PHARMA DEVILS

ENGINEERING DEPARTMENT

STANDARD OPERATING PROCEDURE		
Department: Engineering	SOP No.:	
Title: Specification of LAF/RLAF Filters	Effective Date:	
Supersedes: Nil	Review Date:	
Issue Date:	Page No.:	

1.0 Revision History

Rev. No.	Details of changes	Reason for change
00	NIL	NEW SOP

2.0 OBJECTIVE:

2.1 Objective of this SOP is to provide the Specifications of Filters to be used in LAF/RLAF units.

3.0 SCOPE:

3.1 This SOP is applicable for the provide the Specifications of Filters to be used in LAF/RLAF Units.

4.0 RESPONSIBILITY:

- **4.1** The Maintenance Engineer shall be:
 - **4.1.1** Responsible for ensuring the specification at the time of releasing of new order.
 - **4.1.2** Responsible to ensure the compliance of specifications at the time of receipt.

5.0 ACCOUNTABILITY:

Head - Engineering Services

6.0 PROCEDURE:

6.1 Following are the specifications of the filters being used for Laminar Air Flow Unit/Reverse

Laminar Air Flow unit to maintain the required cleanliness in the working zone.

6.2 LIST OF FILTERS:

6.2.1 LAF UNITS

6.2.1.1 Pre-filters

6.2.1.2 HEPA filter

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6.2.2 RLAF UNITS

6.2.2.1 Pre-filters

6.2.2.2 Intermediate filters

6.2.2.3 HEPA filters

6.2.2.4 Bleed off filters

6.3 LAF Units:

6.3.1 Intermediate filters

6.3.1.1 Filter grade : EU-7

6.3.1.2 Filter efficiency : 99.0 - 99.9 % Down to 3.0μ (Micron)

6.3.1.3 Filter media : Non woven Polyester Sandwiched in

3 layers of HDPE mesh

6.3.1.4 Filter frame : Aluminium (18 Gauge)

6.3.1.5 pressure drop in clean condition : 2.0 - 3.0 mm of w.g.

6.3.1.6 Pressure drop in saturated condition: 18.0 - 20.0 mm (Millimeter) of w.g.

6.3.1.7 Filter size : (W-24") x (B24") x (D2")

(Width, Breadth, Depth)

6.3.2 HEPA Filters:

6.3.2.1 Filter grade : EU-14

6.3.2.2 Filter efficiency : 99.999 % Down to 0.3μ

6.3.2.3 Filter media : Micro glass fiber (Minipleat) of 0.16" thickness

6.3.2.4 Filter frame : Aluminums (18 Gauge)

6.3.2.5 Pressure drop in clean condition : 7.0 - 15.0 mm of w.g.

6.3.2.6 Pressure drop in saturated condition : 45.0 - 50.0 mm of w.g.

6.3.2.7 Filter size : (W-24") x (B48") x (D3")

(Width, Breadth, Depth)

6.3.2.8 Rated Velocity : 90 fpm±20%

7.0 ANNEXURES:

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8.0 References (S)

NIL

9.0 Glossary

SOP : Standard Operating procedure

No : Number

HDPE : High Density Poly Ethylene

W.G. : Water GaugeMM : MillimeterLC : Least count

LAF : Laminar Air Flow

RLAF : Reverse Laminar Air Flow