

Timilon Technology Acquisitions, LLC

TEST REPORT

SCOPE OF WORK

Non-standardized Test Method: Microbial Reduction Rate Test

PRODUCT

EnviroKlenz Mobile Air System – With UV Light

REPORT NUMBER

104371720COL-002

ISSUE DATE

31-AUG-2020

PAGES

2

DOCUMENT CONTROL NUMBER

GFT-OP-10h (6-July-2017)

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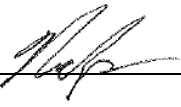
MICROBIOLOGICAL PERFORMANCE TEST REPORT

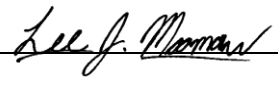
Client		TIMILON TECHNOLOGY ACQUISITIONS, LLC 24301 Waldon Center Dr. Suite 101 Bonita Springs, FL 34134
Project No.		G104371720
Sample	Product	Air Purifier
	Model	EnviroKlenz Mobile Air System – With UV Light
	Identification No.	COL2005071145-001
	Date Received	5/07/2020
	Condition	New/good
	Production or Prototype	Production
Procedural	Engineer	Nicholas Unger
	Reviewer	Lee Moomaw
	Dates Tested	08/17/2020 – 08/29/2020
	Report Date	08/31/2020
	Test Temperature and Relative Humidity	23°C, 55%
Standard	Non-standardized Test Method: Microbial Reduction Rate Test	

The test unit was placed in a sealed test chamber measuring 1000ft³ 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 2.5 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 represent the percent reduction at 2 hours.

Summary of Results:

EnviroKlenz Mobile Air System – No UV Light (2.5 Hour Reduction)			
Organism Type	Virus	Gram (-) Bacteria	Gram (+) Bacteria
Organism Name	<i>Phi-X174</i> (#124425)	<i>Escherichia coli</i> (ATCC 11229)	<i>Staphylococcus Epidermidis</i> (ATCC 12228)
Percent Reduction	99.9%	99.9%	99.9%

Completed by: Nicholas Unger
Title: Staff Engineer
Signature: 
Date: 31-AUG-2020

Reviewed by: Lee Moomaw
Title: Engineering Team Lead
Signature: 
Date: 31-AUG-2020

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Annex A Test Results:

Test Parameter		Test Result	Natural Decay Result	Units
Organism	Species	<i>Coliphage φX174</i>		---
	ATCC No.	(Item # 124425)		---
	Challenge Concentration	2.0 x 10 ⁹		PFU/mL
Samples (15min.)	0	TNTC	TNTC (2628)	PFU
	15	TNTC	TNTC (2628)	PFU
	30	TNTC	TNTC (2628)	PFU
	45	TNTC	TNTC (2628)	PFU
	60	260	TNTC (2628)	PFU
	75	105	TNTC (2628)	PFU
	90	28	TNTC (2628)	PFU
	105	6	TNTC (2628)	PFU
	120	1	TNTC (2628)	PFU
	135	0	TNTC (2628)	PFU
	150	0	TNTC (2628)	PFU
Results	--	99.9%		Reduction

Test Parameter		Test Result	Natural Decay Result	Units
Organism	Species	<i>E. coli</i>		---
	ATCC No.	#11229		---
	Challenge Concentration	8.8 x 10 ⁸		PFU/mL
Samples (15min.)	0	TNTC	TNTC (2628)	PFU
	15	TNTC	TNTC (2628)	PFU
	30	TNTC	TNTC (2628)	PFU
	45	TNTC	TNTC (2628)	PFU
	60	TNTC	TNTC (2628)	PFU
	75	TNTC	TNTC (2628)	PFU
	90	205	TNTC (2628)	PFU
	105	67	TNTC (2628)	PFU
	120	36	TNTC (2628)	PFU
	135	12	TNTC (2628)	PFU
	150	2	TNTC (2628)	PFU
Results	--	99.9%		Reduction

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Test Parameter		Test Result	Natural Decay Result	Units
Organism	Species	<i>Staphylococcus Epidermidis</i>		---
	ATCC No.	(ATCC 12228)		---
	Challenge Concentration	1.0 x 10 ⁹		PFU/mL
Samples (15min.)	0	TNTC	TNTC (2628)	PFU
	15	TNTC	TNTC (2628)	PFU
	30	TNTC	TNTC (2628)	PFU
	45	TNTC	TNTC (2628)	PFU
	60	TNTC	TNTC (2628)	PFU
	75	211	TNTC (2628)	PFU
	90	62	TNTC (2628)	PFU
	105	23	TNTC (2628)	PFU
	120	9	TNTC (2628)	PFU
	135	1	TNTC (2628)	PFU
	150	1	TNTC (2628)	PFU
Results	--	99.9%		Reduction