

AirCheckup DATA CENTER Report

Sampler ID: 130520

Test Start: 05.03.2020

Report Date: 08.09.2022

Test End: 06.04.2020

Exposure: 32 Days

SCOPE:

The AirCheckup™ DATA CENTER test shows if air cleanliness meets ASHRAE requirements for data centers and technology spaces. Test results correspond to standards ISO 14644-1 Class 8 (air particles) and ISO 8502-9 (chlorides).

TEST RESULTS:



Air Particles: 6.24% of the ISO 14644-1 Class 8 limit

Air meets ASHRAE requirements for data centers and technology spaces.

This report corresponds to 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.



Soluble Salts: 8.789 ug/cm²

The test result exceeds the limit of 5 ug/cm² for electronic devices and installations.

The following limit for soluble salts, relevant in terms of corrosion chemistry, have been established by international organizations and insurers: 5 µg/cm² for electronic devices and installations.



pH: 6.800 pH

Good. pH is within the 5 to 8.5 range and has little corrosive impact on most metals.

When contaminants have a pH between 5 and 8.5, the pH has little corrosive impact on most metals. However, the corrosion rate increases rapidly when the pH is outside of that range. pH levels of 5 or below can lead to extreme corrosion rates and premature pitting of metallic objects. Studies* have shown that even small amounts of low pH (acidic) contaminants can corrode metals.