



ITS LABORATORY

(An ISO 9001: 2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory)

Laboratory: A-91, Sector 80, Phase-2, Noida-201301, (U.P)

M.: 09911659800, 09958849764, 07210888634

Report Code: MS-161220-02, Page 1 of 1

TEST REPORT

Air Purifier Test Report

Report Code: MS-161220-02

Issue Date: 30/12/2020

Issued To

: M/s. Moka Airtech Private Limited
404- 405, 4th Floor, Kailash Tower, Tonk Road,
Jaipur, Rajasthan

Sample Given By : By Customer
Sample description : Air Purifier (Model No- Aura Air Rev 1.0)
Sample received on : 16/12/2020
Date of Commencement of Testing : 16/12/2020
Date of completion of Testing : 30/12/2020
Environmental Condition : Temp: 25±2^oC, Humidity 55 ±5 %
Fan Speed : High

Test Method:

1. Air Purifier Tested in a chamber of 1008 ft³.
2. Initial Concentration of PM10, PM2.5 and PM 1.0 adjusted.
3. Fan was powered during operation.
4. Particulate matter concentration is monitored during operation of Air Purifier and also for Control sample without Air Purifier Operation.
5. AHAM AC-1-2013 Method for Measuring Performance of Portable Household Electric Room Air Cleaners was used as a reference.

RESULTS

1. PM 10 Removal Performance

S. No.	Time (Minute)	PM 10 ($\mu\text{g}/\text{m}^3$) Observation	Reduction Percentage
1.	Initial	983	-
2.	5	627	36.2
3.	10	435	55.7
4.	15	309	68.5





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Report Code: MS-161220-02, Page 2 of 3

5.	20	212	78.4
6.	25	126	87.2
7.	30	89	90.9
8.	35	59	94.0
9.	40	37	96.2
10.	45	25	97.4
11.	50	17	98.3
12.	55	11	98.9
13.	60	10	99.0

CADR OF AIR PURIFIER IN TERMS AND PM 10 REMOVAL

S.No.	Test Parameters	Values
1.	Chamber Size	1008 ft ³
2.	Flow Rate (m ³ /hr)	23.04
3.	CADR (m ³ /hr)	302
4.	Air Change Per Hour (ACH)	11.1

2. PM 2.5 Removal Performance

S. No.	Time (Minute)	PM 2.5 (µg/m ³) Observation	Reduction Percentage
1.	Initial	848	-
2.	5	541	36.2
3.	10	375	55.8
4.	15	267	68.5
5.	20	183	78.4
6.	25	109	87.1
7.	30	77	90.9
8.	35	51	93.9
9.	40	32	96.2
10.	45	22	97.4
11.	50	15	98.2
12.	55	10	98.8
13.	60	9	98.9

CADR OF AIR PURIFIER IN TERMS AND PM 2.5 REMOVAL

S.No.	Test Parameters	Values
1.	Chamber Size	1008 ft ³
2.	Flow Rate (m ³ /hr)	23.04
3.	CADR (m ³ /hr)	260.2
4.	Air Change Per Hour (ACH)	8.66





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Report Code: MS-161220-02, Page 3 of 3

1. PM 1.0 Removal Performance			
S. No.	Time (Minute)	PM 1.0 ($\mu\text{g}/\text{m}^3$) Observation	Reduction Percentage
1.	Initial	644	-
2.	5	411	36.2
3.	10	285	55.7
4.	15	202	68.6
5.	20	139	78.4
6.	25	82	87.3
7.	30	58	91.0
8.	35	38	94.1
9.	40	24	96.3
10.	45	16	97.5
11.	50	11	98.3
12.	55	7	98.9
13.	60	6	99.1

CADR OF AIR PURIFIER IN TERMS AND PM 1.0 REMOVAL

S.No.	Test Parameters	Values
1.	Chamber Size	1008 ft ³
2.	Flow Rate (m ³ /hr)	23.04
3.	CADR (m ³ /hr)	206.5
4.	Air Change Per Hour (ACH)	6.93

Conclusion:

1. The PM10 concentrations decreased from 983 $\mu\text{g}/\text{m}^3$ to 10 $\mu\text{g}/\text{m}^3$ in a 1008 ft³ chamber after 60 minutes operation of Air Purifier or decreased by 99.0 %.
2. The PM2.5 concentrations decreased from 848 $\mu\text{g}/\text{m}^3$ to 9 $\mu\text{g}/\text{m}^3$ in a 1008 ft³ chamber after 60 minutes operation of Air Purifier or decreased by 98.9 %.
3. The PM1.0 concentrations decreased from 644 $\mu\text{g}/\text{m}^3$ to 6 $\mu\text{g}/\text{m}^3$ in a 1008 ft³ chamber after 60 minutes operation of Air Purifier or decreased by 99.1 %.
4. The Clean Air Delivery Rate (CADR) of Air Purifier in terms of PM 10 removal was calculated to be 302 m³/hr.
5. The Clean Air Delivery Rate (CADR) of Air Purifier in terms of PM 2.5 removal was calculated to be 260.2 m³/hr.
6. The Clean Air Delivery Rate (CADR) of Air Purifier in terms of PM 1.0 removal was calculated to be 206.5 m³/hr.

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.

Romya
Checked by

Authorized Signatory