





Fraunhofer TESTED® DEVICE Atlas Copco IT AB ETD M20 ABL V2 Report No. AT 2408-1545

Statement of Qualification

Single product Particle Emission in Cleanroom (atmospheric)

Statement of Qualification • Single product

| Customer | Atlas Copco Industrial Technique AB Sickla Industriväg 15 105 23 Stockholm Sweden | Test result / Classification | When operated under the specified test conditions 22 °C \pm 0.5 °C; relative humidity: 45 % \pm 5 %), the s V2 in combination with controller and power supp anrooms fulfilling the specifications of the followin according to ISO 14644-1: | crewdriver ETD M20 ABL Ily is suitable for use in cle- |
|---|---|---|--|---|
| Component tested | | | Test parameter(s) | Air Cleanlines Class |
| Category: | Working Place and Operator | | Screwdriver: • Installation position = horizontal • Velocity = 900 rpm | 4 |
| Subcategory: | Work Equipment | | Cycle = movement: 15s Break between cycles = 5s | |
| Product name: | ETD M20 ABL V2 (manufacturing date: week 44/2023; color: black; article number: | | Controller | 3 |
| | 8432 0815 21; serial number: C5761530) in combination with: | | Power supply | 3 |
| | Controller MT Focus 6000 | | Overall result | 4 |
| | (manufacturing date: week 35/2020; color: black; article number: 8432 0851 00; serial number: C2690001) MT Power Supply (MT PS 180W-36V) (manufacturing date: week 22/2023; color: black; article number: 8432 0840 02; serial number: B5560964) | | Please note: Transport damages, incorrect installati behavior, corrosion etc. can influence the test resu | |
| Random sampling of particle emissions (ai | irborne) at representative sites in cleanroom under atmospheric conditions | | | |
| Standards/Guidelines: | ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests. | | | |
| Test devices: | Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1 \mu$ m, $\geq 0.2 \mu$ m, $\geq 0.3 \mu$ m, $\geq 0.5 \mu$ m, $\geq 1.0 \mu$ m and $\geq 5.0 \mu$ m | | | |
| Test environment parameters: | Cleanroom Air Cleanliness Class (according to ISO 14644-1): | | | |
| | Room temperature: | and international standards. In cases where no r | tests are calibrated at regular intervals; their results can be national standards exist, the test procedure implemented co the test. The relevant documentation can be viewed on red | omplies with the technical |
| Test procedure parameters: | Installation position: | Detailed information and parameters of the test | environment can be found in the Fraunhofer IPA test repo | rt. |
| | | Department of Ultraclean Technology and Micromanufacturing AT Rep | T 1907-1122 Stuttgart, October 8, 2019 port No. first document Place, date of first document issued T 2408-1545 Stuttgart, October 30, 2024 port No. current document Place, current date | This document only applies to the named product in its original stat and is valid for a period o 5 years from the current date the document was issued. The document car be verified under |
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on behalf of Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

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