




KAVS®
SPECTRONOVA
SMART SOLUTIONS, GLOBAL IMPACT

KAVS SPEC-TECH PVT LTD

ABOUT US

We are a YOUNG firm of engineers, designers, IIT-ians and strategists who come with the core strength of conceptualizing and delivering Turnkey Solutions and High end B2B projects.

We are dedicated to unique design approaches adapted to each project, and achieving a balance between functionality & aesthetics,context, climate, material, cost & time-frame.

OUR INHOUSE SERVICE CAPABILITIES - TURNKEY

Clean room panels, Cleanroom Equipment , Isolators ,Epoxy flooring, Process machineries Cleanroom Lightings

Turnkey HVAC Solutions & Process Chillers

Electricals ,Instrumentation & BMS

Project Management & Consultancy

KAVS SPECTRONOVA MANAGEMENT (INDIA / UAE DESIGN & CONSULTANCY)

FOUNDER & MD
KUNAL R DESHMUKH

DIRECTOR FINANCE MARKETING
SUCHITA D

LEAD ARCHITECT
ALEXANDRA CHRISTINA-

TECHNICAL DIRECTOR
ARVIND ASTHANA –

PROJECTS
MANCHU GOPINATH

CEO
ROHITH SHETTY

COO
RICARDO COSTA

CHIEF PROJECT MANAGER
ASHWIN HEGDE

GROUP PARTNERS

SpectroNova

KAVS®
SPECTRONOVA
SMART SOLUTIONS, GLOBAL IMPACT

ambergo INT

Vision

Our **vision** is to become a **leading project and engineering firm**, delivering a comprehensive range of services with an unwavering commitment to exceptional quality, service excellence, and cutting-edge design innovation.

Mission

Our **mission** is to solidify our position as a **market leader** by continuously innovating, delivering exceptional quality, and ensuring an unparalleled customer experience that exceeds expectations.

KAVS®
SPECTRONOVA
SMART SOLUTIONS, GLOBAL IMPACT

OUR COMPETENCE

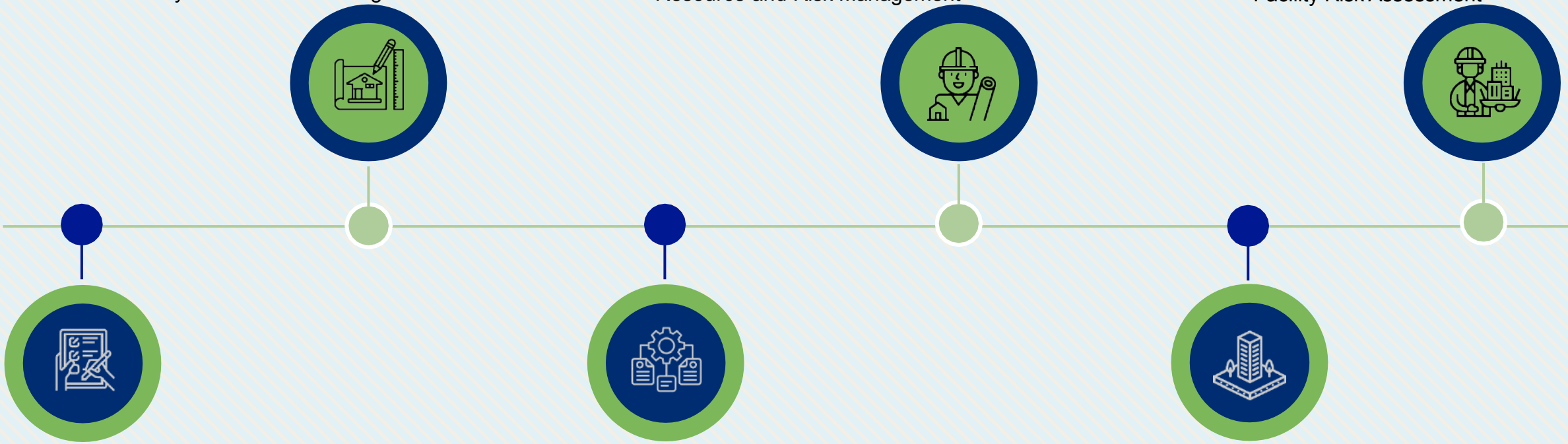
PHARMACEUTICALS	BIOPHARMACEUTICALS	LABORATORIES	PACKING & WAREHOUSING
• API	• Blood Plasma	• Animal House	• ASRS
• Bulk Chemicals	• BSL – 2, 3 & 4	• QA / QC	• Cold Rooms/ Storages
• Dry Syrup	• Fill Finish	• R&D Labs	• Fixed Racking
• Injectable	• Gene Therapy		• Movable Racking
• Liquid Syrup	• Mammalian Cell Culture		• Through-put Design
• Nutraceuticals	• Microbial Cell Culture		• Traffic Density Design
• Ointment	• Monoclonal Antibodies		• Warehouse Management
• Ophthalmic	(mAb)		System
• Probiotics	• Vaccines		
• SVP / LVP			
• Tablets & Capsules			

ADDITIONAL SERVICES WE OFFER

Design Engineering Activities
- Master Planning
- Basic Engineering
- Detailed Engineering
- System Interface Design

Project Management
- Engineering, Project and Construction Management (EPCM)
- Project Management Consultancy
- Project Integration, Scope, Time, Cost Resource and Risk Management

Commissioning, Validation& Qualification
- URS Preparation
- DQ / IQ / OQ
- FAT / SAT Process, CSV
- Impact Assessments
- Facility Risk Assessment



Pre — Project Activities
- GAP analysis
- Due diligence
- Preliminary Project Planning
- Feasibility & Concept Study

Procurement Management
- Enquiry Specifications
- Techno-commercial Bid Analysis
- Procurement Monitoring
- Stage-wise Inspection (FAT)

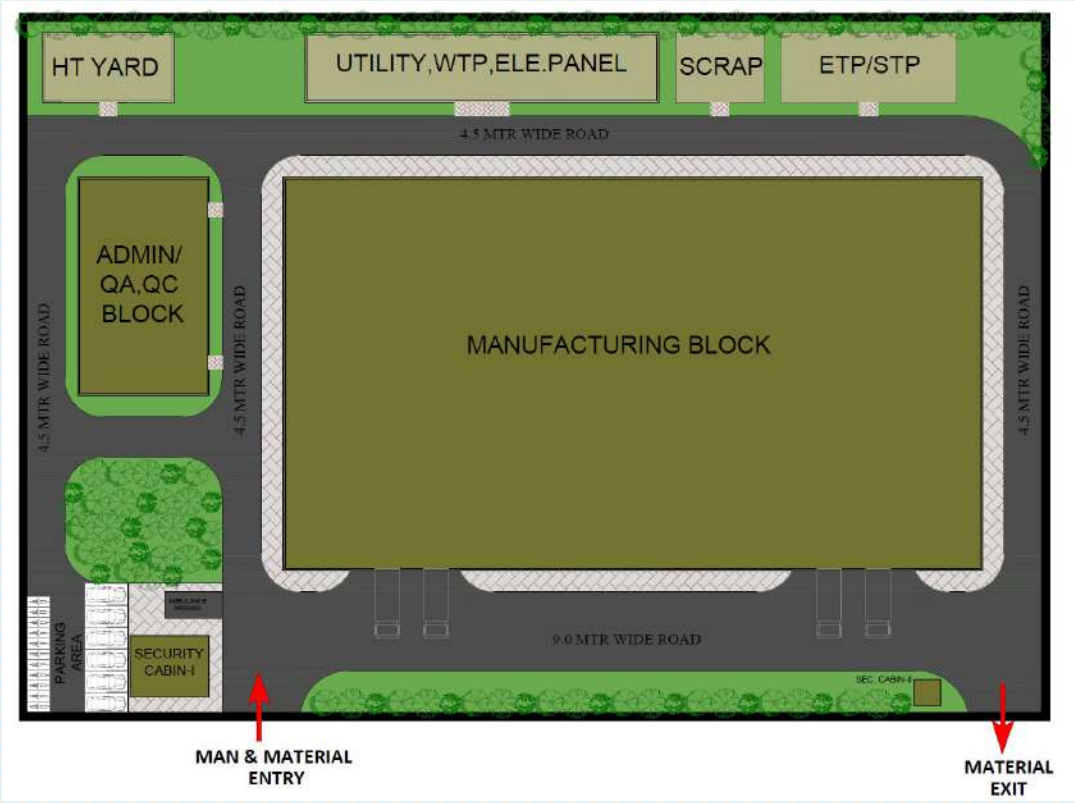
Design Visualization
- 3D Modeling of Building Equipment's & Services
- Realistic Visualization
- 3D Animation & Virtual Walkthroughs

