





Fraunhofer TESTED® DEVICE VAT Vakuumventile AG ATM-Door 3D-746253_2D-756860 Report No. VA 1411-739

Statement of Qualification

Particle Emission

Statement of Qualification

Customer:

VAT Vakuumventile AG Seelistrasse 1 9469 Haag Switzerland

Component tested

Category:	Process Equipment
Subcategory:	Vacuum Component
Product name:	ATM-Door 3D-746253_2D-756860 (prototype) (manufacturing date: 7/2014)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:	VDI 2083-9.1; ISO 14644-1 The norms stated refer to the relevant editions applicable at the time of the tests.
Test devices:	Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\ge 0.1 \mu\text{m}$, $\ge 0.2 \mu\text{m}$, $\ge 0.3 \mu\text{m}$, $\ge 0.5 \mu\text{m}$, $\ge 1.0 \mu\text{m}$ and $\ge 5.0 \mu\text{m}$
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):
Test procedure parameters:	 Operating pressure:

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IPA

Test result/Classification: (in acc. with ISO 14644-1)

Para

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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When operated under the specified test conditions, the ATM-Door 3D-746253_2D-756860 (prototype) is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class:

meter	Air Cleanliness Class
5.5 bar; cycles / minute = 10	5

Stuttgart, May 26, 2015

Place, date of first document issued



This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under www.tested-device.com