



# BIO TECHNO LAB

ISO & CE CERTIFIED

CATALOGUE

Mfg. of :  
**Laboratory Pharmaceutical Scientific  
&  
Analytical Instruments**

# ABOUT US

Established in the year 2008 by Mr Jatin Parekh, we are a prominent manufacturer of Laboratory and Scientific Equipment. Our products find high demand in market because of its Performance, Reliability, Longer functional life and cost effectiveness. The company has manufacturing unit in Vasai incorporated with most advanced technologies for high quality products. Our team follows all guidelines and quality standards of ISO 9001:2015. With our head office in Mumbai, we also have a customer support team that is dedicated completely to our clients. Prompt delivery and After sales service is the key factor of our company.

## Certificate

This is to Certify that

**BIO TECHNO LAB**  
GROUND FLOOR, SHOP NO.1, 288/90, DR CAWASJI  
HORMUSJI STREET, DHOBI TALAVO, MUMBAI,  
MAHARASHTRA-400002, INDIA

has been found in Compliance with requirements of

### Quality Management System ISO 9001:2015

for the following scope:

**DEALS IN SCIENTIFIC INSTRUMENTS & EQUIPMENTS FOR  
PHARMACEUTICAL, ANALYTICAL & LABORATORY.**

Certificate No. : QCC/E454/0425

Issue Date : 05-April-2025

1st Surveillance Due : 04-March-2026

2nd Surveillance Due: 04-March-2027

Expiry Date : 04-April-2028

To check this certificate status visit:  
"https://qccertification.com/Client.aspx"

**Quality Control Certification**  
Website: <https://qccertification.com>

EAS is member of International Accreditation Forum (IAF)

This certificate remains the property of "QCC" to whom it must be returned on request.

## MQA

### Certification

Certificate of Compliance

We hereby declare that the technical file of product complied with the requirement of Medical Device Directives (93/42/EEC) As Modified by (2007/47/EC).

**Name : BIO TECHNO LAB**

**Address: REGD.OFFICE: 288/90, DR.C.H STREET, DHOBI TALAVO, MARENULIUS (3), MUMBAI-400 002, MAHARASHTRA, INDIA**

**Product:** AUTOLAVE, AUTOMATIC DOPC READER, BUNSEN BURNER ELECTRICAL, BICL DENSITY APPARATUS, BUBBLES COUNTER, BATH THERMOSTAT, INCUBATOR, BIO-SAFETY CABINET, COOLING COVER, CONSTANT TEMPERATURE WATER BATH, FLOCCULATOR LAB TEST APPARATUS, HEATING MANTLE WITH REGULATOR, HOT PLATE, HUMIDITY OWEN, HOT AIR OVEN, LABI FORMER, AUTOMATIC, EYE BATH, INDUCTION & BOTTLE ALKALINE APPARATUS, KINEMATICS THERMOCITY BATH, LABORATORY JACK, LABONAR AIR FLOW, LAB TEST APPARATUS, MELTING POINT APPARATUS, MAGNETIC STIRRER WITH HOT PLATE, MICRO PIPETTE, OIL BATH VIBRA, DRIFT BRAKING INCUBATOR, COMBINAL POTARY BRAKER, SHAKING WATER BATH, STERILITY UNIT, TEST SHAKER TABLE TOP, SHAKER & EXTRACTION MANIPUL TYPE, TISSUE SHAKER, TABLE HARDNESS TESTER, TABLE DENSIFICATION UNIT, MANUAL TABLE DENSIFICATION TEST - DIGITAL, ULTRA VIOLET DISINFECTANT UNIT, ULTRA-SOUND CLEANER, VACUUM PUMP PORTABLE, IMPROVED, VACUUM OVEN, WATER STEEL MANUITY FURN.

The certification body has performed on each of the above product quality systems covering the design, manufacture and final inspection of certified product. The quality system has been assessed, approved and is subject to continuous surveillance according Medical Device Directives (93/42/EEC) As Modified by (2007/47/EC).

**This certificate issued under the following conditions:**

- It applies only to the quality system maintained at the manufacturing of above referenced models and it does not authorize the design or type variations previously, if required.
- The certificate remains valid until the manufacturing conditions or the quality system are changed.
- The certificate validity is conditioned by audit's results of surveillance audits.
- After fulfilling relevant EU legislation, the manufacturer shall affix to each device, of the referenced models, the CE mark as shown above can be used under the responsibility of the manufacturer after completion of an ISO Declaration of conformity and compliance with all relevant EEC Directives. The statement is based on a single evaluation of one sample of above referenced product. Not apply an assessment of the whole production.

**:: Certificate No :: CE/22M0693**

**Date of initial registration: 25 May 2022**

**First Surveillance Audit on or before: 24 May 2023**

**Second Surveillance Audit on or before: 24 May 2024**

**Re-certification Due: 24 May 2025**

This Certificate is property of MQA and remains valid  
Subject to satisfactory surveillance audits.

Authorized Signatory  
**MQA CERTIFICATION SERVICES**  
101/1, B-1, MIDC, VASAI WEST, DISTRICT THANE, MAHARASHTRA, INDIA

To check validity of the certificate please visit at [www.mqa-certification.com](http://www.mqa-certification.com)

This certificate is issued in compliance with the ISO 9001:2015 standard. It is not a guarantee of performance. It is a declaration of conformity with the requirements of the standard. It is not a guarantee of performance. It is a declaration of conformity with the requirements of the standard. It is not a guarantee of performance. It is a declaration of conformity with the requirements of the standard.

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## BTL- 3 AUTOCLAVE VERTICAL TYPE – FULLY AUTOMATIC

### Technical Specification

- ❖ Double walled construction, Inner chamber is made up of thick stainless steel (304) & the Outer body is made up of thick Stainless Steel 304.
- ❖ The chamber is absolutely leak proof & can be operated at any selected point in between 5 to 20 pounds per sq. inch – with PID Digital Controller & Timer.
- ❖ Working Temp 121 °C to 125 °C along with S.S. basket Pressure gauge.
- ❖ Release cock, Safety valves (2), Drain valve (bottom).
- ❖ Pressure cut off switch, Solenoid Valve.
- ❖ Water level cut off & with foot lifting arrangement.

Sr. No	Size			Rating Watts
	Cm	Inch	Liters	
A	25cm X 45cm	10" X 18"	22 Ltrs	2000
B	30cm X 50cm	12" X 20"	35 Ltrs	2000
C	35cm X 55cm	14" X 22"	52 Ltrs	3000
D	40cm X 60cm	16" X 24"	90 Ltrs	4000
E	45cm X 60cm	18" X 24"	95 Ltrs	4000
F	45cm X 75cm	18" X 30"	120 Ltrs	4500
G	55cm X 75cm	22" X 30"	175 Ltrs	5000
H	55cm X 90cm	22" X 36"	200 Ltrs	6000



## BTL- 7 B.O.D. INCUBATOR (BIOLOGICAL OXYGEN DEMAND)

### Technical Specification

- ❖ Castor wheel mounted cabinet is double walled with inner chamber of stainless steel & outer wall of M.S. Sheet duly powder coated.
- ❖ Double walled back of the unit is fitted with air circulation fan motor with blower for maintaining temperature uniformity throughout the chamber.
- ❖ Motor of 1/12 HP 1440 RPM. Full view inner glass door permits inspection of specimens without disturbing the same.
- ❖ Lock & Key arrangement is provided in the double walled outer door. Unit is fitted with door operated illumination lamp inside the chamber.
- ❖ The front panel is provided with separate indicator lamps for main, heating & incoming voltage.
- ❖ Supplied complete with adjustable shelves, cord & plug to work on 220/230 volts A.C. supply.
- ❖ The temperature range is from 5°C to 60°C accuracy  $\pm 0.5^{\circ}\text{C}$  is controlled by Digital Temp indicator – cum – controller.
- ❖ Compressor make 'Kirloskar' with CFC free Gas