STRONG ENGINEERING & MANUFACTURING EXPERTISE

EXPERTISE ENGINEERIGN & DESIGN TEAM OF PROFESSIONAL WITH OVER 20 YEARS OF EXPERIENCE

EXPERIENCE TEAM OF PROFESSIONALS IN PRODUCTION & MANUFACTURING FIELD

ONCOLOGY FACILITY



Product:
- OSD – 10kg / batch
- Injectable - 60 vials / minute

Structures:
- Manufacturing Block
- Utility Block

Scope:
- Feasibility & Master Planning

Location	Confidential, India
Plot Area	9360 Sq. m.
Status	Under Execution

LVP FACILITY

Product:

- LVP (500 ml / 1000 ml)

Structures:

- Manufacturing Block
- Utility Block

Scope:

- Concept Engineering
- Basic Engineering
- Detail Engineering

(Civil / Structural / Architecture / Mechanical / Electrical / HVAC)

Location	Confidential, Nigeria
Plot Area	25650 Sq. m.
Status	Under Execution

OSD & INJECTABLE FACILITY

Product:
- General - Tablet, Capsules & Injectable Line (Ampoule)
- Betalactum - Tablet, Capsules & Dry Powder Injection

Structures:
- General Block
- Admin – Betalactum Block
- Utility Block

Scope:
- Concept Engineering
- Basic Engineering
- Detail Engineering

(Civil / Structural / Architecture / Mechanical)

Location	Confidential,Africa
Plot Area	22415 Sq. m.
Status	Under Execution

EXECUTED PROJECTS- PHARMA & COLDROOMS

Narsimha Murthy Cold Storage, Bangalore

GENERAL HOSPITAL PROJECTS

01

New Al Ain Hospital - UAE

Project type:

General tertiary hospital – 886 Beds

Scope of services:

. Clinical programming

. Healthcare compliance

. Medical equipment planning

. Feasibility peer review

. Authority liaison

Client: Seha/ HAAD

03

Aster Hospital - Doha, Qatar

Project Type:

. General tertiary hospital

. 124 Beds

Scope of Services:

. Clinical Programming

. Architectural & Facade Design

. Interior Design

. Project Management & Site Supervision

Client: Aster Group, Dubai - UAE

02

DHA Outpatients Clinic - UAE

Project type:

Outpatients Clinic Building

Scope of Services:

. Design and Construction

Client: Dubai Health Authority

04

Project Health is Wealth - Qatar

Project Type:

. IVF Facility

. Day Surgery Hospital

Scope of Services:

. Clinical Programming

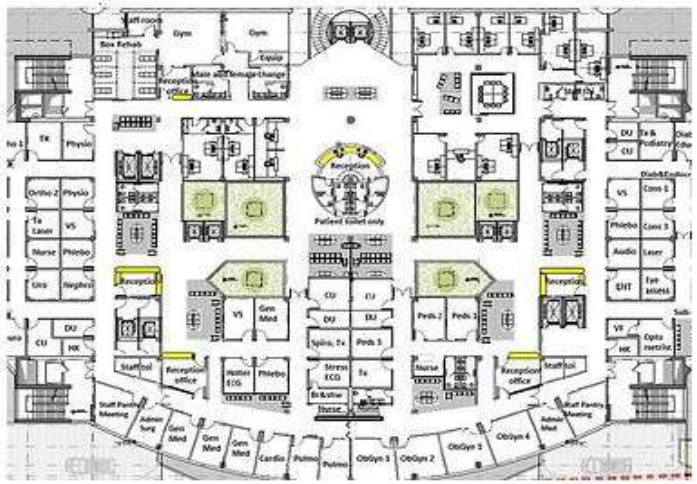
. Healthcare Compliance

. Interior Design

. Project Management & Supervision

Client: Al Fardan Group - Qatar

GENERAL HOSPITAL PROJECTS



05

Al Madina Hospital - Oman

Project Type:

. General tertiary hospital

. 64 Beds

Scope of Services:

. Clinical Programming

. Facility right-sizing

. Interior Design

. Concept Design

Client: Private

06

Aster Hospital - Abu Dhabi, UAE

Project Type:

. General tertiary hospital

. 114 Beds

Scope of Services:

. Clinical Programming

. Architectural & Facade Design

. Interior Design

. Project Management & Supervision

Client: Aster Group, Dubai - UAE

07

Zulekha Hospital Expansion - UAE

Project Type:

. General tertiary hospital

. 140 Beds

Scope of Services:

. Clinical Programming

. Facility right-sizing

. Medical MEP Planning

. Medical Equipment Planning

. Project Supervision

Client: Zulekha Group - UAE

SPECIFIC PROJECTS - IVF

AL FArdan IVF, QAtar

DR AMAL IVF, DUBAI

BOURNHALL IVF , DUBAI

HEALTH PLUS IVF CENTER , ABU DHABI

CASE STUDIES – VARIOUS PROJECTS

EXPERTISE ENGINEERING & DESIGN TEAM OF PROFESSIONAL WITH OVER 20 YEARS+ OF EXPERIENCE

TEAM KAVS SPECTRONOVA TECHNOLOGIES PVT LTD

1. CASE STUDY CONTAINMENT FACILITY DESIGN & EXECUTION FOR INTAS PHARMACEUTICALS

- **Project Overview**

Intas Pharmaceuticals required a state-of-the-art containment facility to handle highly potent active pharmaceutical ingredients (HPAPIs) safely while maintaining strict compliance with global regulatory standards. The project demanded an integrated solution encompassing facility design, engineering, manufacturing, and execution, ensuring operator safety, product integrity, and environmental protection.

Scope of Work

KAVS SPECTRONOVA was responsible for:

- Containment Facility Design & Engineering for HPAPI handling
- Specialized HVAC & Airflow Control Systems ensuring negative pressure containment
- Modular Cleanroom Manufacturing & Installation with high-containment panels
- Integration of Isolators & Barrier Technology for operator safety
- Advanced BMS & Automation for environmental monitoring and control

...CONTAINMENT FACILITY DESIGN & EXECUTION FOR INTAS PHARMACEUTICALS

Execution & Challenges

1. Precision Containment Design for HPAPI Handling

• Engineered low-leakage containment barriers to prevent cross-contamination.

• Designed negative pressure cascades with real-time pressure monitoring.

2. Advanced HVAC & Airflow Control

• Installed customized HVAC with HEPA filtration ensuring safe air exchange rates.

• Integrated pressure differential control for dust containment.

3. Cleanroom & Equipment Integration

• Developed modular containment cleanrooms with seamless wall-to-floor transitions.

• Installed isolators and closed-system handling to ensure operator safety.

4. Compliance & Validation Support

• Ensured compliance with USFDA, EU GMP, and other international regulatory standards.

• Conducted validation and environmental monitoring to confirm containment effectiveness.

Impact & Outcome

✔ Fully Functional High-Containment Facility Delivered

✔ Enhanced Operator Safety with isolator-based handling systems

✔ Regulatory Compliance Achieved for global HPAPI production

✔ Sustainable & Scalable Design for future capacity expansion

Conclusion

KAVS SPECTRONOVA successfully delivered a turnkey containment facility for Intas Pharmaceuticals, ensuring high-level operator safety, regulatory compliance, and operational efficiency. Our expertise in high-containment facility design and execution positioned Intas for safe and compliant HPAPI manufacturing.

2. RAPID USFDA COMPLIANCE FACILITY UPGRADE FOR MERCK LIFESCIENCE PVT LTD

PROJECT TIMELINES – 4 MONTHS

PROJECT OVERVIEW

Merck Life Science Pvt. Ltd., a leading pharmaceutical company, aimed to upgrade its facility to meet USFDA (United States Food and Drug Administration) standards within an aggressive 4-month timeline.

The challenge was to redesign the process layout, upgrade critical infrastructure, and ensure compliance with stringent USFDA regulations—without disrupting ongoing operations.

SCOPE OF WORK

KAVS SPECTRONOVA was selected as the turnkey solution provider, responsible for:

- Process Layout Redesign to optimize workflow and compliance
- Plant Redevelopment including structural modifications and cleanroom upgrades
- HVAC System Upgrade ensuring regulatory-grade environmental control
- Electrical & BMS (Building Management System) Installation for real-time monitoring
- Supply and Installation of Panels & Centralized Machineries for seamless operations

...RAPID USFDA COMPLIANCE FACILITY UPGRADE FOR MERCK LIFESCIENCE PVT LTD

Execution & Challenges

1. Rapid Turnaround with Precision Engineering

• Our team completed the entire redevelopment in record time while ensuring zero compromise on quality.

• Detailed process mapping and risk assessment enabled efficient execution without operational downtime.

