



# Kaizen

AIRTECH

**KAIZEN AIRTECH SOLUTION** is the professional indoor air purification equipment design, manufacturing, installation and construction group, specialized in complete turnkey modular clean room solution for life science, health care, pharmaceutical, electronics, biotechnology, food processing industries. We have experience in customized modular clean room solution, an in depth understanding and expertise of executing turnkey HVAC, Clean room & modular OT project. Kaizen airtech solution provide project consulting, engineering, design and supply whole setup of clean room, biotechnology lab & modular OT equipment.



Our expertise and technology helps us to serve the diverse needs and challenges of various industry segments like Pharmaceutical, Biotech, Healthcare, Life Sciences Electronics & Food Processing..

# PRODUCT LIST

## 1) Modular Clean Room Project

### 2) Clean Room Equipment

Horizontal Laminar Airflow Trolley

Vertical Laminar Airflow Trolley

Ceiling Laminar Airflow Units

Garment Storage Cabinet

Biosafety Cabinet

Positive Pressure Module

Clean Room Air Shower

Air Curtain

Clean Room Transfer Hatch

Static Pass Box

Dynamic Pass Box

Air Handling Unit

## 3) Modular Operation Theater

### 4) Tissue Culture Lab Setup

Horizontal Laminar Airflow

Garment Storage Cabinet

Air Curtain

Pass Box

Air Shower

Auto cleavable PP Tray

Material Movement Trolley

Fix Type Rack

## 5) HVAC System

### 6) Environmental Test Chamber

Thermal Shock Chamber

Humidity Chamber

Cold Storage Cabinet

Hot Air Oven

## 7) Centralised Air Conditioning

### 8) Other Product

HEPA Filter

Damper

Return Air Riser

Door

Diffuser

Cross Over Bench

## HORIZONTAL LAMINAR AIR FLOW

Kaizen Airtech offer a Horizontal Laminar Flow Clean Bench blends in latest laminar flow technology and innovation to provide proven protection for your samples and processes. The new generation Horizontal Laminar Flow Clean Benches offers a wide range of options for our customers with glass side wall, sizes from 2 to 6 feet, behind the many options that the customer can select, the full range of the new Kaizen Airtech laminar flow clean benches is powered by the latest generation ultra-high efficiency motor. It now also offers ISO Class 3 (Class 100 air quality) workzone with 10x efficiency of its HEPA filters. With more choices for the customers, Kaizen Airtech laminar flow clean benches still offers the same level of product protection for your samples and processes where operator protection is not required. This model ideal for a microbiological manipulations, work with bio assays, testing and research work, tissue culture lab and semi-conductor manufacturing.



Model	BC-22	BC-32	BC-42	BC-62	BC-82
Working Area	2' x 2' X 2'	3' x 2' X 2'	4' x 2' X 2'	6' x 2' X 2'	8' x 2' X 2'
Size of HEPA Filter	2' x 2' X 6'	3' x 2' X 6'	4' x 2' X 6'	3' x 2' X 6'	4' x 2' X 2'
No. of HEPA Filter	1	1	1	2	2
No. of Pre Filter	1	2	2	3	4
Illumination	1 X 20 W	1 X 20 W	2 X 40 W	2 X 40 W	4 X 40 W

## LAMINAR FLOW CLEAN BENCHES, VERTICAL



Kaizen Airtech Solution being a leading manufacturer of clean room equipment has now given their customers. The Vertical Laminar Air Flow Unit offered by us is wide demand owing to its high-end performance and reliability. The new generation laminar flow clean benches offers a wide range of options for our customers, Even more choice to choose from a variety of models and features for their laminar flow clean bench needs. With more choices for the customers, Kaizen Airtech Solution laminar flow clean benches still offer the same level of product protection for your samples and processes where operator protection is not required.

Model	HALF 2 X 2	HALF 3 X 2	HALF 4 X 2	HALF 6 X 2
Working Area	2' x 2' X 2'	3' x 2' X 2'	4' x 2' X 2'	6' x 2' X 2'
Size of HEPA Filter	2' x 2' X 6'	3' x 2' X 6'	4' x 2' X 6'	3' x 2' X 6'
No. of HEPA Filter	1	1	2	3
No. of Pre Filter	1	1	2	3

## BIOSAFETY CABINET CLASS II A2

Kaizen Class II Biological Safety Cabinet is designed inward air flow for personal protection, HEPA filtered laminar air flow for product protection and HEPA filtered exhausted air for environmental protection within laboratories and industrial facilities. It also features stable and self-compensating airflow, despite building voltage fluctuations & filter loading. Its large performance envelope is an open declaration of possible safe operating airflow values.

