



VARCOLAB

Quality of perseverance



**Complete
Solutions**

ANALYTICAL CATALOGUE





About us

Varcolab is a renowned company that deals in manufacturing of machines for Pharmaceuticals (Bulk Drug / Formulations) , chemicals, food & beverages, healthcare, Bulk Packaging Line for Fully Automatic Dry Powder Filling (Auger Matic), Liquid Filling Line, cosmetics etc.

Turnkey Solution

We cater TURNKEY projects which involves Building / Civil per GMP norms , Designing of layouts , HVAC, Electricals , Machineries and miscellaneous . Founded with state of art manufacturing units in outskirts of Mumbai. We are reputed as a highly reliable firm for the supply of qualitative and high performance of machines that are built with latest designs and features. We feel our associates should grow as we grow and our ultimate aim is to serve the Pharma & Food industry with dedication to their highest level of satisfaction and help them to achieve their higher goals.

Quality

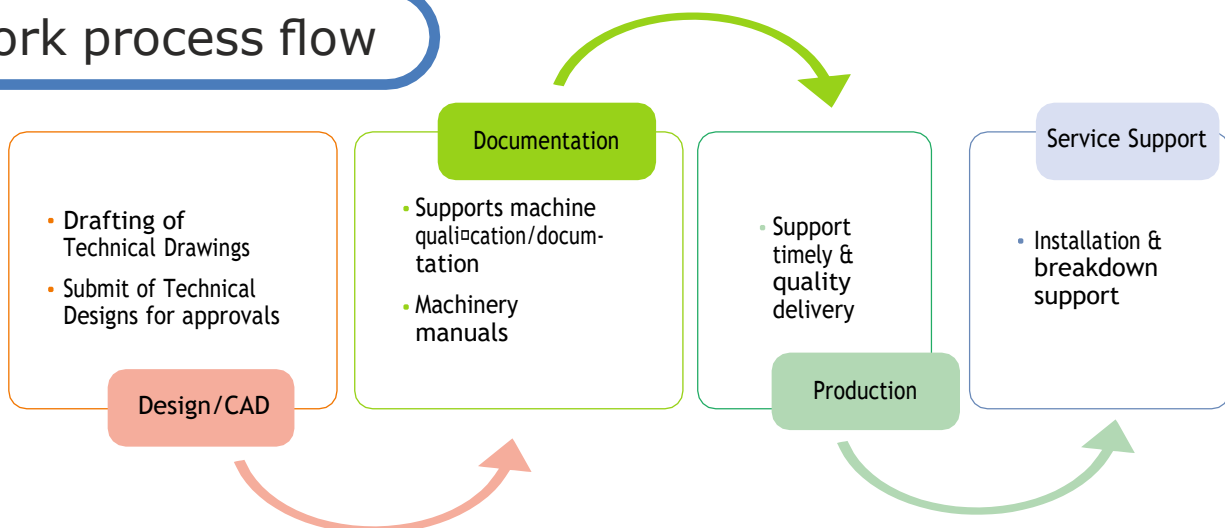
Being one of the most reputed firms in the market, we have to take great care for maintaining the high quality of each item. Stringent quality control measures are taken at every step of production and all items are thoroughly tested before they are passed for distribution.

Infrastructure

We have acquired state of the art equipments and machineries at the manufacturing unit backed by trained and skilled personnel who have the zeal to touch the greater heights of success.



