

pH Conductivity  
Salinity TDS Resistivity  
Moisture  
Melting Boiling  
NaKCa  
Zero N<sub>2</sub> H<sub>2</sub> Gas Generator  
Air Leak Test  
Tap Density Friability  
Tablet Dis-integrator Hardness  
Dissolution



manufacturer & exporter of analytical scientific instruments  
for quality control and research laboratory

## About Us

**ANALAB**<sup>®</sup>, a Vadodara-based company has been manufacturing **scientific & analytical laboratory instruments** for quality control, quality assurance & R&D centers for the last **15 years**. The area of application is in field of pharmaceutical & Formulation, Research Centre, pesticides, petroleum, dyes & intermediate, fine chemicals, educational institute and many more industries. Through our **innovative approach** and **resolute product research**, we have been able to create a niche in the domestic market. The company has **succeeded** in having a presence in the **international market** since 2018 and we have started accepting **OEM orders** from various countries. The hallmark of our policy is **integrity** and **consumer satisfaction**. To set a benchmark, we leave no stone unturned in ensuring a very high rate of consumer satisfaction.

## Message from CEO & Founder of Company

At **ANALAB**<sup>®</sup>, we earn and retain our customer trust by offering highly effective, **evidence-based training** and customer **service at a reasonable and competitive cost**. We never compromise on our quality and integrity and are always committed to **teamwork** and innovation.

If you are looking for a scientific laboratory instrument partner, then Analab, is the end of your search. One of our biggest pluses is that we never say NO to any challenges. With a **positive mindset**, we are always ready to provide you with a solution. Our friendly teams will provide you with a **professional and dedicated service**. You meet us once and you will have the Analab, Brand for your laboratory. Come meet us and give us a chance to supply the scientific laboratory instruments that meet your requirements.

If you have any queries, we would **love to hear from you**.

## Certification





## Laboratory Instruments



**pH/mV/°C Analyzer**  
(Two Point and Two/Three Point Calibration)

**Conductivity/TDS/°C Analyzer**  
(Auto Ranging Type)  
(Five Standard, One per Range)



**pH/mV/°C/ORP Analyzer**  
(Three/Five Point Calibration)

**Conductivity/TDS/°C Analyzer**  
(Auto Ranging Type)  
(Five Standard, One per Range)

**Multiparameter Analyzer**  
(pH/ORP/mV/Conductivity/TDS/°C Analyzer)



**pH/mV/°C/ORP Analyzer**  
(Three/Five Point Calibration) - as per USP

**Conductivity/TDS/Resistivity/Salinity/°C Analyzer** (Auto Ranging Type)- as per USP  
(Five Standard, One per Range)

**Multiparameter Analyzer**  
(pH/ORP/mV/Conductivity/TDS/Resistivity/  
Salinity/°C Analyzer)



**pH/mV/°C/ORP Analyzer**  
(Multipoint Calibration)

**Conductivity/TDS/Resistivity/Salinity/°C Analyzer** (Auto Ranging Type)- as per USP  
(Five Standard, One per Range)

**Multiparameter Analyzer**  
(pH/ORP/mV/Conductivity/TDS/Resistivity/  
Salinity/°C Analyzer)

Note: All instruments are available with 21 CFR Part 11

[www.analab.co.in](http://www.analab.co.in)

## Laboratory Instruments



**Handheld pH/mV/°C Analyzer**

**Handheld Conductivity/TDS/°C Analyzer**

**Handheld Multiparameter Analyzer**  
(pH/ORP/mV/Conductivity/TDS/°C)



**Volumetric Karl Fischer Titrator**

for measurement of moisture  
from 50ppm to 100%



**Auto Titrator**

\* Type of Titration : Acid / Base,  
Amperometry, Argentometric,  
Aqueous / Non-Aqueous, Precipitation,  
Chelatometric, Redox etc.



