



CLEAN AIR PRODUCTS



YORCO

S A L E S P V T . L T D .



MODEL NO.: YSI-222
YSI GROSSING TABLE

These surgical pathology work stations are useful for examining surgical specimens. The contaminated air & formalin vapours from work table is sucked out by built-in blowers. Provided with lighting system, swivelled-magnifier, SS table, Sink & Hot & Cold Mixer Tap, metric rulers- 2 Nos. shelf, drawer and storage compartment above the work table as well under table, Towel ring/Tissue paper stand and waste bin, Magnetic tool bar, tea stainer,. The working area sides are made from door acrylic material. Widely used, as it is very convenient for "Grossing Work in Histopathology".

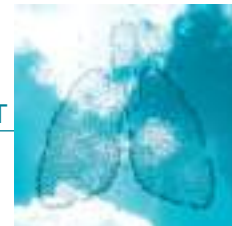
Ergonomically designed to be low to the bench. Large Sink : 400 x 300 x 165mm has rapid positive drainage Vacuum Breaker— protected cold water faucet is supplied (Optional) Hand Free faucet uses and infrared signal to activate water (also has manual override capability) Fume removal is quiet, efficient and measures less than 65 decibels.

Ventilation through duct Back draft design maximizes capture velocity across the work surface. Flat stainless steel work surfaces (Optional), 3removable perforated grid plates. Wheel chair accessible design Installation is quick and easy (Optional) Movable plexiglass splash shield protects the user from sprays and splashes while dissecting specimens.

Working Area : L x W x H 4' x 3' x 3' 6' x 3' x 3' 5' x 2.5' x 3'

Spare / Optional Accessories :

- Built in U.V. Germicidal Light .
- Exhaust duct upto 6 ft.
- Very stable, perforated and insertable working plates.
- Formalin storage & dispensing sink with sieve insert
- PE cutting table measures 400 x 500mm .
- Mike & Tape recording system.
- Automatic infra-red controlled Hot-Cold Mixer faucets (Taps).



MODEL NO.: YSI-222Ex

YSI GROSSING TABLE

-With Air Down Draft System

General:

(YSI) grossing tables are specially designed in accordance with International Standards and guarantee a Laboratory environment free of pollutants while slicing, and are even suitable for small sections. Air flow travels over the entire working area and is sucked out so as to provide optimal removal of unsanitary vapours. MAC (Maximum Allowable Concentration) values for formalin are below target throughout the entire suction covered worked area. These surgical pathology work stations are useful for examining surgical specimens. The contaminated air & formalin vapours from work table is sucked out by built-in high efficiency blowers.

Salient Features :

- Low Overall height of the upper structure increases leg room
- Stable, self-supporting under carriage with adjustable leveling screws
- Construction is of complete Body made of S.S. 304 as per GMP Std.
- Workstation has a large surface area
- Seamlessly welded basin measuring 400mm x 350mm x 165mm
- Built in U.V. Germicidal Light

- Exhaust duct flange
- Stable, perforated S.S. 304 working plate (Optional)
- Formalin dispensing tank with sieve insert (Optional)
- Poly Ethylene cutting table board (Optional)

These are provided with :

SS table, S.S. Sink, Hot-Cold Mixer taps, lighting system, swivel-magnefier, 2 Nos. metric rulers. 2 Nos shelves, storage drawer above the work table, storage compartment under the table with sliding doors, Towel ring, Tissue paper holder, and waste bin. The working area sides are made of dark acrylic

Working Area :

L	x	W	x	H
4'	x	3'	x	3'
6'	x	3'	x	3'
5'	x	2.5'	x	3'

Spare / Optional Accessories :

- Built in U.V. Germicidal Light
- Exhaust duct upto 6t.
- Very stable, perforated and insertable working plates
- Formalin storage & dispensing sink with sieve insert
- PE cutting table measures 400 x 500mm
- Mike & Tape recording system
- Automatic infra-red controlled Hot-Cold Mixer faucets (Taps)

CLEAN AIR EQUIPMENT



CLEAN AIR EQUIPMENT / SYSTEM

Clean Air Equipment/System

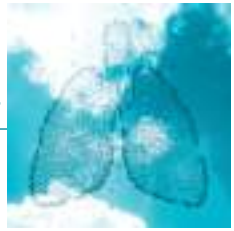
STERICLEAN Air Systems provide a very high degree of protection for processes, products & apparatus in the Laboratory & Production facilities, by maintaining Ultra Clean work environment, free from Biological & Particulate contamination, which is necessary in many critical applications in Medical, Pharmaceutical, Scientific & Electronic fields.

STERICLEAN "Clean Air Equipment" meet the Class 100 conditions of Cleanliness Level as per US Fed Standards 209 E. These are available in Horizontal flow. Vertical flow, 100% Exhaust models & Recirculatory Bio-Safety models, as well as in various other models in a wide range. These are being manufactured since over 40 years and are being widely used by a spectrum of satisfied customers in Government & Private sectors, for

Educational Research & Industrial fields. These are also being exported as per international expectation. The heart of all these equipment is High Efficiency Particulate Air (HEPA) Filters. These are of 99.97% efficiency down to 0.3 micron particle size. These are individually DOP tested on a Test Duct using DOP Generator and Particle Counter. On Site Validation is also available and is being widely done.

Our R & D Department is ever ready to provide any custom built requirement for clean air system. By our unparalleled product quality & experienced / responsive technical expertise, the most demanding contamination control customer requirements can be met.

The above activities are supported by persons having the best expertise in this field in the country.



MODEL NO.: YSI-187

STERICLEAN LAMINAR FLOW WALL MODULE

STERICLEAN offers a comprehensive range of high performance Laminar Flow Clean Air Modules, combining aesthetic appeal with functional utility and efficiency. These self standing modules provide Clean Air horizontally to specific work areas/ closed rooms for upgrading general room cleanliness level. These can also be positioned behind/ over heavy equipment. Suitable for Pharmaceutical Industries, O/T, Nursing Homes, Research Labs etc. These can be placed side to side to provide wall to wall horizontal flow of Clean Air.

