

## **Air Cleaner Test Report**

Applicant : RHT Industries Limited

Address : Block B, 2/F, Goodwill Industrial Building, No. 36-44 Pak Tin Par  
Street, Tsuen Wan, New Territories, Hong Kong

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## 1. Sample Description

Product : Air Cleaner  
Brand Name : b-MOLA  
Model(s) : NCCO1804  
No. of Sample Received : 1  
Test Date : 01 Aug 2018 – 01 Aug 2018  
Test Standard(s) : GB/T 18801-2015  
Test Item(s) : Clean Air Delivery Rate (CADR) for solid pollutant  
Test Result : See the attached sheets  
Remark : N/A

## 2. Detail Description of the sample



**b-MOLA/NCCO1804**



**NCCO Filter and HEPA**

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

Brand / Model No.	Operating Mode	Test Particulate	Natural Decay Rate	CADR (m <sup>3</sup> /h)
b-MOLA/NCCO1804	Blue Light	Cigarette smoke	0.0038	13.0

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

#### 1. Test Particulate

Cigarette smoke ( $\geq 0.3\mu\text{m}$ )

#### 2. Test Environment

Temperature: (25 ± 2) °C

Relative Humidity: (50 ± 10) %

#### 3. Test Equipment

1) Testing Chamber (30m<sup>3</sup>)

2) High Density Particle Counter (SX-L301N)

#### 4. 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 particle concentration and turn of the high efficiency air filter of the testing chamber.
- 4) Light a cigarette and use low pressurized air to inject smoke into the testing chamber until the concentration reaches ( $2 \times 10^6 - 2 \times 10^7$ ) particle/L, close the smoke injector and turn on the mixing fan for 10 minutes.
- 5) When the mixing fan is completely stop, record the initial concentration of the particle ( $\geq 0.3\mu\text{m}$ ) as C<sub>0</sub>.
- 6) Turn on the sample air purifier. Record the particle concentration every 2 minutes for the

next 20 minutes.

- 7) Repeat Procedure 1) – 6) without turning on the air cleaner, record the natural decay rate of the testing chamber.

5. 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\*\*\*

