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TESTED[®] DEVICE

Bosch Rexroth AG Lift Module F1000 LIFT410 B120 **Report No. BO 2304-1420**

Statement of Qualification

Single product **Particle Emission**





Statement of Qualification • Single product

Bosch Rexroth AG Customer

Löwentorstrasse 74 70376 Stuttgart Germany

Component tested

Category: **Automation Components**

Subcategory Positioning Systems

Lift Module F1000 LIFT 410MM (3842 564 849) Product name:

(manufacturing date: 1/2023 and 12/2022; weight: 6.5 kg; part number:

3842 564 849; serial number: 4009602172 and 4009539938)

Random sampling of particle emissions (airborne) at representative sites

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 μ m, \geq 0.5 μ m, \geq 1.0 μ m and \geq 5.0 μ m

Test environment parameters:

Airflow pattern:.....vertical laminar flow

Test procedure parameters:

• Relative humidity: 45 % ± 5 % Control unit supplied by customer • Installation position: vertical • Minutes per Cycle: n = 10 min • Test load: _____ m = 180 kg • Stroke: s = 410 mm

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Test result/Classification

When operated under the specified test conditions, the Lift Module F1000 LIFT 410MM (3842 564 849) is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Installation position: vertical Cycle time: 15.0s Minutes per cycle: 10 min Break: 545s Test load: 180 kg Velocity: 25 mm/s Stroke: 410 mm	7
Overall result	

Please note: Transport damages, incorrect installation, oil leakage, aging behavior, corrosion etc. can influence the test result.

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.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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on behalf of FM Buil

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under

www.tested-device.com.