



ALTIS INSTRUMENTS



Product Catalogue

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®

ALTIS

ALTIS INSTRUMENTS

INTRODUCTION

We **M/s. Altis Instruments** (Formerly know as Deepak Enterprises) are the original manufacturers of Scientific & Laboratory Instruments as mentioned in our price list and catalogue. **ALTIS** is our Registered Brand name. We have been an established and popular company with an excellent track record for the best customer satisfaction. We have never compromised on the quality and the services provided to the customer.

Our Product range includes analytical instruments, laboratory equipment and variety of consumable products that easily meet day to day challenges faced by scientists and researchers in various testing procedures performed in lab and field.

Designing of our machines is totally done by us in our factory and production is being done thru hundreds of our own dies and moulds which includes ABS injection moulding die, cutting die, aluminum pressure casting dies and aluminum gravity casting dies.

For further information you can visit our website :

<http://www.altisinstruments.com/>



Developing sustainable future technologies is the motto of Delhi based **Altis Instruments (ISO 9001-2015 CE certified company)**. Setting international standards as per the quality and innovation parameters, we introduce ourselves as a leading suppliers, manufacturer and exporter of a wide range of instrument and equipments for laboratories, research institutes, pharmaceuticals, scientific and hospital industries as well. The company has been a pioneer in bringing out new technological up-gradations to products and has constantly been active in expansion of existing infrastructure to meet the custom requirement of the market.

Ever since our inception, the company has always endeavored to offer a broad portfolio of Lab Equipments that find wide application in institutes and research centers for conducting various chemical researches and experiments. From design to engineering and customization there is simply no one at par with us. The well established infrastructure, supported by experienced staff for delivery and operations, has enabled us to provide expedited services in the most responsible manner. Follow up for every order and after-sales support further adds to the credential of our company.

We maintain our technical leadership in today's stern competition by offering reliable and innovative products, which in turn earn us the loyalty of satisfied customers. Apart from a strong position in the domestic market, we also serve the demands of clients based in USA, East Asia, Europe and the Gulf countries.

A leading company in the field lab instruments and lab equipments we are well known manufacturer, supplier and exporters. We exporting to countries globally located. The company has been a pioneer in bringing out new technological up-gradations to products and has constantly been active in expansion of existing infrastructure to meet the custom requirement of the market.

TERMS & CONDITIONS

PRICES Prices mentioned per unit/each in Indian rupees are NET, Ex-Factory, Delhi, Packing, Forwarding, Freight and Octroi (if applicable), insurance (if required) and all other incidental charges, as per actual, will be charged extra. # Insurance: Transit insurance charges would be extra to buyers account. If insurance is not opted for company shall not be responsible for any breakage/loss in transit.

TAXES G.S.T will be charged extra as applicable.

DELIVERY PERIOD Except for items available in ready stocks all orders are booked against a delivery period of 6/8 weeks. However any delay due to unavoidable circumstances, in executing the order, the firm will not be liable to pay for any damages.

PAYMENTS 100% advance payment in form of RTGS / NEFT payable at Delhi or multicity cheque shall accompany the purchase order.

SPECIFICATIONS All equipments are manufactured as per the details given in the catalogue, but due to company policy of continuous development and improvement we reserve the right against change or modification in design, colour and construction without notice. Hence the illustrations in the catalogue are not binding and may be changed without prior or obligation.

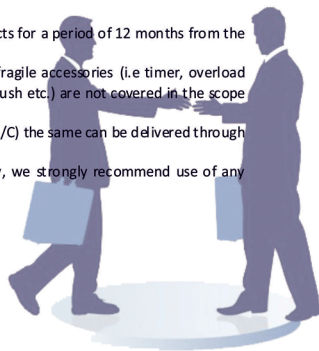
- Modifications in design, colour and construction may also occur for different models/sizes or volume of the same equipment

LAB FITTINGS All carpentry, masonry or electrical wiring or job required for installation of the equipment will have to be got done by consumer at their own cost.

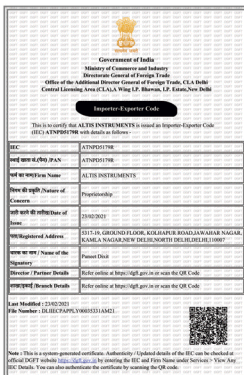
INSTALLATION PRICE DOES NOT INCLUDE FREE INSTALLATION, DEMONSTRATION AND COMMISSIONING AT BUYER'S PLACE. All instruments requiring personal installation and demonstration at site, by our trained staff can be arranged against extra charges according to the distance. Most of the equipment requiring personal installation and demonstration at site, by our trained staff can be arranged against extra charges according to the distance. Most of the equipment due to their fragile nature, bulk size electronic controls etc require personal on-site care and services for commissioning /installations at the buyers end. These services are available at a reasonable/nominal cost, to cover deputation of service engineer to buyer/s place, depending on the distance from Delhi. For these services rendered payment will have to be sent in advance and will attract a service tax applicable as per rules. In case these services are not opted for, no buyer shall have any claim directly or indirectly, through reseller or manufacturer to provide on-site repair/services at buyer's place and the equipment will have to be brought to and lifted back from our Delhi workshop at their own cost. However equipment covered under guarantee will be repaired free of cost. For equipment not covered under guarantee the repair job would be undertaken on receipt of approval of the estimate along with the payment in advance.

