

## Umweltdatenblatt

## P-4021 MFP

|                                                |                                                                                                                                                                                                                                                                                                                                                                     |                            |  |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|
| Umweltmanagement                               | Die Fertigung dieses Geräts erfolgt in Produktionsstätten, die mit einem Umweltmanagementsystem gem. ISO 14001 arbeiten.                                                                                                                                                                                                                                            |                            |  |
| Umweltzertifikat                               | Blauer Engel nach DE-UZ 219: In Bearbeitung                                                                                                                                                                                                                                                                                                                         |                            |  |
| Leistungsaufnahme   Wärmeabgabe                | Leistungsaufnahme                                                                                                                                                                                                                                                                                                                                                   | Wärmeabgabe                |  |
|                                                | Maximal (beim Einschalten, „inkl. Optionen“):                                                                                                                                                                                                                                                                                                                       |                            |  |
|                                                | 1107 W                                                                                                                                                                                                                                                                                                                                                              | 3985 kJ/h                  |  |
| Drucken:                                       | 574 W                                                                                                                                                                                                                                                                                                                                                               | 2068 kJ/h                  |  |
| Bereit:                                        | 11 W                                                                                                                                                                                                                                                                                                                                                                | 39 kJ/h                    |  |
| Ruhemodus:                                     | 0,4 W                                                                                                                                                                                                                                                                                                                                                               | 1,4 kJ/h                   |  |
| Schalter-Aus:                                  | 0,1 W                                                                                                                                                                                                                                                                                                                                                               | 0,4 kJ/h                   |  |
| Typischer Stromverbrauch (TEC)                 | 0,35 kWh/Woche (ermittelt gem. ENERGY STAR 3.2)                                                                                                                                                                                                                                                                                                                     |                            |  |
| Aufstellhinweise                               | Das Multifunktionsgerät sollte so aufgestellt werden, dass sowohl seitlich, als auch vor und hinter dem System ausreichend Platz für die Bedienung und zur Wartung freigehalten wird. Für eine gute Belüftung sorgen. Das MFP-System nicht in staubigen Räumen aufstellen und vor Ammoniakdämpfen schützen.<br>Bitte beachten Sie die Hinweise im Anwenderhandbuch. |                            |  |
| Luftfeuchtigkeit                               | 10% - 80%                                                                                                                                                                                                                                                                                                                                                           |                            |  |
| Raumtemperatur                                 | 10°C - 32,5°C                                                                                                                                                                                                                                                                                                                                                       |                            |  |
| Geräuschemission<br>(gem. ISO 7779 / ISO 9296) | Surface sound pressure level<br>(Messung in 1m Entfernung, Durchschnitt aus Einzelmessungen)                                                                                                                                                                                                                                                                        |                            |  |
|                                                | Betrieb:                                                                                                                                                                                                                                                                                                                                                            | 50,2 dB(A) L <sub>pA</sub> |  |
|                                                | Bereit:                                                                                                                                                                                                                                                                                                                                                             | nicht messbar              |  |
|                                                | Operator position (Messung in Bedienerposition)                                                                                                                                                                                                                                                                                                                     |                            |  |
|                                                | Betrieb:                                                                                                                                                                                                                                                                                                                                                            | 55,5 dB(A) L <sub>pA</sub> |  |
|                                                | Bereit:                                                                                                                                                                                                                                                                                                                                                             | nicht messbar              |  |
|                                                | Garantierter A-bewerteter Schallleistungspegel entsprechend DE-UZ 219                                                                                                                                                                                                                                                                                               |                            |  |
|                                                | Betrieb:                                                                                                                                                                                                                                                                                                                                                            | 66,2 dB(A) L <sub>WA</sub> |  |
|                                                | Garantierter A-bewerteter Schallleistungspegel in Anlehnung an DE-UZ 219                                                                                                                                                                                                                                                                                            |                            |  |
|                                                | Bereit:                                                                                                                                                                                                                                                                                                                                                             | nicht messbar              |  |
| Lichtquelle                                    | Belichtung Trommel: Laser                                                                                                                                                                                                                                                                                                                                           |                            |  |
| Emissionen                                     | nach DE-UZ 219                                                                                                                                                                                                                                                                                                                                                      |                            |  |
|                                                | TVOC (Betrieb):                                                                                                                                                                                                                                                                                                                                                     | 3,24 mg/h                  |  |
|                                                | TVOC (Bereit):                                                                                                                                                                                                                                                                                                                                                      | 0,141 mg/h                 |  |
|                                                | Benzol:                                                                                                                                                                                                                                                                                                                                                             | < Nachweisgrenze           |  |
|                                                | Styrol:                                                                                                                                                                                                                                                                                                                                                             | 0,05 mg/h                  |  |
|                                                | Ozon:                                                                                                                                                                                                                                                                                                                                                               | 0,48 mg/h                  |  |
|                                                | Staub:                                                                                                                                                                                                                                                                                                                                                              | 0.13 mg/h                  |  |