Capacity	Inner Dimension
1.5 Cu.Ft (40 Ltrs)	35 X 35 X 35 Cm
3 Cu. Ft (90 Ltrs)	45 X 45 X 50 Cm
6 Cu. Ft (170 Ltrs)	50 X 50 X 70 Cm
10 Cu. Ft (280 Ltrs)	55 X 55 X 90 Cm
12 Cu. Ft (330 Ltrs)	60 X 60 X 90 Cm

### Optional Accessories:

- ❖ Data logger controller with printer output/ pc connecting with Software
- ❖ PLC based touch screen HMI controller with data recording



## BTL- 8 B.O.D. INCUBATOR - GMP MODEL

### Technical Specification

- ❖ Castor wheel mounted cabinet is double walled with inner chamber of stainless steel 304 & outer wall S.S. 304 with mirror finish.
- ❖ Double walled back of the unit is fitted with air circulation fan motor with blower for maintaining temperature uniformity throughout the chamber.
- ❖ Motor of 1/12 HP 1440 RPM. Full view inner glass door permits inspection of specimens without disturbing the same.
- ❖ The gap between two walls is filled with puff insulation & cooling is provided by 'Kirloskar' compressor with CFC free Unit is fitted with door operated illumination lamp inside the chamber.
- ❖ The front panel is provided with separate indicator lamps for main, heating & incoming voltage.
- ❖ Supplied complete with adjustable shelves, cord & plug to work on 220/230 volts A.C. supply.
- ❖ The temperature range is from 5°C to 60°C accuracy  $\pm 0.5^{\circ}\text{C}$  is controlled by Microprocessor based Digital temperature indicator – cum – controller.

Capacity	Inner Dimension
1.5 Cu.Ft (40 Ltrs)	35 X 35 X 35 Cm
3 Cu. Ft (90 Ltrs)	45 X 45 X 50 Cm
6 Cu. Ft (170 Ltrs)	50 X 50 X 70 Cm
10 Cu. Ft (280 Ltrs)	55 X 55 X 90 Cm
12 Cu. Ft (330 Ltrs)	60 X 60 X 90 Cm

### Optional Accessories:

- ❖ Data logger controller with printer output/ pc connecting with Software
- ❖ PLC based touch screen HMI controller with data recording



## BTL- 9 BACTERIOLOGICAL INCUBATOR (LAB TYPE)

### Technical Specification

- ❖ We manufacture & provide superior quality bacteriological incubator which is fabricated using qualitative raw material.
- ❖ Our bacteriological incubators are double walled with the outer body fabricated with mild steel while the inner body in mild steel, or stainless steel.
- ❖ The inner body is lagged with glass wool & the temperature controlled by capillary type thermostat, temperature range 5°C above ambient to maximum 60°C with accuracy range of  $\pm 2^\circ\text{C}$ .
- ❖ Within the incubator, glass door is available.

Size		Rating Watts
Cm	Inch	
30 X 30 X 30	12" X 12" X 12"	250
35 X 35 X 35	14" X 14" X 14"	300
45 X 45 X 45	18" X 18" X 18"	400
45 X 45 X 60	18" X 18" X 24"	750
60 X 60 X 60	24" X 24" X 24"	1000
45 X 60 X 90	18" X 24" X 36"	1250
60 X 60 X 90	24" X 24" X 36"	1500



### Optional Accessories:

- ❖ Digital Temperature indicator cum Controller
- ❖ For Air Draft with FHP Motor
- ❖ Digital timer with Temperature Controller

## BTL- 12 CONSTANT TEMPERATURE WATER BATH

### Technical Specification

- ❖ Rectangular double walled in construction. Inner chamber made of stainless steel & outer body made of mild Bsteel duly powder coated.
- ❖ Temperature range 5°C above ambient to 95°C.
- ❖ Fitted with immersion type heater, digital temperature controller cum indicator accuracy  $\pm 0.5^{\circ}\text{C}$ .
- ❖ Operating on 230 V AC. fitted with circular pump with stirrer to re-circulate water at constant temperature.

Size		Ltrs	Rating Watts
Cm	Inch		
30 X 25 X 20	12" X 10" X 8"	20 Ltrs	1500
45 X 30 X 25	18" X 12" X 10"	27 Ltrs	2000
45 X 35 X 30	18" X 14" X 12"	35 Ltrs	2500



## BTL- 13 C.O.D.DIGESTOR-DIGITAL CHEMICAL OXYGEN DEMAND

### Technical Specification

- ❖ DIGITAL COD DIGESTOR is suitable for COD method for monitoring waste water influent & effluent, industrial process water & more this instrument is used by Pollution Control Labs.
- ❖ Outer cabinet made of mild steel duly coated.
- ❖ Double wall construction with insulation for minimum heat losses increases the efficiency of the system.
- ❖ Aluminum Block with holes dimension is used to hold 15 nos.
- ❖ COD tubes Aluminum block is heated to maintain temperature up to 180 °C solid state digital temperature controller, appropriate heater & insulation selection assure uniformity in all the samples.
- ❖ Selectable time up to 120 min with alarm is provided to set the digestion period (Refluxing) After digestion, analyse the sample with either colorimetric or titrimetric method

Temperature Range	Above amb. To 180 oC or higher
Resolution	1 °C
Display	Digital 12 mm Rod LED
Control	Digital electronic Temperature Controller
Heater Rating	750 Watts, 1000 Watts, 1500 Watts
Sensor	PT-100
Timer	Selectable 15, 30, 45, 60, 90 or 120 min with alarm
Hole Size	40 mm dia c 80 mm depth
Glass Tube	38 mm dia 15 nos (5x3 rows) 10nos (5x2 rows), 6 nos (3x2 rows)
Sample Volume	20 ml, Each
Dimension	500 W x 270 D x 210 mm H



## BTL- 25 HOT AIR OVEN ( LABORATORY TYPE)

### Technical Specification

- ❖ Double walled inner made of thick stainless steel, outer made of heavy duty / G.I. duly powder coated.
- ❖ The inner body is lagged with glass wool Temp range 50°C to 250°C Temp accuracy  $\pm 2^{\circ}\text{C}$  controlled by thermostatic.

Size		Approx Liters	Rating Watts	As per the Size No. of Shelves
Cm	Inch			
30 X 30 X 30	12" X 12" X 12"	27	1250	1
35 X 35 X 35	14" X 14" X 14"	44	1450	2
45 X 45 X 45	18" X 18" X 18"	90	1750	2
45 X 45 X 60	18" X 18" X 24"	120	2000	3
60 X 60 X 60	24" X 24" X 24"	220	2500	3
45 X 60 X 90	18" X 24" X 36"	250	3000	4
60 X 60 X 90	24" X 24" X 36"	330	3500	4



### Optional Accessories:

- ❖ Digital Temperature indicator cum Controller
- ❖ For Air Draft with FHP Motor
- ❖ Digital timer with Temperature Controller

## BTL- 27 HOT AIR OVEN (GMPMODEL)

### Technical Specification

- ❖ Double walled inner made of thick S.S 304, outer made of heavy duty S.S 304.
- ❖ Temp range 50°C to 250°C Temp accuracy  $\pm 1^\circ\text{C}$  controlled by microprocessor based digital controller & air circulation for better uniformity.
- ❖ Supplied with S.S. wire mesh sieves.

