

## **Air Cleaner Test Report**

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Report Number : REPAP18121101

Report Issue Date : 19 Dec 2018

Total Page : 6 Pages (including this page)

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## 1. Sample Description

Product : Air Cleaner  
Brand Name : b-MOLA  
Model(s) : NCCO1802  
No. of Sample Received : 1  
Test Date : 06 Dec 2018 – 06 Dec 2018  
Test Standard(s) : 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/NCCO1802**



**NCCO Filter and HEPA**

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

Brand / Model No.	Operating Mode	Test Chemical	Natural Decay Rate	CADR (m <sup>3</sup> /h)
b-MOLA/NCCO1802	Blue Light	Acetone	0.0007	4.4

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

#### 1. Test Chemical

Acetone

#### 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 acetone concentration and turn of the high efficiency air filter of the testing chamber.
- 4) Inject gaseous acetone into the testing chamber until the concentration reaches specific concentration stated in standard, 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 acetone as  $C_0$ .
- 6) Turn on the sample air purifier. Record acetone 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<sup>-1</sup>)

$k_n$ : Natural decay rate (min<sup>-1</sup>)

V: Volume of the testing chamber (m<sup>3</sup>)

\*\*\*End of Report\*\*\*