

# Timilon Corporation TEST REPORT

#### SCOPE OF WORK

Non-standardized Test Method: Microbial Reduction Rate Test

#### PRODUCT

EnviroKlenz HVAC and EnviroKlenz Air Cartridge

#### REPORT NUMBER

104371720COL-003

16-SEPT-2020

REVISED DATE

23-OCT-2020

# PAGES

5

#### DOCUMENT CONTROL NUMBER

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#### MICROBIOLOGICAL PERFORMANCE TEST REPORT

Client		TIMILON TECHNOLOGY ACQUISITIONS, LL 24301 Waldon Center Dr. Suite 101 Bonita Springs, FL 34134	
Project No.		G104371720	
Sample	Product	Air Purifier	
	Model	EnviroKlenz Mobile Air System UV Light model HVAC Filter and EnvironKlenz Filter ONLY	
	Identification No.	COL2005071145-001	
	Date Received	5/07/2020	
	Condition	New/good	
	Production or Prototype	Production	
Procedural	Engineer	Nicholas Unger	
	Reviewer	Lee Moomaw	
	Dates Tested	09/07/2020 - 09/11/2020	
	Report Date	09/16/2020	
	Test Temperature and Relative Humidity	23°C, 55%	
Standard	Non-standardized Test Method: Microbial Reduction Rate Test		

In this test the Mobile Air system was used with the HEPA filter removed, and the UV light powered off. The only filter inside the unit under test was either the standard HVAC filter or the EnviroKlenz filter. The test unit was placed in a sealed test chamber measuring 1000ft<sup>3</sup> and a microbial suspension was aspirated into the chamber. Air samples were taken from the test chamber once the unit was turned on, and then at client specified intervals over a period of 8 hours and then plated. The process was then repeated without the test unit in the chamber to provide the natural decay results. All plates were incubated overnight and viral growth on test plate was compared to that of the natural decay control.

Air sampling took place using an SKC BioStage Single-stage impactor for 30 seconds at 12L/min. Results below are for reference only.



### MICROBIOLOGICAL PERFORMANCE TEST REPORT

# EnviroKlenz Air Cartridge Only Results:

	Test Parameter	Test Result	Natural Decay Result	Units
Organism	Species	Staphyloccous Epidermidis		
928	ATCC No.	(ATCC 12228)		00.770
	Challenge Concentration	1.0 x 10 <sup>9</sup>		CFU/mL
Samples	0	TNTC	TNTC (2628)	CFU
	2 Hours	TNTC	TNTC (2628)	CFU
	4 Hours	102	TNTC (2628)	CFU
	6 Hours	44	TNTC (2628)	CFU
	8 Hours	4	TNTC (2628)	99.9%
Results		For Reference Only		Reduction

8	Test Parameter	Test Result	Natural Decay Result	Units
Organism	Species	Coliphage qX174		
25	ATCC No.	(Item # 124425)		
	Challenge Concentration	2.0 x 10 <sup>9</sup>		PFU/mL
Samples	0	TNTC	TNTC (2628)	PFU
	2 Hours	0	TNTC (2628)	99.9%
	4 Hours	0	TNTC (2628)	99.9%
	6 Hours	0	TNTC (2628)	99.9%
	8 Hours	0	TNTC (2628)	99.9%
Results		For Reference Only		Reduction

S	Test Parameter	Test Result	Natural Decay Result	Units
Organism	Species ATCC No.	E. coli #11229		Ξ
	Challenge Concentration	8.8 x 10 <sup>8</sup>		CFU/mL
Samples	0	TNTC	TNTC (2628)	CFU
	2 Hours	3	TNTC (2628)	99.9%
	4 Hours	0	102	CFU
	6 Hours	2	50	CFU
	8 Hours	0	7	CFU
Results	-	For Reference Only		Reduction

<sup>\*</sup>The log reduction was not determined after 2 hours as the organism started to die off via natural decay.



Timilon Technology Acquistions, LLC Intertek Report: No: 104371720COL-003

# MICROBIOLOGICAL PERFORMANCE TEST REPORT

Date / Project Number	Engineer / Reviewer	Pages	Description of Change
October 23, 2020 G104371720	A.Mastronicolas  AM  N.Unger	All	Change "Enviroklenz Mobile Air System — With UV Light" to "Enviroklenz HVAC and Enviroklenz Air Cartridge" Changed "HVAC FILTER ONLY" to "Enviroklenz HVAC filter results:" Added % reduction for G and 8 hours in the first chart Added % reduction for hours 4, 6 and 8 in the second chart. Added % reduction at 2 hours then added text to state the log reduction was not determined after 2 hours as the organism started to die off via natural decay. To the third chart Changed "ENVIRONKLENZE FILTER ONLY" to "Enviroklenz Air Cartridge Only Results:" Added the 8 hour % reduction to the fourth chart Listed the % reduction for 2-8 hours in the 5" chart Added % reduction at 2 hours then added text to state the log reduction was not determined after 2 hours as the organism started to die off via natural decay.

Completed by:	Nicholas Unger	Reviewed by:	Lee Moomaw
Title:	Staff Engineer	Title:	Engineering Team Lead
Signature:	Signature on File	Signature	Signature on File
Date	16-SEP-2020	Date:	16-SEP-2020