Size		Approx Liters
Cm	Inch	
35 X 35 X 35	14" X 14" X 14"	43
45 X 45 X 45	18" X 18" X 18"	90
45 X 45 X 60	18" X 18" X 24"	120
60 X 60 X 60	24" X 24" X 24"	215
60 X 60 X 90	24" X 24" X 36"	325



### Optional Accessories:

- ❖ Data logger controller with printer output/ pc connecting with Software
- ❖ PLC based touch screen HMI controller with data recording

## BTL- 29 HUMIDITY OVEN (Environmental Test Chamber) (Stability Chamber) (Cooling Type)

### Technical Specification

- ❖ Suitable for carry out different quality control tests under controlled conditions of temperature & humidity.
- ❖ Double wall construction.
- ❖ Inner chamber is made of stainless steel & outer wall of mild steel sheet duly powder coated.
- ❖ Puff Insulation provided between two walls. Inner stainless steel with 2/3 nos adjustable wire mesh shelves.
- ❖ For temperature below ambient temperature range 10 °C to 60 °C.
- ❖ Humidity range 40% above 85% RH complete with sealed compressor unit wet dry, bulb & electronic digital indicator cum temperature Reservoir rating is approx 3.5 K.W (Max).

Capacity	Size ( H X W X D)
3 Cu. Ft 90 Liters	45 X 45 X 45 Cm
6 Cu. Ft 180 Liters	50 X 50 X 70 Cm
10 Cu. Ft 300 Liters	55 X 55 X 95 Cm
12 Cu. Ft 360 Liters	60 X 60 X 90 Cm
(If required) Up to 95% RH Sensor	



### Optional Accessories:

- ❖ Data logger contraller with printer output/ pc connecting with Software
- ❖ PLC based touch screen HMI controller with data recording

## BTL- 30 HUMIDITY OVEN (Environmental Test Chamber) (Stability Chamber) (GMP MODEL)

### Technical Specification

- ❖ Suitable for carry out different quality control tests under controlled conditions of temperature & humidity.
- ❖ Inner chamber is made of stainless steel 304 & outer wall of stainless steel 304. Puff Insulation provided between two walls.
- ❖ Inner stainless steel with 2/3 nos adjustable wire mesh shelves.
- ❖ For temperature below ambient temperature range 10 °C to 60 °C. Humidity range 40% above 95% RH complete with sealed compressor unit wet dry.
- ❖ Bulb & electronic digital indicator cum temperature Reservoir rating is approx 3.5 K.W (Max).

Capacity	Size ( H X W X D)
3 Cu. Ft 90 Liters	45 X 45 X 45
6 Cu. Ft 180 Liters	50 X 50 X 70
10 Cu. Ft 300 Liters	55 X 55 X 95
12 Cu. Ft 360 Liters	60 X 60 X 90

### Optional Accessories:

- ❖ Data logger controller with printer output/ pc connecting with Software
- ❖ PLC based touch screen HMI controller with data recording



## BTL- 37 LAMINAR AIR FLOW (GMP MODEL)

### Technical Specification

- ❖ A Laminar Flow is designed to provide working space comprising as standard features Outer body made of SS 304 material & Inner made of S.S. 304 material.
- ❖ HEPA filter having efficiency of 99.97% down to 0.3 microns.
- ❖ Prefilter 90% down to 5 microns,
- ❖ Suitable motor blowing assemblies.
- ❖ Working table topside Acrylic panel, gas cork.
- ❖ 1 fluorescent tube light & 1 UV light & pressure differential Manometer.

Model Type	HM - 1 / VM - 2	HM - 3 / VM - 3	HM - 4 / VM - 4
Working Area	2FT x 2FT x 2FT	3FT x 2FT x 2FT	2FT x 2FT x 2FT
Size of Filter	2FT x 2FT x 3"	3FT x 2FT x 3"	2FT x 2FT x 2FT
HEPA Filter (With Unit)	One	One	
PRE Filter (With Unit)	One	One	One
Illumination	1 x 20 watts	1 x 20 watts	1 x 40 watts
Horizontal ( With Unit)	84,000/-	1,09,000/-	1,40,000/-
Vertical ( With Unit)	98,000/-	1, 18,000/-	1,54,000/-
Digital LCD Display	14,000/-	14,000/-	14,000/-
Illumination	1 x 20 watts	1 x 20 watts	1 x 40 watts
Horizontal ( With Unit)	1,40,000/-	1,09,000/-	2,20,000/-
Vertical ( With Unit)	1,50,000/-	1, 70,000/-	2,35,000/-
Digital LCD Display	14,000/-	1,84,000/-	14,000/-



## BTL- 42 MUFFLE FURNACE (LIGHT WEIGHT)

- ❖ Useful for hardening, annealing, reheating etc.
- ❖ Light weight high temp ceramic fiber wool insulation.
- ❖ Outer body thick P.C.R.C. sheet duly powder coated.
- ❖ Heating elements are of KANTHAL 'A-1 Wire', K type sensor.
- ❖ Two Pilot Lamps with Microprocessor based Digital Temp Controller. & to work on 220/230 Volts AC.
- ❖ The max temp is 1200 °C & working temp is 1100°C

Size	Rating
9" X 4" x 4"	2.0
10" X 5" x 5"	2.5
12" X 6" x 6"	3.5
18" X 9" x 9"	6.0



## BTL- 45 OIL BATH (CLEAR BOTTOM SERIES)

### Technical Specification

- ❖ Double walled inside made up of S.S 304 & outside of S.S. 304 & gap between two walls is fitted with high grade glass wool to minimize thermal loss.
- ❖ Temp range from ambient 50°C to 250°C accuracy  $\pm 2^\circ\text{C}$ , temp to work 220/230 volts A.C. supply.
- ❖ Heater provided will be completely jacked

Capacity	Inner Working Size	Rating (Watts)
1 Litre Flask	165x90(D)	1000
2 Litres Flask	205x115(D)	1200
3 Litres Flask	225x130(D)	1200
5 Litres Flask	270x155(D)	1500
10 Litres Flask	335x190(D)	2000
20 Litres Flask	400x220(D)	3000



### Optional Accessories:

- ❖ Digital Temperature Controller cum Indicator

## BTL- 46 ORBITAL SHAKING INCUBATOR (COOLING)

- ❖ Doubled wall inner S.S. outer mild steel temperature range to 10 °C to 60 °C  $\pm$  0.5 °C controlled by preset dual display electronic digital temp. Controller indicator.
- ❖ RPM range : 50 to 200 Rpm orbital (25cms) variable speed controlled by digital display RPM controller cum indicator (permanent Magnet DC Motor)
- ❖ Complete with stainless steel tray lotus shaped spring action clamps but without conical flask.