**Programmable  
Melting / Boiling Point Apparatus**

(Silicon Oil Type)

Temperature Range upto 300°C

Note: All instruments are available with 21 CFR Part 11



## Laboratory Instruments



**Automatic Programmable  
Melting / Boiling Point Apparatus  
(Block Type)**  
Temperature Range upto 400°C



**Flame Photometer with Air Supply Unit**  
For analysis of Na, K, Ca, Li, Ba



**Friability Test Apparatus - Double Drum**  
Two different models are available

- Fix Speed : 25 RPM
- Variable Speed : 20 to 70 RPM



**Tablet Dis-Integration Test Apparatus**  
Available with two different models

- a) Two Basket with individual Motor Control
- b) Two Basket with common Motor Control

- Without Water Bath
- Auto Park out facility
- Illumination to view disintegration process

Note: All instruments are available with 21 CFR Part 11

## Laboratory Instruments



### Tap Density Test Apparatus

- USP-1 : 300 TPM / 250 TPM
- USP-2 : 250 TPM
- Position : 14mm / 3mm
- ASPM Method available Optionally



### Leak Test Apparatus

- Vacuum : Greater than 500 mm of Hg
- Vacuum Stability : Below 400 mmHg  
 $\pm 10$  mmHg & above 400 mmHg  
 $\pm 5$  mmHg within 30 sec.
- Digital Vacuum Gauge



### Tablet Hardness Tester

- Load cell up to 500 N
- Minimum load-0.1 N with accuracy 0.5% Full Scale
- Tablet Size from 2 – 28 mm
- Complies with USP requirements.
- Units of measurement in N, Kgf and lbf.
- Printer connectivity through RS 232 port.
- Tester operates on rechargeable battery.



### Scott Volumeter Manual Bulk Density Tester

- Bulk Density of free-flowing powders.
- as per International Standard
- ISO 3923 – 2, USP Chapter 616 &
- ASTM B 329

Note: All instruments are available with 21 CFR Part 11



## Laboratory Instruments



**Ultrasonic Bath with Heater (Sonicator)**  
from 2.5 liter to 40 liter and also  
available customized size.  
Frequency : 33KHz & 40KHz  
Temperature upto 70°



**Ultrasonic Bath with chiller**

- Capacity 10, 20 & 30 Litres & available with customised size.
- Temp. Range: 5°C to Room Temp.



Balance	Capacity	Readability
Semi-micro	60/220 gm	0.01/0.1 mg
Analytical	220 gm	0.1 mg
Precision	300 gm	1.0 mg



**Halogen Based Moisture Analyzer**

- \* Capacity : 60 / 110 / 210 gm
- \* Readability : 0.001g/0.01%
- \* Drying Time : 0.1 min to 10 Hour
- \* Temp. Range : 0-160°C  
(Optionally available up to 250°C)

Note: All instruments are available with 21 CFR Part 11



### Combination Nitrogen & Zero Air Gas Generator

- \* Purity of N<sub>2</sub> 99.999% upto 6LPM
- \* Dew Point of Zero Air -40°C / -70°C
- \* Flow upto 40LPM of Zero Air



### Nitrogen Gas Generator

- \* Purity 99.999% upto 6LPM
- \* Purity 99.95% upto 40LPM

### Zero Air Gas Generator

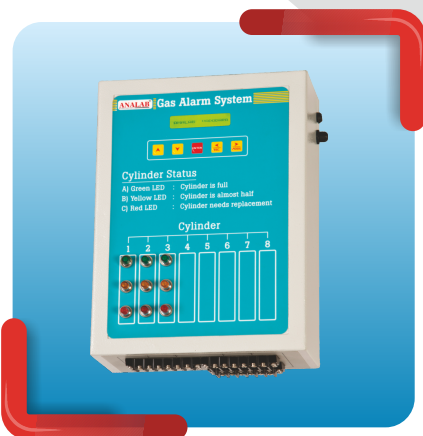
- \* Dew Point -40°C / -70°C
- \* Flow upto 40LPM



### Hydrogen Gas Generator

(Water Based)