Work process flow





VDT-8 & VDT-14



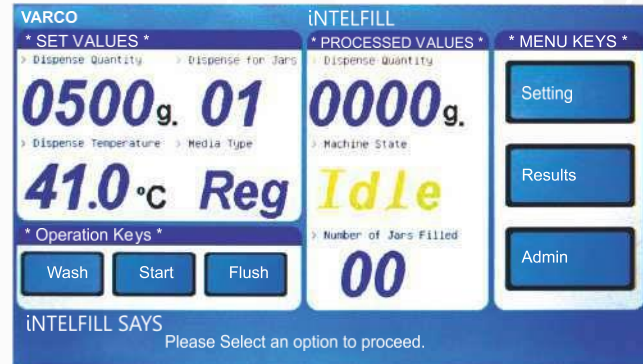
Dissolution Tester

Available with Auto Sampler

- *USP, IP, EP, JP Compliance.*
- *Ideal for manual testing .*
- *40 x 4 LCD Display.*
- *Alpha numeric key pad & USB keyboard support.*
- *3 Level Security.*
- *Programmable test methods.*
- *Programmable sampling intervals.*
- *Auto Stirrer height position for USP 1, 2, 5, 6 Intrinsic.*
- *Adjustable Cannula for different sampling position of different volume level.*
- *LED indicators and Beep sound for system status.*
- *Adjustable leveling legs.*
- *Two level Vibration free, Isolated water circulation with precise temperature control.*
- *Positive engagement, Wobble free & accurate axis position collet fit stirrer locking.*
- *Unique Serial Numbered Accessories, i.e. vessels, baskets, paddle etc.*
- *Clear Acrylic water bath with bottom drainage port.*
- *Motorized lift of unit for ease out maintenance procedure.*
- *Reports of Sample Test - Report storage memory and offline printing of test reports, with Power failure notification.*
- *IQ, OQ Documents.*



VMD-10



Media Degasser

Product	iNTELFILL 10000
Function	Heating and Vacuum Degassing
Pharmacopeia Conformance	USP & Ph.Eur
Control	Smart Touch Panel 7"
Time Needed for Degassing	1000ml in less than 110 sec.
Dispensing Volume	200 ml to 1000 ml / 200g to 1000g.
Dispensing time	1000ml in less than 110 sec at 41°C in ambient temperature .
Dispensing Accuracy	±1% of set volume, but not less than ±5 ml
Heating Capacity	Up to +20°C deg. increase from Ambient Temperature to Max of up to 45°C
Degassing	Up to a maximum of 3.0 ppm, to a level of not less than 5.0 ppm
Input Filter	25 mm in-line filter holder
Temperature Control	Cartridge Heater
Temperature Accuracy	± 2°C
PC Interface	RS-232 (Serial) & Thermal Printer
Unit Dimensions	Height 32.28" (82 cm) Width 15" (38 cm) Depth 17.32" (44 cm)
Weight	37.0Kg
Electrical Power	220V ± 15V 50Hz 8Amps (Operating voltage pre-set at factory)



VRB-WU



Bottle Rotating Apparatus

Specifications:

Water bath:

- © Water capacity- 60 ltrs
- © Bath size (L x W x H)- (575 x 450 x 360) mm

Speed control:

- © Speed range: 1 to 60 RPM
- © Resolution: 1 RPM
- © Accuracy: ± 1 RPM
- © Motor: Stepper motor
- © Drive type: Magnetically coupled

Features:

- © The Rotating Bottle Apparatus meets National Formulary (NF) XIV specifications and is designed for release rate testing of tablets or pellets.
- © Bottles are clipped into a rotating shaft which is immersed in a water bath.
- © The speed of rotation can be programmed.
- © The manual changing of media during a test simulates a dosage passing through a pH gradient.
- © Sealed bottles prevent evaporative loss.
- © A variety of bottle and vial sizes can be used with this system.
- © This apparatus is suitable for use in testing of microspheres, ophthalmic & implants.
- © HMI with colored touchscreen control system having 3 level login ID password facility & date / time lock facility.
- © Supports 16 glass bottles of 100 ml each.
- © Magnetically coupled drive with precise speed control range with soft start facility.
- © Programmable temperature in the water bath
- © Print facility via Lan/USB or any locally available
- © Snap fitting of bottles for easy placement and removal
- © Robustly built SS body & clear borosilicate glass water bath to withstand high temperatures
- © Programmable Protocol more than 50 nos.
- © Bottom drain facility with valve.
- © Top lid with glass for better visibility

Temperature Indicator/Controller:

- © Set temperature range: 30 ° C to 50°C
- © Resolution: 0.1 C
- © Control accuracy: ± 0.5 °C
- © Heater: 3 KW/230V AC

Circulation:

- © Magnetically coupled pump, Flow rate: 10 ltrs/min
- © Power supply: 230V AC +10%, 50 Hz,
- © Overall Dimensions (L x W x H): (800 x 450 x 360) mm (approx.)