These provide class 100 filter air as per US Fed STD 209E, using HEPA Filters of 99.97% efficiency down to 0.3 microns.

Construction :

All Modules are basically constructed out of pre treated, dully power coated CRC sheets Interior surfaces are epoxy painted.

Air Flow and Filtration :

Laminar Flow principle involves double filtration of air. Atmospheric air is drawn through pre filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus retaining all airborne particles of size 0.3 micron and larger. Double filtered air blows in laminarflow through the worktable at designed velocity of 90 ft. min. ± 20%.

Blower Motor Assembly :

Duly balanced, direct drive motor blower units sized to provide adequate air flow volume over the entire surface of HEPA filter. Fitted with reputed make motor and operates with minimum Noise Level lower than 65 db on 'A scale and Vibration less than 2.5 u. rms.

Power Requirement: 230 V. 1 Phase, 50 Hz, Ac Supply.

Construction Options : Full body made of S.S. 304/316



Model	WL-32	WL-42	WL-62
Hepa Area.	3' x 2'	4'x2'	6'x2'
HEPA Filter	3'x 2'x 6"	4' x 2' x 6"	3' x 2' x 6"
Hepa Filter qty.	1	1	2

Spare/Optional Accessories :

- Static Pressure Manometer.
- Built in U.V. Germicidal Light.
- Castor wheels.

CLEAN AIR EQUIPMENT

**MODEL NO.: YSI-188****STERICLEAN HORIZONTAL LAMINAR FLOW CABINET**

STERICLEAN offers a comprehensive range of high performance Horizontal, Laminar Flow Clean Air Cabinets. Modular construction, combining aesthetic appeal with functional utility and efficiency. These are designed to meet Class 100 requirements and per US Federal Standard 209 E, with in work zone.

Ideal for microbiological manipulations, sterility testing, research work & for general dry-processing work in semiconductor industry etc. Provides a comfortable 'sit down' working position for the operators.

Salient Features :

- Automatic device to switch of the air flow / Motor when door is close.
- Stand by mode (Idealing) increases filter life, avoids recleaning of working table.
- UV / Fluorescent Light inter Lock : either UV Tube will glow or Fluorescent tube will glow for the users safety.

Construction :

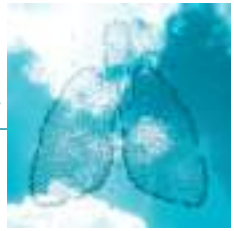
All Laminar Flow Clean Air cabinets are basically constructed out of CRC sheet duly power coated, which is termite and insect

proof, fire retardant and weather resistant. All exterior surfaces are covered with powder coating paint Interior surfaces are also epoxy painted. Work table is made of mica top / St Steel and side panels of thick transparent plexiglass.

Air Flow and Filtration : Laminar Flow principle involves double filtration of air. Atmospheric air is drawn through pre filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus retaining all airborne particles of size 0.3 micron and larger. Double filtered air blows in laminar flow through the worktable at designed velocity of 90 ft. min. \pm 20%.

Blower Motor Assembly : Duly balanced, direct drive motor blower units sized to provide adequate air flow volume over the entire surface of H EPA filter. Fitted with reputed make motor and operates with minimum Noise Level lower than 65 db on 'A scale and Vibration less than 2.5 um rms. Lighting : Work area properly illuminated by diffused, glare free fluorescent light providing 800 LUX, or as per requirement Power Requirement : 230 V 1 Phase, 50 Hz, Ac Supply.

Construction Options : (i) S.S. Table in lieu of Sunmica top. (ii) Full body made of CRC Sheet duly powder coated. (iii) Full body made of S.S. 304/316



- Fully stainless steel option shown is available for all the models.

Spare / Optional Accessories :

- Satin finish S.S. Table Top (in lieu of Formica Top)
- Transparent front door
- Static Pressure. Inclined Manometer
- Built in U.V. Germicidal light
- Cock for gas, air or vacuum line
- Cold rolled MS Sheet body duly powder coated.
- Stainless steel body duly polished.
- Particle dust count validation at site after installation.
- HEPA Filter
- Pre Filter

Available in following models :					
Model	HL-22	HL-32	HL-42	HL-62	HL-82
Working Area	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'	8'x2'x2'
Size of HEPAfilter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"	4'x2'x2"
No. of HEPA filter (Supplied with main unit)	1	1	1	2	2
No. of Pre filter (Supplied with main unit)	1	2	2	3	4
Illumination	1 x20W	1 x20W	2x40W	2x40W	4x40W

MODEL NO.: YSI-188A

STERICLEAN HORIZONTAL LAMINAR AIR FLOW CABINET

- Table Top Model
Other details specification as YSI-188

MODEL NO.: YSI-189**STERICLEAN VERTICAL
LAMINAR FLOW CABINET**

STERICLEAN offers a comprehensive range of high performance Vertical, Laminar Flow Clean Air Cabinets. Modular construction, combines aesthetic appeal with functional utility and efficiency. These are designed to meet the requirements as per US Federal Standard 209 E, providing air to meet Class 100 conditions, with work zone.

Ideal for microbiological manipulations, work with bioassays sterility testing & research work, vial filling & bunging operation in parenteral units & for general dry-processing work in semiconductor industry etc. Provides a comfortable 'sit down' working position for the operators.

Supplied complete with Sunmica Table Top, HEPA filters, Pre-Filters fully tested for PARTICLE COUNT with Standard Accessories as well as with following Salient Features:-

1. Automatic Device to switch off the air flow / Motor when door is closed.
2. Stand by Mode (Idealing) increases filter life, avoids recleaning of working table.
3. UV /Fluorescent Light inter Lock : either UV Tube will glow or Fluorescent tube will glow for the users safety.