Class II Biological Safety Cabinet also has an antimicrobial coating on all its external and internal painted surfaces for improved safety.

Key Benefits - Energy-Saving • Compact • Stable, self-compensating airflow • Low Noise, and Ergonomic Design

Model	VALF 2 X 2	VALF 3 X 2	VALF 4 X 2	VALF 6 X 2
Working Area	2' x 2' X 2'	3' x 2' X 2'	4' x 2' X 2'	6' x 2' X 2'
Size of HEPA Filter	2' x 2' X 6'	3' x 2' X 6'	4' x 2' X 6'	3' x 2' X 6'
No. of HEPA Filter	1	1	2	3
No. of Pre Filter	1	1	2	3



# PASS BOX

KAIZEN AIR TECH through box is designed to minimize traffic and contamination entry into the clean room. Enables parts, tools and other work items to be passed to and from the room. Unit acts as an air lock device preventing ambient air from entering, or air from exiting the clean room. The Dynamic and Static pass boxes are providing with vertical laminar airflow.

Key Benefit-

Mechanical interlocking for the doors

Swing type doors with view panels

Door open indication

Optional UV lamp

Fluorescent tube light etc.

Dynamic Pass Box



Model	KA-DPB1	KA-DPB2	KA-DPB3
Working Area	450x450x450	610x610x610	1000x1000x1000
External Dimension	590x550x1100	750x710x1250	1055x1015x1555
HEPA Filter Size	400x400x75	610x610x75	915x915x75



# DYNAMIC PASS BOX

Model	KA-SPB1	KA-SPB1	KA-SPB1
Working Area	450x450x450	610x610x610	1000x1000x1000
External Dimension	590x590x640	720x700x1080	1140x1140x1190

# POSITIVE PRESSURE MODULE



Kaizen Airtech provides positive pressure module comprises a metal box that contains fresh air quality in the clean room. Fresh air from an adjacent area is supplied to the room after HEPA filtration. This air builds a positive pressure in the room when compared to the adjacent area. As pressure module produced in various size and capacity. All module air flow ranging from 6 to 2700 m<sup>3</sup>/h. This pressure gradient prevents ingress of particles through door leaks or when the door is opened. All pressure modules are supplied with a label indicating the relevant performance.

Model Name	Dimensions (mm)	Air Flow Velocity	ISO Class
KAPPM-200	300mm x 300mm x 300mm	200 CFM	5
KAPPM-300	610mm x 610mm x 650mm	300 CFM	5
KAPPM-500	740mm x 720mm x 800mm	500 CFM	5

## AIR SHOWER



Kaizen Airtech solution provide standard and customize size air showers for demanding applications in the micro-electronics, semiconductors, pharmaceutical, spray painting, lab animal research and food markets. We offer modern features a field-programmable microprocessor control that offers the maximum application flexibility of any unit on the market.

Air Showers are specialized anti-chamber which personnel and material must pass before entering controlled environment. This self-contained chamber installed at entrances to cleanrooms and other controlled environments. They minimize particulate matter entering or exiting the clean space

Sr No	Model Name	External Dimension WXD <sub>X</sub> H	Internal Dimension WXD <sub>X</sub> H	No Of Nozzle
01	KA-ASV2	1264X1372X2946	914X1372X2134	06
01	KA-ASV4	1416X1372X2946	1067X1372X2134	12
01	KA-ASV6	1446X1829X2946	1219X1829X2134	18
01	KA-ASH2	1260X1000X2050	790X920X1930	06
01	KA-ASH2	1260X1000X2050	790X1920X1930	12
01	KA-ASH2	1260X1000X2050	790X2920X1930	18

## GARMENT STORAGE CABINET

Kaizen Airtech garment storage cabinets have a highest degree of safety for both the users and for the product. Kaizen provide premium solution to maintain cleanliness of your controlled cleanroom environment. All models are fabricated of stainless steel or pree coated GI sheet metal are available with over head HEPA filter that shower particle free air to dislodge and wash away contaminants. Kaizen Aritech garment storage cabinets are available in following configuration.

- Garment storage & adjustable shelves
- Only adjustable shelves
- Garment Storage only

The auto control releases the transfer items only after a full clean down



Model No.	Working Dimensions (mm)	External Dimensions (mm)	Electrical
KGC4	1350 x 740 x 2440	1250 x 645 x 1790	230 V,50 Hz
KGC3	900 x 600 x 1200	1000 x 700 x 1900	230 V50 Hz
KGC6	1800 x 600 x 1200	1900 x 700 x 1900	230 V,50 Hz

## MODULAR OT



We are offering entire set-up of modular operation theater that is highly demanded by our clients all across the globe. Hygiene and safety standards are key factors that are taken into consideration while fabricating these OT. Further, we also assure that we assist in offering the complete set up which is defect free and easy in handling.