- \* Purity : 99.9995% upto 2 LPM



### Gas Cylinder Alarm System

(Available upto 8 cylinder single unit)



# Laboratory Furniture & Fume Hood

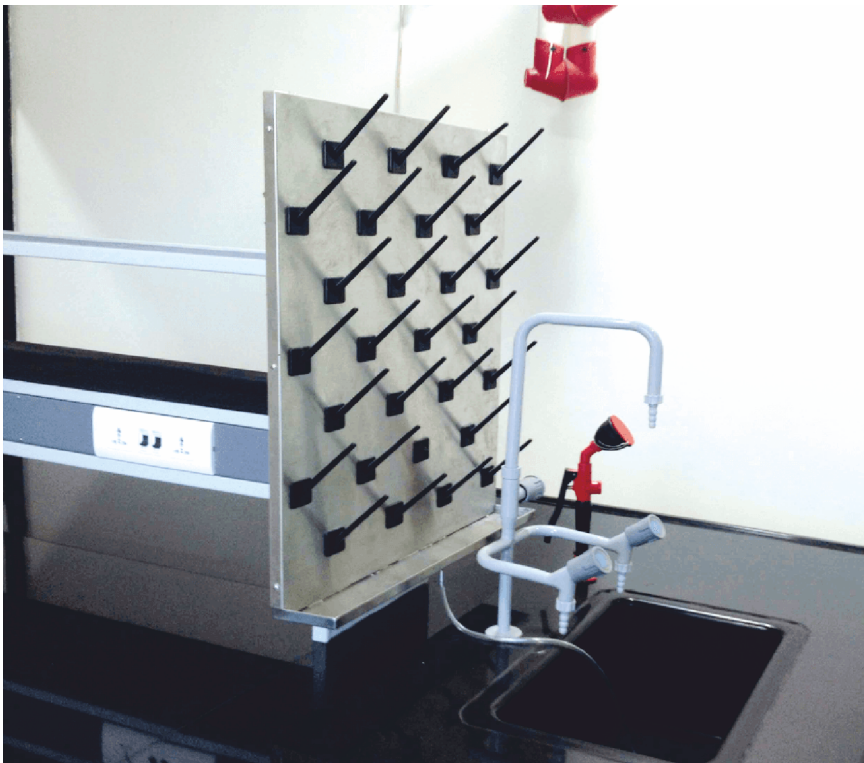








## Laboratory Work Station



**Safety is a Presence of mind.  
Accidents are an Absence of mind.**

Laboratory Work Station is a support system for working in defined laboratory environment. It is an exclusive space for placing variety of instruments and equipment required in various laboratories.

### HOW TO USE LABORATORY WORK STATION:

- Always keep work station clean and dry.
- In case of spillage of chemicals, wipe off the work surface immediately, delay may damage the affected work surface.
- Turn off all heating apparatus, gas valves, and water faucets when not in use.
- Do not block the sink drains with debris.
- Place chemicals in chemical storage only, preferably with acid resistant lining connected to exhaust.
- Solvents should be stored in flame proof cabinets only.
- Ensure that drawers are not over loaded. Drawer and door alignment will enhance cabinet's life.
- Deep scratch on powder coated component invites rust on exposed portion, immediate touch-up will ensure long life of the component.
- Always wear appropriate eye protection, long-sleeved laboratory coat and shoes that cover the whole foot.
- Do not use laboratory work bench as a stool.
- Do not use work bench as a dining table.



Every Laboratory Work Station is unique in its own.