Construction: All Laminar Flow Clean Air cabinets are basically constructed out of thick Cold rolled MS Sheet, which is termite and insect proof, fire retardant and weather resistant. All exterior surfaces are covered with powder coated paint. Interior surfaces are epoxy painted. Work table is made of mica top/St.Steel & side panels of thick transparent plexiglass.

These are also designed for very low vibration & Noise, and high illumination level. Construction Options : (i) S.S. Table in lieu of Sunmica top. (ii) Full body made of CRC Sheet duly powder coated. (iii) Full body made of S.S. 304/316.

Air Flow and Filtration : Laminar Flow principle involves double filtration of air. Atmospheric air is drawn through pre filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus retaining all airborne particles of size 0.3 micron and larger. Double filtered air blows in laminar flow through the work table at designed velocity of 90 ft. min \pm 20%.



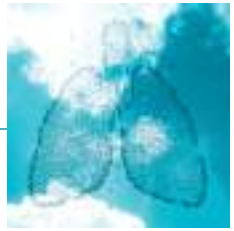
Blower Motor Assembly : Duly balanced, direct drive motor blower units sized to provide adequate air flow volume over the entire surface of HEPA filter. Fitted with reputed make motor and operates with minimum noise level i.e. lower than 65 db on scale and Vibration less than 2.5 um.

Lighting : Work area properly illuminated by diffused, glare free fluorescent light.

Power Requirement : 230 V 1 Phase, 50 Hz, Ac Supply.

Spare /optional Accessories :

- Satin finish S.S. Table Top (in lieu of Sunmica Top).
- Transparent front door.
- Static pressure inclined manometer.
- Built in UV Germicidal light.
- Cock for gas, air or vacuum line.
- Stainless Steel 304/316 body of top chamber, duly polished, available at extra cost.
- For IVF Applications - Heated table (37°C) and with Digital Temp. Controller.
- Particle dust count validation at site after installation, at extra cost.
- HEPA Filter
- Pre-Filter



Available in following models : Model	VL-22	VL-32	VL-42	VL-62	VL-82
Working Area	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'	8'x2'x2'
Size of HEPAfilter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"	4'x2'x2"
No. of H EPA filter (Supplied with main unit)	1	1	1	2	2
No. of Pre filter (Supplied with main unit)	1	2	2	3	4
Illumination	1 x 2OW	1 x 2OW	2 x40W	2 x40W	4x40W

MODEL NO.: YSI-189A

STERICLEAN VERTICAL LAMINAR FLOW CABINET

—Exhaust Model

These vertical laminar flow cabinets are provided with 100% exhaust system, suitable for exhaust duct upto 6 ft., to throw the contaminated air from the work area into the atmosphere outside the room.

A plenum is provided under the S.S. perforated working table, with exhaust system. The exhaust system works in tandem with the main air flow system. This vertical flow exhaust model is very useful for such applications where environment & personnel protection is required.

H EPA filter & virus burn out can also be provided at the exhaust. The exhaust ducting & the exhaust system for exhaust duct above 6 ft. are also available.

Optional Accessories :

- Transparent front door
- Static Pressure. Inclined Manometer
- Built in U.V. Germicidal light
- Cock for gas, air, or vacuum line.
- Exhaust system suitable for duct above 6 ft.
- Exhaust ducting.
- Cold rolled M.S. Sheet body duly powder coated, available at extra cost.
- Stainless Steel body duly polished, available at extra cost.
- Particle dust count validation at site after installation, at extra cost.



Spares Accessories :

- HEPA Filter
- Pre Filter

CLEAN AIR EQUIPMENT

MODEL NO.: YSI-190**STERICLEAN BIO-SAFETY
CABINET LAMINAR FLOW**

STERICLEAN Bio-Safety Cabinets are of international quality & are considered top-of-the-line by its very large number of regular users. A few unique features of these Cabinets are as follows:

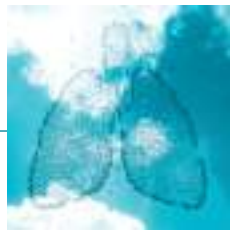
- With microprocessor controlled LCD digital display, along with magnahelic gauge.
- Half speed idling prevents contaminants entering work zone during idle periods, increases HEPA Filter life, avoids re-cleaning, saves energy.
- Door Safe Position Alarm sounds if door is raised above correct operating height.
- Gas On-Off with LED indication is electrically operated & does not disturb operator preset flow rate when shutting off gas. It also shuts off the gas & flame automatically when unit is switched off or in case of power failure, ensuring total safety.
- U.V. Light in work chamber Inter Locked with Door & Fluorescent Lights i.e. it switches ON only when door is closed, and automatically switches OFF fluorescent lights. 30 minutes Auto Off Timer is optional.
- 2-Stage Exhaust Protection :
 - I) HEPA Filters
 - ii) UV Burn out, with View window in work chamber to monitor its working.
- Sliding Sash - Counter Balanced Door for effortless operation. Motorized Door is optional.
- Negative Press System in Class II Type B3 : A Negative Pressure plenum surrounds the positive press plenum & ensure that any contaminants trying to leak out are sucked back into the system & sent back to the HEPA Filter, instead If leaking out into the environment, ensuring full safety.
- Side Capture Zones : for capturing stray contamination from entering into or escaping from the work chamber form near sides walls.
- Air Curtain on Table Front Edge : for preventing contaminants from entering into or escaping from the work chamber from table front edge.
- Spillage Drain System : Collection Channels with Drain outlet provided under the work table.
- Manometer : To monitor supply filters. Magnahelic Gauge is optional.



