

Why buy HP printing systems with the Blue Angel eco label?



Proof points for HP products certified according to RAL-UZ 171

HP customers expect best choice in environmental performance. This is why HP tests its printing systems under intensive operating conditions – including the paper and the original ink or toner cartridges. And this is why we follow strict HP-internal environmental standards and seek compliance with voluntary eco labels. Certainly most recognised among those labels is the German Blue Angel according to RAL-UZ 171 offering over one hundred demanding criteria which many HP printing systems across our user segments fulfill when operated with original HP printing supplies.



The German Blue Angel can be used to label the products certified under RAL-UZ 171.

Energy consumption is very low

- Certified HP printing systems comply with ambitious requirements for energy consumption. Innovative HP firmware is a key to achieving the required values while ensuring excellent printing performance and usability at the same time.
- During the printing process, the devices consume low energy amounts and easily meet the strict maximum values of the Blue Angel for the so called typical energy consumption (TEC).
- In print-free times, electric power saving modes are automatically activated. For instance, certified HP devices feature a special sleep mode with power levels lower than 4 watts. Most of them also provide users with adjustable energy saving settings which can be selected according to the users' needs.

Substance and particle release meet stringent Blue Angel guide values

- Certified HP printing systems stand the test under intensive usage conditions according to ISO/IEC 28360:2012 in dynamic environmental test chambers. HP printers are tested together with original HP printing supplies and HP paper to ensure that the whole printing system is included into the measurement procedures.
- When using original HP printing supplies, Blue Angel certified devices feature a very low release of substances. This includes single volatile substances (VOCs) and this substance group's total (TVOCs).
- Fine dust release is at very low levels and meets the long established guide value for laser printing systems of the Blue Angel. This indoor air contribution is also far below any occupational limit value. In addition, certified HP Laser printing systems with less or equal 250 litres device volume meet a newly introduced preventative guide value for released particle numbers – including ultrafine particle (UFP) sizes. Such particles lie in the order of magnitude of everyday activities such as cooking or ironing.

Noise levels are strictly limited

- Working with certified HP printing systems including original HP cartridges means reducing noise generation in offices. Strict guide values which depend on the devices' operating speed are met by certified HP ink and laser devices in their standard print modes.

Product design and materials used follow sustainable principles

- HP devices awarded the Blue Angel provide for longevity: users can be sure that spare parts and repair services are available at least five years after the end of production.
- Furthermore, certified ink printing systems feature single ink cartridges which can be removed separately so that users do not have to replace the whole cartridge bundle if one single colour is empty.
- In addition, the use of 100% recycled paper is supported if the paper is compliant with the requirements of the standard EN 12281.



Examples for HP ink and laser printing systems certified with the German Blue Angel according to RAL-UZ 171.

- Devices are designed to facilitate recycling: for instance, HP applies only a small amount of different materials. And the coatings used are kept to a minimum so that no additional treatment is required for subsequent recycling.
- For the devices, HP offers product take-back services that meet the requirements of the German Electrical and Electronic Equipment Act (ElektroG). HP ink and toner cartridges can also be returned free of charge.

Toner and ink mixtures fulfill stringent safety criteria

- HP toner and ink mixtures for printing systems certified with the German Blue Angel easily fulfill the respective requirements which are based on international standards: for example, they do not contain substances as intentionally added constituents that are classified as carcinogenic, mutagenic, toxic to reproduction, persistent, bio-accumulative or toxic according to European regulations including REACH. In addition, it is ensured that the mixtures are kept free of substances which e.g. contain mercury, cadmium or nickel as intentionally added constituents.
- HP toner cartridges feature a closed design concept to make sure that the likelihood of inadvertently coming into contact with toner is reduced to a minimum. Thus, the Blue Angel requirements on safe toner handling are met.

Original HP printing supplies are an essential part of Blue Angel performance

- Certification of HP printing systems according to the award criteria RAL-UZ 171 is conducted with original HP printing supplies only. This includes HP toner as well as HP ink cartridges. If HP printing systems are operated with non-HP cartridges, HP cannot confirm achievement of any performance criteria.

Further information

- Current status which HP printing systems (including its printing supplies) are awarded the German Blue Angel according to RAL-UZ 171 can be viewed [here](#) on the official Blue Angel website.
- More information on the Blue Angel and certified HP products is available on the [Blue Angel section of the HP website](#).
- HP provides a Blue Angel User Information document for devices certified with the Blue Angel in Germany. These documents display relevant environmental product features in detail. They can be accessed [here](#) on the HP website.

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