## Wide Choice of Work Surface



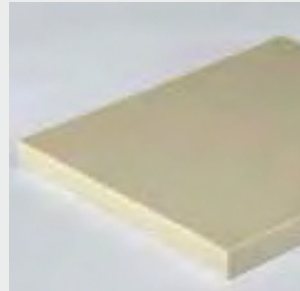
- Granite tops



- Ceramic tops



- Trespa tops



- PVC tops



- Epoxy tops



- PP tops

## Spectrum of Choice for Colour Combinations of Casework



## Pedestal Assembly



## Skirting Assembly



Skirting type  
pedestal

## C-frame Assembly



## Casework on Wheels



PU Wheels :  
Noise & scratch free, smooth movements





# Metallic / PVC Raceway & Choice of Electrical Sockets



PVC shockproof raceway



Socket for data transfer / Telephone



Universal Socket



6/16 Amp Sockets with MCB



Metal Clad Socket



Fire Retardant Industrial Socket



Flame proof fittings



## High Performance Fume Hoods

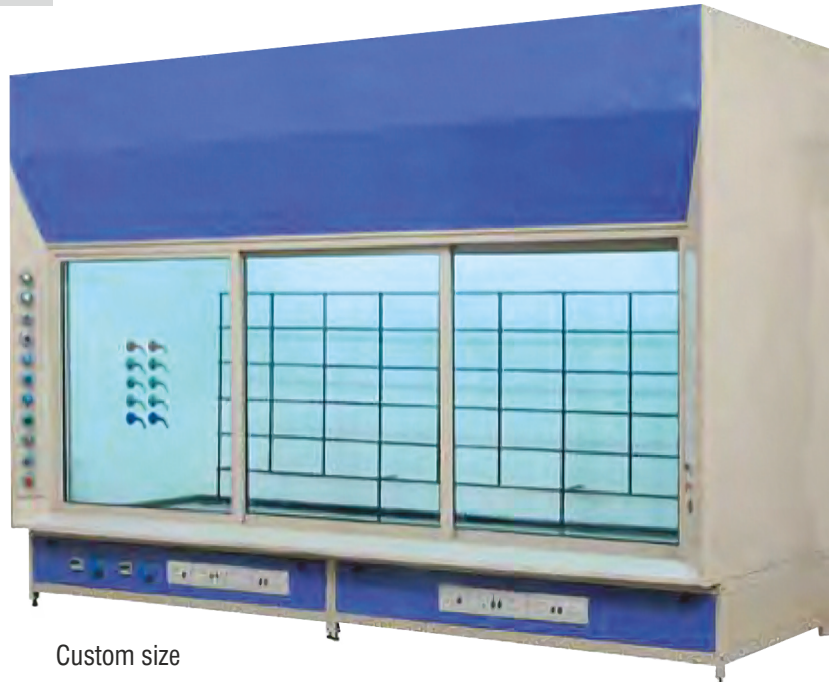
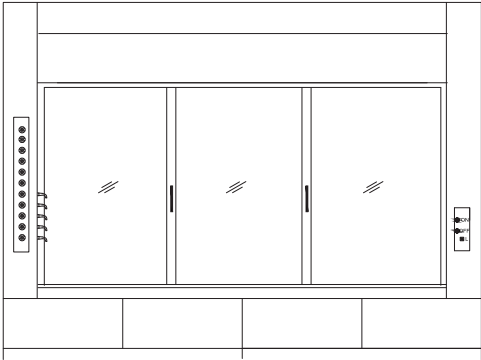


### How to use Fume Hood :

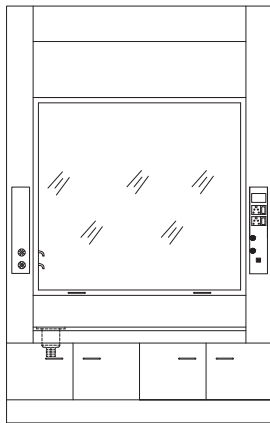
- Please place your equipment and other materials at least six inches behind the sash; preferably in the middle of the fume hood.  
This will reduce the exposure of personnel to hazardous chemical vapors that may escape inside the lab due to air turbulence.
- When the hood is not in use, pull the sash all the way down. While personnel are working at the hood, pull down the sash as far as is practically possible.
- The sash is generally made of safety / toughened glass which protects users against fire, splashes, and explosions.
- Please keep fume hood sash open at or below 18 inches; preferably it should be below the nose level of the user.
- Do not keep loose papers or tissues inside the hood. This kind of material can be drawn into the blower and adversely affect the performance of the hood.
- Do not use a fume hood or its base as a storage cabinet for chemicals.
- Excessive storage of chemicals or other items will disrupt the designed airflow inside the fume hood. Particularly, avoid storing chemicals against the baffle at the back of the hood because this will interfere with the laminar airflow across the hood.
- In case, large equipment is must to be kept inside fume hood, please raise it at least 2 inches off the work surface to allow air to flow underneath. This reduces the turbulence within the hood and helps to increase its performance.
- Please do not block the front of a fume hood (e.g. refrigerators or lab coats hanging on the manual controls) as this can disrupt the airflow and draw contaminants out of the hood.
- It is to be understood that modifications made to a fume hood system can be a reason to make the entire