Size	Capacity / Flask
a)	9 x 250 ml
b)	16 x 250 ml
c)	9 x 500 ml
d)	16 x 500 ml



### Optional Accessories:

- ❖ Data logger controller with printer output/ pc connecting with Software
- ❖ PLC based touch screen HMI controller with data recording

## BTL- 51 SOXHLET EXTRACTION MANTLE TYPE

### Technical Specification

- ❖ Supplied without Glass Parts ,Clamps & Bosheads Body construction of M.S. sheet with powder coating & with energy regulators

Capacity	No. of Flask Recess	No. of Regulator
250 ml	3	3
500 ml	3	3
1000 ml	3	3
250 ml	4	4
500 ml	4	4
1000 ml	4	4
250 ml	6	6
500 ml	6	6
1000 ml	6	6



### Optional Accessories:

- ❖ Digital Temperature Controller

## BTL- 57 ULTRASONIC CLEANER

### Technical Specification

- ❖ Most Advance Bench top ultrasonic cleaner for surgeon, hospitals & laboratories puts an end to the potentially dangerous, inefficient.
- ❖ Ineffective hand scrubbing of delicate expensive instruments by adopting the cleaning technology used world-over.
- ❖ SMPS power source ensure an amazing >90 % efficiency, compared to 60% of conventional liner source.
- ❖ 50% of the weight & size of conceptional machines.
- ❖ Energy saving faster cleaning, higher reliability.
- ❖ Optional mechanical or presentable 15 minutes digital countdown timer with display.

Tank Dimension (LXBXH) in mm	Capacity (Litres)	Ultrasonic Power in Watts
235 X 135 X 65	1.5	50
235 X 135 X 100	2.25	60
300 X 150 X 100	3.5	100
250 X 150 X 150	5.5	150
300 X 150 X 150	6.5	200
300 X 180 X 150	8.0	200
300 X 200 X 150	9.0	250
300 X 230 X 150	10.0	250
300 X 300 X 150	12.0	300
350 X 300 X 200	21.0	400
400 X 300 X 250	27.0	500



### Optional Accessories:

- ❖ Digital Temperature Controller

## BTL- 60 VACUUM OVENS (WITHOUT VACUUM PUMP)

### Technical Specification

- ❖ Vacuum ovens are commonly using the temp range from 50 °C to 200 °C. Double wall construction,
- ❖ Inner chamber is made out of stainless steel & outer of MS sheet beautifully powder coated.
- ❖ Glass wool insulation is provided all around the chamber to minimize heat loss due to radiation.
- ❖ The door is provided with a toughened glass window to view the samples placed inside.
- ❖ The digital temperature is controlled & indicated by a Maximum vacuum: 760 mm of Hg. Mains 220\ 230 V.AC

#### a) ROUND

Size	Rating Watts
9"dia* 12" depth	300
12"dia* 15" depth	750
15"dia* 18" depth	950

#### b) RECTANGULAR

Working Chamber L* W* D*	Size In Ltrs	Rating Watts	No. of Shelves
8 X 8 X 12	12 Ltrs	1600	2
12 X 12 X 16	37 Ltrs	1800	2
14 X 14 X 20	63 Ltrs	2000	3
18 X 18 X 24	120 Ltrs	2200	3
20 X 20 X 30	150 Ltrs	2500	4



### Optional Accessories:

- ❖ PLC based touch screen HMI controller with vacuum Transmitter

## BTL- 61 VACUUM OVENS GMP (WITHOUT VACUUM PUMP)

### Technical Specification

- ❖ Vacuum ovens are commonly using the temp range from 50 °C to 200 °C.
- ❖ Double wall construction, inner chamber is made out of stainless steel 304 & outer of stainless steel 304
- ❖ Glass wool insulation is provided all around the chamber to minimize heat loss due to radiation.
- ❖ The door is provided with a toughened glass window to view the samples placed inside.
- ❖ The digital temp is controlled & indicated by a Maximum vacuum: 760 mm of Hg. Mains 220\ 230 V.AC

#### a) ROUND

Size	Rating Watts
9"dia* 12" depth	300
12"dia* 15" depth	750
15"dia* 18" depth	950

#### b) RECTANGULAR

Working Chamber L* W* D*	Size In Ltrs	Rating Watts	No. of Shelves
8 X 8 X 12	12 Ltrs	1400	2
12 X 12 X 16	37 Ltrs	1800	2
14 X 14 X 20	63 Ltrs	2000	3
18 X 18 X 24	120 Ltrs	2200	3
20 X 20 X 30	150 Ltrs	2500	4



## BTL- 66 UV PASSBOX /STATIC PASS BOX/ DYNAMIC PASS BOX

### Technical Specification

- ❖ Pass Box is used in pharmaceuticals to transfer materials and helps to maintain class between two areas.
- ❖ Pass box prevents air from flowing from one location to another during material transfer.
- ❖ Static Pass box comprises of simple boxes mounted between two areas.

### FEATURES

- ❖ Cabinet fabricated in SS 304/316 Static Pass box.
- ❖ Pre- installed white and UV germicidal light.
- ❖ Power supply Single Phase 220V / 50Hz.
- ❖ SS 304 hinges and door handle.
- ❖ Double walled cabinet with door and toughened glass.
- ❖ Cabinet is easy to clean and disinfect.
- ❖ Digital LCD Display.

Size
12 X 12 X 12
14 X 14 X 14
18 X 18 X 18
24 X 24 X 24
36 X 36 X 36



## BTL- 68 BIO SAFETY CABINET CLASS II A2 (GMP MODEL)

### Technical Specification

- ❖ HEPA filters will be MINIPLATE with 99.99% efficiency for 0.3 micron with integral metal guards & filter frame gaskets and manufactured in class 100 super clean air conditioned environment for longer life.
- ❖ Air pressurization system statically and dynamically balanced, fitted with special vibration reducing system to suit low noise and vibrations.
- ❖ UV lamp working zone (40 micro watts/ square cm at 254 mm or better) and placed so that the operator cannot see directly i.e. eyes should be always protected. UV Auto Cutoff
- ❖ Switches & Electrical sockets outlets for 15/5 amp.
- ❖ Pressure Monitors like Magnehelic gauge to indicate pressure drop across
- ❖ Exhaust blower capable for 100% exhaust interconnected with supply air blower; system will only start when the negative pressure is developed.
- ❖ Back holes on vertical walls to provide more work area on table.
- ❖ Suitable power supply 230 volt a/c

### FEATURES:

- ❖ Complete body made in SS 304 (Heavy gauge)
  - Table top and working zone made of stainless steel (304 grade) Heavy gauge-20 G
- ❖ Table top will be in two parts:
  - a) Front perforated portion 5" in size
  - b) Non perforated working zone
- ❖ Air Flow will be vertical down flow with 70 % Circulation and 30 % exhaust
- ❖ Cleanliness level less than 3.5 particles/ liter of 0.5 mm and larger.
- ❖ Noise Level less than 70 db. In 1 meter
- ❖ Vibration level: Less than 2.3 mm.
- ❖ Average air flow  $90 \pm 20$  fpm (down flow).
- ❖ Door semi automatic.
- ❖ Biosafety Display- Microprocessor LCD Display



