Air Cleaner Test Report

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Acron International Technology Limited

1. Sample Description

Product : Air Cleaner

Brand Name : Westinghouse

Model No. : NCCO1804

No. of Sample Received : 1

Test Date : 22 Jun 2020

Test Item(s) : Pollutants Removal Efficiency

Test Requested : Ethylbenzene

Test Reference(s) : In-house method SOP200 (for VOC removal rate)

Test Equipment : Honeywell instrument ppbRAE 3000

Equipment no. : E002 - 002

Test Result : See the attached sheets

Remark : N/A

2. Detail Description of the sample





Westinghouse/ NCCO1804

Acron International Technology Limited



NCCO Reactor and HEPA



3. Testing Method of Removal Efficiency

In a 0.027m³ 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 (C₀) 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 C₆₀, 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
Westinghouse/ NCCO1804	Blue Light Mode	Ethylbenzene

Initial Concentration	Total Decay, ke	Removal Efficiency	
(ppm)	(min ⁻¹)	(%)	
104.10	0.039	91.7	

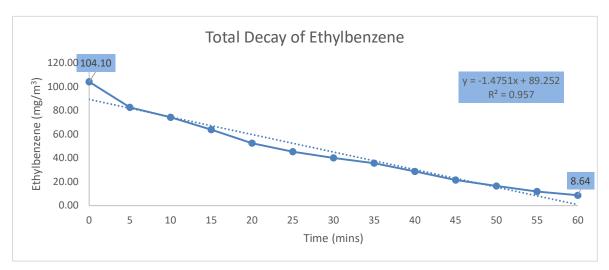


Figure a. Total Decay of Ethylbenzene

Calculation:

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

A₁: Removal Efficiency (%)

C: Concentration of testing subject (ppm)

*** End of Report ***

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