**'Using wrong fume hood correctly' OR  
'Right fume hood wrongly' gives no result**

# Types of Fume Hood



Custom size



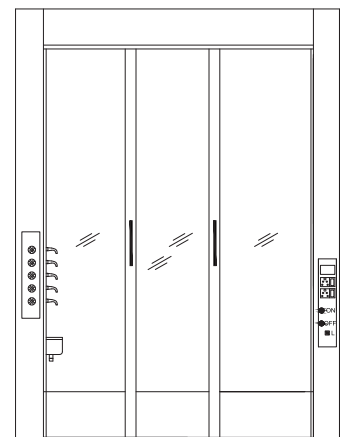
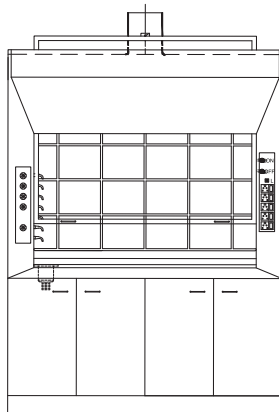
Low bench



Walk-in type

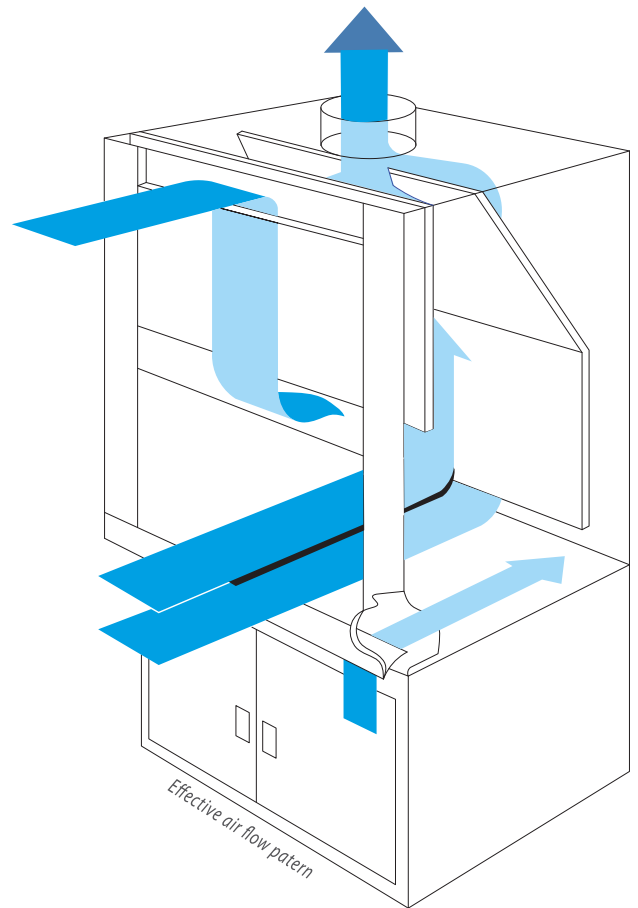


Bench mounted





## Complying to Testing Standards



Organizations	Citation	Face Velocity
ACGIH	Industrial Ventilation 19th edition p.5.24	60-100fpm
A5HRAE	1999 ASH RAE Handbook 13.5	60-175fpm
ANSIIAIHA	ANSI/AIHA Z9.5, Sect 5.7	80-120fpm
CALOSHA	CCR Title VIII Subchapter 7.5454.1	min 100fpm
NRC	Prudent Practices P.187	80-100fpm
NFPA	NFPA 456-4.5 & A6-4.5	80-120fpm
