

## **YORLAB® OPERATION THEATRE CANOPY** **Model No.: YSL / YSI-192**



### Specifications:

- YORLAB O.T. Canopy is an extremely useful equipment for Operation Theaters.
- This provides an envelope of Clean Air on and around the Operating Table, Surgical Instruments, & Anesthesia Equipment.
- This air envelope is of Ultra Clean Air, filtered of all Airborne Particulate Contamination present in the Operation Theatre.
- The quality of air at HEPA Filter face meets or exceeds US Fed Std 209E.
- Stericlean O.T. Canopy also constantly re-circulates the entire operation Theatre air, resulting in an upgraded O.T., in addition to coverage of the OT Table and surroundings with prime filtered air
- O.T. Canopies have become standard installations in all Corporate Hospital Operation Theatre Major & Minor Operation Theatres, & give a host of Advantages as listed.
- Retro-Fitting for up-gradation is possible in existing

Hospitals/Nursing Homes of long standing whose Operation Theatres were constructed before the advent of this technology.

- Flush Ceiling Mounting is possible in new constructions.

### Advantages :

- Greatly reduces chance of Air borne contamination affecting the open wound during surgery.
- Considerably Increases Success Rates affected by air borne micro-organic infection, present in huge quantities even with normal Air Conditioning.
- Faster post operative recovery.
- Early Room/bed availability for next patient's procedure, due to timely discharge of first patient.
- More patient & surgeon confidence due to latest upto date OT infrastructure.
- Up-gradation of Hospital Status, resulting in increased referrals & procedures.
- Low running cost
- Long filter life due to re-circulation.

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## YORLAB<sup>®</sup> OPERATION THEATRE CANOPY

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**Features :**

**FILTRATION is Double-Stage, through:**

- i) Pre Filters of 10 micron rating to trap all coarse particulates,
- ii) HEPA (High Efficiency Particulate Air) Filters of 99.97% efficiency at 0.3 microns to trap all Bacteria/Micro-organic/Germicidal contamination. The (HEPA) Filters are DOP Tested and certified.

**Coverage:**

- The HEPA Filter coverage area is 2900x 1950mm which effectively envelopes the OT Table & the surrounding areas. However, due to slight diverging effect as the Filtered Air travels down wards, the actual coverage is even more.
- Acrylic Skirting of thick clear acrylic surrounds the HEPA Filters to direct Filtered Air over OT Table

**Lighting :**

- Peripheral Fluorescent Lighting (with Electronic Chokes) is provided all around to provide good ambient lighting when the OT Surgical Light is switched off.

**2 Air Speeds :**

- Hi for initial Purging, Normal for Procedure. Low-Noise: less than 58 dbA at ear level.

**Construction Options :**

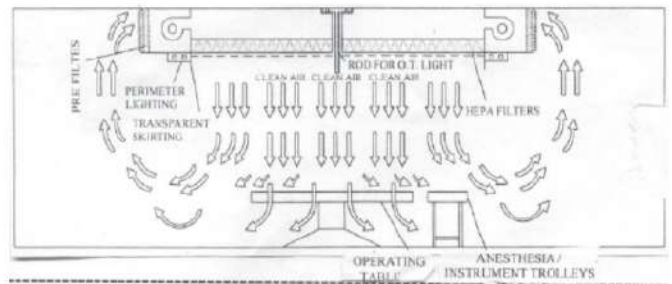
- Laminated Board / Powder Coated Mild Steel / S.Steel 304

**Optional Features :**

- UV Lighting Array of UV-C, 254nm Germicidal action, with Timer Control is available , which can be switched on prior to or in between the day's procedures.
- Ozone Lamps with Timer Control for sterilization prior to or in between the day's procedures.

**Remote Control :**

- A Remote Infra-Red On-Off Control is available.
- Electronic Filter Choke Alarm with Audio-Visual Indication. Time Counter Displays cumulative Run Time



Filter Coverage Area (app)	2900x 1950mm	External Dimns.	3900x2100mm
Laminar Airflow Velocity	Average of 0.45 m/s or 90 fpm measured 150mm / 6' from filter face.		
Air Cleanliness at HEPA Filter face	Meets US Federal Standard 209E Class 100		
Main Filters	HEPA, DOP Tested & Rated for min. 99.97% efficiency at 0.3 micron particle size		
Pre Filters	Low pressure drop. High efficiency, 10 microns.		
Noise Level	<58 dbA at ear level		
Skirt Lighting	Flourescent Lighting around HEPA Filters		
Motors/Blowers	Double shaft, Balanced, low vibration		
Air Speed selection	2 Air Speeds: i) for initial Purge & ii) for procedure		
OT Light suspension	Space provided in center for passage of OT Light rod.		
Power	220-240VAC / 50 Hz 1 Ph, 2000 W		
<b>OPTIONAL</b>			
UV Array	Emission in the germicidal band UV-C, 254 nm., with Timer Control)		
Ozone Lamps	with Timer Control		
Alarm	Electronic Filter Choke Alarm (Audio-Visual)		
Remote Control (Infra-Red)	For On-Off Control of the Canopy		
Time Counter	For Cumulative Run Time Record		