

# User Information in accordance with RAL-UZ 122 “Blue Angel” for Brother HL-2240D



## General information

There is growing interest in the environmental impact of products. To enable consumers to make informed choices, labels such as “Blue Angel” can assist. The label can only be applied to environmentally sound products and services. It is only awarded after a rigorous certification process by the RAL Institute in Germany.

For further information about “Blue Angel” please refer to the webpage  
<http://www.blauer-engel.de>

## Equipment Setup

The machine should be placed on a suitable level surface and not in direct sunlight. For other installation conditions please refer to the User’s Guide.

## Assured repairs

Brother warrants that spares for this product will be available for five years from the end of production. Please contact your Brother Dealer for details.

## Consumables life

Please refer to the User’s Guide for this information.

## Maintenance

Any maintenance or service work required may only be carried out by trained personnel.

## Batteries

This machine does not contain batteries.

## Product emissions

The award of the “Blue Angel” mark only applies when Brother toner is used. Original Brother toner fulfills the requirements for the “Blue Angel” mark. Ensure that during use (and particularly the first few days after installation) the machine is used in a well ventilated area.

## Recycled paper

The machine can use recycled paper which is produced in accordance with European standard EN 12281:2002 or DIN 19309.

## Double-sided (duplex) printing

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

## Product Takeback

At the end of the product life it must be recycled in accordance with local regulations. It can be returned to a Municipal Collection Facility or to a retailer when a replacement is purchased. Where applicable this facility may be offered by your Brother dealer. Please refer to the webpage <http://www.brother.eu/recycle> and click on your country flag.

## Toner and Drum Takeback schemes

Brother will accept toners and drums for recycling free of charge from users in accordance with local regulations. For details of the return scheme please refer to the webpage <http://www.brother.eu/recycle> and click on your country flag.

## Toner cartridge handling

When handling a toner cartridge it must not be forced open. You should avoid toner coming into contact with the skin or being inhaled. If toner does come into contact with the skin or clothes then wash it off immediately using soap and cold water. Toner cartridges should be kept away from children.

## Acoustic noise emissions

Guaranteed noise level  $L_{WAd}$

Mono printing: **66.5 dB(A)**

Machines with a  $L_{WAd} > 63.0$  dB(A) are not suitable for use in rooms where predominantly intellectual work is carried out. These devices should be set up in separate rooms due to their noise emissions.

## Toner cartridges

The toner cartridges that come supplied with the printer are starter toners. A starter toner can print approximately 700 pages\*.

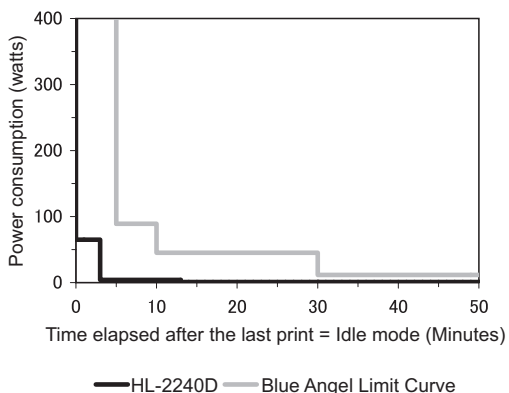
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\*A4 / Letter size single-sided pages. Approx. cartridge yield is declared in accordance with ISO/IEC 19752.

# Power consumption and activation times

## Energy consumption

Power consumption and default times of HL-2240D during time elapsed after the last print



The amount of electricity a machine consumes depends as much on its properties as it does on the way you use it. The machine is designed to allow you to reduce electricity costs by switching to “Ready” after the last print page. If required it can immediately print again from this mode. If no additional prints are required, and after a certain time period, the machine switches to energy saving modes. This time is the **Activation time**.


In these modes the machine consumes less power (watts). If the machine is to print again it needs a little longer to return from an energy-saving mode than from the Ready mode. This delay is called the **Recovery time**. The machine, however, meets the stringent Blue Angel requirements for recovery time and needs only 7.5 seconds to return from “Power Saving mode” to “Ready” mode.

The table overleaf shows the individual values of power consumption, recovery times as well as preset default times. With these values the machine meets the Blue Angel requirements. For maximum energy savings we advise the default values should be used.

## Summary of the operating modes HL-2240D

Printing speed for DIN A4 sized pages:

mono printing : 24 pages/minute

Switch/ button symbol	Operating state	Power consumption * (Watt)		
	Maximum power consumption during switch-on	1056		
	Printing (continuous operation, 24 ppm) Black & white	495	Activation time ** in minutes	
	Ready	65	0.0	Recovery time *** in seconds
	Powersaving mode 1	4.1	3 (0-210)	7.3
	Powersaving mode 2	0.9	****13 (10-220)	7.5
	Power plug connected and machine switched off	0.01	Switch activated	23.1
	Switched off	0.0	Power plug removed	23.1

\* Averaged values, measured without accessories, USB connection to PC

\*\* Activation time is the time that elapses after the end of the printing process until the machine enters the mode.

\*\*\* 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.

The figures in brackets indicate the range within which you can adjust the default time.

## Energy Consumption of HL-2240D

The energy consumption of HL-2240D in the standard cycle of use according to ENERGY STAR® 7/2005 is **1.137 kWh/week**.

The value was measured at the above mentioned settings (delivery status).

If the Power Saving timer value is reduced then the machine switches to an energy saving mode quicker which has the effect of reducing the energy usage.

If, however, you wish to extend a time or to even turn off an energy-saving mode you should consider that the machine may use more energy as a result.

The machine will always use some power whilst connected to the AC mains. For zero power consumption the machine should be unplugged from the AC outlet.