## BTL- 69 FUME HOOD

### Technical Specification

Specification	Description
Design Structure	
Inside Fume Hood Interior	Laminate sheet
Airflow Type	Low Constant Volume (for A.C.environment)
Construction (Exterior)	Anti-corrosive Powder coated (70 to 80 microns) durable, 1.2mm & 1.0mm heavy duty CRCA (as per IS: 513) sheets with rigid structure/ M.S. Steel 20 Gaze Anti Corrosive Powder Coated.
Construction (Exterior) GMP MODEL	Outer body made up of complete SS 304
Construction (Interior)	Chemical (especially strong acid like H <sub>2</sub> SO <sub>4</sub> and HNO <sub>3</sub> ) resistant & Heat Resistant, Fire Retardant, Smooth Finish, Easily Cleanable Panels.
Worktop	Jet black granite 20 mm thignes
Sash (Shutter)	Vertical rising counter-balanced sash. Toughened Float Glass sash(6 mm thick). Clear openable height = 700 mm. Fail safe device - Shutter fail-safe locking arrangement to prevent sudden breakdown of shutter.
Wet & Dry Service fittings	colour coded Needle Valves for fine control over utilities total 2 nos 1 for Water 2 for gas 6mm internal dia, withstands up to 15 kgf pressure and brass fittings for gas connections on left hand side Water connection with basin provided
Lighting	Fluorescent light (40 watt, 1 Nos.) with vapour-proof fitting for proper illumination.
Electrical Utilities	Two nos. electrical sockets (230 V, 6/16 A, 50 Hz) and switch. light switch on front facia. Cables & wires 'Fire Retardant' grade. On right hand side
Cable entering port	For easy access of cables from fume hood to electrical sockets.
Level adjusting screws	Made of p p Bolts to adjust the fume hood level by ±10 mm.
INSTALLATION:	Should be carried out by your skilled team with ductwork design, fitting,
WARRANTY:	12 months warranty against all manufacturing defects from the date of installation
Blower	with IPH 3 Phase PP Blower installation Change extra applied



## BTL- 70 CO2 INUBATOR

### Technical Specification

- ❖ Carbon dioxide (CO<sub>2</sub>) incubators provide optimal growing conditions and contamination prevention for valuable cell cultures. We provides a wide range of CO<sub>2</sub> incubators, ranging from a small capacity volume to a large scale capacity cabinet. All the CO<sub>2</sub> incubators are build with the patented Water Jacket and Air Jacket systems, which minimizes the risk of condensation at the present and in the future
- ❖ Water tank for humidity in the chamber.
- ❖ Air jacket equipped with UV Lamp for sterilizing; Water jacket:
- ❖ Equipped with USB port and LCD touch screen, the incubator can save data in real time.
- ❖ High quality CO<sub>2</sub> gas filter ensures the inside gas quality.
- ❖ SMC brand gas circuit valves ensure more stable CO<sub>2</sub> concentration and less consumption of CO<sub>2</sub> gas.
- ❖ Microcomputer controller, LCD displays temperature, CO<sub>2</sub> concentration, run-time and timing.
- ❖ High quality infrared sensor for accurate CO<sub>2</sub> concentration.
- ❖ The working chamber adopts round angle structure, easy to clean.

Temp Range	RT +5~60°C
Control Type	Microcomputer controller
Temp Fluctuation	±0.2 (at 37°C)
Temp Uniformity	±0.3 (at 37°C)
Time Setting	999h or continuous
Alarm	Audible and visual alarm; Over-temperature alarm; CO <sub>2</sub> Concentration alarm
Shelves	2pcs/adjustable
Material	External cold-rolled steel with painting; internal Stainless Steel
Door	With inner and external door
CO <sub>2</sub> Range	Infrared sensor, range 0~20%
CO <sub>2</sub> Control Resolution	0.1%
Humidification Type	Water tank for natural evaporation
Sterilization Type	UV lamp for air jacket
Ambient Temp. & Humidity	18~30, suggest 25±2°C; relative humidity ≤80%
Caster	Footmaster caster



## BTL- 71 GEL DOC SYSTEM

### Technical Specification

#### 1. Features

- ❖ Darkroom
- ❖ NolightleakageDarkroom
- ❖ 1.2Externalsize:44x40x72cm

#### 2. CCD Camera

- ❖ Scientific CCD
- ❖ Resolution:5Megapixels,25921944
- ❖ A/D:16bit(65536Greyscales)
- ❖ HighQE:75%
- ❖ Readnoise:5,1e-RMS
- ❖ SNR:70.1db
- ❖ Sensitivity:Lowerthan10pgEBStainedDNA

#### 3. Lens

- ❖ ImportedComputer2/3Inch,F1.2MotorizedLens
- ❖ NumericFocusandAperture

#### 4. Filter(Standard)

- ❖ 590nmforgeldocasstandard

#### 5. Epi-whitelight

- ❖ WhiteLED2

#### 6. Transilluminator

- ❖ UVtransmissionasstandard:Wavelength302nm,Area:21x26cm
- ❖ WhitelightLEDasoptional,Area:21x19cm
- ❖ BlueLEDasoptional:Area:21x19cm

#### 7. UVprotectionshieldasstandard

#### 8. Geldocsoftware

#### 9. Analysissoftware

#### 10. Application(Includedasstandard)

- ❖ DNA/RNAGelinspection:Ethidium Bromide,Sybr<sup>TM</sup> Gold,GelRed, GelStar<sup>TM</sup>;
- ❖ ProteinGellnspection:Sypro<sup>TM</sup>Orange

#### 11. Application(notincludedasoptional)

- ❖ OptionalBLUELEDtransmission:Sybr<sup>TM</sup>Safe,Sybr<sup>TM</sup>Green,GelGreen,Sypro <sup>TM</sup>Orange
- ❖ OptionalWhiteLEDtransmission:Coomassie BrilliantBlue,SilverStaining



## BTL- 72 ULTRASONIC BATH (SONICATOR) WITH CHILLER & HEATER : (Special Combined Model)

### Technical Specification

- ❖ Fully S.S. Body & S.S. Tank
- ❖ Digital Timer
- ❖ Operating frequency 33 +/-3 KHz
- ❖ Micro controller based timer
- ❖ Compact, rugged and highly durable systems
- ❖ With Standard supply of LID, & Partition Basket.
- ❖ PSP mode-Pulse sweep power for uniform distribution of ultrasonic energy
- ❖ Transducers- PZT type bonded to the bottom sides of the tank (Imported make) with weld bond technique.
- ❖ Auto degassing present 5 Sec for ultrasonic tank
- ❖ Ultrasonic Generator Advanced latest MOSFET based SMPS.
- ❖ Temperature controller- Digital temperature
- ❖ Controller with setting range 10° to room temperature max 35°
- ❖ Puff solution - Puff solution covered outside of the tank to safe guard the transducer, & maintain the water temperature,
- ❖ Including chiller unit Consist of:
- ❖ Digital temperature controller & PT 100 sensor
- ❖ Compressor type- Hermetically sealed gas
- ❖ We Can Also Provide Heater With Chiller If You Required. Charges Will Be Extra Basis On the Tank Capacity,
- ❖ Heater Temp. - 50° C

Tank CAP (LTRS)	Tank Size (LXWXH) inmm	Enclouser Size (lxwxh) In Mm	Ultrasonic Power	Chiller Temp.
10	300 x 250 x 150	400 x 350 x 800	250 W	35 - 5 Deg
20	400 x 350 x 150	500 x 500 x 800	400 W	35 - 5 Deg
30	450 x 400 x 200	550 x 550 x 900	500 W	35 - 5 Deg
40	500 x 400 x 200	600 x 500 x 900	500 W	35 - 5 Deg
50	500 x 500 x 200	600 x 600 x 900	750 W	35 - 5 Deg

## BTL- 73 REVERSE LAMINAR AIRFLOW (GMP MODEL)

### Technical Specification

- ❖ It works as a major application in sampling and dispensing.
- ❖ Mostly used for mixed airflow stream to control the hazardous emission of dust powder during dispensing or sampling process.
- ❖ Dust air particles are being filtered and clean air stream is provided in the zone of exposed product and the operator breathing zone.
- ❖ The RLAF is designed to provide Class 100 working environment at rest with built in scavenging system to ensure product,
- ❖ Operator as well as surrounding environment protection.