2. USFDA Compliance Integration

• GMP-compliant HVAC systems were installed to maintain classified cleanroom environments.

• Automated BMS was implemented for real-time monitoring of temperature, humidity, and pressure differentials.

• Electrical and control panels were upgraded to meet global safety and compliance norms.

3. Seamless Coordination & Execution

• Close collaboration with Merck's quality and compliance teams ensured that every upgrade met USFDA inspection criteria.

• Simultaneous execution of multiple workstreams minimized disruptions and accelerated project completion.

Impact & Outcome

✔ USFDA Approval Achieved within the stipulated timeframe

✔ Facility Efficiency Improved with optimized process flow and automation

✔ Enhanced Compliance & Safety through advanced BMS and HVAC solutions

✔ Production Capacity Boosted with state-of-the-art centralized machinery

Conclusion

KAVS SPECTRONOVA played a pivotal role in transforming Merck Life Science's facility into a fully compliant USFDA-approved unit in record time. This project demonstrated our expertise in executing high-stakes, time-sensitive pharmaceutical facility upgrades, reinforcing our reputation as a trusted partner for regulatory-compliant infrastructure solutions.

3.USFDA COMPLAINCE RECOVERY FOR LIVA PHARMACEUTICALS

PROJECT TIMELINES – ROOT CAUSE ANALYSIS, WATER SYSTEM OVERHAUL , UDAF HVAC FOR INJECTABLE LINE AND CLEANROOM UPGRADE

PROJECT OVER VIEW

Liva Pharmaceuticals faced a USFDA compliance failure due to contamination issues, specifically the presence of Pseudomonas bacteria in the facility's water system. This posed a major risk to product integrity and patient safety, leading to regulatory scrutiny and operational setbacks.

To regain compliance and prevent future occurrences, Liva Pharmaceuticals engaged **KAVS SPECTRONOVA** to conduct a detailed root cause analysis and implement a comprehensive water system and cleanroom upgrade.

SCOPE OF WORK

KAVS SPECTRONOVA was responsible for:

- Root Cause Investigation to trace contamination sources
- Complete Water System Overhaul to eliminate microbial risks
- Ultra-Dispersed Airflow (UDAF) HVAC System for contamination control
- Cleanroom Redesign & Upgrade to meet USFDA and GMP standards

...USFDA COMPLAINCE RECOVERY FOR LIVA PHARMACEUTICALS

Execution & Challenges

1. Root Cause Analysis & Contamination Elimination

• Conducted a detailed microbial assessment of the water system.

• Identified Pseudomonas contamination in specific pipelines and storage areas.

2. Water System Overhaul

• Replaced the entire purified water system with an advanced sanitized loop system.

• Installed automated monitoring and disinfection to prevent microbial regrowth.

3. Cleanroom & HVAC Upgrades

• Implemented a UDAF-based HVAC system ensuring a unidirectional airflow to control airborne contamination.

• Designed and installed new cleanroom panels, filtration systems, and environmental controls for compliance.

Impact & Outcome

✔ USFDA Compliance Restored with contamination risks eliminated

✔ Enhanced Water Purity & Safety through a redesigned sanitized loop system

✔ Cleanroom & HVAC Upgraded for long-term regulatory compliance

✔ Operational Stability Achieved with robust contamination control measures

Conclusion

KAVS Spectronova played a critical role in Liva Pharmaceuticals' compliance recovery, addressing waterborne contamination at its root and implementing long-term preventive solutions. Our expertise in pharmaceutical infrastructure, water system design, and cleanroom execution ensured that Liva regained USFDA approval and strengthened its commitment to quality and safety.

4. 10000 SQFT FACILITY DESIGN FOR PRODUCT CHANGE OVER

PROJECT – CONFIDENTIAL

PROJECT OVERVIEW

A leading pharmaceutical manufacturer planned to introduce a new product line requiring a complete facility transformation to meet stringent regulatory and operational requirements. The client engaged KAVS Spectronova as a turnkey partner to provide design consultancy, manufacturing, and execution for a state-of-the-art 10,000 sq. ft. cleanroom within an operational facility.

SCOPE OF WORK

KAVS SPECTRONOVA was responsible for:

- Facility Design & Engineering tailored to the new product's regulatory and process requirements
- End-to-End Cleanroom Execution including HVAC, electrical, and structural upgrades
- Modular Panel Installation to ensure flexibility and scalability
- Integration of Centralized Utilities & BMS for real-time monitoring and control

...10000 SQFT FACILITY DESIGN FOR PRODUCT CHANGE OVER

Execution & Challenges

1. Customized Cleanroom Design for Product Changeover

• Designed a fully compliant ISO-classified cleanroom with a seamless workflow for the new product.

• Ensured optimal air handling, pressure differentials, and contamination control for product integrity.

2. Facility Upgrade & Seamless Execution

• Delivered HVAC, modular partitions, and utility integration with minimal downtime.

• BMS & electrical automation were implemented for energy efficiency and operational control.

3. Regulatory & Compliance Assurance

• The facility was designed and built to comply with global GMP and regulatory standards.

• Close coordination with the client's validation team ensured a smooth qualification process.

Impact & Outcome

✔ Rapid Facility Transformation with minimal disruption to ongoing operations

✔ Regulatory-Grade Cleanroom Delivered ensuring seamless product changeover

✔ Optimized Workflow & Efficiency through smart design and automation

✔ Scalable & Future-Ready Facility adaptable for future expansions

Conclusion

KAVS SPECTRONOVA successfully executed a highly specialized 10,000 sq. ft. cleanroom project, enabling the client's smooth product transition while ensuring compliance, efficiency, and scalability. This project reinforced our expertise in customized cleanroom solutions for pharmaceutical manufacturing.

CLEANROOM PROJECTS

CLEANROOM HVAC PROJECTS

EXECUTED TURNKEY PROJECT

AIR HANDLING UNIT

LAB FURNITURE SET UP

DISPENSING BOOTH

CLEANROOMS AND EQUIPMENT

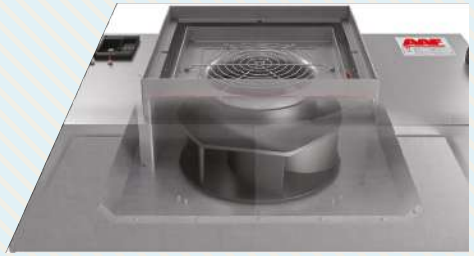
EXECUTED STAINLESS STEEL FURNITURE

LABORATORY SET UP

MOBILE LOCKER COMPACTOR

Mobile Compactor System is based on the same components as a stack system. Mounted onto light or heavy duty base units which can be moved in parallel direct on to each other, the system only requires one aisle to provide access to all items in stock

HEALTHCARE FACILITIES



HVAC

- Hygienic AHU
- FAHU/AHU
- Ducting
- Isolation Room Preparation
- Clean Room Preparation

Control

- Mobile Filtration Units
- HVAC Filters
- VAV's
- Disinfection agents

Commissioning

- Room Air Quality
- Particle Counting
- Air Flow/Velocity
- Room Differential Pressure
- Temperature & Humidity

