





Fraunhofer TESTED® DEVICE Atlas Copco IT AB ETD M80 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 M80 ABL ly is suitable for use in cle-
Component tested			Test parameter(s)	Air Cleanlines Class
Category:	Working Place and Operator		Screwdriver: • Installation position = horizontal • Velocity = 1000 rpm	6
Subcategory:	Work Equipment		 Cycle = movement: 15s Break between cycles = 5s 	U U
Product name:	ETD M80 ABL V2 (manufacturing date: week 2/2024; color: black; article number:		Controller	1
	8432 0815 80; serial number: F6360729)		Power supply	3
	in combination with: • Controller MT Focus 6000		Overall result	6
	 (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 installation behavior, corrosion etc. can influence the test result	
Random sampling of particle emissions (airborn	e) 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 $\geq 0.1 \mu\text{m}$, $\geq 0.2 \mu\text{m}$, $\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 1.0 \mu\text{m}$ and $\geq 5.0 \mu\text{m}$			
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1): ISO 1 Airflow velocity:	T I I I I I I I I I I I I I I I I I I I		
	 Room temperature:	and international standards. In cases where r	tion tests are calibrated at regular intervals; their results can be no national standards exist, the test procedure implemented co of the test. The relevant documentation can be viewed on rec	omplies with the technical
Test procedure parameters:	 Installation position:	5	test environment can be found in the Fraunhofer IPA test repor	
	Fraunhofor	Fraunhofer Institute for Manufacturing Engineering and Automation IPA Department of Ultraclean Technology and Micromanufacturing Nobelstrasse 12	AT 1907-1122 Stuttgart, October 8, 2019 Report No. first document Place, date of first document issued AT 2408-1545 Stuttgart, October 30, 2024 Report No. current document Place, current date	This document only applies to the named product in its original stat and is valid for a period of 5 years from the current date the document was issued. The document can be verified under www.tested-device.com



on behalf of Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

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