environmental label Blue Angel are fulfilled with the consumables recommended for your device by Brother (The toner names can be found on the device and in the manual).

When using consumables from other manufacturers, Brother cannot make any statement regarding the emission behaviour of the device.

New electronic equipment, mainly during the first days after initial operation, releases volatile substances into the room air. So sufficient air exchange in the installation rooms or directly at the workplace should be ensured.

Recycle Paper

This machine can use recycled paper which is produced in accordance with European standard EN 12281.

Double-Sided (Duplex) Printing

The machine incorporates an auto duplex unit for double sided printing. For further details please refer to the **Online User's Guide**.

N-Up Printing

When printing or copying multiple pages of a document, N pages (for example, 2 or 4 pages) can be printed on one side of the paper. This can save paper and toner. For further details please refer to the **Online User's Guide**.

Batteries

This machine does not contain Batteries.

Post-Consumer Plastic

The device contains a recycled content of approx. 5-10 % by weight of its plastic parts.

Product Takeback

Waste equipment with the eco-label and the associated consumables are taken back by Brother and reused or recycled. You can find the address of our Recycling Center at <https://www.brother.eu/en/recycling>.

Waste equipment from private use can be handed over free of charge to municipal waste disposal companies. The registration number at the Stiftung Elektro-Altgeräteregister (EAR) of Brother International GmbH is DE 71090241.

Toner and Drum Takeback Schemes

Consumables can be returned to Brother for free at the end of their life. For details about this process, please visit <https://www.brother.eu/en/recycling> and the corresponding state flag.

Toner Cartridge Handling

Do not forcibly open the toner cartridge. If toner spillage is caused by incorrect handling, skin contact and swallowing of the toner should be avoided. If toner gets into the eye, you should immediately rinse your eyes with water and see a doctor. If toner gets on hands or clothing, wash immediately with soap or detergent.

Toner cartridges must not get into the hands of children.

Acoustic Noise Emissions

Guaranteed noise level L_{WAc}

	Sound Power (L_{WAc})	Print Speed
Monochrome printing	70.7 dB(A)	50 ipm

Information of Power Management

Power consumption

How much power a device consumes depends on its properties as well as on the way in which it is used. The device is designed and adjusted so that you can save energy. After the last print, it switches to the Ready state. From this mode, it can immediately print again. If no further printouts are required, the device turns to the next energy saving state after a certain time, the so-called activation time. In this mode, it needs less power (watts).


The device will take some more time to print again from an electric power saving mode than from the mode "Ready". This delay is called return time which is quite long for some devices. The device, however, fulfils the strict Blue Angel requirements for the return time (<https://www.blauer-engel.de>). It only takes four seconds, for example, to return from Deep Sleep mode to Ready mode for printing. This is only a short moment for you but it will help you to save electricity and hence operating costs if the device is pausing (hence, during no-load operation).

The device is designed in such a way that switching it on and off up to twice a day to the plug-in off mode will not cause damage.

You find the single values of power consumption as well as of activation and return times in the table below. The values stated there are pre-set when the device is delivered. The device meets the Blue Angel requirements with these values.

Summary of the Operating Modes (Firmware Version earlier than 1.14)

Print speed based on ISO/IEC 24734 Monochrome printing: 50 ipm

Switch/ button symbol	Operating state	Power consumption* (Watt)		
	Maximum power consumption during switch-on	1272		
	Printing (continuous operation, 50 ipm). Monochrome	710	Activation time** in minutes	
	Ready	30	0	Recovery time*** in seconds
	Deep Sleep Auto Off mode ¹	0.6 0.1	1 (0-50) 121 (60-480) ****	4 12
	Power plug connected and device switched off	0.1	Switch activated or 121 minutes	12

* Average values, measured without accessories.

These values also apply if the device is connected to a wired data network.

** The activation time is the time which elapses after the end of the printing process until the device switches to the mode. The numbers in brackets indicate the range in which you can set the activation time.

*** Recovery time is the amount of time it takes to return to Ready mode.

**** The activation time may be longer. It depends upon the machine environment.


¹ With the Auto off function, the unit is turned off 1, 2 (default), 4, or 8 hours after entering Deep Sleep mode. When set to OFF, the unit remains in Deep sleep mode and is not switched off.

(Only the machine with Fax function) The machine will not power off automatically when the machine is connected to a fax line.

Summary of the Operating Modes (Firmware Version 1.14 and later)

Print speed based on ISO/IEC 24734

Monochrome printing: 50 ipm

Switch/ button symbol	Operating state	Power consumption* (Watt)		
	Maximum power consumption during switch-on	1272		
	Printing (continuous operation, 50 ipm). Monochrome	710	Activation time** in minutes	
	Ready	30	0	Recovery time*** in seconds
	Deep Sleep Auto Off mode ¹	0.6 0.1	1 (0-50) 20 (20-480) ****	4 12
	Power plug connected and device switched off	0.1	Switch activated or 20 minutes	12

- * Average values, measured without accessories.
These values also apply if the device is connected to a wired data network.
- ** The activation time is the time which elapses after the end of the printing process until the device switches to the mode. The numbers in brackets indicate the range in which you can set the activation time.
- *** Recovery time is the amount of time it takes to return to Ready mode.
- **** The activation time may be longer. It depends upon the machine environment.
- 1 With the Auto off function, the unit is turned off 20 minutes (default), 1, 2, 4, or 8 hours after entering Deep Sleep mode. When set to OFF, the unit remains in Deep sleep mode and is not switched off.
(Only the machine with Fax function) The machine will not power off automatically when the machine is connected to a fax line.

Energy Consumption

The standard usage cycle according to ENERGY STAR® version 3.0 assumes as: 32 print jobs with 39 pages each per working day, simplex at monochrome printing, i.e. 1248 pages/day. This results in an electric power consumption of 0.62 kWh/week (7-day week with 5 working days with 8 hours each) in standard usage cycle according to ENERGY STAR® version 3.0. The value was measured with the above mentioned settings (delivery status). Regarding the electric power saving modes you can partly change their activation times. If you shorten an activation time, the device will faster switch over to an electric power saving mode and you will save electricity costs. If you, however, want to extend an activation time, please consider: the device will then switch down later or not at all. Thus, it will stay longer in a mode of increased power consumption and, hence, consume more electric power. Then, in addition, it might no longer meet the maximum value for electric power consumption of the Blue Angel. We recommend not extending the activation times. The machine will always use some power whilst connected to the AC outlet. For zero power consumption the machine should be unplugged from the AC outlet.