- Front Arm Rest is provided to prevent operator's arms from the blocking air flow, and for user comfort, along with Foot Rest.
- Electric Outlet: Provided in the work chamber for connecting any appliance.
- Sloped Front : Ergonomically design ensures better operator comfort and more reach into the Work Area.
- Work Zone Made of Stainless Steel 304 grade. Single piece sides & back wall with rounded corners to prevent trapping of contaminants in crevices and allow proper cleaning.
- Ease of Maintenance - HEPA & Pre Filters replaceable from front.
- Factor pre-installed for instant commissioning Only ducting needs to be connected at site.
- Electronic Filter Choke Alarm (optional) : An electronic Different Pressure monitor gives Audio Visual Indication of Filter chocking.
- Standard Construction Body of Cold Rolled Mild Steel, Powder Coated after 7-Tank pre-treatment. Chamber & work Table of SS 304.

Optional :

- Virus Burn Out Unit at Exhaust.
- Motorized Door, Electrically Operated, for best operator comfort.
- UV Hour Meter, to keep track of total UV used time.
- Exhaust System, for ducting length above 6 feet.
- Full Body, Chamber, and work Table of heavy S. Steel 304.



These cabinets are available in the following Class varieties.

Type	Airflow Pattern	Personal, Product & Environmental Protection.
Class-I	Front suction, exhaust through HEPA Filter	Personal, Product & Environmental Protection.
Class-II, Type A	70% re-circulated through HEPA 30% Exhaust through HEPA w/o Ducted	Personal, Product & Environmental Protection.
]Class-II, Type B	100% re-circulated through HEPA	Personal, Product Protection.
Class-II, Type B1	30% re-circulated through HEPA 70% Exhaust through HEPA Ducted	Personal, Product & Environmental Protection.
Class-II, Type B2	No-re-circulated 100% Exhaust via HEPA & Ducted	Yes
Class-II, Type B3	Same as ClassII TypeB1 but plenum under Negative Pressure w.r.t. Room	Yes
Class-III	Same as ClassII TypeB2 but with work area Access Through Glove Pots for Absolute Safety	

Preferred Class most widely used, as described in following Text. Cleanliness level in the Work Chamber meets or exceeds Class 100 level of US Fed Std 209E.

Internal & External Dimensions	YBS-22	YBS-32	YBS-42	YBS-62
Internal Work Zone LxWxH (in)	24" x 24" x 27"	36"x24"x27"	48" x 24" x 27"	72" x 24" x 27"
(approx) (mm)	610x610x685	915 x610x685	1220x610x 685	1828 x610x685
External Dimensions Lx W x H (in)	28" x 35"x 74"	42" x 35"x 74"	52" x35" x 74"	76" x 35"x 74"
(mm)	710 x 890 x1880	1070 x 890x 1880	1320x890 x 1880	1930x890x 1880

Specifications :

- Laminar Airflow Velocity : Average of 0.45 m/s or 90 fpm measured 150mm/6" filter face for 45 air charges / minute work zone
- Re-circulation : 70% of total Air Velocity
- Exhaust : 30% of total Air Velocity
- Air Cleanliness in Working Area : meets or exceeds US Federal Standard 209E Class 100
- Main & Exhaust Filters : HEPA (Minipleat Optional)
- HEPA Filters : Rated for min. 99.97% efficiency at 0.3 micron particle size
- Pre-Filters : Low pressure drop. High efficiency, 10 microns
- UV Sterilization : In work chamber & Exhaust Plenum. Emission in the germicidal band UV -Cm 254mm.
- Alarm : Door unsafe position
- Half Speed Control : For idling periods
- Noise Level : <58dBA at operator level
- Gas ON/OFF : Electrical, Flame Auto Off with power failure.
- Inter Lock : UV/ Fluorescent Lites/ Door
- Exhaust : Double protection with HEPA & UV
- Motors / Blowers : Double shaft, Balanced, low vibration
- Power : 220-240VAC / 50 Hz 1 Ph

CLEAN AIR EQUIPMENT

MODEL NO.: YSI-190Ex**STERICLEAN BIO-SAFETY
CABINET LAMINAR FLOW**

STERICLEAN YSI-190EX Bio-Safety cabinets are of highly focused design.

These are Microprocessor Controller based with LCD Display, Menu Control, automatic filter alarm system, and a large number of very useful features.

STERICLEAN is in the field of Bio-Safety, Laminar Flow & other HEPA filtered Cabinets since over 4 decades.

STERICLEAN Bio-Safety Cabinets are of international quality & are considered top-of-the-line by its very large number of regular users. A country-wide network of Service Centers provide quick & responsive Service & Support. These Cabinets are available in the following Class varieties.

YSI-190EX Microprocessor based model with LCD Display has the following Menu Controlled Features :

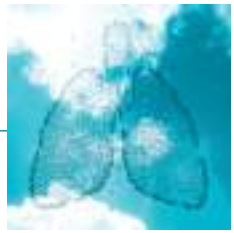
- Password (Programmable) for Authorized Operation.
- Initial Self Cleaning Cycle with programmable time.
- Real Time Clock UV Timer
- Total UV used Time Total HEPA Filter run time
- HEPA Filter Alarm after programmed hours with ON/OFF
- HEPA Filter last change date
- Audio Visual Door Unsafe Alarm, if door is at incorrect operating height
- UV/Door/Fluorescent Light Inter Lock i.e. UV switches ON only when door is closed, and automatically switches OFF fluorescent lights
- Power Socket with external control
- Service Center phone number (stored)

Unique Features :

- 2-Stage Exhaust Protection :
 - i) HEPA Filters
 - ii) UV Burn out, with View window in work chamber to monitor its working.
- Sliding Sash - Counter Balanced Door for effortless operation. Motorized Door is optional.
- Negative Press System in Class II Type B3 : A Negative Pressure plenum surrounds the positive press plenum & ensure that any contaminants trying to leak out are sucked back into the system & sent back to the H EPA Filter, instead If leaking out into the environment, ensuring full safety.
- Intelligent Blower System. Motor Blower System is designed to provide rated air flow with new filter at a lower speed. This speed is increased automatically when required due to filter chocking , to maintain the air velocity within 90 ± 20 ft/min as required under US Fed Std 209E, and considerably prolongs HEPA Filter life
- Side Capture Zones : for capturing stray contamination from



