

Certificate of Air Quality Testing

Certificate ID: **KJJHN**

Date: **20.02.2024**

Object: **Building 144**



This is to certify that air quality testing, as detailed beginning on Page 2, was conducted at the specified location. Our in-house laboratory in Zurich, Switzerland analyzed both the material samples and the air quality measurement data.

Details:

- Testing Dates: Specified dates
- Location: Aforementioned object
- Laboratory Analysis: Our experts examined the material samples and air quality data.
- Chain of Custody: We maintained a secure chain of custody for both the samples and associated data.

This certificate attests to commitment to environmental due diligence and accuracy in air quality assessment.

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Technology Care LLC is based in Zurich, Switzerland and is a leading provider of environmental monitoring products and services for controlled environments. For over 25 years many of the world's largest corporations have used our products and services to ensure that their critical indoor environments continue to meet required standards. These include office, health care, public, data center and cleanroom facilities. We manufacture a wide assortment of air sampling products and have developed many of our own proprietary analytic technologies.

Air Quality Control History

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Listed below are the air quality laboratory report numbers and test dates for this object. These reports provide valuable information about the air quality associated with this object. If you have any specific questions or need further details, please contact management.

Test Date (ddmmyyyy):	Air Quality Laboratory Report Number:
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20.02.2024

133425

02.10.2023

133424

09.07.2023

133423

Standards

AirCertify™ shows if air quality meets the following standards:

Air Quality Requirements for General Indoor Air

EPA AQI: <50 GOOD

Ozone: 0 – 0.054 ppm, PM2.5: 0 – 12 ug/m³, Sulfur Dioxide: 0 – 35ppm, Nitrogen Dioxide: 0 – 53 ppm, Carbon Monoxide: 0 – 4.4 ppm

Information: The EPA Air Quality Index AQI is an index for determining if air is healthy. An air quality index of <50 indicates that air quality is GOOD and is recommended for healthy indoor air.

WHO Microbial: <1000 cfu/m³

Less than 1000 CFU/m³ (Colony Forming Units)

Information: For general indoor air microbial levels of less than 1000 CFU/m³ (Colony Forming Units) is recommended by the WHO (World Health Organization) and other organizations including the ACGIH (American Conference of Governmental Industrial Hygienists). A colony-forming unit (CFU) is a unit used in microbiology to estimate the number of viable bacteria or fungal cells in a sample. Bioaerosols are an important parameter when assessing air hygiene at the workplace as well as in healthcare, pharmaceutical, cosmetics and food processing.

Air Quality Requirements for Technical Rooms

ASHRAE TC 9.9 and all major IT equipment manufacturers require that the following air standards be maintained in data centers, mission critical facilities and technology spaces, and Electronic Equipment:

ISO 14644-1 Class 8 (air particle concentration)

<3,520,000 0.5µm particles/m³, <832,000 1µm particles/m³, <29,300 5µm particles/m³

Information: ISO 14644-1 which is a widely accepted standard for qualifying indoor air cleanliness in terms of the concentration of airborne particles per cubic meter.

ANSI/ISA-71.04 Level G1 (corrosion):

Copper reactivity rate of less than 300 Å/month

Silver reactivity rate of less than 200 Å/month

Information: This standard categorizes metal reactivity (corrosion) in relation to the deployment and reliability of electronic equipment.

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