



गणेश वैज्ञानिक अनुसन्धान संस्थापन

(भारत सरकार के साथ तेल आयुक्त एवं दिल्ली सरकार के खाद्य मंत्रालय द्वारा अनुमोदित)

GANESH SCIENTIFIC RESEARCH FOUNDATION

(Approved Competent Laboratory by Government of India and Delhi Govt.)



TEST CERTIFICATE

Issued to:	Report No.: 15026
AIR FOR LIFE, UK LIMITED, SUITE	Date of Issue: 02-03-2021
MILTON KEYNES BUSINESS CENTRE FOXHUNTER DRIVE,	Reference: Client's Letter
HAYLEY COURT, LINFORD WOOD, M KGD MILTON	Kind Attn.:
KEYNES	Format TCF-GSRF/09/2019

SAMPLE PARTICULARS

Name of Sample by Client: AFL PLASMA FILTERLESS COLD PLASMA AIR PURIFIER	Test Start: 19-02-2021
Product Details – FILTERLESS COLD PLASMA AIR PURIFIER	Test Completed: 02-03-2021
Batch No.: REGULAR	Samples Qty: 01
Sampling done by Manufacturer/Client	Date of sample receipt: 18-02-2021

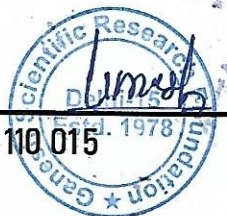
Description- Complies with efficient Filter less Cold Plasma Air Purifier. The sample meets the criteria as per the below test for mentioned reference standards in this Test Certificate. Complies Standards: SS-EN ISO 1644-2, ISO 14644, SS-EN ISO 14644-1 and IEST-G-CC1002. UL Standard for Safety for Electric Air Cleaners, UL 867, Section 37 Fourth Edition, 21 st Day of December 2007.	Features- AIR FOR LIFE's Cold Plasma Filter-less is one of the most advance HVAC Air purifier available. It complies with releasing of Human friendly negative ions in order to destroy 99.9% of impurities, leading to killing bacteria, viruses and eliminating dust, Volatile organic chemicals (VOC's), and allergens. Easily connects with <2W input power with Input current <9mA Negative Ions: $\geq 120 \times 10^6$ pcs/cm ³ Positive Ions: $\geq 100 \times 10^6$ pcs/cm ³ Input Voltage : 180~240V, 50/60Hz
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S.No	Parameters	Results	Specifications	Method
1	Visual Inspections	Meet the Criteria	Sample complies with clear marking and proper instructions for use/installment.	SOP-GSRF-19-2019
2	Physical Dimensions	Meet the Criteria	Width – 60mm Height – 45mm Depth – 40 mm	SOP-GSRF-19-2019
3	Net Weight	Meet the Criteria	Shipment Weight – 120gm $\pm$ 2.5 gm Unit weight – 100gm $\pm$ 1.5 gm	SOP-GSRF-19-2019
4	Safety	Meet the Criteria	Safe & No Chemicals release, Eco Friendly with no toxic chemicals are generated. It stays cool during testing and thus to keep in spaces with children around	SOP-GSRF-19-2019
5	Noise Levels	Meet the Criteria	Produces very less intensity noise (<25dB), with a very silent operation.	SOP-GSRF-19-2019
6	Cleaning/Maintenance	Meet the	Filter-less technology requires	SOP-GSRF-19-2019

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		Criteria	no major cleaning. Maintenance requirement is at minimal.	
7	Odor	Meet the Criteria	Air should be free from Bad Odor/Smell	SOP-GSRF-19-2019
8	Vapor-Phase Volatile Organic Chemicals (VOC's) in Surrounding Air	Meet the Criteria	Less than 0.3mg/m ³	A total of 9 Volatile Organic Chemicals (VOC's) were tested for air processed from AFL Filter-less Cold Plasma Air Purifier, using Gas Chromatography Mass Spectroscopy (GCMS) with a standard run time of 15 minute. VOC's are listed below:- Chloroform, Ethylbenzene, Toulene, Xylene, Dichlorobenzene, Dichloroethene, Dichloropropene, Dicholoromethane, Hexacholrobutadine
9	Particulate Matter (PM)	Meet the Criteria	More than 99.8% reduction	At the beginning there were about 9.000 particles/cm ³ in air, which is 9.000.000.000/m ³ . After 20 minutes of processing, the levels has been reduced to less than 1.000 particles/cm ³ , which is a reduction of >90%. Particle size 1.0 microns.
10	Fine Suspended Particulates matter (PM2.5 g/m ³)	Meet the Criteria	More than 99.9% Elimination ratio	The sample product was placed under the set of 2.9m x 1.4m x 2.0m of test chamber. The particulates were injected in the chamber and prior to processing, were made sure that the concentration of PM2.5 particles to be mixed and stabilized by the detector. Monitoring off the concentration of PM2.5 particles in the air before turning on the product and after processing (1 hour later). Control Test- The test protocol was as same as the experiment without putting the product in order to understand the performance of the product in suppression effect of PM2.5. Control Test value – 2203 Sample Test value - 08

11	Total Bacterial Count in surrounding air (CFU/m ³)	Meet the Criteria	More than 99.9% Elimination ratio	The sample product was placed under the set of 2.9m x 1.4m x 2.0m of test chamber. Total Bacterial counts were analysed in air before and after processing (an hour later). Control Test- In order evaluate the performance of product in suppression effect of total bacterial count. Test procedure is as same as the experiment without the sample i) Before processing – 3.9×10^3 ii) After processing – 1.3×10
12	Ozone Emission Testing of Household Electrostatic Air Cleaners	Meet the Criteria	Absent	Ozone concentrations less background level; In units of PPM. Teledyne - Advanced Pollution Instrumentation ozone monitor.





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ANALYST
NOTE:

AUTHORISED SIGNATORY

- Results# shows the performance tested under laboratory conditions for the submitted sample by the client, please note that the test may not reflect the reality of use.
- Laboratory is not responsible for safety of the users in any case, these results do not purport to address all of the safety concerns, if any associated with use of the final product.
- Reference Specimen Immediately after inoculation value is of untreated fabric/sample
- Methods* are mentioned for reference purposes, as laboratory have developed in house methods to perform the tests
- (0.5) can be given as ND as per method.
- Contact Time may vary for ± 10 minutes.
- The test is subcontracted to another laboratory.

End of the Report (Total 4 pages)

ESTD 1978