- entering into or escaping from the work chamber from near sides walls.
 - Air Curtain on Table Front Edge for preventing contaminants from entering into or escaping from the work chamber from table front edge.
 - Spillage Drain System : Collection Channels with Drain outlet provided under the work table.
 - Manometer : To monitor supply filters. Magnahelic Gauge is optional.
 - Work Zone Single piece sides & back wall with rounded corners to prevent trapping of contaminants in crevices and allow proper cleaning.
 - Sloped Front : Ergonomical design ensures better operator comfort, and more reach into the Work Area.
 - Electric Outlet : Provided in the work chamber for connecting any appliance.
 - Front Arm Rest is provided to prevent operator's arms from the blocking airflow, and for user comfort, along with Foot Rest.
 - Ease of Maintenance - HEPA & Pre Filters replaceable from front.
 - Factory pre-installed for instant commissioning Only ducting needs to be connected at site.
 - Standard Construction Body of Cold Rolled Mild Steel, Powder Coated after 7-Tank pre-treatment. Chamber & work Table of S. Steel 304.
- Spare / Optional Accessories :
- Virus Burn Out Unit at Exhaust.
 - Motorized Door, Electrically Operated, for best operator comfort.
 - UV Hour Meter, to keep track of total UV used time.
 - Exhaust System, for ducting length above 6 feet.
 - Full Body, Chamber, and work Table of heavy S. Steel 304.



These cabinets are available in the following Class varieties.

Type	Airflow Pattern	Personal, Product & Environmental Protection.
Class-I	Front suction, exhaust through HEPA Filter	Personal, Product & Environmental Protection.
Class-II, Type A	70% re-circulated through HEPA 30% Exhaust through HEPA w/o Ducted	Personal, Product & Environmental Protection.
]Class-II, Type B	100% re-circulated through HEPA	Personal, Product Protection.
Class-II, Type B1	30% re-circulated through HEPA 70% Exhaust through HEPA Ducted	Personal, Product & Environmental Protection.
Class-II, Type B2	No-re-circulated 100% Exhaust via HEPA & Ducted	Yes
Class-II, Type B3	Same as ClassII TypeB1 but plenum under Negative Pressure w.r.t. Room	Yes
Class-III	Same as ClassII TypeB2 but with work area Access Through Glove Pots for Absolute Safety	

Preferred Class most widely used, as described in following Text. Cleanliness level in the Work Chamber meets or exceeds Class 100 level of US Fed Std 209E.

Internal & External Dimensions	YBS-22	YBS-32	YBS-42	YBS-62
Internal Work Zone LxWxH (in)	24" x 24" x 27"	36"x24"x27"	48" x 24" x 27"	72" x 24" x 27"
(approx) (mm)	610x610x685	915 x610x685	1220x610x 685	1828 x610x685
External Dimensions Lx W x H (in)	28" x 35"x 74"	42" x 35"x 74"	52" x35" x 74"	76" x 35"x 74"
(mm)	710 x 890 x1880	1070 x 890x 1880	1320x890 x 1880	1930x890x 1880

Specifications :

- Micro-Controller Based : Menu Controlled with LCD Display. Refer first page for Menu functions.
- Laminar Airflow Velocity : Average of 0.45 m/s or 90 fpm measured 150mm/6" filter face for 45 air charges / minute work zone
- Re-circulation : 70% of total Air Velocity
- Exhaust : 30% of total Air Velocity
- Air Cleanliness in Working Area : meets or exceeds US Federal Standard 209E Class 100
- Main & Exhaust Filters : HEPA (Minipleat Optional)
- HEPA Filters : Rated for min. 99.97% efficiency at 0.3 micron particle size
- Pre-Filters : Low pressure drop. High efficiency, 10 microns
- UV Sterilization : In work chamber & Exhaust Plenum. Emission in the germicidal band UV -Cm 254mm.
- Alarm : Door unsafe position
- Half Speed Control : For idling periods
- Noise Level : <58dBA at operator level
- Gas ON/OFF : Electrical, Flame Auto Off with power failure.
- Inter Lock : UV/ Fluorescent Lites/ Door
- Exhaust : Double protection with HEPA & UV
- Motors / Blowers : Double shaft, Balanced, low vibration
- Power : 220-240VAC / 50 Hz 1 Ph

CLEAN AIR EQUIPMENT

MODEL NO.: YSI-191

STERICLEAN LAMINAR FLOW VERTICAL SUSPENDED MODULE

These are very versatile units which can be fixed to or suspended from the ceiling, or fixed to a wall.

These units: i) Provide a down flow envelope of Laminar flow HEPA Filtered Air over the desired work area, and ii) consistently re-circulate the room air consequently up-grading the room atmosphere also.

These are fitted provided with two stage filtration, comprising of:

- i) Pre-filter of 10 micron rating.
- ii) HEPA filter(s) of 0.3 micron rating and 99.97 efficiency.

The airflow and clean less level of the air existing the HEPA filters is as per US Fed. Std. 209B. ON/OFF Operation is with switch mounted on the cabinet. The following are available as options:

- i) Pendulum Suspended Switch.
- ii) Remote Control

Construction Options:

- Cold rolled MS Powder Coated.
- SS 304
- Laminated teak board

Standard sizes are with HEPA Filter size of 4'x2, 6x2 or combination thereof.



MODEL NO.: YSI-194

STERICLEAN GARMENT STORAGE CABINET

Self standing providing down flow Clean Air to Clean Room Garments. Highly Recommended in change rooms. Suitable for Pharmaceutical, Hospital and O/T, Electronic Industry etc. Supplied complete with HEPA & Pre filter, Motor Blower etc. Fluorescent Lighting interlocked with door, but W/O optional accessories.

Construction Options : (i) S.S. Table in lieu of Sunmica top. (ii) Full body made of CRC Sheet duly powder coated. 1-1-1 (iii) Full body made of S.S. 304/316.