#### Features:

- ❖ Complete SS 304 construction except Filters and motor-blower assemblies which will be in standard execution.
- ❖ Motor Blower provided are statically and dynamically balanced to supply air flow with sufficient capacity and
- ❖ Static pressure for entire life of HEPA.
- ❖ Blower is high performance, noise abated and light weighted.
- ❖ Dust:  $\geq 0.5\mu\text{m}$   $< 3.5$  granule/L Clean rate:  $> 99.95\%$  Air velocity:  $0.3-0.5\text{m/s}$  Noise:  $< 60\text{dB (A)}$
- ❖ Day light and UV light facility.
- ❖ ON/OFF Switches for motor & lights.
- ❖ 5/15 Amp single-phase switch socket for external equipment.

Size
4 X 2 X 6.5 Ft
4 X 3 X 6.5 Ft
4 X 4 X 6.5 Ft
4 X 5 X 6.5 Ft
6 X 2 X 6.5 Ft
6 X 3 X 6.5 Ft
6 X 4 X 6.5 Ft
6 X 5 X 6.5 Ft



## BTL- 74 FILTRATION ASSEMBLY

### Technical Specification

- ❖ Consists of S.S. holders in manifold of 3 or 6 to hold 47 mm dia. membrane filters with PTFE valve.
- ❖ The top of the holders are connected to the outlets of the flushing tube.
- ❖ These units are used for sterility testing when the membranes filter is to be removed from the holder for incubation in culture media.
- ❖ Filtration areas is 12.5 cm & has a holding capacity of 300ml.
- ❖ Though only vacuum is required for filtration; some pressure is required for flushing liquids.
- ❖ Supplied with vacuum pump
- ❖ Silicone tube & filtration flask.

Sr. No	Filtration Assembly	Capacity
1)	3 Place Assembly With Ss Funnel	750 ml to 1.5 ltrs
2)	6 Place Assembly With Ss Funnel	1.5 ltrs to 2.5 ltrs



## BTL-3 AUTOCLAVE VERTICAL TYPE – FULLY AUTOMATIC (SINGLE LEVER/ RADIUS LOCKING )

### Technical Specification

- ❖ Double walled construction, Inner chamber is made up of thick stainless steel (304) & the Outer body is made up of thick Stainless Steel 304.
- ❖ The chamber is absolutely leak proof & can be operated at any selected point in between 5 to 20 pounds per sq. inch – with PID Digital Controller & Timer.
- ❖ Working Temp 121 °C to 125 °C along with S.S. basket Pressure gauge, Release cock, Safety valves (2), Drain valve (bottom), Pressure cut off switch, Solenoid Valve, Water level cut off & with foot lifting arrangement.
- ❖ A unique single lever lock ensures easy lifting and closure of Autoclave door without leakage of vacuum and pressure.

Sr. No	Size			Rating Watts
	Cm	Inch	Liters	
A	25cm X 45cm	10" X 18"	22 Ltrs	1500
B	30cm X 50cm	12" X 20"	35 Ltrs	2000
C	35cm X 55cm	14" X 22"	52 Ltrs	3000
D	40cm X 60cm	16" X 24"	90 Ltrs	4000
E	45cm X 60cm	18" X 24"	95 Ltrs	4000
F	45cm X 75cm	18" X 30"	120 Ltrs	4500
G	55cm X 75cm	22" X 30"	175 Ltrs	5000
H	55cm X 90cm	22" X 36"	200 Ltrs	6000



## BTL- 47 ROTARY SHAKER

### Technical Specification

- ❖ Variable speed PMDC Geared Motor continuous duty RPM 20 to 250 S.S. Tray Lotus clamp.

Size	Temp upto 1200°C
A	9 NO. FLASK X 250 ML
B	9 NO. FLASK X 500 ML
C	12 NO. FLASK X 250 ML
D	12 NO. FLASK X 500 ML
E	16 NO. FLASK X 250 ML
F	16 NO. FLASK X 500 ML
G	24 NO. FLASK X 250 ML
H	24 NO. FLASK X 500 ML
I	48 NO. FLASK X 250 ML
J	48 NO. FLASK X 500 ML



## BTL- 62 WATER BATH SEROLOGICAL

### Technical Specification

- ❖ Double walled thermostatically controlled inside made of stainless steel outer made of S.S. / M.S. duly powder coated.
- ❖ Gap between the walls is filled with glass wool. Temp range 5 °C above room temp to 80°C with an accuracy  $\pm 2^{\circ}\text{C}$ . Working on 220 volt 50 Hz A.C. supply.
- ❖ Supplied without test tube racks

Capacity	Rating Watts	Inner Size
2 Racks	250	11" X 7" X 6"
4 Racks	500	14" X 10" X 6"



## BTL-2 AUTOCLAVE PORTABLE TYPE

### Technical Specification

- ❖ Single wall construction for Autoclave Portable vertical type with complete stainless steel 304, electrically with air release nozzle.
- ❖ With gasket, lid, safety valve, pressure gauge & steam release cock.

Size Cm	Size Inch	Size (Ltrs)	Watts
30 cm X 30 cm	12" X 12"	12 Ltrs	2.0
30 cm X 50 cm	12" X 20"	35 Ltrs	2.5



### Optional Accessories:

- ❖ Digital temperature controller cum indicator with Timer

## BTL- 4 ANTIBIOTIC ZONE READER

- ❖ Most suitable to measure the diameter of the inhibited zone in microbiology, Botany, Zoology, Bacteriology & Pathology Labs.
- ❖ Unique in design & suitable for measuring the diameter of inhibited zone within the range of 0 to 35 mm



### Optional Accessories:

- ❖ Digital Model

## BTL- 5 BUNSEN BURNER ELECTRICAL

### Technical Specification

- ❖ Supplied with body made of M.S Powder coated & Top made of S.S 304 with energy regulator to control temperature. Maximum temperature upto 700° C

Bunsen Burner With Regulator

Bunsen Burner With Digital Temp Controller

Spare heating element with Ceramic Crucible Rs. 1,250/-



## BTL- 6 BULK DENSITY

### Technical Specification

- ❖ Microprocessor based 4 digit preset counter 30 strokes per minutes, strokes height 50 mm Supplied without cylinder (50ml / 100ml)



### Optional Accessories:

- ❖ Digital Model

## BTL- 11 COLONY COUNTER DIGITAL (4 DIGIT DISPLAY)

### Technical Specification

- ❖ The housing is constructed with heavy guage mild steel & finished with powder coated epoxy paint.
- ❖ Counting plate with illuminated standard wolfhugel ruling is fitted with magnifying glass on front slope.
- ❖ Each touch of Marking Pencil in the colony count by 1 & the flowing LED Digital depicts the total colony count.
- ❖ Maximum colony count possible upto 9999 (4 digit display).
- ❖ A fluorescent light is available.
- ❖ Provided with a manual reset of digital display.
- ❖ On / Off switch, counting plate, 100 mm dia lens, cord & plug. To work on 220 Volt A.C.



## BTL- 14 DIGITAL PH METER

### Technical Specification

- ❖ Supplied with electrode buffer solution, dust cover & stand.
- ❖ Designed to meet the needs of serious pH/mV measurements in labs.
- ❖ These instruments provide accurate pH readings in a wide variety of samples.
- ❖ Detachable electrode ensures replacement convenience.



