

Air Cleaner Test Report

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1. Sample Description

Product : Air Cleaner

Brand Name : b-MOLA

Model(s) : NCCO1701

No. of Sample Received : 1

Test Date : 14 Nov 2018 – 14 Nov 2018

Test Standard(s) : GB/T 18204.2-2014
GB/T 18801-2015

Test Item(s) : Clean Air Delivery Rate (CADR) for chemical pollutant

Test Result : See the attached sheets

2. Detail Description of the sample



b-MOLA/NCCO1701



NCCO Filter and HEPA

3. Result of Clean Air Delivery Rate (CADR) for solid pollutant

Brand / Model No.	Operating Mode	Test Chemical	Natural Decay Rate	CADR (m ³ /h)
b-MOLA/NCCO1701	SS	Formaldehyde	0.001	4.3

Tests were performed in accordance to GB/T 18801-2015.

1. Test Chemical

Formaldehyde

2. Test Environment

Temperature: (25 ± 2) °C

Relative Humidity: (50 ± 10) %

3. Test Procedure

- 1) Place the air cleaner into the testing chamber. Open the air cleaner to the highest operation power to check if it is function correctly. Then turn off the air cleaner and close the testing chamber door.
- 2) Turn on high efficiency air filter of the testing chamber until the concentration of particles ($\geq 0.3 \mu\text{m}$) is less than 1000 particle/L.
- 3) Record the background formaldehyde concentration and turn of the high efficiency air filter of the testing chamber.
- 4) Inject gaseous formaldehyde into the testing chamber until the concentration reaches $(1.00 \pm 0.02) \text{ mg/m}^3$, close the chemical injector and turn on the mixing fan for 10 minutes.
- 5) When the mixing fan is completely stop, record the initial concentration of formaldehyde as C_0 .
- 6) Turn on the sample air purifier. Record formaldehyde concentration every 5 minutes for the next 60 minutes.
- 7) Repeat Procedure 1) – 6) without turning on the air cleaner, record the natural decay rate of the testing chamber.

4. Calculation

$$\text{CADR (m}^3/\text{h)} = 60 \times (k_e - k_n) \times V$$

k_e : Total decay rate (min⁻¹)

k_n : Natural decay rate (min⁻¹)

V: Volume of the testing chamber (m³)

End of Report