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VDT-02T

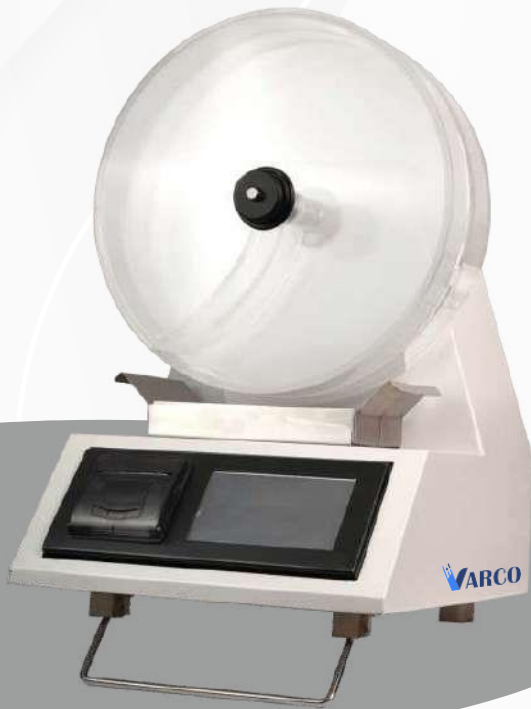


Disintegration Tester

- *USP, IP, EP Compliance.*
- *Synchronous Drive with continuous timer and Non Synchronous with Individual Timer.*
- *Smooth Transition Drive.*
- *Individual Temperature Probe.*
- *Individual Tablet disintegration time registration.*
- *Moulded Water Bath.*
- *Bottom illumination for better visibility.*
- *Magnetic Basket for easy basket handling.*
- *Basket Raise Park from beaker with Beep after test completion.*
- *Print Test Report & Validation Report.*
- *Password protection.*
- *Bathless (Available).*
- *Keyboard for data entry.*
- *Ergonomic design and magnetic coupling basket to make loading easier.*



VFR-2W



Friability Tester

- USP, IP, EP, JP Compliance.
- Microcontroller base device drive.
- 20 x 2 LCD Display for complete information & clear visibility.
- 3 Level Security.
- Programmable Product Data 25 nos.
- Two mode operation - Programmable Counter & Programmable Timer (Real time clock).
- Variable speed from 20 to 50 RPM ± 0.5 RPM.
- Front loading Drum for easy loading & better visibility in run mode.
- Easy lock & Release knob to hold drum in position with no vibration.
- Drum automatically rotates & come to filling position on initialization.
- Support Abrasion Drum (Universal lab).
- Alphanumeric keypad for easy data entry of product info & user details.
- Automatic discharge of test sample after completion of test.
- Input port for weighing scale.
- Auto calculation of result like weight loss & X% Friability.
- Validation of RPM & Count.
- Print Test Report & Validation Report.



VTD-2010



USP Method 1
and USP Method 2



Simultaneous Rotating
and Tapping Motion



User Friendly
Operation



LAN (optional)



Snaplock™
Mechanism



Free Drop of
the Cylinder



Print



Report

Tap Density Tester

✓ Complies with USP & ASTM.

✓ Method:

✓ USP I (Height : $14\text{mm} \pm 2.0\text{mm}$, Taps /min: 300 ± 15).

✓ USP II (Height : $3\text{mm} \pm 0.2\text{mm}$, Taps /min: 250 ± 15).

✓ Mode of Operation: USP & User defined.

✓ 20x2 LCD Display.

✓ Three Level Security.

✓ Measuring Cylinders: 100ml & 250ml.

✓ Easy Click Lock Cylinder Holders.

✓ Tapping & Rotating Motion to keep powder level parallel to ground.

✓ At Power Failure Test Resume after Power resume.

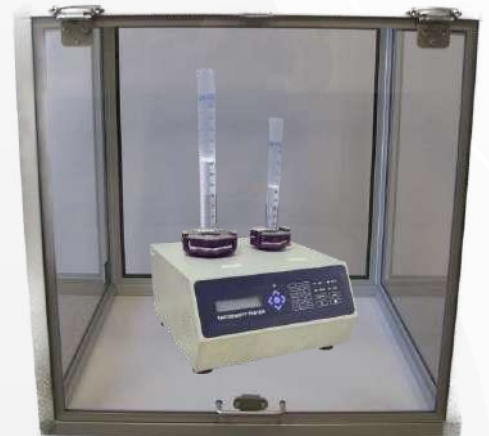
✓ Alphanumeric key pad & USB keyboard interface.