24h Monitoring

- Room Pressure Display
- Particle Counters
- IAQ Monitor
- Filter Status system

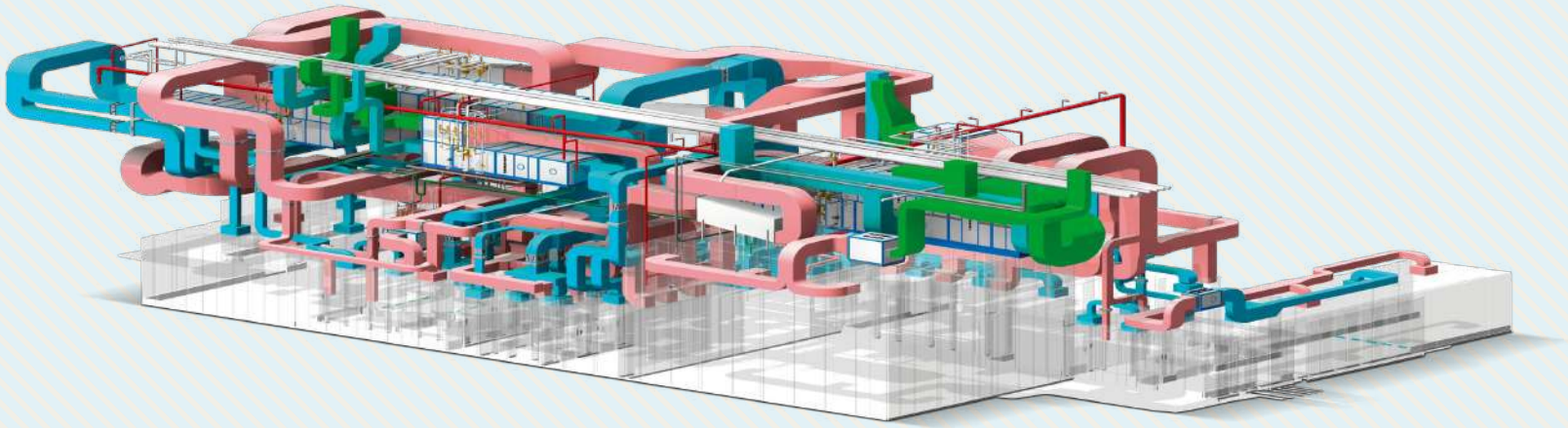
Service Contract

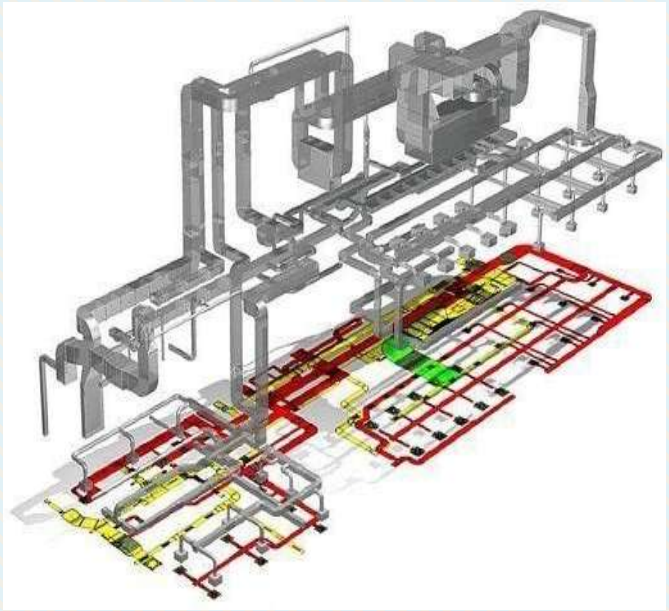
- Filter check / Replacemen
- Monitoring reports
- HVAC Balancing
- Room Validation
- Room Pressure Display calibration

HVAC SYSTEM:

DESIGN – BUILD – MANUFACTURE - SOFTWARES

HVAC design expertise





STAAD.Pro

Ps

3 3ds Max

Conceptual design:
Transforming your URS into functional and detailed design

Implementation :
Our team will balance operational requirements, workflow optimization, running costs and building regulations

AUTODESK Revit 2023

AUTODESK AutoCAD

Project

AUTODESK
REVIT

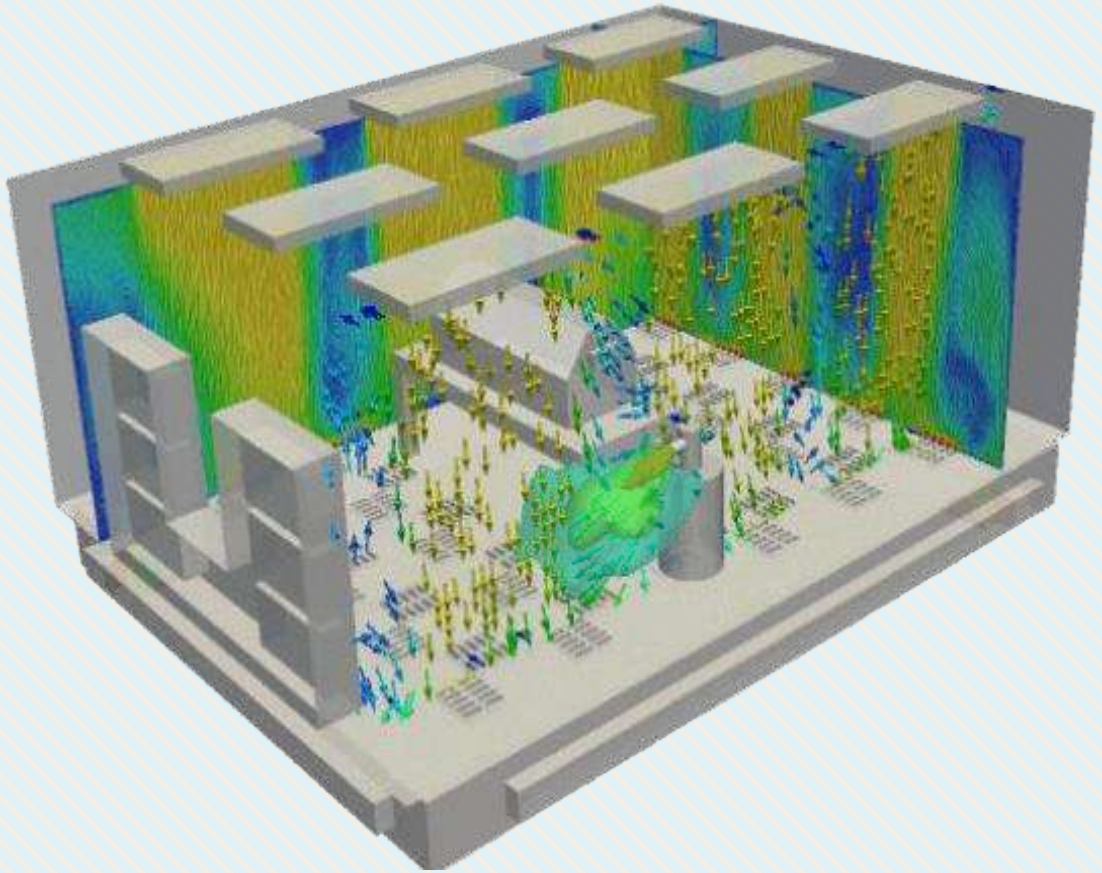
Using Autodesk BIM

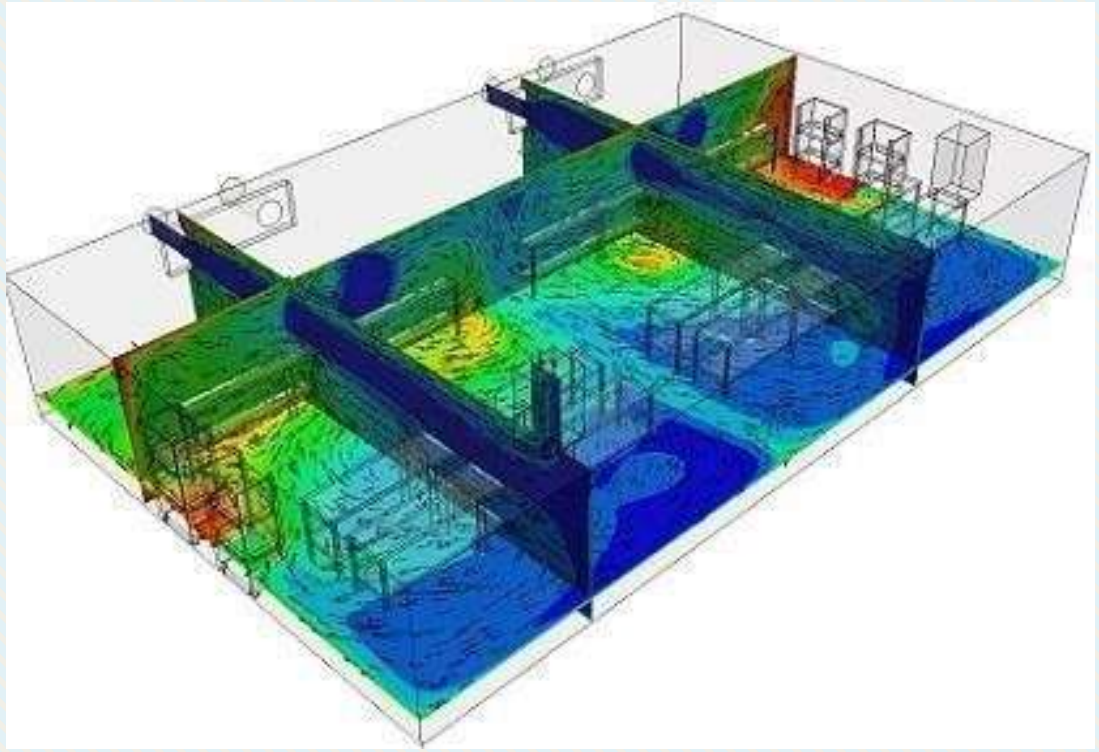
We 3D scan the environment of our client's facilities and carry out the clash detection to verify that the proposed cleanroom design operates inline with the planned process and its surrounding environment.

