

Ref No: 1708

Date: 19.02.2020

### Microfilt Laminar Airflow Horizontal (Model: MFI H 3X2)



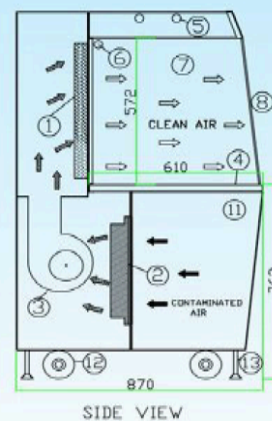
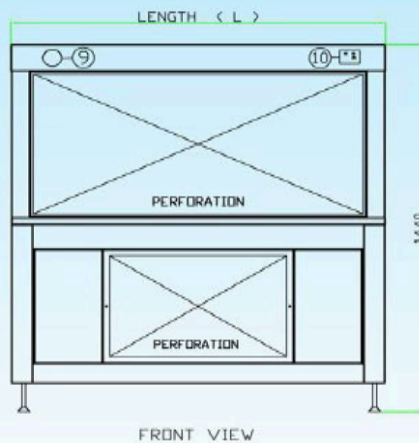
## HORIZONTAL LAMINAR FLOW



#### Working & Features of Horizontal Laminar Flow unit

The Horizontal Laminar airflow provides product protection within the work area, which is confined by removable clear glass panels and polycarbonate shutter.

- Room air is taken in from the bottom of the cabinet through a pre-filter with 90% efficiency which traps particles of 10  $\mu$  and above.
- Air is spread evenly across the HEPA filter, thereby providing a stream of clean air within the work area of the cabinet; this removes all contaminated air from the interior.
- Perforated Stainless Steel diffuser screen protects the HEPA filter and maintains uniform air flow velocity within the work area.
- Easy disassembly for access through a small door.
- Front angular 10 degree slope helps reduce operator fatigue while working on the cabinet.



No.	Description
1	Hepa Filter
2	Pre- Filter
3	Motor Blower Assembly
4	Work Table
5	Tubelights
6	Ultra Violet Tube
7	Side Glass

No.	Description
8	Polycarbonate front door
9	Minihelic Gauge
10	Electronic Switch
11	5/15 Amps Plug Point
12	Movable Wheels
13	Levelling Lugs

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<b>Model</b>	<b>MFI H 3X2</b>
<b>External Dimensions (LXWXH) in Inches &amp; MM</b>	<b>40"X 34.25"56.7" 1020 X 870 X 1440</b>
<b>Work Area Dimensions (LXWXH) in Inches &amp; MM</b>	<b>34.45"X 24"X 22.52" 857 X 610 X 572</b>

<b>Material of Construction</b>	Galvanized Iron Sheet with Epoxy Polyester Thermosetting Powder Coating of 80 microns, 1.5 mm Thickness / Stainless Steel grade 304 1.2 mm Thickness for SS Models.				
<b>Body Finish</b>	Glossy Off White Colour for GI Powder Coated / Matt grit finish for Stainless Steel 304				
<b>Table Top</b>	1.2 mm SS 304 sheet of Matt Finish pressed on 25mm Solid Nuwud Board				
<b>Side Glass</b>	6 mm Float Glass encased in Stainless Steel Channels.				
<b>Front Door</b>	Frameless Gas Spring loaded swinging type Polycarbonate 6 mm thickness				
<b>Wheels &amp; Leveling Lugs</b>	PU solid wheels with plated brackets & Metallic Powder Coated Leveling Lugs for GI Model PU solid wheels with SS 304 Brackets & Solid SS 304 Leveling Lugs For S.S. Models.				
<b>Design &amp; Classification</b>	Front Bottom Loading Pre-Filters / Complete work area will be of SS 304 including HEPA Grill, Table Top and Light Canopy Internal surface for GI models and SS models / Angled front slope of 10 degrees to reduce operator fatigue while working. As per IEST - RP - CC002.2 (Institute of Environmental Sciences and Technology - Recommended Practice -CC002.2)				
<b>Cleanliness Class</b>	ISO Standard 14644 - 1 -Class 5				
<b>Stages Of Filtration</b>	1) Pre-Filters = 10µ with an efficiency of 90% Washable HDPE media in FRP PU Coated Frame for GI models. For SS 304 models the frame will be in SS 304 2) Mini pleat HEPA Filter Encased in Aluminum Frame Final = 0.3µ with an efficiency of 99.995% (Anti-Microbial treated media) (HEPA Media : Made in Italy) *ULPA filters available on request				
<b>Motor Blower Assembly</b>	"Godrej" make variable speed motor mounted on PU coated FRP Blowers with Aluminum Powder Coated Impellers				
<b>Velocity</b>	100 FPM at 6" from face of the filter				
<b>Noise Level</b>	< 60 Db at 1 Meter from the face of the equipment				
<b>Pressure Gauge</b>	Dwyer make Minihelic gauge. Made in U.S.A				
<b>HEPA Filter Grill</b>	SS 304 grills duly perforated and polished				
<b>Electrical</b>	Switches & Speed Controller	Microprocessor Controlled Feather Touch switch panel			
	Fluorescent lighting	18 Watt - 2 nos.	18 Watt - 3 nos.	36 Watt - 2 nos.	36 Watt - 4 no.
	Chokes for lighting	18 watts - 3 nos.	18 watts - 4 nos.	36 Watt - 3 no.	36 Watt - 5 nos
	Ultra Violet Lighting	1.5 feet length G15T8 15 Watt - Philips	1.5 feet length G15T8 15 Watt - Philips	3 feet length G30T8 30 Watt - Philips	3 feet length G30T8 30 Watt - Philips
	Power Consumption	230 Watts	250 Watts	280 Watts	535 Watts
	Lighting	> than 800 lux			
	Power Supply	Single phase 5 Amps power cord, 230V, 50Hz power supply, For Model MFI H 6x2 15 Amps power cord			
<b>Accessories</b>	Gas / Vacuum Cock	Standard make - Optional			
	Gas Burner	Standard make - Optional			