REPORT

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Date
2024-07-04

Reference
O100282-1272818A

Ozoneair AB
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Ozone test of an air cleaner according to standard IEC/EN 60335-2-65

(1 appendix)

On behalf of Ozoneair AB, RISE has evaluated an air cleaner related to ozone production according to IEC/EN-standard 60335-2-65, § 32.

Item tested

Ozoneair, Purify 120, P120, S/N: 2305126042

The air cleaner has three different modes, “Purify”, “Clean” and “Ozone”. In this report the mode “Clean” has been tested.

The air cleaner was tested with the filter setup it had at arrival.

Pictures of the air cleaner and filter are presented in appendix 1.

The air cleaner was supplied to RISE by Ozoneair AB and was received on June 19, 2024.

The item was without visible defects.

Place and date of testing

The test was carried out at RISEs Laboratory of Ventilation and Air treatment in Borås on June 26-27 and July 2-3, 2024.

Method

The test was performed in a closed chamber with the dimensions 3,0 x 3,5 x 2,5 meters (width x length x height) with walls covered by polyethylene foil. The air cleaner was placed in the middle of the chamber and the measurement was undertaken in the outlet air.

Concentration of ozone was measured with a calibrated ozone monitor with UV detection (Ozone concentration, 2B Technologies, Inc, model 205). The calibration is traceable to NIST. Immediately prior to the test period of 24 hours, background level of ozone in the chamber was measured. Thereafter the ozone concentration was measured continuously 5 cm from the air cleaner’s air outlet, through an ozone-conditioned PTFE tubing. The ozone concentration

during 24 hours was recorded. The measurement was performed at mode “Clean” and at the lowest and highest speed (out of total 3).

Results

The results are presented in a diagram, Fig 1 and Fig 2.

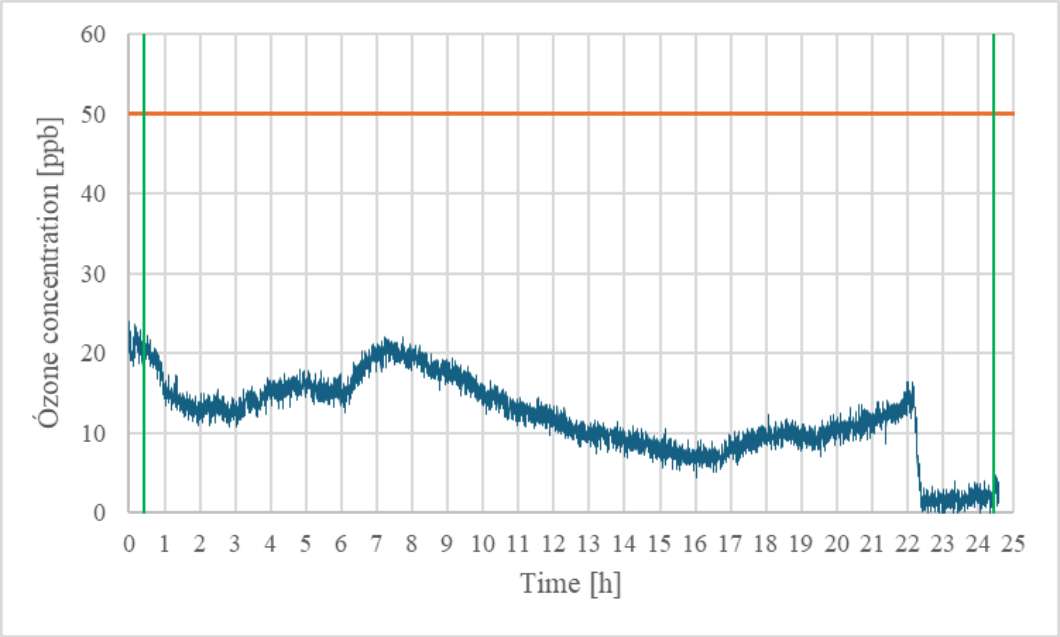

Fig 1. Results, measured ozone concentration, the measured period of 24h are between the green barrows, setting “Clean, Low”

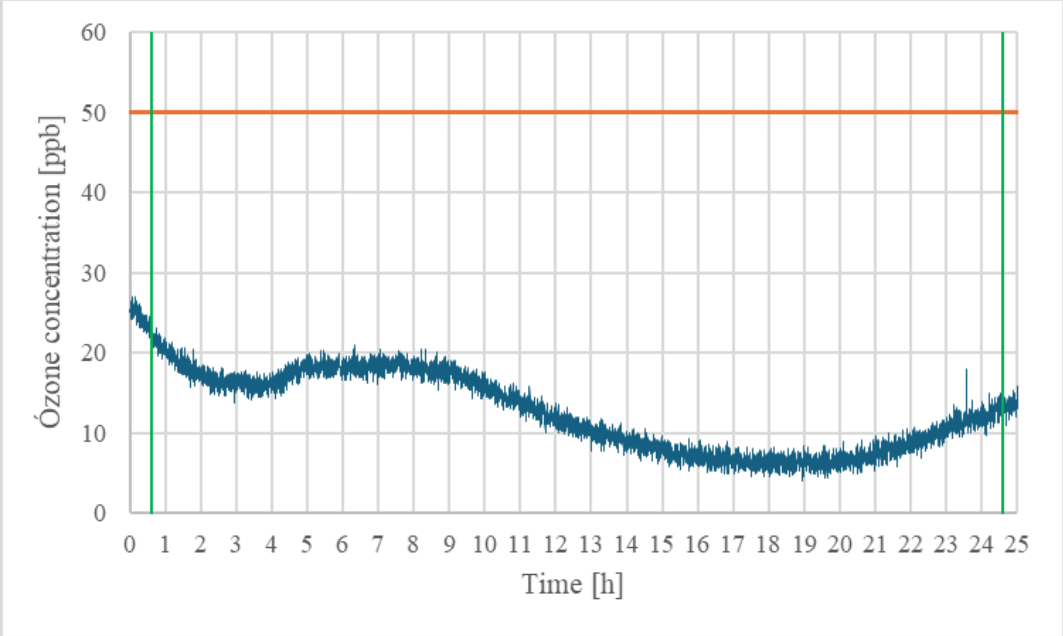

Fig 2. Results, measured ozone concentration, the measured period of 24h are between the green barrows, setting “Clean, High”

Uncertainty of the measurement is estimated to ± 1 ppb.

The results are valid only for the tested item

Equipment

Ozone instrument, 2B Technologies, Inc, model 205 RISEs inventory number BX80761

Summary

The measurements showed no ozone production or very little from the air cleaner tested. According to the standard, the appliance is not allowed to produce more than 50 ppb ozone (0.05 ppm) in the air outlet during the test set up. Thus, the air cleaner did comply with the standard.

Regarding ISO 17025:2018 7.8.6 Reporting statements of conformity:

When comparing test results with requirements in a product standard or other method, the instructions in the standard shall be followed. If no such instructions occur, the measured value is compared with the requirement level, regardless of the measurement uncertainty.

Decision rule: Measured values are evaluated without regard to measurement uncertainty.

RISE Research Institutes of Sweden AB
Building physics & sustainable buildings - Building physics testing

Performed by

Tobias Eriksson

Examined by

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Appendix

1. Pictures

Appendix 1

Appendix 1

Verification

Transaction 09222115557521813194

Document

O100282-1272818A Report Clean
Main document
5 pages
Initiated on 2024-07-05 08:08:55 CEST (+0200) by Tobias Eriksson (TE)
Finalised on 2024-07-05 08:36:03 CEST (+0200)

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