AIRFLOW MODELLING:

Used to demonstrate air-flow patterns to check contamination risk, leakage rates, oxygen requirements, exhaust volume and speed air inflow are calculated and balanced to ensure exact requirements are delivered calculations and modelling to determine the quantity of Fan Filter Units (FFU) required in a GMP facility.

AUTODESK CFD





hydra |pro

34

sizes

2

models

- Application – air conditioning of indoor swimming pools
- Maximal utilization of waste air energy

Air flow

from 800 m³/h

to 5.700 m³/h

- Great energy saving; economical operation
- Double plate heat exchanger
- Plug and Play device

Air flow

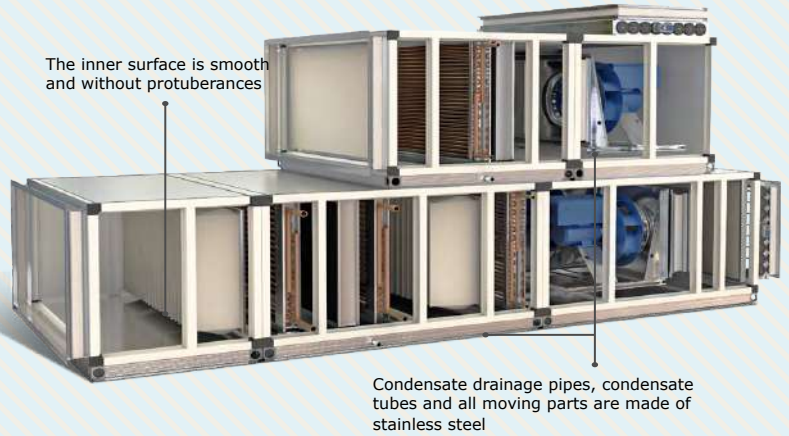
from 1.200 m³/h

to 37.000 m³/h

hygiene |pro

30

sizes



- Application – operating rooms, laboratories, pharmaceutical production facilities, food, military or electronics industries…
- In conformity with GMP, FDA and HACCAP

- Prevention of space contamination
- All elements are easily approachable for washing and disinfection
- Formation of undesirable microorganisms is prevented

Air flow

from 1.000 m³/h to 100.000 m³/h

In house manufacturing capabilities to execute HVAC projects using high tech machineries.

TYPES OF CLEANROOM EQUIPMENT

1. Pass Box – Static & Dynamic .
2. Laminar Air Flow Unit (Ceiling Suspended).
3. Laminar Air Flow Unit (Stand Mounted).
4. Horizontal Laminar Flow Unit .
5. Sampling / Dispensing Booth .
6. Bio-safety Cabinets.
7. Dynamic Garment Storage Cabinet-
8. Mobile Trolley .
9. Air Shower.
10. Mist Shower.
11. De-dusting Booth
12. Online Sampling Booth .

STATIC PASSBOX

❖ **Static Pass Box**

Static Pass box is usually in transfer between the same Classified Room. This Pass box is Two type – wall Mounted (Where Material Sizes Are Small ,E.g-Sachet ,Pouch etc) Another is Floor Mounted (Where Trolley Movement is there.)

- **Heart of System:**

a) MOC – SS 304 /316
b) Thickness – As per the Requirement .
c) SS 304 Double wall Construction , SS Hinges , SS Handle , Double Glaze View Panel.
d) Electro-Magnet Interlock- which ensure one Door will open at a time .
e) LED Light –Min 250 Lux.
f) U.V Light – Germicidal UV Light (Wavelength-280-100nm).
g) Micro Processor – Unit Will run through Microprocessor Password Based System And Having the Protection Standards IP 65.Also Feature with Door Lock , Unlock , Light on-off
h) Power Supply -230V AC , 1Ø, 50hz

DYNAMIC PASSBOX

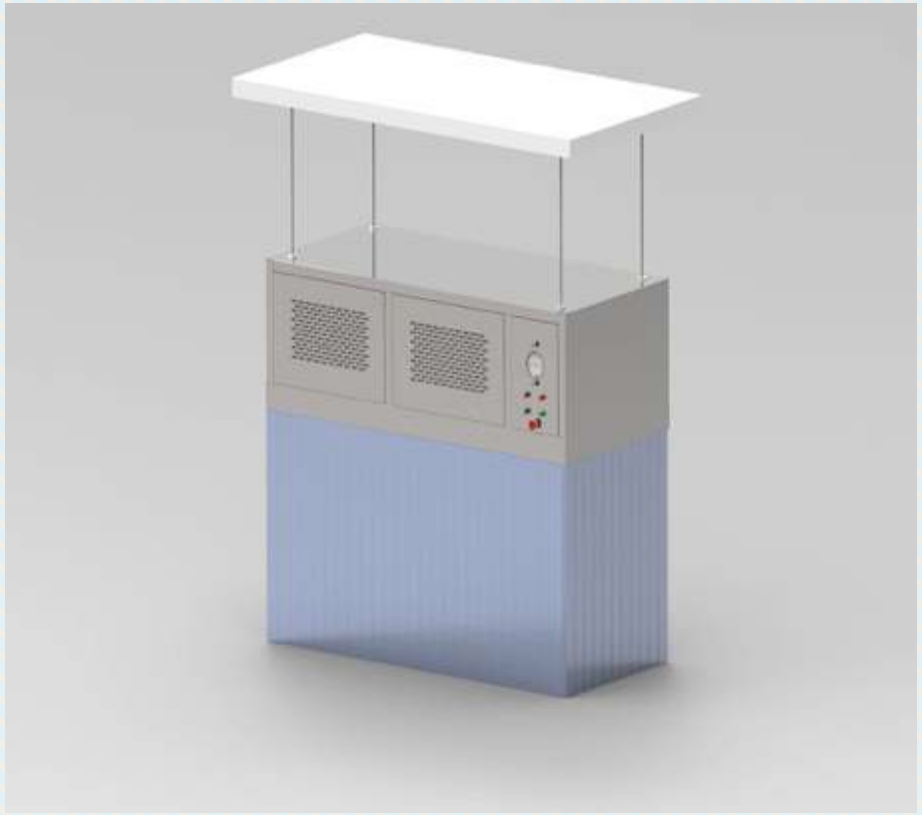
Dynamic Pass box is usually in transfer between the different Classified Room. This Pass box is Two type – wall Mounted (Where Material Sizes Are Small ,E.g- Sachet ,Pouch etc) another is Floor Mounted (Where Trolley Movement is there.)

- **Heart of System:**
- MOC – SS 304 /316
- Thickness – As per the Requirement .
- SS 304 Double wall Construction , SS Hinges , SS Handle , Double Glaze View Panel.
- Electro-Magnet Interlock - which ensure one Door will open at a time.
- Motor Blower – Kruger , ROSENBERG AC/EC , Dynamic
- HEPA – Gasket Type , GEL Seal Filter .
- PAO – PAO at Upstream HEPA Filter .
- Pressure Gauge – Analog / Digital
- Air Flow – Vertical Re-circulatory , 0.45 m/s , Cleaniness-ISO-5
- U.V Light – Germicidal UV Light (Wavelength-280-100nm).
- Micro Processor – Unit Will run through Microprocessor Password Based System And Having the Protection Standards IP 65.Also Feature with Door Lock , Unlock , Light on-off

LAMINAR AIR FLOW UNIT- CEILING MOUNTED /STAND

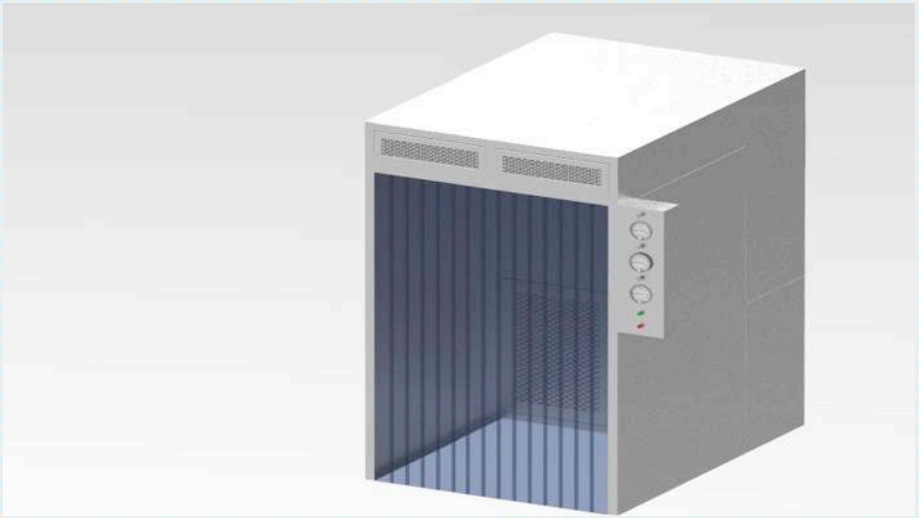
Vertical Laminar Flow unit is used to be achieved with cleanliness Level ISO-5 in Work Station to Prevent the Product.
It can be Suspended from Ceiling / Mounted on Stand , Depends on User Requirements .

