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

Application Number : KJ2003002-04

Report Number : REPAP20031201

Report Issue Date : 23 Mar 2020

Total Page : 8 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 older 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.

TABLE OF CONTENT

1.	Sample Description	3	
2.	Detail Description of the sample	4 - 5	
3.	Testing Method of Removal Efficiency	6	
4	Result of Removal Efficiency	7 – 8	

Acron International Technology Limited

IAQ Contractor, IAQ Control Facilities Supplier, IAQ Consultant Subsidiary company of the Hong Kong University of Science and Technology under the Entrepreneurship Program

1. Sample Description

Product : Air Cleaner

Brand Name : b-MOLA

Model No. : MOLA10

No. of Sample Received : 1

Test Date : 19 Mar 2020 – 19 Mar 2020

Test Item(s) : Pollutants Removal Efficiency

Test Requested : VOC (Ammonia)

Test Reference(s) : In-house method SOP-200 (for VOC removal rate)

Test Equipment : Honeywell instrument ppbRAE 3000

Equipment no. : E002 - 002

Test Result : See the attached sheets

Remark : Client claimed that model MOLA10 same as

NCCO1804/IA10/BM10 in terms of power, parts, components

and structures. Only different is the selling platform.

2. Detail Description of the sample





b-MOLA/MOLA10

Acron International Technology Limited

IAQ Contractor, IAQ Control Facilities Supplier, IAQ Consultant Subsidiary company of the Hong Kong University of Science and Technology under the Entrepreneurship Program

Page 4 of 8 Report No.: REPAP20031201



NCCO Reactor (NA213020300) and Normal White HEPA

IAQ Contractor, IAQ Control Facilities Supplier, IAQ Consultant Subsidiary company of the Hong Kong University of Science and Technology under the Entrepreneurship Program



3. Testing Method of Removal Efficiency

In a 0.027m^3 chamber, chemical pollutant was injected into the chamber by a syringe and evaporated by a hot plate. Internal circulation was turned on throughout the test to ensure the uniformity of chemical pollutant concentration inside the chamber. Initial concentration (C_0) of the chemical pollutant was recorded before switching on the air cleaner with a fixed volume of VOC pollutant. Then, the air cleaner is switched on for 60 minutes and the chemical concentration was recorded as C_{60} , the final concentration of chemical.

New filters and HEPA have been used for each chemical test.

4. Results of Removal Efficiency

Brand/ Model No.	Operation Mode	Test Chemical
b-MOLA/MOLA10	Blue Light Mode	VOC (Ammonia)

Initial Concentration	Total Decay, ke	Removal Efficiency	
(ppm)	(min ⁻¹)	(%)	
117.30	0.0346	92	

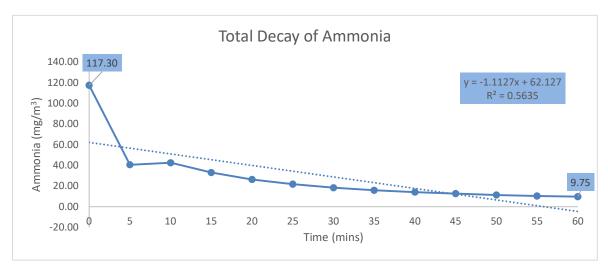


Figure a. Total Decay of VOC (Acetone)

IAQ Contractor, IAQ Control Facilities Supplier, IAQ Consultant Subsidiary company of the Hong Kong University of Science and Technology under the Entrepreneurship Program

Calculation:

$$A_1 = \frac{C_0 - C_{60}}{C_0}$$

A₁: Removal Efficiency (%)

C: Concentration of testing subject (ppm)

End of Report

IAQ Contractor, IAQ Control Facilities Supplier, IAQ Consultant Subsidiary company of the Hong Kong University of Science and Technology under the Entrepreneurship Program

Page 8 of 8 Report No.: REPAP20031201