

Laminar Airflow System



What is Laminar Air Flow (LAF)?

Laminar flow is defined as air moving at the same speed and in the same direction with no or minimal crossover of air streams or lamina. Laminar flow theatres aim to reduce the number of infective organisms in the theatre air by generating a continuous flow of bacteria free air. In laminar flow theatres air should be 'changed' in theatre minimum 20 times per hour. The fresh air component of the air change is required to be minimum 4 air changes out of total minimum 20 air changes as per NABH. The conditioned bacteria free air from AHU is passes through excellent quality HEPA Filter class 100 mounted inside LAF installed in operating area. Bacteria free air reduces the risk of during operative and post-operative infection while providing optimum comfort. The air quality at supply i.e at grill level will be class 100/ISO class 5 (at rest condition) where Class 100 means a cubic foot of air must have no more than 100 particles measuring 0.5 microns or larger.

Velocity of Air (LAF)

The airflow needs to be unidirectional and downwards on the OT table. The air face velocity of 25-35 FPM (Feet per minute) from non-aspiring unidirectional laminar flow diffuser/terminal & ceiling array is recommended.

We offer ceiling and wall mounted Laminar flow system to suit all surgical application made from materials like PCGI, SS304 or Aluminum sheet with aluminum cross-linked insulation on outer side. LAF consists of HEPA filter (High Efficiency Particulate Air) of 0.3 microns which gives 99.97% filtered air.

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