## ENCLOSER

- Kaizen Airtech Modular OT Modular Panel System is specifically designed for aesthetic look and achieving project timelines while maintaining modular flexibility.
- The wall and ceiling panel can be made EGP steel panels or PUF sandwiched panel.
- The inner surface walls will be fixed to the bricks wall with essential support. The wall panel joint will be invisible after the final wall service.



## OT ROOM DOORS

Modular OT doors can be configured as single/double swing-out or as horizontal sliding either manual, automatic or semiautomatic. Single entry doors will be 900 mm wide, 2100 tall and 50 mm thick come with 300x400 mm safety viewing windows.



## HAVC SYSTEM



Kaizen Aritech is adept at designing and manufacturing up the right "Heating, Air conditioning, and Ventilation" system for your Modular OT operation in a broad diversity of manufactures. When it comes to Modular OT it's all about contaminants and environment control. The nasty "C" word lurks everywhere. Contaminants invisible to the eye can wreak havoc on product yield and integrity if not controlled. The Design, Installation, Commissioning, and Qualification of Modular OT HVAC systems are one of the top considerations in many industries, particularly for pharmaceutical & bio technology manufacturing facilities.



# MODULAR CLEAN ROOM

## MODULAR HARD WALL CLEANROOMS

Modular Cleanroom system features easy to assemble self-contained modular section that is designed to allow for future expansion. Remove and reconfigure section for a process change or completely disassemble and relocate to another facility if desired. Prefabricated Modular Hardwall Cleanrooms by design can be used as a totally freestanding self-contained room or used in combination with existing walls and require only a solid, level floor for their support.

Modular cleanroom walls are a composite construction of two skins of high-pressure plastic laminate over a white painted steel and have a center core of expanded polystyrene. Standard modular clean room panel dimensions are 1000,1250 mm (4') wide with an overall length ranging from 3 to 4,2 mt (10' to 14') and thickness of 50,80 mm (1 3/4"). Available optional panel surfaces include: Vinyl, HPL, FRP, PVC, Porcelain, and Stainless Steel. Other centre core materials are also available. The self-supporting, insulated walls are assembled with an interior aluminum framework.



## CLEAN ROOM LIGHTING



Modular clean room posts are pre-wired with 210 V duplex outlet and switches and mounted in a steel electrical box. Fluorescent gasket light fixtures are 610x1220 mm 4 tube, 120 V, less tubes with energy saving or electronic ballasts. This system is made up of pre-wired connections for light switches, 115v outlets and whips for lights and fan powered Hepas. Electrical run terminates with a "pig-tail" at the location designated by the customer and can carry up to 6 circuits to be installed in distribution electrical panels.

## CLEAN ROOM FLOORING

Epoxy is a thermosetting polymer, which is a result of a reaction that takes place between epoxide "resin" and polyamine "hardener." Epoxy is basically an adhesive with the properties as the glue that sticks things together. As mentioned earlier, epoxy is durable glue consisting of superior level of bonding properties. Epoxy floor coatings don't allow the water to stand over them and these can't be used at the places where water logging is required. Though these epoxy floor coatings can be given desired colors, shine, and durability and this is generally done by adding some compounds to the resin.



## PORTABLE CLEANROOMS



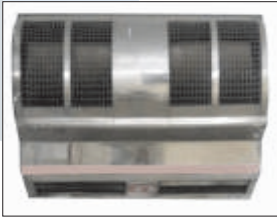
Soft wall cleanrooms provide a enclosure to clean manufacturing requirements like dust control, safety, laser or dark room and other application in electronics, medical and any other industries. Portable cleanrooms are designed for fast construction and can be easily portable, expandable, and easy to assemble/ disassemble. This type cleanroom is most economical approach, it create a class 100,000 to class 100. The prefabricated wiring system makes electrical hook up system with factory wired components and leg mounted on/ off switches for light and filter

## CONSTRUCTION

Softwall cleanroom is constructed MS powder coated tubular steel frame (minimum 16 gauge 50x100 mm) with heavy duty lockable caster wheel, easily disassembled 40 mil vinyl curtain. Standard tee grid for ceiling 8 feet and maximum span between support logs is 18'-20' without additional reinforcement.