NIOSH	Recommended Industrial Ventilation Guidelines p.166	100-150fpm
NRC	NRC Guide 6.3	100fpm
OSHA	29 CFR 1910 Appendix A Sec. A.C.4.g	60-100 fpm
SEFA	SEFA 1.2 : 5.2	75-100fpm

## Fume Hood Performance



Ideal Noise level < 70 dB



Required average face velocity 0.5 m/s



Airflow monitor

## Fume Hood Assembly Details



Fume hood valve



Epoxy grid



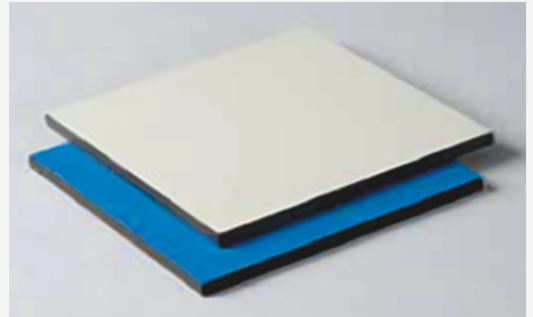
Acid resistant lining



Brass nozzle & PU tubing with presto fittings

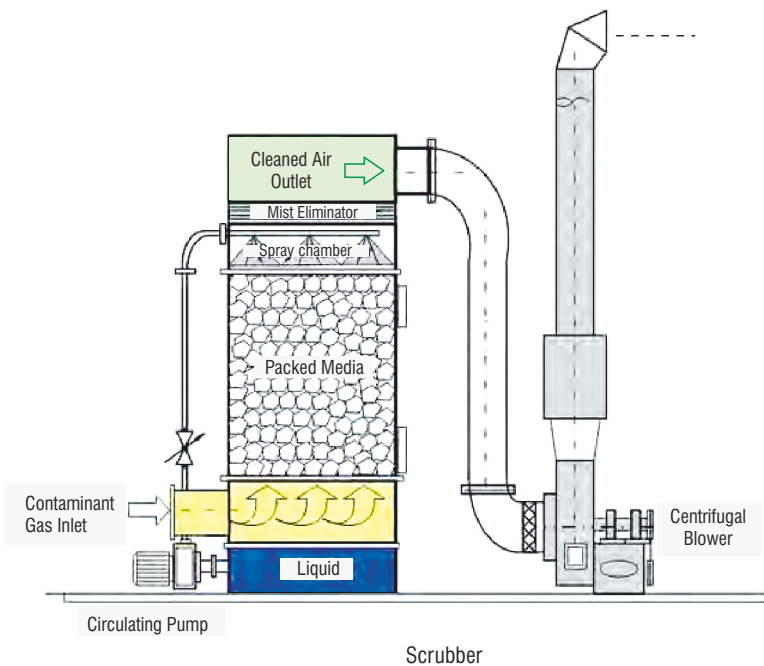


Nylon pulley and SS rope for counter balance system

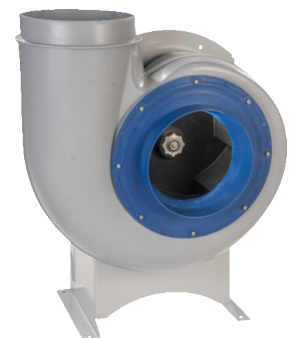


Trespa lining (Optional)