✓ Parallel port interface for Print Reports.

✓ Validation Report.

✓ Adapter for 10ml & 50ml Cylinder optional.

✓ Acoustic Cabinet to minimize noise level (Optional).





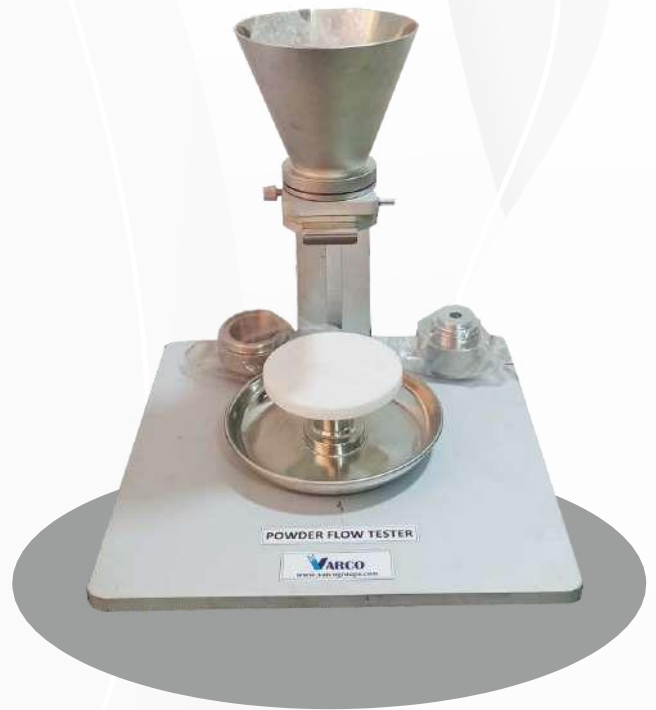
VBT-01



Compliance



Spatula removes excess powder



Bulk Density Tester

- Complies with USP, Ph. Eur. and ASTM specifications
- Completely eliminates the manual procedure followed in
- Manual version of the instrument
- Support to Measures the bulk density of fine powders and similar products
- Useful in calculating powder flow ability index
- 10 mesh screen as standard and other mesh size as optional
- All the material in contact with the sample are made up of
- Stainless Steel 316 grade and glass
- Fully enclosed baffle pack

Powder Flow Tester

- Complies with European Pharmacopoeia.
- Method: Angle of repose.
- Powder and Granules easy & repeatable flow-ability index.
- Easy angle of repose calculation and flow-ability relation with repose angle chart.
- A compact design, which allows the Powder Flow Tester to easily fit on a workbench.
- Powder Flow aperture nozzle - 10mm, 15mm and 25mm.
- Customised Aperture Nozzle (Optional).



VARCOLAB

VSS-08T

2

Modes

2 modes of sifting



Low Maintenance



Isolation of vibrations from work surface



Particle size analysis



Tri-dimensional sifting motion



Programmable amplitude



Programmable sieving duration



Larger LCD



Low noise



User friendly

Sieve Shaker

- Ideal for particle size Analysis and Separation.
- 20 x 4 LCD Display.
- Continuous and Intermittent mode.
- Intermittent Interval : 0.5 sec.
- Max. capacity of 8 Sieves of 50mm ht + Receiver
or
- 16 Sieves of 25mm ht + Receiver.
- Suitable for Dry and Wet Sieve.
- Power Range of 5 - 20 with increment of one digit.
- Timer Range will be of 1-99min with ^ of one digit.
- Amplitude Range from 0.5 to 2.0 with maximum load capacity.
- 5kg Max Load capacity.
- <71 dB Max Noise Level with full capacity.
- 220 - 230 VAC 50Hz 600 VA Power Supply.
- 5 Amp Fuse.
- 320mm L x 400mm W x 381mm H
- 50kg without Sieves Weight.
- 20% - 70% Humidity.
- Ambiance Temp. range from 15°C - 30°C.