# HVAC SYSTEM

## AIR CURTAIN



Kaizen airtech solution has been specially designed commercial establishment to maintain a dust free environment, maintain required inside temperature. By providing a silent but strong invisible barrier at the doors.

Key Benefits:

- Maintenance Free
- Energy Efficient
- Superior airflow uniformity
- Low sound level

MODEL	SPECIFICATION
KAC3	1000 MM
KAC4	1200 MM
KAC5	1500 MM
KAC6	1800 MM

## AIR HANDLING UNIT

Kaizen Airtech produces the new products based on your drawings or designs to meet your actual needs. All the dimensions and colors are up to your choice. We will keep you noted of each the steps during the production process. We offer Air Handling Unit system comprises a large insulated metal box that contains cooling, heating, humidity and air quality control element, fan blower with the motor. In Cleanroom Application air quality is most important factor to maintain required Class, AHU is the greatest source of particulate removing it installed between unfiltered air and filtered air



Model No.	Dimensions (mm)	Electrical Power Supply	Air Flow Velocity	Electrical Motor Capacity
KAHU-2	2650 x 1400 x 880	220-240 V,AC, 50 Hz, 1 ø	2000 CFM	5 Hp
KAHU-3	1265 x 1000 x 2946	220-240 V,AC, 50 Hz, 1 ø	3000 CFM	7.5 HP
KAHU-4	2330 x 2000 x 2100	220-240 V,AC, 50 Hz, 1 ø	4000 CFM	7.5HP

## AIR RISER



Kaizen Airtech Provide returns air riser for HVAC System, Centralize air condition, Modular OT and Clean Room purpose. It constructs in SS 304, MS powder coated and GI powder coated. Riser available in varying size and shape. We can also supply customize size,

Key Benefits:

- Flexibility Design
- Uniform Air Flow Velocity



## CROSS OVER BENCH

Kaizen Airtech is known offer Stainless Steel Cross over Benches like the movable table which is attractive to look and comes with durable services. We have a wide range of SS Cross over benches to suit industrial requirements, various sizes and designs to suit specific customer needs. Many of the products are available in ready stock for instant delivery commitments / or can be delivered on short notice. These are used for carrying different hospital product from one place to another. As this is thin, therefore it can fit anywhere without creating any problem.



## DAMPER



Kaizen Airtech Provides volume control damper design vertical or horizontal wall mounted. The smooth "butterfly" action of two pivoting blades provides continuous adjustment. Kaizen Airtech damper is conveniently adjusted from the room side of the diffuser. The damper is constructed with MS powder coated or GI powder coated. Usually the damper is open. When the fire occurs, the fuse plug promptly closes automatically. Manually open the damper to reset the system. Damper open rate is small when the temperature is lower, when the temperature rises, the requirement of heat radiation is high, and the damper will open large. Damper will open 100% when the temperature reaches to fully open temperature

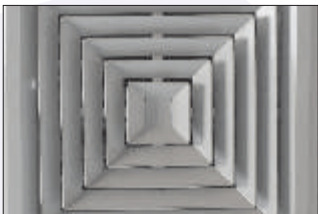
## CLEAN ROOM DOOR

Clean room door is manufactured from galvanized/stainless steel sheet with lock formed edges. Insulated and boned with honeycomb paper, mineral wool or polyurethane foam forming a rigid flush fitting with innovation flush double glazed finished in the pure polyester coating of 60-80 microns forming a smooth surface finish.



Sr. No.	Product Description	Size
1	Single	2124 x 948 x40
2	Single	2124 x 1240 x40
3	Double	2724 x 1248 x 50
4	Harmatically Shield	Frame Size 3400 x 200 2115 x 1580 x 150

## DIFFUSER



Kaizen Airtech Provides high-quality diffuser with integrated HEPA filters are designed to provide air distribution and air filtration in one terminal unit. Diffusers are available for ceiling and wall mounting. Modular construction with different, interchangeable front panel options will provide different appearance and performance characteristic. Air Diffuser as Terminal filtration for high cleanliness environment, such as electronics, pharmaceutical industries, and hospitals.

## COLD STORAGE CABINET



Kaizen Airtech Solution being a leading manufacturer in environmental test chamber provides a controlled environment for testing products. Chamber available size from small bench top boxes to big computer controlled walk-in the chamber. Cold storage provides a controlled environment for testing product, it can check product performance in constant temperature and humidity.

