

## **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

Report Number : REPAP18120901

Report Issue Date : 19 Dec 2018

Total Page : 6 Pages (including this page)

This document is issued by the Company under its General Conditions of Service printed overleaf. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any order of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30days only. This document cannot be reproduced except in full, without prior approval of the Company.



## 1. Sample Description

Product : Air Cleaner  
Brand Name : b-MOLA  
Model(s) : NCCO1802  
No. of Sample Received : 1  
Test Date : 24 May 2018 – 24 May 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

## 2. Detail Description of the sample



**b-MOLA/NCCO1802**



**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/NCCO1802	Blue Light	Cigarette smoke	0.0076	3.33

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\*\*\*