## Fume Exhaust System



Damper



Centrifugal blowers





## Bench Mounted Fume Hood







Slotted Angle Rack



General Purpose Storage Cupboards



Chemical Storage Cupboard



Frame / C-Frame Mounted Work Bench



Radioisotope Fume Hood



Auxiliary Air Fume Hood

## Safety Cabinet for Flammables



## Safety Cabinets for Corrosives



## Pedestal Mounted Work Bench



## Storage Units



Slotted Angle Rack



Wall Storage Cupboard



Lockers



Apron Cabinet

## Stand Alone Units



Anti-Vibration Table



Cross Over Bench



## Laboratory Stool & Chair



Laboratory Stool



Laboratory Chair



# Laboratory Furniture & Fume Hood

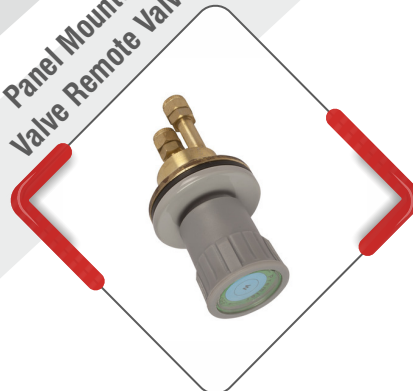
Laboratory Furniture



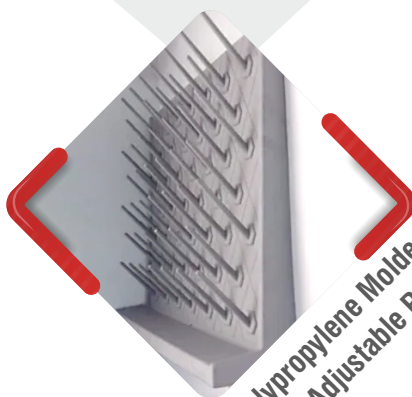
Exhaust Hood



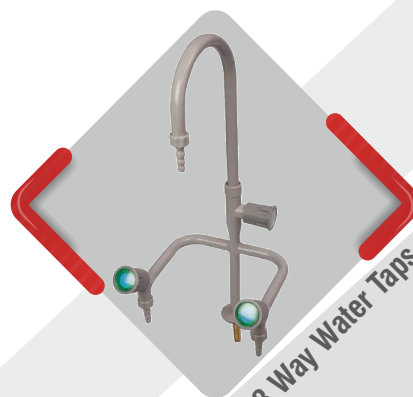
Panel Mounted Valve Remote Valve



Fume Hood

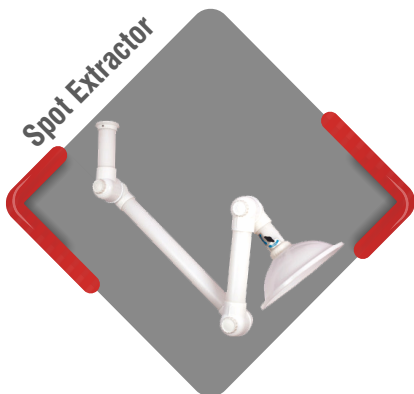


Polypropylene Molded with Adjustable Pegs



3 Way Water Taps

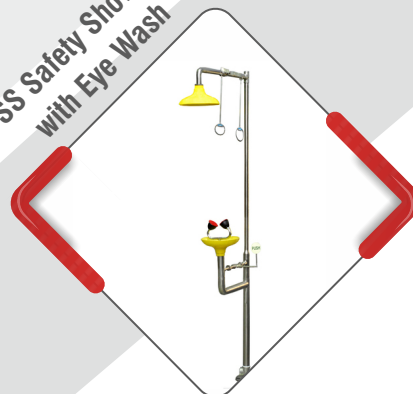
Spot Extractor



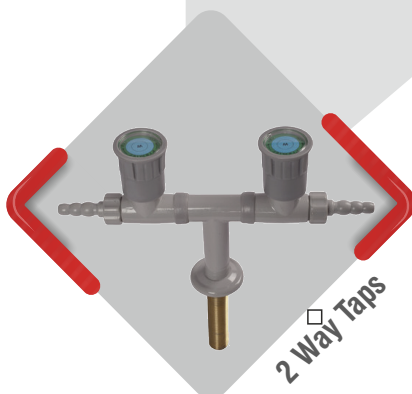
2 Way Eye Wash



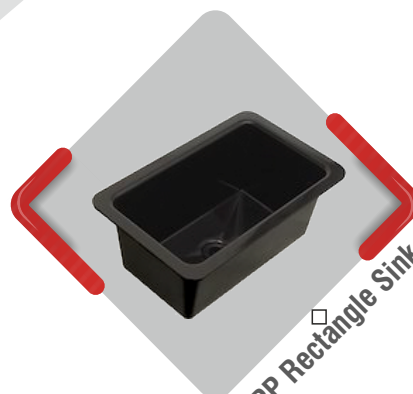
SS Safety Shower with Eye Wash



Blower

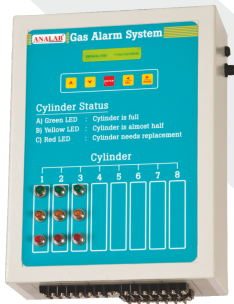


2 Way Taps



PP Rectangle Sink

# Flow Chart of Gas Handling & Purification System



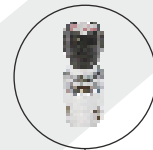
Gas Cylinder Alarm System  
(Available upto 8 cylinder in single unit)

- Hydrogen
- Nitrogen
- Zero Air
- Helium

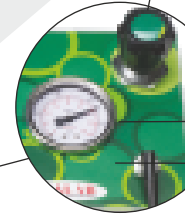
GHS - PLUS-04



Brass Chrome plated  
SS Diaphragm Pressure  
Regulator (Optional)



Stainless  
Steel  
Machine  
Shield  
Pressure  
Gauge



Reverse screen  
printed  
polycarbonate  
sticker for  
colour coding

Inline Micro Filter

POWDER COATED CASING CAPPING

Flash Back  
Arrester with  