- **Heart of System:**
- MOC – SS 304 /316
- SS 304 Double wall Construction
- Motor Blower – Kruger , ROSENBERG AC/EC , Dynamic
- HEPA – Gasket Type , GEL Seal Filter .
- PAO – PAO at Upstream HEPA Filter .
- Pressure Gauge – Analog / Digital
- Air Flow – Vertical , 0.45 m/s , Cleaniness-ISO-5
- Micro Processor – Unit Will run through Microprocessor Password Based System And Having the Protection Standards IP 65



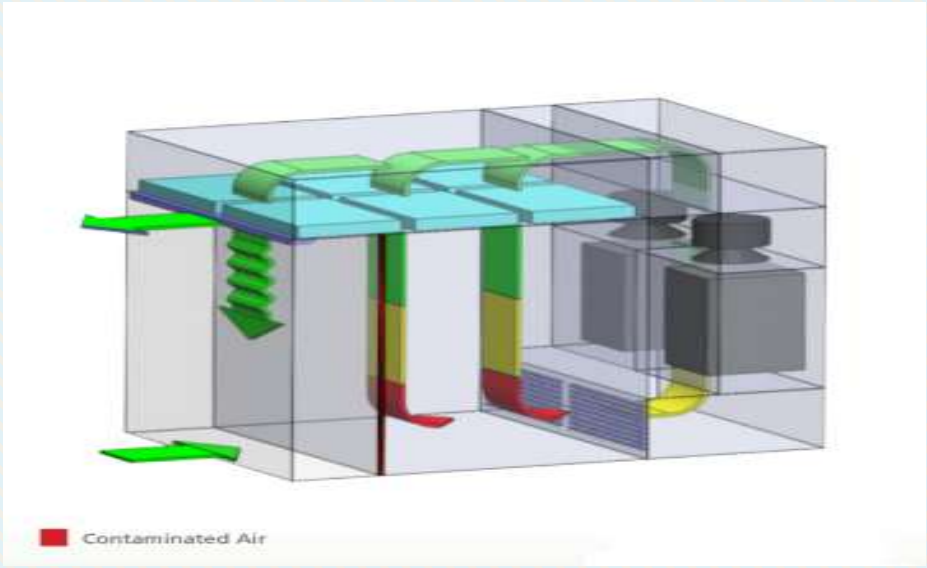
SAMPLING/DISPENSING BOOTH

Downward Forced air of sampling booth extracts at low level into the booths cleanliness filtration system where contaminated particles recirculated into the booth Air Flow. In standard Working condition of Pharmaceutical dispensing booth air pulled through the main chamber to steel exhaust grills used to fasten the HEPA & PRE-filters fitted in the rear side of the booths, It suppresses airborne dust particles away from the uses breathing area.

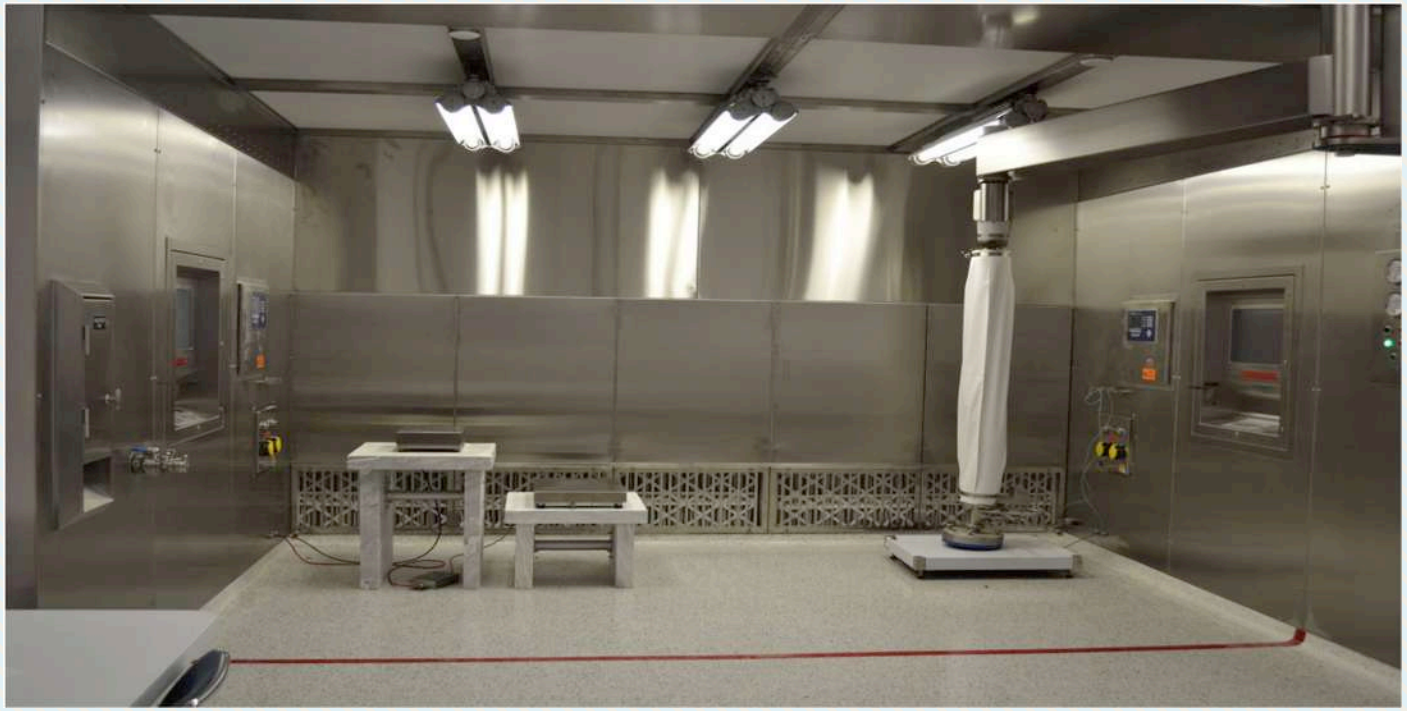


Heart of System :

- This System Comprises With 3 Stage Filtration System – Pre Filter , Intermediate Filter & HEPA Filter .
- Motor Blower – Kruger , ROSENBERG AC/EC , Dynamic
- HEPA – Gasket Type , GEL Seal Filter .
- PAO – PAO at Upstream HEPA Filter .
- Pressure Gauge – Analog / Digital
- Air Flow – Vertical , 0.45 m/s , Cleaniness-ISO-5
- Micro Processor – Unit Will run through Microprocessor Password Based System And Having the Protection Standards IP 65 .



DISPENSING BOOTH



BIOSAFETY CABINET

A **biosafety cabinet** (**BSC**)—also called a **biological safety cabinet** or **microbiological safety cabinet**—is an enclosed, ventilated laboratory workspace for safely working with materials contaminated with (or potentially contaminated with) pathogens requiring a defined biosafety level. Several different types of BSC exist, differentiated by the degree of bio-containment required.

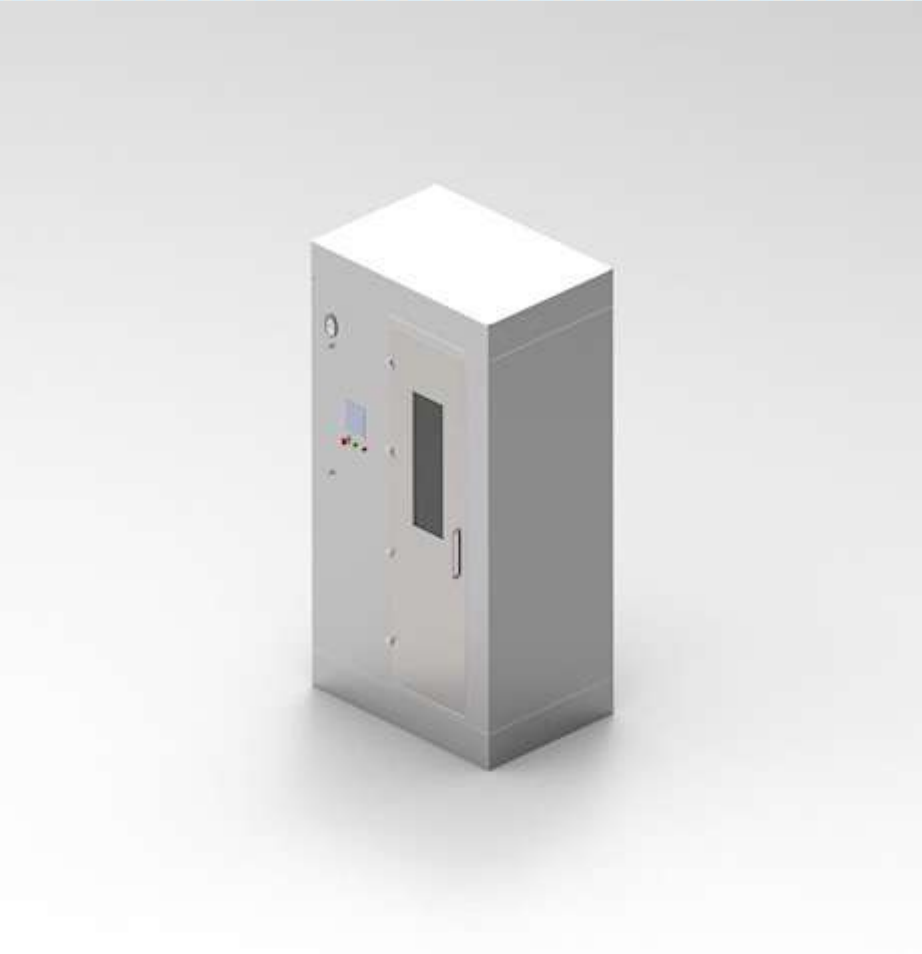
Type : Biosafety cabinets are classified into three classes by the U.S. Centres for Disease Control and Prevention (CDC) as per specific Application

