

## TEST REPORT

### CLIENT DETAILS

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 Order Number -  
 Samples Air (3)  
 Project Default Project

### LABORATORY DETAILS

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 Laboratory ENVIRONMENT, HEALTH AND SAFETY  
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 Report Number HKIEQ20-00182 R0  
 SGS Reference -  
 Date Reported 2020/12/03

### COMMENTS

### SIGNATORIES



WING YAN CHAN  
 Laboratory Executive



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Sample Number	Sample Description	Sampling Date	Test Required
HKIEQ20-00182.001	Initial	16 Oct 2020	Total Bacteria Count Total Volatile Compounds (TVOC)
HKIEQ20-00182.002	At 1 <sup>st</sup> hour		
HKIEQ20-00182.003	At 4 <sup>th</sup> hour		



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**Information**

Description of Treatment Unit (submitted by Client)

Brand Name: Airwin

Model: Pure Air Pro X

Set up of Airborne Bacteria (TBC)

- 1) Prepare a test room (approx. 20 meter) without ventilation
- 2) A sample of Total Bacteria Count is taken as initial background before the treatment unit operates
- 3) After the sample is taken, the treatment unit is turned on and left running continuously inside the test room
- 4) When the treatment time reaches 1 and 4 hours, one Total Bacteria Count sample will be taken inside the test room respectively

Set up of Total Volatile Organic Compounds (TVOC)

- 1) Prepare a test room (approx. 20 meter) without ventilation
- 2) Pollutants dosing to induce at least 6mg/m<sup>3</sup> TVOC.
- 3) One 5 mins reading of TVOC is taken as background before the treatment unit operates
- 4) After the sample is taken, the treatment unit is turned on and left running continuously inside the test room
- 5) When the treatment time reaches 1 and 4 hours, one Total Volatile Organic Compounds (TVOC) 5 mins sample will be taken inside the test room respectively

**Test Method**

Total Bacteria Count:

AOAC official method 18<sup>th</sup> ed., 2005, Method 990.12

Total Volatile Organic Compound:

ppbRAE 3000 Parts per Billion VOC Monitor



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Sample ID	Sampling Location	Sample Matrix Unit LOR	Total Bacteria Count		Total Volatile Organic Compounds (TVOC)	
			Air cfu/ml	1	Air µg/m <sup>3</sup>	-
HKIEQ20-00182.001	Initial	-	810		28000	
HKIEQ20-00182.002	At 1 <sup>st</sup> hour	-	70		2200	
		Percentage Change with Initial	-91%		-92%	
HKIEQ20-00182.003	At 4 <sup>th</sup> hour	-	40		910	
		Percentage Change with Initial	-95%		-97%	

Notes:

- 1) Sampling dates: 16 October 2020

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

FOOTNOTES

CFU Colony forming unit  
LOR Limit of Reporting

Sample analyzed as received

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### Appendix 1 – Photo of Treatment Unit as received



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