

# PRICE INDUSTRIES LTD.

## EFFICACY TEST REPORT

### SCOPE OF WORK

Non-standardized Test Method: Microbial Reduction Rate Test

**PRODUCT – Fan Filter Unit**

**MODEL – FFU Puraflo 24x48**

### REPORT NUMBER

104772417COL-001

### ISSUE DATE

August 30, 2021

**PAGES 4**

### DOCUMENT CONTROL NUMBER

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

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**SECTION 1 EFFICACY STUDY SUMMARY**

<b>Client</b>		<b>PRICE INDUSTRIES LTD.</b> 638 Raleigh St Winnipeg, MB R2K 3Z9 Canada
<b>Project No.</b>		G104772417
<b>Sample</b>	Product	Fan Filter Unit
	Model	FFU Puraflo 24x48
<b>Procedural</b>	Engineer	Leta Myers
	Reviewer	Nicholas Unger
	Dates Tested	8/20/21 – 8/26/21
	Report Date	8/31/21
<b>Standard</b>	Non-standardized Test Method: Microbial Reduction Rate Test	
<b>Testing Facility</b>	Intertek Microbiological Laboratory 1717 Arlingate Ln. Columbus, OH 43228 United States	

**SECTION 2 TEST PROCEDURE**

The test chamber measured 10’x10’x10’ (1000 cubic ft) room and a microbial suspension was aspirated into the chamber. Air samples were taken from the test chamber once the unit was turned on and sampling was taken every 15 minutes over a period of 2 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 the 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 (.424 cubic feet/min).

**SECTION 3 ORGANISMS**

Organism Name	Organism Type	ATCC Number	Source
Phi X174 bacteriophage	Small, non-enveloped virus	13706-B1	Carolina Bioscience
Aspergillus niger	Mold spore	6275	ATCC
Escherichia coli	Bacteria	11229	ATCC
Penicillium citrinum	Fungus	9849	ATCC

**SECTION 3 EQUIPMENT**

Equipment Type	Equipment No.	Calibration Due Date
Micropipette	CE 2587	06/30/2022
Incubator	CE 2381	7/7/2022
Balance	CE 1882	7/7/2022
Autoclave	CE 2376	Verify Before Use
Centrifuge	CE 2382	For Reference Only
Chamber	CE 1149	For Reference Only
Collision Nebulizer	CE 1139	For Reference Only
Refrigerator	CE 1157	For Reference Only
Pump	CE 1137	For Reference Only
Stopwatch	SW013	10/14/2021
Ambient Temperature/RH	CE 1179	For Reference Only

**SECTION 4 MEDIA AND REAGENTS**

Type	Manufacturer	Lot No	Expiration Date
Nutrient Agar	DIFCO	9346039	10/31/2024
Potato Dextrose Agar	DIFCO	9311217	10/31/2024
PBS	Fisher	192736	08/01/2022



**SECTION 5 SAMPLE ACQUISITION**

<b>Acquisition method</b>	Shipped to Intertek
<b>Description</b>	Fan Filter Unit
<b>Model Number</b>	FFU Puraflo 24x48
<b>Arrival date</b>	8/4/2021
<b>Condition</b>	New
<b>Sample Identification No.</b>	COL2108041323-001
<b>Development Level</b>	Production

**SECTION 6 SUMMARY OF RESULTS**



Organism Type	Virus	Mold	Fungus	Bacteria
Organism Name	<i>Phi-X174</i>	<i>A. niger</i>	<i>P. citrinum</i>	<i>E. coli</i>
Temperature Min/Max	21°C (70°F) / 21°C (70°F)		22°C (72°F)	23°C (73°F)
Humidity Min/Max	61% RH / 53% RH		50% RH	45% RH
Time to Reduction	15 Min	15 Min	15 Min	15 Min
Percent Reduction	99.9%	99.9%	99.9%	99.9%

Completed by:	Leta Myers	Reviewed by:	Nicholas Unger
Title:	Microbiology Tech I	Title:	Staff Engineer
Signature:		Signature:	
Date:	30-August-2021	Date:	30-August-2021

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