

Imaging Equipment Standard Size with Heating Technology



Scope

Standard-size imaging equipment products such as copiers, digital duplicators, fax machines, multifunction devices (MFDs), and printers that use high-temperature technologies such as electrophotography and solid ink, and those that provide comparable functionality. It is not intended for low-temperature technologies such as ink jet, dot matrix and impact. The models concerned must be available through the trade in Europe in the same configuration as indicated in the registration. The product as sold to the customer should be able to operate on mains voltage (230 V AC). This includes portable equipment that is sold with an external power supply.

Criteria

Imaging equipment standard size with heating technology complies with GEEA criteria if the following criteria are met:

Category	Criteria	Basis for criteria
Copiers, digital duplicators, fax machines and printers	The TEC* (typical electricity consumption) is less than or equal to:	ENERGY STAR
	Images per minute (ipm)	
Monochrome, direct thermal, dye sublimation, electrophotography, stencil, thermal transfer	≤ 12 ipm	1.5
	12 < ipm ≤ 50	0.20 • ipm - 1
	> 50 ipm	0.80 • ipm - 31
Copiers, digital duplicators, fax machines and printers	The TEC* (typical electricity consumption) is less than or equal to:	ENERGY STAR
	Images per minute (ipm)	
Color, dye sublimation, electrophotography, stencil, thermal transfer, solid ink	≤ 50 ipm	0.20 • ipm + 2
	> 50 ipm	0.80 • ipm - 28
Multifunction devices	The TEC* (typical electricity consumption) is less than or equal to:	ENERGY STAR
	Images per minute (ipm)	
Monochrome, direct thermal, dye sublimation, electrophotography, thermal transfer	≤ 20 ipm	0.20 • ipm + 2
	20 < ipm ≤ 69	0.44 • ipm - 2.8
	> 69 ipm	0.80 • ipm - 28
Multifunction devices	The TEC* (typical electricity consumption) is less than or equal to:	ENERGY STAR
	Images per minute (ipm)	
Color, dye sublimation, electrophotography, thermal transfer, solid ink	≤ 32 ipm	0.20 • ipm + 5
	32 < ipm ≤ 61	0.44 • ipm - 2.8
	> 61 ipm	0.80 • ipm - 25

* Defined in ENERGY STAR Qualified Imaging Equipment Typical Electricity Consumption (TEC) Test Procedure

Definition

Term	Definition
Standard format	Products categorized as standard include those designed for standard-sized media (e.g., Letter, Legal, Ledger, A3, A4, and B4), including those designed to accommodate continuous-form media at widths between 210 mm and 406 mm. Standard-size products may also be capable of printing on small-format media.
Sleep mode	The reduced power state that the product enters automatically after a period of inactivity. In addition to entering sleep automatically, the product may also enter this mode 1) at a user set time-of-day, 2) immediately in response to user manual action, without actually turning off, or 3) through other, automatically-achieved ways that are related to user behavior. All product features can be enabled in this mode and the product must be able to enter active mode by responding to any potential input options designed into the product; however, there may be a delay. Potential inputs include external electrical stimulus (e.g., network stimulus, fax call, remote control) and direct physical intervention (e.g., activating a physical switch or button). The product must maintain network connectivity while in sleep, waking up only as necessary.
Standby mode	The lowest power consumption mode which cannot be switched off (influenced) by the user and that may persist for an indefinite time when the product is connected to the main electricity supply and used in accordance with the manufacturer's instructions.

Test method

Typical Electricity Consumption (TEC) Approach: A method of testing and comparing the energy performance of imaging equipment products, which focuses on the typical electricity consumed by a product while in normal operation during a representative period of time. The key criteria of the TEC approach for imaging equipment is a value for typical weekly electricity consumption, measured in kilowatt-hours (kWh). Detailed information can be found in the "ENERGY STAR Qualified Imaging Equipment Typical Electricity Consumption Test Procedure" available at www.energystar.gov/products.

Basis for criteria

ENERGY STAR: ENERGY STAR Program Requirements for Imaging Equipment (Version 1.0)