## Environmental Data Sheet

## P-4021 MFP

|                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|-----------------------------------------------------------------------------------------------|-------------------|---------------|---------------------------------------|----------------------------|-----------|---------------|----------------|-----------|-------------------|----------------------|---------|-------------|----------------------------|----------|-----------|----------------|----------|--------------------------------------------------------------|-----------|--|------------|-----------------------------|--|-----------------------------------------------------------|--|--|--------|----------------|--|
| Environmental Management                                                                      | This device is manufactured in production facilities that work with an environmental management system in accordance with ISO 14001.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Environmental Label                                                                           | Blue Angel DE-UZ 219: In preparation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Power Consumption   Heat Emission                                                             | <table><tr><td></td><td>Power Consumption</td><td>Heat Emission</td></tr><tr><td>Maximum (at switch on, full options):</td><td>1107 W</td><td>3985 kJ/h</td></tr><tr><td>Printing:</td><td>574 W</td><td>2068 kJ/h</td></tr><tr><td>Ready:</td><td>11 W</td><td>39 kJ/h</td></tr><tr><td>Sleep mode:</td><td>0.4 W</td><td>1.4 kJ/h</td></tr><tr><td>Off-mode:</td><td>0.1 W</td><td>0.4 kJ/h</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                             |               |  |                                                                                               | Power Consumption | Heat Emission | Maximum (at switch on, full options): | 1107 W                     | 3985 kJ/h | Printing:     | 574 W          | 2068 kJ/h | Ready:            | 11 W                 | 39 kJ/h | Sleep mode: | 0.4 W                      | 1.4 kJ/h | Off-mode: | 0.1 W          | 0.4 kJ/h |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
|                                                                                               | Power Consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Heat Emission |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Maximum (at switch on, full options):                                                         | 1107 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3985 kJ/h     |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Printing:                                                                                     | 574 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2068 kJ/h     |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Ready:                                                                                        | 11 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 39 kJ/h       |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Sleep mode:                                                                                   | 0.4 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.4 kJ/h      |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Off-mode:                                                                                     | 0.1 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.4 kJ/h      |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| TEC                                                                                           | 0.35 kWh/week (determined according to ENERGY STAR 3.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Installation Notes                                                                            | The unit should be placed in a way, that there is adequately space for operation and maintenance on both sides, as well as in front and behind the system. Provide adequate ventilation. Do not set up the unit in dusty rooms, and protect against ammonia vapours. Please follow the instructions in the user manual.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Humidity                                                                                      | 10% - 80%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Room Temperature                                                                              | 10°C – 32.5°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Noise Emission<br>(According to ISO 7779 / ISO 9296)                                          | <table><tr><td colspan="3">Surface sound pressure level<br/>(Measurement in 1 m distance; average of single measurements)</td></tr><tr><td>Operation:</td><td colspan="2">50.2 dB(A) L<sub>pA</sub></td></tr><tr><td>Ready:</td><td colspan="2">not measurable</td></tr><tr><td colspan="3">Operator position</td></tr><tr><td>Operation:</td><td colspan="2">55.5 dB(A) L<sub>pA</sub></td></tr><tr><td>Ready:</td><td colspan="2">not measurable</td></tr><tr><td colspan="3">Declared A-weighted sound power level according to DE-UZ 219</td></tr><tr><td>Operation:</td><td colspan="2">66.2 dB(A) L<sub>WAc</sub></td></tr><tr><td colspan="3">Declared A-weighted sound power level following DE-UZ 219</td></tr><tr><td>Ready:</td><td colspan="2">not measurable</td></tr></table> |               |  | Surface sound pressure level<br>(Measurement in 1 m distance; average of single measurements) |                   |               | Operation:                            | 50.2 dB(A) L <sub>pA</sub> |           | Ready:        | not measurable |           | Operator position |                      |         | Operation:  | 55.5 dB(A) L <sub>pA</sub> |          | Ready:    | not measurable |          | Declared A-weighted sound power level according to DE-UZ 219 |           |  | Operation: | 66.2 dB(A) L <sub>WAc</sub> |  | Declared A-weighted sound power level following DE-UZ 219 |  |  | Ready: | not measurable |  |
| Surface sound pressure level<br>(Measurement in 1 m distance; average of single measurements) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Operation:                                                                                    | 50.2 dB(A) L <sub>pA</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Ready:                                                                                        | not measurable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Operator position                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Operation:                                                                                    | 55.5 dB(A) L <sub>pA</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Ready:                                                                                        | not measurable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Declared A-weighted sound power level according to DE-UZ 219                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Operation:                                                                                    | 66.2 dB(A) L <sub>WAc</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Declared A-weighted sound power level following DE-UZ 219                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Ready:                                                                                        | not measurable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Light Source                                                                                  | Exposure drum: Laser                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Emissions                                                                                     | <table><tr><td colspan="3">According to DE-UZ 219</td></tr><tr><td>TVOC (Operation):</td><td colspan="2">3.24 mg/h</td></tr><tr><td>TVOC (Ready):</td><td colspan="2">0.141 mg/h</td></tr><tr><td>Benzene:</td><td colspan="2">&lt; Limit of detection</td></tr><tr><td>Styrene:</td><td colspan="2">0.05 mg/h</td></tr><tr><td>Ozone:</td><td colspan="2">0.48 mg/h</td></tr><tr><td>Dust:</td><td colspan="2">0.13 mg/h</td></tr></table>                                                                                                                                                                                                                                                                                                                                                 |               |  | According to DE-UZ 219                                                                        |                   |               | TVOC (Operation):                     | 3.24 mg/h                  |           | TVOC (Ready): | 0.141 mg/h     |           | Benzene:          | < Limit of detection |         | Styrene:    | 0.05 mg/h                  |          | Ozone:    | 0.48 mg/h      |          | Dust:                                                        | 0.13 mg/h |  |            |                             |  |                                                           |  |  |        |                |  |
| According to DE-UZ 219                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| TVOC (Operation):                                                                             | 3.24 mg/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| TVOC (Ready):                                                                                 | 0.141 mg/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Benzene:                                                                                      | < Limit of detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Styrene:                                                                                      | 0.05 mg/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Ozone:                                                                                        | 0.48 mg/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |
| Dust:                                                                                         | 0.13 mg/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |  |                                                                                               |                   |               |                                       |                            |           |               |                |           |                   |                      |         |             |                            |          |           |                |          |                                                              |           |  |            |                             |  |                                                           |  |  |        |                |  |