Model	GC-32	GC-42
Working Area	3'x2'x5'	4'x2'x5'
Size of HEPA filter	3'x1.5'x6"	4'x1.5'x6"
No. of HEPA filter	1	1

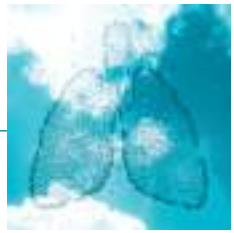
(Supplied with Pre filters)

Spare / Optional Accessories :

- Static Pressure Manometer
- Built in U.V. Germicidal Light interlocked with door



CLEAN AIR EQUIPMENT



MODEL NO.: YSI-205

STERICLEAN AUTOMATIC AIR SHOWER

This feature-Packed Air Shower scrubs-off particulate matter on the clothing of personnel entering the Clean Room with high powered high velocity jets of Clear Air from nozzles fixed on the opposite walls and ceiling. This is a robust, well built system of modular design, and is delivered pre-assembled for easy installation. Best suited for Sterile Production/Lab/Bio-Hazardous Areas, Electronic facilities. The Air Shower is considered best in the market and is PACKED with a host of features as below:

- High Air Flow : 30.5m/sec (6000fpm) through adjustable Air Nozzles on wall & Roof.
- 3-Programmes Modes : i) Full Auto, ii) Semi-Auto, iii) Manual 2-Operation Modes i) Entry only ii) Entry & Exit Selectable Modes
- Occupancy Sensor : Infra - Red detection of personnel presence inside for Auto - Start.
- Magnetic Sensors : Non-contact, door open / close detection for Reliability Auto-Operation.
- Magnetic Door Lock : The latest electric trouble-free door locks.
- Electric Logic Circuit : An application - specific Logic circuit controls the Operation.
- Door Inter Locking : Ensure only one door openable at a time. Both doors lock during operation & unlock after the cleaning cycle.
- 3-Filters :1 HEPA Filter : 0.3 micron, 99.97% efficient, DOP Tested



- 2. Pre-Filter : 10 microns, washable
- 3. Fresh Air Filter : 10 microns, keeps inside air fresh.
- Motor-Blower : Hi-Efficiency, with reserve capacity, provides
- Grated Floor : Acts as duct trap, prevents dust entry inside with Slippers.
- Service Panel : Provided both inside & Outside for quick Servicing.
- Construction : Cold Rolled M.S. Powder Coated, with Aluminium Framed Glass Door (Optional) : All Stainless Steel 304 with S.S. Framed Glass Door.
- Size (Wx Dx H) : Internal 900x900x1950mm
: External 1725x1000x2400mm
or Can be designed as per customer requirement.

CLEAN AIR EQUIPMENT

MODEL NO.: YSI-207
STERICLEAN PASS BOX

Introduction: Pass box is an equipment used normally for transfer of material from & into the clean room without contaminating the clean room air & without opening room door. The two opposite doors are interlocked & only one door can be opened at a time. Fluorescent light is automatically put ON at the time of opening any one of the doors. The doors have glass window for viewing the material kept there in.

Principle of Working: The Pass Box has two doors. One door opens in the Clean Room and other door opens in the other room. These doors are electrically interlocked so that any one door can be opened at a time. This avoids direct flow of air from the clean room to the other room or vice versa. This also obviates the need to open the Clean Room door frequently for transferring of material from & into the clean room. Thus, it helps in achieving the aim of material transfer without disturbing the cleanliness level of the clean room. High quality magnetic electric inter locks & sensors are used .

Construction: Each hinged door has wide glass viewing window, through which material kept in the pass box can be seen. Fluorescent light automatically comes when any door is opened and goes off when closed.

Size: 24" (w) x 24"(h) x 24" (D). Other sizes on request.

UV light is optional and is also interlocked with doors. It is automatically switched on only when both doors are closed. Buzzer button is provided on both sides

Power Supply : 220V, Single Phase, 50 Cycles A.C.

Size: 24"(W) x 24"(H) x 24"(D). Other sizes on request.

MODEL NO.: YSI-208
STERICLEAN PASS BOX
WITH HEPA FILTER

—Class 100 Filtered Air Material Transfer Windows

Salient Feature: It is specially designed equipment where in a HEPA filter has been provided & the motor blower unit is automatically put ON at the time of opening any of the doors. It thus act as a pressure chamber. Only clean air can enter the clean room through pass box. The clean room air is thus not contaminated by the air of pass box or with Air from the other side. Fluorescent light is provided for visibility of item kept in the pass box & it is ON at the time of opening any of the door for taking out or putting in the material in the pass box.

UV light can be optionally provided which will be put ON only on closing the door i.e. UV light will be permanently ON for sterilizing the material kept in the pass box & it will be off at time of opening the door, so that human eye is not effected by UV light.

Buzzer Switches are provided on both doors to signal for material insertion/ removal.

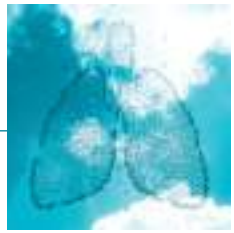
Power Requirement: 220V, 1 ph, 50 Hz AC supply.

Size: 24"(W) x 24"(H) x 24"(D). Other sizes on request.



- Fully Stainless Steel option as shown is available in these models.





MODEL NO.: YSI-209A

STERICLEAN ELECTRONIC DIFFERENTIAL PRESSURE MONITOR

Very useful for giving a visual indication and sounding an audio alarm at a pre set pressure (50-500 Pascal, 5-50 mm WG, 1 mm WG=10 Pascal). It senses the pressure & actuates the Visual & Audio alarm at the set pressure selected. It can be used for Positive as well Negative Pressures. It obviates the use of conventional Manometer, which requires use of Manometer liquid and is difficult to handle. It senses the pressure & actuates the alarm at the pressure selected. It is useful for all types of Laminar Flow Clean Air Equipment & AHU. It can be set to give alarm at the time of choking of Filter thus facilitating changing of Filter at appropriate time to avoid contamination in the contained environment in the clean air bench.