Sieve Mesh Chart

APERTURE SIZE			
B.S.S(410/1969)	A.S.T.M. (11-70)	I.S. (469/1972)	MICRONS
4	5	4.00mm	4000
5	6	3.35mm	3353
6	7	2.80mm	2812
7	8	2.36mm	2411
8	10	2.00mm	2057
10	12	1.70mm	1700
12	14	1.40mm	1405
14	16	1.18mm	1180
16	18	1.00mm	1000
18	20	0.850mm	850
22	25	0.710mm	710
25	30	0.600mm	600
30	35	0.500mm	500
36	40	0.425mm	425
44	45	0.355mm	355
52	50	0.300mm	300
60	60	0.250mm	250
72	70	0.212mm	210
85	80	0.180mm	180
100	100	0.150mm	150
120	120	0.125mm	120
150	140	0.106mm	105
170	170	0.090mm	90
200	200	0.075mm	75
240	230	0.063mm	63
300	270	0.053mm	53
350	325	0.045mm	45
400	400	0.037mm	37
500	500	0.025mm	25



VARCOLAB

VHT-3P & VHT-5P



Hardness



Thickness



Print



LAN

Hardness Tester

- *Hardness range 500N.*
- *Measures hardness, thickness, Weight, Diameter/Length and Width.*
- *Touch screen display.*
- *Up to 100 samples per test.*
- *Electronic load-cell.*
- *Adjustable break between the samples.*
- *Weighing scale connectivity.*
- *Constant force and constant speed measuring principles available as standard 99 monographs.*
- *Programmable calibration and verification modes.*
- *Auto/Manual mode with programmable delay time.*
- *Batch size of 100 with separate programmable sample size for individual parameters.*
- *Plausibility and T1, T2 limits.*
- *Printing (Serial/Ethernet) for data and graph selectable.*

Optional Accessory:

- *Validation Kit Includes -*
- *5 kg brass weight*
- *10 mm calibrated gauge block for validation of thickness or 25 mm calibrated gauge block for validation of thickness*



VHT-01P

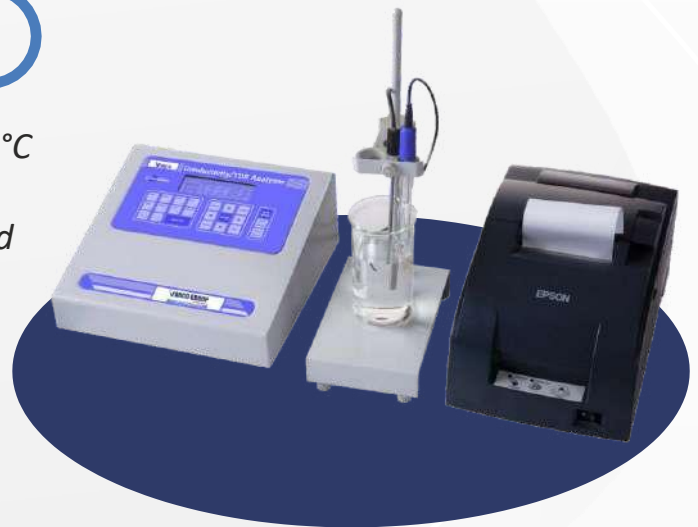
Hardness Tester

- *Utility: Production Batch.*
- *Parameters: Hardness.*
- *Material of Construction: Aluminium.*
- *Jaw Motion: Manual.*
- *PlaGorm: Groove type. Operating Mode: Manual.*
- *RS232 interface for PC connectivity & Print Report.*
- *External Thermal Printer (Optional).*
- *PC Software.*
- *LED Indication.*
- *Jaw opening - 0.1mm - 32mm.*
- *Unit of Hardness: N, Kgf, lbf.*
- *Maximum Hardness Range: Upto 500N.*
- *Hardness Accuracy: $\pm 0.5\%$.*
- *Upper limit (HIDT), Lower limit (LODT).*
- *Verification with 5kg Standard weight.*



Auto Ranging Conductivity

- *Temperature Coefficient : Six - 0-10.000 % per °C (Adjustable) - One Per Range*
- *Temperature Calibration : In-built software and can be calibrated by users*
- *Number of Range : Six*
- *Calibration Standard : Six Conductivity & TDS Standard - One Per Range*
- *Calibration Factor : Six – One Per Range*
- *Resistivity Resolution : 0.001*
- *Salinity : 0.01 to 80000.0 ppm NaCl*
- *Temperature Range : -5.0 to 130.0°C*





VLT-600P



Leak Tester

- To check integrity of packed strips, blisters, small sachets etc.
- Vacuum Level: 150-600mmHg ± 10 mmHg.
- Hold Time: 999sec.
- Slow venting for better precise result.
- Validation Report.
- 20 x 4 LCD Display.
- Alphanumeric Keypad & USB keyboard interface.
- Dot matrix printer, Parallel/Serial interface.
- Data Backup via Serial connectivity.
- Oil less vacuum pump.
- Programmable product data 50nos.
- Security - 3 Level Security.
- Desiccators Size: 6" or 10" or 12".