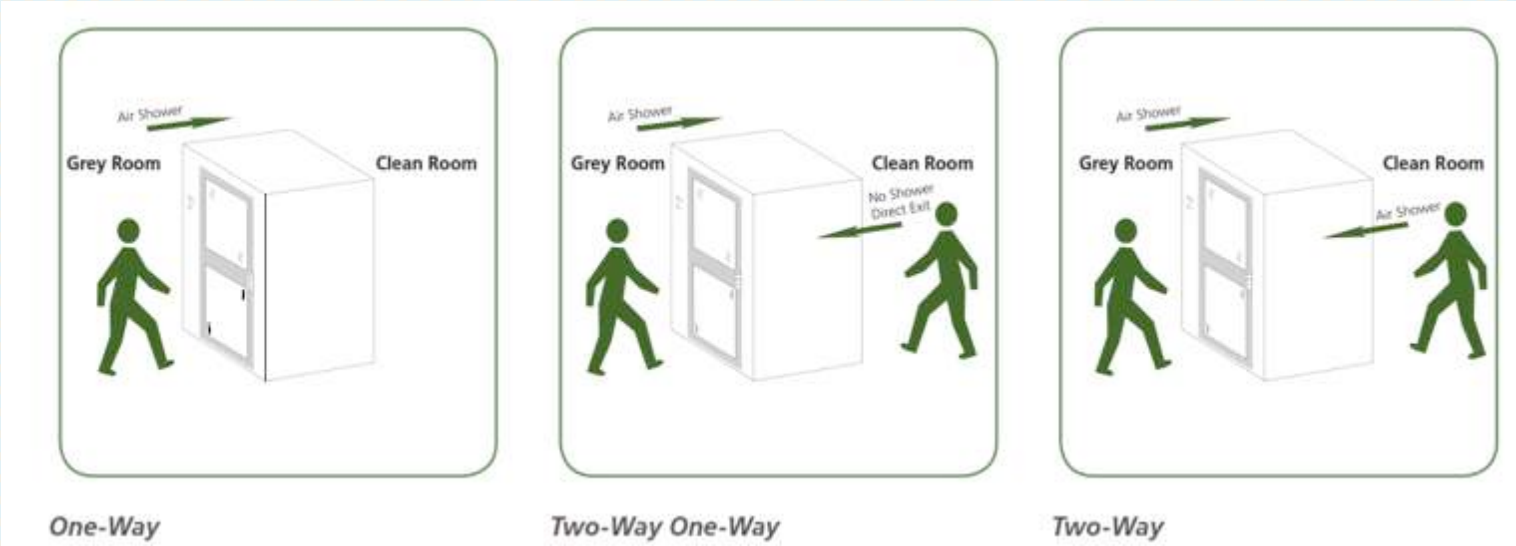
- **Class I -** Recirculation ,cabinets protect the operator and the environment from the aerosol but not the sample .
- **Class II - A2** & **B2** (A2- 70% Recirculation & 30 % Exhaust , B2- 100% Exhaust.)Cabinets provide both kinds of protection (of the samples and the environment) since makeup air is also HEPA-filtered.
- **Class III -** 100% Exhaust , Also these is known as Glove Boxes ,These BSC can be used for BSC Level 1-4, These are Most important for the manipulation Biological Material in the BSL -4.

Note : Exhaust Filtration will come with Double HEPA Combination.

AIR SHOWER

Air Showers are self contained chambers installed at entrances to cleanrooms and other controlled environments. They minimize particulate matter entering or exiting the clean space. Personnel and materials entering or exiting the controlled environment are “scrubbed” by high velocity HEPA filtered air jets with velocities of 20-22m/s (4000-4300fpm). Contaminated air is then drawn through the base within the unit, filtered and recirculated. This unit can be Served in industries of micro-electronics, semiconductors, pharmaceutical, spray painting, laboratory animal research and food market





MIST SHOWER

Mist Shower is a chamber installed at exit of clean room where Hazardous Product like Onco Drugs, Hormonal injectables, Sterile products and likewise. It is designed to provide protection during de-gowning process while exiting the area.

Air actuated mist showers using ultrasonic nozzles are required for making mist shower .The purpose of mist shower is to make powder stick to the clean room dress of the person coming out of the manufacturing facilities like API / Oncology manufacturing units . The loose powder sitting on the dress of the person should not contaminate the air when the person coming out . The powder is made stick to the dress by using water based mist and the precaution need to be taken that the water should not drip . It is because of this reason the ultrasonic mist nozzles are required . The mist shower is equipped with dry zone where the person moves to the next compartment and remove his or her clear room gowns and throws it in a v accumized fully sealed incinerator . One person entry is only allowed at a time . DI water with HEPA air atomization is done using ultrasonic mist nozzles . Drip tank is fitted on the floor .

DEDUSTING BOOTH

Arrest dust at source with De-dusting Tunnel. Reduce dust levels, improve product quality and yield. Our De-dusting Tunnels remove loose particles and dust that accumulate on raw material containers including drums, cartons and bags prior to sampling. Particles are collected in a tray, and the filtration system picks up airborne particulates. 21CFR and GMP compliant, automated, mechanized system. Delivers consistent performance.

Heart of System:

- Basic cabinet (SS304/CRCA powder coated/double wall PUFF filled panel).
- Single-pass fully automated system with PVC Shutters (entrance and exit) with endless conveyor with rotary moving brush in X -Y axis.
- High-velocity Jet System (8000 fpm – 10000 fpm) with manually adjustable Flow Control.
- PLC/Manual Control system with differential pressure gauges .
- LED concealed light providing light intensity in excess of 400 LuX.

DYNAMIC GARMENT STORAGE CABINET

Cleanroom garments can accumulate contamination during storage and between laundry washes, which in turn may lead to lower product yields and increased product quality issues . The enhanced filtration system on the garment storage cabinet is designed to provide the highest level of air quality within the work zone, meeting all relevant standards.

Heart of System :

- MOC – SS 304 /316
- Motor Blower – Kruger , EBM AC/EC , Dynamic
- HEPA – Gasket Type , GEL Seal Filter .
- PAO – PAO at Upstream HEPA Filter .
- Pressure Gauge – Analog / Digital
- Air Flow – Vertical Re-circulatory , 0.45 m/s , Cleaniness-ISO-5
- U.V Light – Germicidal UV Light (Wavelength-280-100nm).
- Micro Processor – Unit Will run through Microprocessor Password Based System And Having the Protection Standards IP 65 .Also Feature with Door Lock , Unlock , Light on-off .
- Heater Along with Thermostat.

