

# Information- and Data Sheet according to the Requirements of the Blue Angel Environmental Label for Office Equipment with Printing Function (DE-UZ 219)

## **Kyocera ECOSYS M3645dn**

(Print- and copying speed maximal 45 pages/minute)

### **General Information**

The ECOSYS M3645dn has been awarded the Blue Angel ecolabel. The device is intended for professional use. The following notes refer to the award criteria:

- Use only Kyocera toner kits specifically designed for this multifunctional device, as they have been tested and found to meet the requirements of the Blue Angel ecolabel.
- Please only carry out the cleaning steps for the device described in the user manual. Only trained persons may carry out maintenance and disposal activities as well as complete cleaning of the system.
- Do not force open the toner containers. If toner dust escapes because of improper handling, avoid inhalation of the dust and contact with the skin. If skin contact should occur, wash with soap and cold water. Keep the toner container out of reach of children.
- The device contains 1-5% of recycled plastic (post-consumer recycled plastic).
- The toner included in the delivery state is sufficient for 6,000 pages after the first filling of the new device (data according to ISO/IEC 19752).
- Once a Kyocera toner is empty, we offer a number of ways to return it to our recycling partner, depending on your location. For further information, please visit <https://www.kyoceradocumentsolutions.eu/en/support/return-your-toners/toner-take-back-service.html>.
- The multifunctional device is suitable for using recycled paper according to EN 12281.
- To save paper and thus conserve resources, the device is equipped with a duplex unit for two-sided printing or copying.
- In addition, the functions "Skip blank pages" and multi-page printing (print/copy multiple pages on one sheet) are also available.
- The dealer will replace the maintenance kit, including the photoconductor drum after 300,000 pages (A4) at a fee. In the course of maintenance, installed filters are inspected and replaced if necessary.
- New electronic units emit volatile compounds into the room air during the first few days. Therefore, please ensure sufficient air exchange in the installation room.
- Kyocera or its representative provides a standard one-year warranty as a basis. For all detailed country and product specific warranty conditions and service offerings please refer to the service and support section of your local Kyocera homepage first.
- To ensure repair reliability, spare parts and consumables are available for at least 5 years after production has been discontinued.
- The return of the printing system is regulated. Business customers should contact their Kyocera dealer or Kyocera Document Solutions directly.

- The lithium manganese dioxide battery contained in the print system is free of cadmium, lead and mercury. Removal is not required as it does not need to be replaced within the life of the system.

## **1. Information on Noise Emissions of the ECOSYS M3645dn**

The declared sound power level  $L_{WA,d}$  according to the regulations of DE-UZ 219 is 68.4 dB(A) for the printing process.

## **2. Information on Energy Data of the ECOSYS M3645dn**

The electric power consumption of a device depends on both its features and also on the way these features are utilised by the user.

The device ECOSYS M3645dn has been designed and pre-set so that you can save electricity costs. It switches to "Ready-mode" after the last print or copy.



From this mode, it is able to print or copy again immediately if required. If this is not required, the device will switch to electric power saving modes in two steps after a certain period of time, which is called the delay time. It consumes less power (watts) in this mode. The device will take longer to print or copy again from an electric power saving mode than from "Ready-mode". This delay is called the recovery time. The device has been designed in such a way that switching it on and off up to twice a day into "Off-mode" will not damage the device.

You can find the power consumption values for the individual modes, as well as the delay and recovery times, in the table below. The values stated in the table are pre-set when the device is delivered. The device complies with the requirements of the Blue Angel with these values.

## Overview of the Operating Modes of the ECOSYS M3645dn

Print speed in DIN A4 format (determined according to: ISO/IEC 24734): 45 pages/minute

Copying speed in DIN A4 format (determined according to: ISO/IEC 24735): 45 pages/minute

Symbol on the switch/button	Operation-mode	Power consumption <sup>1</sup> [watts]	Delay time <sup>2</sup> [minutes]	Recovery time <sup>3</sup> [seconds]
	Highest possible power consumption: at switch on	1261	-	-
	Printing (continuous operation at 45 pages/minute)	630	-	-
	Ready-mode	50	0	-
	Low power-mode <sup>5</sup>	29	1 (1...120)	8
	Sleep-mode	0.5	1 (1...120) <sup>4</sup> or Switch activation	15
	Off-mode	< 0.1	Switch activation	

1 Averaged values, measured without accessories

2 The delay time is the time that elapses after the end of the print- or copying process until the device switches over to the respective operating mode. The figures in brackets indicate the range within which you can change the delay time.

3 The recovery time is the time which the device needs to return to "Ready-mode" for printing or copying.

4 To save even more energy, you can shorten the set activation time and enter "Sleep-mode" directly by pressing the switch. The next time a print or copy command is given, the machine automatically goes into the "Ready-mode".

5 This energy state is not activated at delivery.

### 3. Energy Consumption of the ECOSYS M3645dn

For the standard use cycle according to the ENERGY STAR 3.0 standard, the following assumptions are made for a device like the ECOSYS M3645dn: 32 print jobs per working day, each with 31 pages, single-sided using monochrome printing (992 pages/day).

The energy consumption for a week (7-day week with 5 working days of 8 hours each) in the standard use cycle according to ENERGY STAR 3.0, determined using printing test pattern A according to ISO 10561:1999, is 0.61 kWh/week.

This value was measured with the settings (delivery state) stated above.

You can change the delay times for the electric power saving modes in some cases. If you shorten a delay time, the device will switch to an electric power saving mode faster and you will save electricity costs. If you nevertheless want to extend a delay time, please bear the following in mind:

The device will switch to an electric power saving mode later or not at all. The device will thus remain in a mode with higher power consumption for a longer period of time and will consume more electric power as a result. In addition, it is possible that the device will no longer comply with the maximum value for electricity consumption specified by the Blue Angel. We recommend that you do not extend the delay times.

The power consumption can only be completely stopped by pulling the mains plug.

User information on the Blue Angel as well as the environmental data sheet can be found in the download centre under the respective printer or multifunctional device:

<https://www.kyoceradocumentsolutions.eu/en/support/downloads.html>.

Further information on DE-UZ 219 can be found at <https://www.blauer-engel.de/en>.

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