Technical Report No. 713184704

Rev. 0

Dated 20.10.2020

Product Service

Choose certainty. Add value.

Remark:	**This report is a translation of the original report 713184704TR_Z1_E Rev.0 issued on 29.04.2020**
Client:	Digital Elektronik GmbH Berchtesgadner Straße 10 5083 St. Leonhard bei Salzburg
Manufacturing place:	Digital Elektronik GmbH Johann Kopfmüllerstr. 6 A-5580 Tamsweg Austria (TÜV SÜD Facility no. 83659)
Test subject:	Product: Air-cleaning appliance with UVC-lamp Type: Air Cleaner AC-1
Test specification:	EN 60335-2-65:2003/A11:2012 EN 60335-1:2012/A2:2019 EN 62233:2008
Purpose of examination:	Inspection according to specified requirements
Test result:	The test results show that the presented product is **in compliance** with the specified requirements.

Project Manager:
Klement, Matthias
Date: 2020-10-20

Phone: +49 69 408968-156
E-Mail: MATTHIAS.KLEMENT@TU-VSUD.COM

TÜV SÜD Product Service GmbH
Department Frankfurt
Daimlerstraße 40
60314 Frankfurt am Main
Germany

1 Description of the test subject

1.1 Function

Manufacturer's specification for intended use:

General discription:
The OZONOS Aircleaner is designed for indoor spaces up to a maximum of 50 m2. After just a short period of use it improves the air in the room and removes things such as bacteria, germs, viruses, mould spores, pet and mite allergens, pollen, paint smells, pet odours, solvent, kitchen and cigarette odours. Odour neutralisation and air sterilisation by the OZONOS Aircleaner has the following advantages:
· Purely physical process
· No use of chemicals
· Ozone formation below naturally occurring concentrations
· Completely harmless to humans and animals
· No environmental pollution
· No formation of harmful by-products
· No use of filters
· No microbiological processes
· Low energy consumption with the highest operational safety
· Easy to maintain

Function
- *Sterilisation using UV-C-radiation*

Air is sterilised and cleaned within the OZONOS Aircleaner. Bacteria, viruses, germs, mould spores, yeasts and microorganisms are eliminated. The special wavelength of the UV-C radiation in the OZONOS Aircleaner has the same effect as natural solar radiation.
- *Odour neutralisation using ozone*

Inside the OZONOS Aircleaner the UV-C radiation turns some of the oxygen in the air into ozone. Ozone is able to oxidise organic substances in the air. This completely eliminates microorganisms, bacteria and odours in the ambient air.

General safety regulations and warings
Read the operating instructions carefully before using your OZONOS Aircleaner. It is crucial for you to observe the following safety regulations:
· Only connect the OZONOS Aircleaner to an earthed 230-volt mains connection.

Phone: +49 69 408968-156
E-Mail: MATTHIAS.KLEMENT@TU-VSUD.COM

TÜV SÜD Product Service GmbH
Department Frankfurt
Daimlerstraße 40
60314 Frankfurt am Main
Germany

· The device is not suitable for outdoor use and must not come into contact with water.
· The device must not be used in areas with strong dust formation and explosive vapour mixtures.
· The device must not come into contact with lubricants.

Manufacturer's specification for predictive misuse:
General safety regulations and warings:
Read the operating instructions carefully before using your OZONOS Aircleaner. It is crucial for you to observe the following safety regulations:
· Only connect the OZONOS Aircleaner to an earthed 230-volt mains connection.
· The device is not suitable for outdoor use and must not come into contact with water.
· The device must not be used in areas with strong dust formation and explosive vapour mixtures.
· The device must not come into contact with lubricants.

Refer additionally to user manual

1.2 Consideration of the foreseeable misuse

☐ Not applicable

☑ Covered through the applied standard

☐ Covered by the following comment

☐ Covered by attached risk analysis

Phone: +49 69 408968-156
E-Mail: MATTHIAS.KLEMENT@TU-VSUD.COM

TÜV SÜD Product Service GmbH
Department Frankfurt
Daimlerstraße 40
60314 Frankfurt am Main
Germany

1.3 Technical Data

Rated voltage:	220-240 V
Rated frequency:	50/60 HZ
Rated power:	14 W
Protection class:	I

2 Order

2.1 Date of Purchase Order, Customer's Reference

Date of order for translation: 13.10.2020, 1209035

Date of order for testing: 24.03.2020

2.2 Receipt of Test Sample, Location

04.03.2020, TÜV SÜD Product Service GmbH Frankfurt am Main**Date of Testing**

04.03.2020 - 29.04.2020

2.4 Location of Testing

TÜV SÜD Product Service GmbH, Daimlerstraße 40, 60314 Frankfurt am Main, Germany

2.5 Points of Non-compliance or Exceptions of the Test Procedure

No exceptions of the test procedure

Phone: +49 69 408968-156
E-Mail: MATTHIAS.KLEMENT@TU-VSUD.COM

TÜV SÜD Product Service GmbH

Department Frankfurt
Daimlerstraße 40
60314 Frankfurt am Main
Germany

3 Test Results

3.1 Positive Test Results

- Electrical safety/Mechanical safety
  EN 60335-2-65:2003/A11:2012
  EN 60335-1:2012/A2:2019
  EN 62233:2008

The test specifications are fulfilled

4 Remark

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.

The project is based on project Z1 18 02 24493 001 (713108310, Rev.3).
In this project the component information in the data form for electrical and electronic equipment/components has been updated.
Additionally alternative manufacturers for both the electronic board and the capacitor were added

4.1 Remarks to Factory

The assembly of the product has to comply with the documentation (CDF). Before the implementation of safety relevant modifications to the product into the ongoing production the product must be retested for assessment. The results must be implemented to the documentation and if necessary the certificate must be updated.
The final inspections in the production are described in the EN 60335-1

For the UV-C lamp is a 100% routine test of ozone concentration is necessary. This has to be performed with an calibrated ozone-measurment device.
The ozone measurement inside the specific, hermetic test chamber may not exceed a value of 14000 ppb within an observation time of 15 minutes.
The measurments have to be documented and archived.

TÜV SÜD Product Service GmbH

Phone: +49 69 408968-156
E-Mail: MATTHIAS.KLEMENT@TU-VSUD.COM

Department Frankfurt
Daimlerstraße 40
60314 Frankfurt am Main
Germany

5 Documentation

Documents provided by the customer:

Data form for electrical and electronic equipment/components:	713184704CDF_Z1_E, 29.04.2020
TR of base project:	713108310TR, 12.02.2018
User instruction:	713184704_MAN

6 Summary

The hitherto existing test results show that the presented product is **in compliance** with the specified requirements.

TÜV SÜD Product Service GmbH

Technical Report checked

SIGN-ID 393958
20.10.2020
Mustapha Eddaoui

PS-CPS-TSC-F

TÜV SÜD Product Service GmbH

Engineer

SIGN-ID 410121
16.10.2020
Matthias Klement

i.A. Klement, Matthias
PS-CPS-TSC-F

Phone: +49 69 408968-156
E-Mail: MATTHIAS.KLEMENT@TU-VSUD.COM

TÜV SÜD Product Service GmbH
Department Frankfurt
Daimlerstraße 40
60314 Frankfurt am Main
Germany