Model	Door Width	Model	Door Width
YAC-2	600 mm	YAC-3	900 mm
YAC-4	1200 mm	YAC-5	1500 mm
YAC-6	1800 mm		

MODEL NO.: YSI-200

STERICLEAN SEE-THROUGH TALK-THROUGH VOICE COMMUNICATOR

A very useful device for Clean Room applications. It help a person to communicate and see another person standing in clean room but without any contamination risk. This device works on the principle of sound vibrations. When a person stands near the voice communicator & talks through it to another person on other side, The set of see through transparent membranes vibrate & transfer the sound to the person standing on the other side. Each person can also see the other person with whom he is talking. It can be used from both sides. A buzzer can optionally be installed to signal to the person in the clean room or outside to whom one has to talk. It is very compact & aesthetically designed device and is economically priced. It uses no power or batteries.



MODEL NO.: YSI-210

STERICLEAN AIR CURTAIN

Aesthetically designed with the latest Air barrier technology. This is an ideal solution wherever transparent and abstraction air barrier/ curtain is required. Most common application areas include Air Condition Showrooms, Restaurants, Hotels, Hospitals, Computer rooms, Cinema Halls, Pharmaceuticals, and Biological & Electronic Industries. It provides an effective insulation to conserve energy by preventing temperature loss in controlled atmosphere areas and maintains a high level of cleanliness by inhibiting the movement of dust particles across it. It consists of sturdy heavy duty centrifugal blower/s balanced for vibration free operation. Construction is of CRC sheet duly powder coated and provided with clamps to mount on the wall. It gives a thick air curtain with total air flow capacity varying according to the size depicted as follows. Supplied complete with Cord & Plugs. Suitable to work on 220 V, single phase, 50Hz, AC supply.

CLEAN AIR EQUIPMENT

MODEL NO.: YSI-206**STERICLEAN CLASS 100
PRESSURING MODULE**

For providing clean air and creating positive pressure in the room thus upgrading room cleanliness level.

Air from outside the room is filtered through Pre & Hepa Filters and is thrown into the room, Easy to install & maintenance free. Suitable for O/T Nursing Home, Research Lab., Computer Rooms etc.

Supplied complete with HEPA Filter and Pre Filter built in motor, Blower etc. but W/O optional accessories.

Model	CAB-4	CAB-6
Capacity	500 cfm	1000 cfm.
Other Capacity	on request.	

Spare / Optional Accessories :

- Static Pressure Manometer

**MODEL NO.: YSI-214****STERICLEAN AIR
PURIFICATION MODULE**

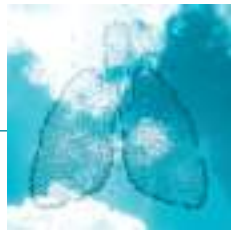
Provided with

- Dust filter
- Electrostatic precipitator - generates heavy electrostatic force to precipitate all micro-organisms & particles. Also traps carbon from CO₂, & releases O₂ free to encirch the atmosphere with more oxygen.
- Ultra violet tubes
- Activated carbon filter
- HEPA filter (0.3 micron) - Use to remove micro-organism and all other air born contaminants.

General :

- Rust proof fitted body with pre-filter, electrostatic filter, size 14"x18"x4" and activated carbon filter range with Ioniser, absorbs upto minute particles.





MODEL NO.: YSI-214Ex

STERICLEAN AIR PURIFICATION TOWER

This is a High Technology STERICLEAN Product designed to improve the air health conditions in IVF Labs & OTs. It reduces Particulates, harmful Volatile Organic Compounds (VOC's) Chemical Airborne Contaminants (CAC's) & Micro-organisms. These hi-tech equipment has as many as 9 stages for air purification.

Filtration Stage:

- Pre Filter : for course particulate of 10 microns.
- HEPA Filter : for Particulate & micro-organisms down to 0.3 microns with 99.97% efficiency, DOP Tested.
- Activated Carbon Filter : for Fumes & Odours.
- Activated Alumina Filter : for Volatile Organic Compounds (VOC's) & Chemicals Airborne Contaminants. (CAC's)
- Potassium Permanganate : for Germicidal action.
- UV Light : for destroying Organic Contaminants.
- Ozone Lamp (optional) : for Aesptesizing the Air.

- Electrostatic Precipitator : for Fine Airborne Particulate (optional).
- Negative ION Generator : for Air Freshness (optional)
- Area Coverage & Air Flow
- Effective Coverage : 400 Sq. ft. (37 sq. m)
- Max. Air Flow : 500cu. ft./min (850 cu.m./hr)
- NEPA Filter Capacity : 650 cfm, ie of 25% over rated capacity for longer life.
- Air Filtration Cycle/ Hr. : 7.5 (in 400 sq. ft x10' ht room)

Constructions:

Construction is of heavy CRCA powder coated after 7-tank pre-treatment. SS-304 is available an optional Castor Wheels & Mains Lead storage for easy mobility.

- Dimensions : 27"(W)x18"(D)x42"(H)
- : 690mm x460mm x1070mm

Standard accessory :

- Filter Choke Indicator : Continuously indicates filter choke status.

Spare / Optional Accessories :

- (1) Timers for i) Ozone shut off ii) Equipment shut off.
- (2) Digital Micro-Controller & CMSO Quartz Time with 7 days/24 Hr, Daily & Weekly setting for auto. equipment On-Off cycling.

CLEAN AIR EQUIPMENT

**MODEL NO.: YSI-192****STERICLEAN OPERATION
THEATRE CANOPY**

STERICLEAN 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

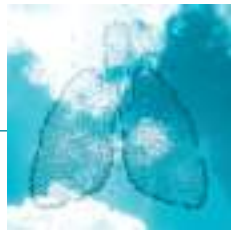
O.T. Canopies have become standard installations in all Corporate Hospital Operation Theatre Major & Minor Operation Theatres, & give a host of Advantages as listed.