VTT-M



Torque Tester

- Compatibility: High Resolution, High Accuracy and Easy to operate.
- Real time Data Transfer: It can transmit the data through RS-232 to PC during every test.
- Unit selection & Conversion: Units available Kgf.cm/Inch.lbs/daN.cm/N.cm/N.m/KP.
- Parameter Measurements: very low; low; high; very high who permit to detect and display message of quality in relation with the detected torque (visualization on bar-graph).
- Memorization of 4 thresholds: The Bottle Cap Torque Tester can set the Upper and Lower limit Deviation value to judge the measured results. It has the buzzer which can alarm automatically with sound and light.
- Display: Monochrome Graphical Display.
- Results Storage: Measures 20 batch data value with date and time available.



VMP-06H

Multi Point Stirrer with Hot Plate

- Utility: Production Batch.
- Parameters: RPM & Heating.
- Material of Construction: SS 304
- Operating Mode: Manual.
- LED Indication.



Melting Point Apparatus

- Temperature Controller :
Microcontroller Based
- Detection Principal of Melting Point :
Automatic by Silicon Photodiode
- Heating Media : By Aluminum Block
- Temperature Range : +5°C above
ambient to 400°C
- Temperature Accuracy :
A) +5°C above ambient to 100°C - ±0.2°C
B) 101°C to 200°C - ±0.4°C
C) 200°C to 400°C - ±0.5°C



Karl Fischer Titrator

- Method of Detection :
Conductometric / Volumetric
- Dispensing Resolution : 0.001ml
- Stirring Time : 00:00 to 99:00
(mm:ss) – users adjustable
- Calculation of % RSD : Possible
- Type of Electrode : Dual Platinum -
Combined Type





VMP-06H



Peristaltic Pumps

- We can meet the industries requirement wherever contamination free liquid transfer is needed with controlled speed and precision.
- We offer pumps for both filling & transferring from micro-liter up to 1pm both in Non Flame Proof & Explosion proof with single head and multiple head.

Pump Model	VG-10V	VG-20V	VG-30V	VG-40V
Pump Head MOC	Aluminum, spring loaded track	Aluminum, spring loaded track	Metal, spring loaded track	Metal/Casting, spring loaded track
Number of Pinch Rollers	2	2	2	2
Type of Motor	Stepper	Stepper	Stepper	AC
Torque (̑) of Motor	18	18	18	0.25 HP
Rotation Speed	1 ~ 200	1 ~ 200	1 ~ 200	20 ~ 240
Tube Bore Size (mm)	1 up to 4	2 up to 8	3 up to 12	6 up to 19
Tube Wall Thickness (mm)	1.5 / 1.6	1.5 / 1.6	1.5 / 1.6	3 / 3.3
Flow Rate (ml./min.)	0.1 ~ 300	1 ~ 2000	5 ~ 3500	250 ~ 20000
Operation Duty	Continuous	Continuous	Continuous	Continuous
Direction	CW / CCW	CW / CCW	CW / CCW	CW / CCW



VHC



Tri-dimensional sifting motion

2

Modes

2 modes of sifting



Low Maintenance



Isolation of vibrations from work surface



Programmable amplitude



Programmable sieving duration



Larger LCD



Low noise

Autoclave

Features:

- The sterilizer is designed for a standard working pressure of 1.2 kg/cm i.e. 121° C or an optional High Speed (Flash working pressure of 2.1 kg/cm i.e. 134° C which substantially reduces cycle time.
- Our high efficiency Steam Sterilizers is designed for maximum thermodynamic efficiency and robust in construction. Built with an inner chamber of AISI 304/316 grade Stainless Steel, Jacket of AISI 304 grade
- Stainless Steel, Door of AISI 304 grade Stainless Steel, the strong argon arc welded chamber and jacket ensures a leak proof construction.