### Optional Accessories:

- ❖ pH ranges 0 to 14 pH accuracy of +/- 0.01
- ❖ Spare electrode for pH meter

## BTL- 15 DIGITAL CONDUCTIVITY METER

### Technical Specification

- ❖ Useful for measuring conductivity of homogeneous electrolytic solutions.
- ❖ Auto Digital Conductivity Meter (AUTO RANGING) 3½ digit LED display with facility for temperature compensation and digital cell constant adjustment along with conductivity cell (Table Model)
- ❖ Supplied with conductivity cell of cell constant 1, cell stand & standard conductivity solution.
- ❖ Spare Conductivity Cell



## BTL- 16 DIGITAL DRY BATH INCUBATOR

### Technical Specification

- ❖ 24 Holes for 12 mm tubes, +5°C above ambient to 70°C. Temperature sensor Pt100.
- ❖ Maximum heating power 125W.
- ❖ Temperature Controller PI D.
- ❖ Timer 1 min to 99 minutes, LCD Display for time & temperature, Anodized Aluminum block.
- ❖ 220VAC, Available with Buzzer alarm & Overheat protection)



## BTL- 17 FORD CUP WITH STAND

### Technical Specification

- ❖ For measuring the relative consistency during the manufacture & use of paints varnishes lacquers & other visco products

B.s flow cup 3000/3944	Normal orific diameter in	Viscosity range stroke
B 4	0.1536	0.5 to 2.5



## BTL- 18 FILTER HOLDER

### Technical Specification

- ❖ FOR STERILITY TEST: Vacuum filter holder for sterility test to hold membrane completely made up of Stainless
- ❖ Steel 316 quality
- ❖ Having silicon O-ring.
- ❖ Filtration area - 12.5cm<sup>2</sup>.



## BTL- 19 FRIABILITY TEST APPARATUS (DIGITAL)

### Technical Specification

- ❖ To determine the durability of tablets from the time of production till the time of use.
- ❖ Complete with rotating drum made of Acrylic sheet with blade.
- ❖ Which carries the tablet up to pre - determined height while the drum is rotating at prescribed speed up to pre-determined height.
- ❖ While the drum is rotating at prescribed speed & rotation period determined by timer.

Friability Single drum Digital Timer 99.9 minute,  
25 revolutions per 1 Min

Friability Single drum Digital Timer 99.9 minute,  
25 revolutions per 1 Min



## BTL- 20 FLOCCULATOR (JAR TESTING APPARATUS)

### Technical Specification

- ❖ Estimate the dosing of alums & such other coagulants for treatment of water & effluent.
- ❖ Samples are easily viewed by diffused base illumination with fluorescent tube placed below plastic plate & black background.
- ❖ Fitted with D.C. motor of 1/20 HP with variable speed up to 50-100 RPM controlled by speed regulator.
- ❖ Provided with stainless steel paddles with adjustable spacers to adjust the depth of paddles.(Supplied without glass parts).

2 Stirrers

4 Stirrers

6 Stirrers



## BTL- 21 HEATING MANTLE WITH REGULATOR

### Technical Specification

- ❖ Heating mantles are made to accommodate several size of round bottom flask & to provide uniform heating ❖
- Maximum surface temp of 400°C with energy regulator box built in.

Size	100 ml	250 ml	500 ml	1 Ltrs	2 Ltrs	3 Ltrs	5 Ltrs	10 Ltrs	20 Ltrs
Rating Watts	60	150	200	300	450	450	600	2 X 500	3 X 600



## BTL- 23 HOT PLATE RECTANGULAR

### Technical Specification

- ❖ Top made of cast iron & body of M.S powder coated.
- ❖ Maximum Surface Temp 300 Deg °C.

Size	Rating
10" X 12"	1.2 K.W.
10" X 16"	1.5 K.W.
12" X 18"	2.0 K.W.
18" X 24"	3.5 K.W.



## BTL – 31 KARL FISHER AUTOMATIC

### Technical Specification

- ❖ Titrimeter having array of LED provided with inbuilt stirrer,
- ❖ Auto zero burette adjustable timer dual platinum electrode and other accessories.



## BTL- 32 KJELDAHL DIGESTION & DISTILLATION UNIT

### Technical Specification

- ❖ Heating mantle type to get quick heating most suitable for all types of digestion & distillation condenser rack for water circulation in condenser.
- ❖ Fume duct pipe made of Stainless steel for driving away fumes operating on 230 Volts.
- ❖ Supplied without Glass parts, Bosset & Clamps.



## BTL- 33 KINEMATIC VISCOCITY BATH

### Technical Specification

- ❖ Double walled construction outer made of mild steel powder coated & inner S.S.304.
- ❖ Toughened glass window from both sides.
- ❖ Top lid having holes for keeping viscometer holders, circulators pump is provided on top of the body with controlled panel
- ❖ Consists of switches & lamps for mains & controls fitted with digital display controller temperature range 5 °C above to 95 °C

Internal Dimension LXWXD	Capacity
25 X 20 X 30 Cm	4 VM
35 X 20 X 30 Cm	6 VM



## BTL - 38 LEAK TEST APPARATUS

### Technical Specification

- Working chamber : Poly Carbonate Desiccators  
 Outer chamber : Stainless steel  
 Digital Timer : 99 min  
 Vacuum Pump : Oil less Vacuum pump  
 Provided with DIAL type vacuum gauge & vacuum release valve.

Size	8" dia	10" dia	12" dia
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## BTL- 39 MELTING POINT APPARATUS (MANUAL)

### Technical Specification

- ❖ For determination of melting points up to 350 °C.
- ❖ The mounted block is illuminated from below by a lamp fixed in its housing.
- ❖ The aluminum blocks accept three capillary tubes & mercury thermometer.
- ❖ The temperature is regulated by energy regulator fitted to the unit.
- ❖ The lamp provides uniform & shadow less regulator fitted to the unit.



## BTL- 40 MELTING POINT APPARATUS (DIGITAL)

### Technical Specification

- ❖ Within built Silicon Oil Bath & Stirrer adjustable heating rate & Stirrer Speed Range upto 275 °C with readability of 1 °C



### Optional Accessories:

- ❖ Glass Beaker – 200ml, with oil level marking.
- ❖ Capillary Set (Set of 100nos) one end sealed.
- ❖ Silicon Oil (200ml).

## BTL- 41 MAGNETIC STIRRER WITH HOT PLATE

### Technical Specification

- ❖ Top plate made up of S. S. & body MS powder coated with speed regulator & temp regulator having Max temp 120 °C Max RPM 1000

Size	2 MLH	5 MLH
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## BTL- 42 MUFFLE FURNACE (GMP MODEL)

### Technical Specification

- ❖ Useful for hardening, annealing, reheating etc.
- ❖ Light weight high temperature ceramic fiber wool insulation. Outer made up of heavy gauge stainless steel 304. ❖ Heating elements are of KANTHAL 'A1 Wire'.
- ❖ Two Pilot Lamps with Microprocessor based Digital Temperature Controller.
- ❖ The power plug to work on 220/230 Volts AC.
- ❖ The maximum temperature is 1200°C & the working temperature is 1100°C.

Size	Rating
9" X 4" x 4"	2.0
10" X 5" x 5"	2.5
12" X 6" x 6"	3.5
18" X 9" x 9"	6.0



## BTL- 44 OIL BATH (ARGON WELDED)

### Technical Specification

- ❖ Double walled inside made up of S.S 304 & outside of S.S. 304 & gap between two walls is fitted with high grade glass wool to minimize thermal loss.
- ❖ Temp range from ambient 50°C to 250°C accuracy  $\pm 2^{\circ}\text{C}$ , temp to work 220/230 volts A.C. supply.