PRODUCT PORTFOLIO

Inhouse manufacturing of Containment Solution

Application:
API
Oral Solid dosage
Injectable
(Solutions for entire process with process equipment integration with isolator)
Sterility testing
Customized requirement

Execution
Rigid wall
Flexible wall

Material of construction
Ant-static PVC OR PU
SS 304 / SS 316 L or customized material

Pressure regime
Positive or negative with respect to ambient
Differential decay with-in chamber

Cleanliness level and environment control
Cleanliness level as defined in ISO standard with Temp and Rh control

TYPES OF CLEANROOM EQUIPMENT

STATIC PASSBOX

DISPENSING BOOTH

AIR SHOWER

DEDUSTING BOOTH

BIOSAFETY CABINET

DYNAMIC PASSBOX

CEILING MOUNTED LAMINAR UNIT

MIST SHOWER

DYNAMIC GARMENT STORAGE CABINET

STERILE INJECTABLE LINE PRODUCTS

Sterilizing and Depyrogenation Tunnel

Rotary Ampoule Washing Machine

Ampoule Filling & Sealing Machine

Vial Labeling Machine

Rotary Vial Washing Machine

Rotary Vial Cap Sealing Machine

Vial Filling & Sealing Line

Dry Powder Injectable Filling Machine

PREFILLED SYRINGE WITH PLUNGER & LABELLING – (PFS)

Light Inspection Machine- Vials and Ampoules

Ampoule Washing - Drying - Filling - Sealing Production Line

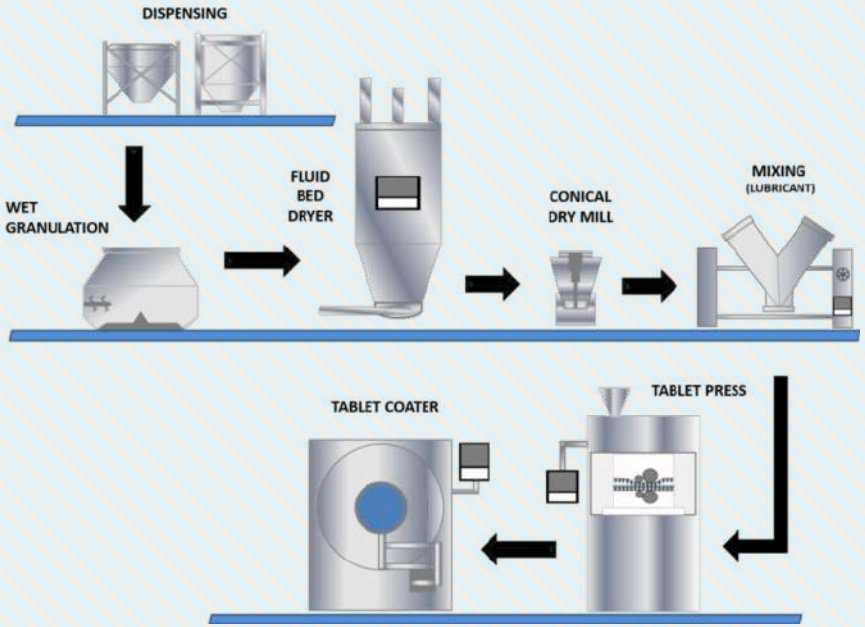
Dry Powder Injectable Filling Machine

Dry Powder Injectable Filling Machine

OUR GROUP COMPANY – OSD PRODUCT

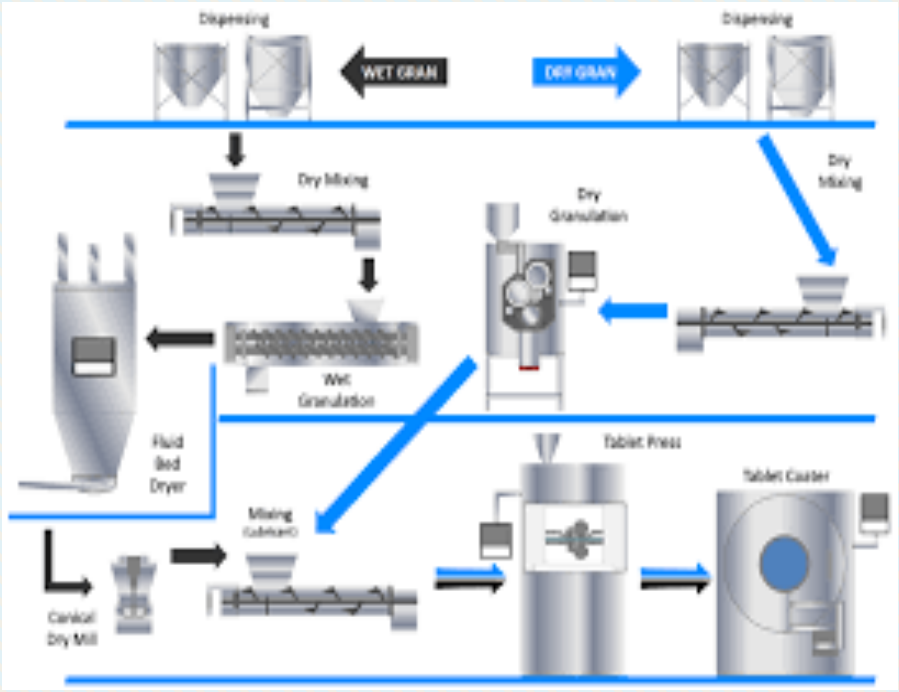
DRY GRANULATION :

- *PROCESS VESSELS / BINS*
- *BLENDERS*
- *ROLL COMPACTORS*
- *MULTI MILL / SHIFTERS*
- *TABLET COMPRESSION*
- *TABLET COATING*



WET GRANULATION :

- *PROCESS VESSELS / BINS*
- *RMG*
- *FBD / FBP / FBC*
- *BLENDERS*
- *MULTI MILL / SHIFTERS*
- *TABLET COMPRESSION*
- *TABLET COATING*



OUR GROUP - PRODUCT

Established in 2010 **LABPROMPT EU** has grown as a leading equipment manufacturing company providing solution in powder processing not only in PHARMACEUTICALS but in various industry including **BIOTECH, NEUTRACEUTICALS, FOOD, CHEMICALS, COSMETICS, PAINTS & PIGMENTS**

Total Strength : 55 + 25 contract basis

Manufacturing Unit : manufacturing unit at Mumbai India total space 10,000 sq feet with modern manufacturing and testing equipments.

KAVS SPECTRONOVA have joined hand with LABPROMPT to bid for Pharma, Food, Biotech process machineries with active involvement in marketing , manufacturing and execution.

THEY TRUST US…

INTERNATIONAL HOSPITAL CLIENTELE / ASSOCIATIONS

UNITED ARAB EMIRATES
MINISTRY OF HEALTH & PREVENTION

هيئة الصحة بدبي
DUBAI HEALTH AUTHORITY

دائرة الصحة
DEPARTMENT OF HEALTH

سلطة مدينة دبي الطبية
DUBAI HEALTHCARE CITY AUTHORITY

ASTER
HOSPITAL

Valiant
CLINIC

Al Jalila Children's
Specialty Hospital
الجليلة للأطفال
المستشفى التخصصي

مجموعة مستشفى الإمارات
Emirates Hospital Group

STARCARE

RAK HOSPITAL

Zulekha Hospital

Fakih IVF
FERTILITY CENTER

Adam Vital
Hospital
Orthopaedics, Regenerative & Sports Medicine

ALGARHOUD
PRIVATE HOSPITAL
A MEMBER OF AL HILAL MEDICAL SOLUTIONS

+HealthPlus

PRIME
HOSPITAL

DUBAI
LONDON
CLINIC

مستشفى برجيل
burjeel
hospital

MED
CARE

gfh

Moorfields
Eye Hospital

cocoona
CENTRE FOR AESTHETIC TRANSFORMATION

nmc

ssmc
مدينة الشيخ شخبوط الطبية
Sheikh Shakhbout Medical City
In partnership with الشراكة مع
MAYO CLINIC

مستشفى حمد العام
Hamad General Hospital
A Member of Hamad Medical Corporation

مستشفى ثومبي
THUMBAY HOSPITAL

مدينة الشارقة للرعاية الصحية
Sharjah Healthcare City
Culture of care · ثقافة الرعاية

ميديكلينيك
MEDICLINIC

Bourn Hall
CLINIC

THANK YOU...

Overseas Branch 1 :
Ambergo International
Office-301,3rd Floor, AB Plaza7, Mamzar.
Dubai- UAE.

Overseas Branch 2 :
Braga-Portugal Rua de Bela Vista 60-
Gualtar 4710-084. Braga Portugal.

Stay Connected !!!

Corporate Address :

106, Cosmos Mary Park, Kolbad Road.
Opp Pratap Cinema,Panch Pakhadi.
Thane West- Mumbai (India).

Contact :+91 9967436808
Email id :
project1kavsspect@gmail.com/
kunal.deshmukh@spectrokavs.com

Web : www.spectrokavs.com

Works 1(CRE/ISO) : Industrial Plot No 3 ,New Survey No 2003 New GIDC Dehari Umbergaon Gujrat 396170

Works 2(CRP/OSD/LAB SET UP) : 10, Gopal IND. (E), National Highway, Sativali Village, National Highway exactly opposite Tungar phata & Domino's Pizza left site Galli. Vasai Dist. Thane 401208, India.