NRV



Gas Control Module  
GCM-GRT-04



Ministation  
GCM-T-04



Gas Change  
Over Module  
GCOM



Gas Control  
Module with  
Flow Meter

SS Tubing available in 1/8", 1/4", 3/8", 1/2"



Double Stage Cylinder Regulator  
with SS Diaphragm



Manifold System with  
Bracket & Pigtail

Cylinder Mounting Bracket  
with Welcrow



Oil Free Air Compressor



Combination Nitrogen and  
Zero Air Gas Generator

**Note: We undertake Turnkey project for Gas Pipe Line along with orbital welding**

## Product Range

### Pharmaceutical and Chemical Testing Instruments

pH/mV/°C/ORP Analyzer | Conductivity/TDS/Resistivity/Salinity/°C Analyzer  
Multiparameter Analyzer (pH/ORP/Conductivity/TDS/Resistivity/Salinity/°C)  
Karl Fischer Titrator | Auto Titrator | Automatic Melting/Boiling Point Apparatus  
Flame Photometer | Ultrasonic Bath (Sonicator) | Ultrasonic Bath with Chiller  
Analytical Electronics Balance | Halogen Based Moisture Analyzer

### Physical Tablet Testing Instruments

Friability Test Apparatus | Tablet Dis-integration Test Apparatus  
Tap Density Test Apparatus | Tablet Hardness Tester  
Leak Test Apparatus | Tablet Dissolution Test Apparatus

### Gas Purification System & Gas Generator

Nitrogen Gas Generator | Zero Air Gas Generator  
Combination Nitrogen/Zero Air Gas Generator  
Air Drying Unit for TOC Analyzer | Dew Point Apparatus  
Gas Handling & Purification System | Exhaust Hood for AAS/ICP

### Laboratory Furniture & Fume Hood

All  
instruments  
are  
available with  
21 CFR Part 11


Global  
but local  
Exclusive but elite  
Large but focused  
Where others  
see contradiction,  
we see  
opportunities.


Distribution Network



**ANALAB SCIENTIFIC  
INSTRUMENTS PVT. LTD.**

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