Model	KACSC
Mains voltage	220V, 50Hz
Temperature control range	10 ~ 90
Temperature fluctuation	± 0.5
Humidity control range	40~95%RH
Humidity fluctuation	± 2 %RH
Dimensions of the working chamber	Customise

## HOT AIR OVEN

Kaizen Airtech Solution being a leading manufacturer in cleanroom equipment has now given their customers. The Hot Air Oven offered by us is wide demand owing to its high-end performance and reliability. The new generation Hot Air Oven offers a wide range of options for our customers, Even more choice to choose from a variety of models and features for their Hot Air Oven needs. With more choices for the customers, Kaizen Airtech Solution Hot Air Oven still offers various applications in Clinical Laboratory, Pathological Laboratory, Hospitals, Pharmaceuticals, Industrial Chemicals, R & D Labs, and drying glassware and sterilizing. Hot air oven provides an efficient performance for day content analysis, chemical resistance studies, glassware drying, and dry sterilization, and also ideal for general laboratory purpose in a variety of baking, drying, conditioning, preheating, and curing applications etc.



Model No.	Chamber Size	No Of Shelves	Capacity
KHAO-1	304 X 304 X 304 mm (12" x 12" x 12")	2	28 Liter
KHAO-2	457 X 457 X 457 mm (18" x 18" x 18")	2	45 Liter
KHAO-4	457 X 457 X 457 mm (18" x 18" x 24")	4	95 Liter
KHAO-44	609 X 609 X 609 mm (24" x 24" x 24")	4	125 Liter

## HUMIDITY CHAMBER

Kaizen Airtech Solution being a leading manufacturer in environmental test chamber provides a controlled environment for testing products. Chamber available size form small bench top boxes to big computer controlled walk in chamber. Humidity chamber provide a controlled environment for testing product, it can check product performance in different temperature and humidity.



Model	KAHC
Mains voltage	220V, 50Hz
Temperature control range	10 ~ 90
Temperature fluctuation	30.5
Humidity control range	40~95% RH
Humidity fluctuation	32 % RH
Dimensions of the working chamber	Customise

## THERMAL SHOCK TEST CHAMBER



Kaizen Airtech Solution being a leading manufacturer in Thermal shock test chamber provides a controlled environment for testing products. Chamber available size form small bench top boxes to big computer controlled walk-in the chamber. The thermal Shock Testing chamber Systems are designed for compatibility with your choice of Air heating system. This provides you with the flexibility to use your existing heating chamber. Thermal testing chamber is used to test the bearing extent of the material structures and composite material in an instant and continuous high temperature and extremely low-temperature environment. that is in the shortest time to test its thermal expansion and contraction caused by the chemical change or physical harm. Each model is manufactured to standard designs, but may be custom engineered to meet a wide range of stringent test requirements. Optimal test environments require thermal chambers configured for device size, temperature range, transition speed and device access.

Model	KATSC
Mains voltage	220V, 50Hz
Ambient Temperature	0 ~ 30
Temperature fluctuation	30.2
Preheating Temperature	60 ~ 200
Precooling Temperature	subzero 10.00°C~subzero 70.00°C
H.T. Shocking	above freezing 60.00°C~150.00°C
L.T. Shocking	subzero 10.00°C~subzero 65.00°C



*Kaizen*  
AIRTECH

## WE ARE JUST GOING TO CONTROL CLEAN ENVIRONMENT.

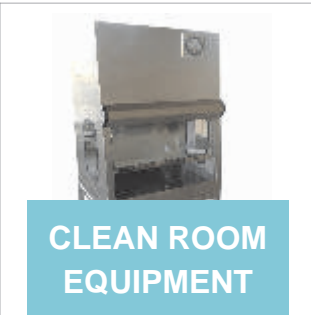
### OUR EVERY TOOL & TACTIC READY TO SUCCEED FOR YOU



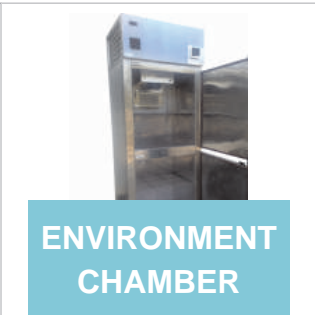
MODULAR  
CLEAN ROOM



MODULAR  
OT



CLEAN ROOM  
EQUIPMENT



ENVIRONMENT  
CHAMBER

#### OUR VISION

To be the first choice Clean room environment trusted by customers for providing customised and structured solutions with innovation & integrity.

#### OUR MISSION

Our mission is to provide innovative clean room environment solutions with personalise service exceeding the customer's expectations. We are here for our customers, partnering with them to find the best solutions for current needs and future plans, creating a peace of mind & enduring relationships.

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