Centralized Control Point:

- Multi-port operating valve/solenoid valve, control for the entire cycle of the operation.
- Permits two exhaust speeds, fast & slow.
- Easy tread compound gauge for the chamber and pressure gauge for the jacket.
- Smooth Operations

Safety Features:

- Self locking safety door cannot be opened while chamber is under pressure.
- MOC of door gasket is heat resistant SILICON.
- Pressure switches (on electric models) economize power consumption.
- Low water protection design protects the electric heaters.
- Temperature gauge/Digital temperature indicators/Controllers are available as option.
- Safety valve for the jacket/boiler.



Vertical Autoclave

Application:

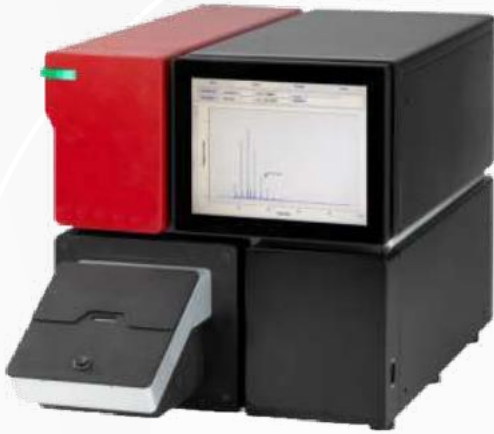
✓ Varco make Autoclave is mainly used in the Microbiology, Hospital, QC & Research Laboratories, and Pharmaceutical Industry etc.

Features:

- ✓ Temperature is automatically maintained by digital controller, which controls-Pressure & Temperature with auto air purge, digital timer, auto steam exhaust, low water level cut-off
- ✓ Vertical design has triple chamber for steam and water
- ✓ Working chamber is made of SS316 grade of 3mm thickness and outer cover is made of SS having 1mm thickness
- ✓ Pressure range: 15 to 22 PSI, factory set at 15 PS
- ✓ Lid fitted pressure gauge 0-30 PSI. Safety spring loaded pres evalue and s release valve
- ✓ Hydraulically tested at 60 PSI Electrical: 230V/32A/50Hz
- ✓ Temperature Sensor PT-100. Temperature Range: 121° C to 125° C
- ✓ Temperature Resolution 0.1° C. Temperature Accuracy $\pm 0.5^{\circ}$ C

Safety Features:

- ✓ Safety valve for chamber and jacket Automatic purging system
- ✓ WLC System for heater protection
- ✓ Dial type pressure gauge to indicate pressure in the chamber Pressure release value to cure from chamber
- ✓ Audiovisual system after completion of cycle



Ion Mobility Spectrophotometer

- *With the GA2200 High Performance Ion Mobility Spectrometry Analyzer:*
- *Identify existence of trace residues, directly on the production line*
- *Get production equipment back online faster between different manufacturing batches/lines*
- *Know that you are compliant with regulations*
- *Get a flexible solution: when combined with our ESI source, it can also be used as an HPLC, for the analysis of non-volatile organics and biologics*

Container Closure Integrity Testing (CCIT)

- *Vacuum Decay Method*
- *Pressure Decay Method*
- *Lid Deflection*
- *Force Decay*
- *Headspace Gas Analysis (HGA)*



Accessories



VARCOLAB



Quality of perseverance

Manufacturer & Exporter of
Pharmaceutical Machinery

USA

1480 US Highway 46#, 273B,
Parsippany, New Jersey, 07054,
USA

Canada

192 Brammar Street, Newmarket,
ON L3Y7T4, Canada

South Africa

36 Brushwood Estate,
Sundowner, Randburg,
Johannesburg, 2188

Vietnam

136 Tran Vy street, Cau Giay district,
Ha noi city, Viet nam

Australia

15 Symonds Ave, North Parramatta
NSW 2151

Jordan

Khalaf Pharma, Amman - Jordan
Wasfi Al Tal 139 -308



Plant : PAP R-503 Rabale MIDC Rabale Navi Mumbai Maharashtra 400701
R&D : Varcolab House, CL-10, 12, Spanish Residency, Chinchoti, Naigaon (East),
District : Palghar, Maharashtra - 401208

www.varcolab.com

+91 9322427888 +91 9322027888

dineshy@varcolab.com

sales@varcolab.com