Capacity	Inner Working Size	Rating (Watts)
1 Litre Flask	165 X 90(D)	1000
2 Litres Flask	205 X 115(D)	1200
3 Litres Flask	225 X 130(D)	1200
5 Litres Flask	270 X 155(D)	1500
10 Litres Flask	335 X 190(D)	2000
20 Litres Flask	400 X 220(D)	3000



## BTL- 48 SHAKING WATER BATH

### Technical Specification

- ❖ Double wall rectangular, outer M.S. inner S.S. 304 temp 5°C above ambient to 95°C accuracy  $\pm 1^{\circ}\text{C}$  controlled by PID
- ❖ Digital & shaking by PMDC geared motor speed 50 to 150 RPM controlled by electronic speed, S.S. Pyramid lid with supplied 1 tray but without flask.
- ❖ Tray Size Inner dimension LXBW Inner S.S. Outer M.S. Complete S.S.

Tray Size	Inner Dimension LXBW
8 X 250	30 x 30 x 16 cm
12 X 250	40 x 30 x 16 cm



## BTL- 49 STERILITY UNITS

### Technical Specification

- ❖ Consists of S.S. holders in manifold of 3 or 6 to hold 47 mm dia, membrane filters.
- ❖ The top of the holders are connected to the outlets of the flushing tube. Supplied without Wolfs Bottle & vacuum/Pressure pump.
- ❖ These units are used for sterility testing when the membranes filter is to be removed from the holder for incubation in culture media.
- ❖ Filtration areas is 12.5 cm & has a holding capacity of 250ml though only vacuum is required for filtration.
- ❖ Some pressure is required for flushing liquids. (SUPPLIED WITHOUT FILTER HOLDER)



## BTL- 56 ULTRA VIOLET INSPECTION CABINET DUAL WAVE LENGTH

### Technical Specification

- ❖ Fully made shock proof with dual wave length for viewing at short wave length (254 nm) & long wave length (365 nm) with one extra visible day light having individual
- ❖ switch to operate the desire wave length working on 230 watts 50 Hz. AC supply & supplied without filter. Body Made of M.S. attractively epoxy painted.



## BTL- 50 SIEVE SHAKER (TABLE TOP)

### Technical Specification

- ❖ Fitted with a FHP motor, it can accommodate six sieves of 8" dia Speed can be regulated through continuously variable speed regulator fitted to the unit.
- ❖ To work on 220/230 volts A.C. Supplied without SIEVES & without LID & RECEIVER

Outer size (approx)	Rating Watts
14"X14"X6 ½ "	70



## BTL- 55 TABLET DISINTEGRATION TEST MACHINE (D.T.) (DIGITAL)

### Technical Specification

- ❖ Supplied with glass tubes, D.T. baskets along with digital based controller

Single Basket without Beaker

Digital only Temperature Double Basket without Beaker



## BTL- 75 DISSOLUTION TEST APPARATUS (EIGHT BASKET)

### Technical Specification

- ❖ Microprocessor Dissolution Test Apparatus (Eight Basket) with 20 x 4 character Graphical LCD Display,
- ❖ Range 25-200 RPM, resolution 1 RPM and accuracy  $\pm 1$  RPM, Snap-fit Paddle Attachment,
- ❖ Marble Finish Top Plate, Circulating Pump, 40 Setup Storage facility, 400 test samples storage and with printer attachment facility.
- ❖ USB interface for computer connection available.



## BTL- 59 VACCUM PUMP (OIL FREE DIAPHRAM TYPE)

Model	Max Flow (Ltrs/Min)	Max Vacuum (inches Hg)	Max Press (PSIg)	Motor HO
TID- 15	15	22"	25	1/20
TID- 25-S	15	27"	35	1/16
TID- 45	45	22"	35	1/8
TID- 75-S	45	27"	55	1/4



## BTL – 64 WATER BATH RECTANGULAR DIGITAL

### Technical Specification

- ❖ Doubled walled inner made of S.S 304 & outer made of mild steel powder coated/S.S. 304 Temp is controlled by digital temperature controller.
- ❖ Lid will be supplied with 6/12 holes at 3" Dia with concentric rings.

Size in Cms	Rating	No.of Holes
35 X 25 X 10	1.0 K. W.	6
40 X 30 X 10	1.5 K. W.	12



## BTL – 65 WATER STILL MANESTY

### Technical Specification

- ❖ Full unit made of S.S to provide pyrogen free distilled water, condenser can be opened for periodic cleaning. ❖ Easy wall mounting, easy replaceable heating element.
- ❖ The lid perfectly get sealed inside the collar on head of the tank which avoids loss steam & jumping of lid.
- ❖ Supplied without Tubing

Capacity	Watts
2 Litres	1500
4 Litres	3000
6 Litres	4500
10 Litres	8000
20 Litres	16000



## BTL- 10 BACTERIOLOGICAL INCUBATOR (MEMMERT TYPE)

### Technical Specification

- ❖ We manufacture & provide superior quality bacteriological incubator which is fabricated using qualitative raw material.
- ❖ Our bacteriological incubators are triple walled with the outer body fabricated with mild steel while the inner body in mild steel, or stainless steel.
- ❖ The inner body is lagged with glass wool & the temperature controlled by capillary type thermostat.
- ❖ Temperature range 5°C above ambient to maximum 60°C with accuracy range of  $\pm 2^{\circ}\text{C}$ . Within the incubator. glass door is available.
- ❖ The three side heaters manufactured from nichrome wire provided by memmert model.

Size		Rating Watts	As per the Size No. of Shelves
Cm	Inch		
30 X 30 X 30	12" X 12" X 12"	250	1
35 X 35 X 35	14" X 14" X 14"	300	2
45 X 45 X 45	18" X 18" X 18"	400	2
45 X 45 X 60	18" X 18" X 24"	750	3
60 X 60 X 60	24" X 24" X 24"	1000	3
45 X 60 X 90	18" X 24" X 36"	1250	4
60 X 60 X 90	24" X 24" X 36"	1500	4



## BTL- 77 DEEP FREEZER

### Technical Specification

- ❖ Double walled inner SS 304 & exterior GI powder coated finish in regular model.
- ❖ Interior 304 SS & exterior 304 SS in GMP Model.
- ❖ The high compressed PUFF insulation provided in between the wall to minimize the heat loss
- ❖ Microprocessor based PID temp controller with Dual Digital Indicator & PT - 100 sensor.
- ❖ The cooking kit includes hermetically sealed compressor, condenser, fan motor etc. and are safely placed on top/bottom of the unit. Cooling Refrigerant is CFC free.
- ❖ Highly insulated front opening door with silicone gasket having lockable handle provided for easy opening & closing of door.
- ❖ Low wattage heater provided on door to avoid freezing of door.
- ❖ Adjustable SS304 rod type shelves or lockable drawers in different model is provided.
- ❖ Available range upto -20°, -40°, -60

Capacity	Inner Dimension
1.5 Cu.Ft (40 Ltrs)	35 X 35 X 35 Cm
3 Cu. Ft (90 Ltrs)	45 X 45 X 50 Cm
6 Cu. Ft (170 Ltrs)	50 X 50 X 70 Cm
10 Cu. Ft (280 Ltrs)	55 X 55 X 90 Cm
12 Cu. Ft (330 Ltrs)	60 X 60 X 90 Cm

### Optional Accessories:

- ❖ Data logger controller with printer output/ pc connecting with Software
- ❖ PLC based touch screen HMI controller with data recording





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