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.



Features :

FILTRATION is Double-Stage, through:

- i) Filtration 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

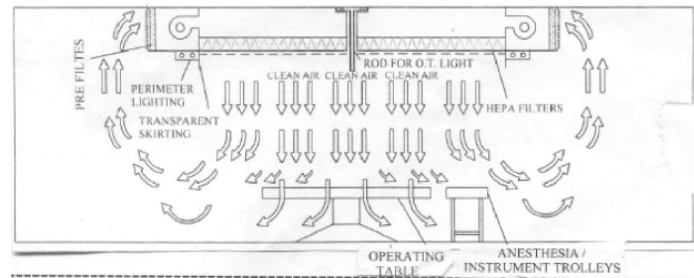
Optional Features :

UV Lighting Array of UV-C, 254 nm wavelength 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		
OPTIONAL			
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		

CLEAN AIR EQUIPMENT

MODEL NO.: YSI-225**STERICLEAN FUME HOOD**

Fume Hoods are recommended for exhaust from the hood working area, of gases, vapour, toxic particles, odour to improve working environment of people who regularly handle toxic substances. Reduces personal exposures and odour level in the laboratory.

These are designed to exhaust toxic, or otherwise harmful vapours etc., for protecting laboratory personnel & equipments. A motor-blower exhaust system (Optional) generates negative pressure within the hood, extracting the contaminated air from the work area and expelling it into the atmosphere and preventing the fumes from escaping into the room.

These are recommended for various laboratories like Bio-Chemistry, Pharmaceutical units, printed circuit etching/cleaning etc. These are capable for handling corrosive fumes of sulphuric and hydrochloric acids etc. If work-area walls are lead-lined (Optional), it can be effectively used for Radio-Isotopic applications.

Construction :-

- The main body of the fumes hood is made of FRP. The work surface (Worktable) is of stainless steel sheet. A small S.S. Sink, watertap and water outlet provided.
- A sliding door made of acrylic, moves vertically up/down with counter balanced weight operated by steel rope. Hood is provided with fluorescent light for easy working in the chamber. A metal clad socket and gas cock is also provided in the chamber. The control panel is fitted with on/off toggle switches for mains, motor-blower and tube light and mains indicator.
- Power Supply : 220V, Single Phase, 50 Cycles, AC.

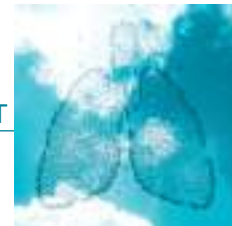


Working Area :	L	x	W	x	H
	4'	x	2'	x	2'
	6'	x	2'	x	2'
	5'	x	3'	x	2'

Other sizes on request.

Spare / Optional Accessories :

- Complete exhaust system suitable for 20 ft. duct installation.
- Fume Duct - PVC.
- Lead-Lining on work-area walls for radio - isotope application.
- F.C. mounting base with storage space and door.
- Acid resistance ceramic- tiles work surface (Work Table).



MODEL NO.: YSI-215

YSI AEROSOL DISINFECTOR

YSI Aerosol Disinfector compact model, ideally suited for fumigation decontamination of Operation Theatres, Wards in Hospitals & Nursing Homes, Pharmaceutical Labs & Production units, Animal Houses, poultry sheds, Hatcheries & Egg storages, Silk worm breeding houses in Sericulture Industries. Instantly converts liquid Formalin or ready to use disinfectant solution into true aerosol particles. Due to high aerodynamic stability the disinfectant solution droplets remain suspended in the atmosphere for longer duration and because of penetrating properly ensure nearly 100% sterile germ free and Zero -Bacteria environment. Eliminates the cumbersome process involved in the conventional method of fumigation. Can be easily operated even by a ward-boy. A single 'MULTIPUR' unit can sterilize 250 cu. mtrs about 3000 cu.ft in just 30-60 minutes. Suitable to work on 220 V, single phase, 50 Hz, AC supply. Made of Stainless Steel body in following capacities :

Trough Capacity:

- 1.5 Liters
- 3.0 Liters

Optional Accessories :

- Control Module
- Automatic Timer

MODEL NO.: YSI-241

YSI AIR PURIFICATION MODULE

YSI Humidifier is basically an Atomizing Humidifier of splash plate rotating disc type. Designed to give Relative humidity as high as upto 95 % RH in enclosed areas.

YSI Humidifier is a portable unit. Capable of atomizing upto three litres of water in an hour at full evaporation in the driest possible ambient conditions. Provided with automatic float valve assembly.

Suitable to work on 220 V, single phase, 50 Hz, Ac supply.

Capacity : 3.0 liters (S.S.body)

Optional Accessories :-

- (a) Control Box with Humidistat for controlling humidity.
- (b) Digital Microprocessor Humidity controller cum Indicator controlling & indicating Humidity in % directly.



CLEAN AIR EQUIPMENT



STERIGLEAN



CORPORATE OFFICE

YORCO SALES PVT. LTD.

Yorco Corporate Tower, Plot No.2, Gazipur, Patparganj, Delhi-110096

Tel.: 011-46202222 (100 lines), Fax : 011-46202244

Email: sales@yorco.com, Website: www.yorco.com

YORCO CUSTOMER SUPPORT CENTRES

DELHI

11, Netaji Subhash
Marg, Daryaganj, N.Delhi-02
sales@yorco.com

MUMBAI

Yorco Chamber
3A, Takwadi, Mumbai- 400002
mumbai@yorco.com

HYDERABAD

3-4-512/4/1, LIG-H34RRT,
Barkatpura, Hyderabad-04
hyderabad@yorco.com

CHENNAI

Post Box No.
Chennai- 18
chennai@yorco.com

BANGLORE

Yorco Estate, No.7,
4th Cross, Bangalore-32
blr@yorco.com

KOLKATA

Post Box No.
Kolkata- 700007
kolkata@yorco.com