WARRANTY Warranty cover for products within India:

- All "ALTIS BRAND" products are warranted against manufacturing defects for a period of 12 months from the date of invoice
- Heaters, pumps, seals, gaskets, glass parts, gauges, tubes, bulbs and fragile accessories (i.e timer, overload relay, capacitor. S.S.R., relays, plastic parts, handles, castors, Carbon Brush etc) are not covered in the scope of warranty.
- Since glass parts are not covered for breakage in transit (risk to buyers A/C) the same can be delivered through a company representative for a nominal charge.
- For drastic and sudden fluctuation in incoming Voltage and frequency, we strongly recommend use of any good make servo controlled voltage stabilizer.



Our company delhi based Altis Instruments branded as Grace Lab Instruments is fully certified in supplying and selling of Lab instruments, Pharmaceuticals instruments, Scientific and Surgical Instruments



OUR PRODUCTS



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ATI 101. AUTOCLAVE VERTICAL :-

Inner Chamber made of stainless steel and outer wall of M.S Sheet duly enamel painted. Lid is made of M.S. plate with Stainless steel from inside, Support ring and legs are made of mild steel duly enamel painted. Gasket is made of neoprene.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY	HEATER LOADER
ATI-AV 22	250 x 450	22 ltrs	2.0 kw
ATI-AV 40	300 x 500	40 ltrs	2.0 kw
ATI-AV 50	350 x 550	50 ltrs	3.0 kw
ATI-AV 78	400 x 600	78 ltrs	4.0 kw
ATI-AV 98	450 x 600	98 ltrs	4.0 kw
ATI-AV 187	550 x 750	187 ltrs	4.0 kw

- OPTION :**
- Pressure control Switch / Pressure cut Off (PCO) device.
 - Efficient steam condenser to eliminate steam exhaust into the lab.
 - Digital On/Off timer with LED display.
 - Low water level Cut off (WCO) device for safety of heating element.
 - Analogue 0-60 minutes On/ Off mechanical timer.



ATI 102. AUTOCLAVE VERTICAL (DELUXE MODEL) :-

Inner and outer wall both made of Stainless steel. Lid is made of thick machined stainless steel plate. Support ring and legs are also made of stainless steel Gasket is made from imported Silicon rubber.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY	HEATER LOADER
ATI-AV 22	250 x 450	22 ltrs	2.0 kw
ATI-AV 40	300 x 500	40 ltrs	2.0 kw
ATI-AV 50	350 x 550	50 ltrs	3.0 kw
ATI-AV 78	400 x 600	78 ltrs	4.0 kw
ATI-AV 98	450 x 600	98 ltrs	4.0 kw
ATI-AV 187	550 x 750	187 ltrs	4.0 kw

- OPTION :**
- Pressure control Switch / Pressure cut Off (PCO) device.
 - Efficient steam condenser to eliminate steam exhaust into the lab.
 - Digital On/Off timer with LED display.
 - Low water level Cut off (WCO) device for safety of heating element.
 - Analogue 0-60 minutes On/ Off mechanical timer.



ATI 103. AUTOCLAVE VERTICAL (SEMI AUTOMATIC DIGITAL) :-

Inner and outer wall both made of Stainless steel. Lid is made of thick machined stainless steel plate. Support ring and legs are also made of stainless steel Gasket is made from imported Silicon rubber. Fitted with Semi- Automatic Digital Controller with Auto time controller system. After the set temperature is attained the timer starts automatically and on completion of set count down/ up time the supply to heaters is cut-off and the system sounds a buzzer alerting user that the cycle is over.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY	HEATER LOADER
ATI-AV 22	250 x 450	22 ltrs	2.0 kw
ATI-AV 40	300 x 500	40 ltrs	2.0 kw
ATI-AV 50	350 x 550	50 ltrs	3.0 kw
ATI-AV 78	400 x 600	78 ltrs	4.0 kw
ATI-AV 98	450 x 600	98 ltrs	4.0 kw
ATI-AV 187	550 x 750	187 ltrs	4.0 kw

- OPTION :**
- Pressure control Switch / Pressure cut Off (PCO) device.
 - Efficient steam condenser to eliminate steam exhaust into the lab.
 - Digital Pressure gauge with electronic transducer and syphon.
 - Low water level Cut off (WCO) device for safety of heating element.
 - Semi automatic Digital (SAD) Controller with 16x2 line alphanumeric
 - LCD display in Lie of controller with Led Display.



ATI 104. AUTOCLAVE VERTICAL (FULLY AUTOMATIC DIGITAL) :-

Inner and outer wall both made of stainless Steel. Lid is made of thick machined stainless steel plate. Support ring and legs are also made of stainless steel. Gasket is made from imported Silicon rubber. Fitted with microprocessor based fully automatic logic control system with time buzzer (auto time control). The unit is also fitted with low water level cut off as a standard feature. Fitted with automatic purging and exhaust valve.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY	HEATER LOADER
ATI-AV 22	250 x 450	22 ltrs	2.0 kw
ATI-AV 40	300 x 500	40 ltrs	2.0 kw
ATI-AV 50	350 x 550	50 ltrs	3.0 kw
ATI-AV 78	400 x 600	78 ltrs	4.0 kw
ATI-AV 98	450 x 600	98 ltrs	4.0 kw
ATI-AV 187	550 x 750	187 ltrs	4.0 kw



- OPTION :**
- Pressure control Switch / Pressure cut Off (PCO) device.
 - Efficient steam condenser to eliminate steam exhaust into the lab.
 - Digital Pressure gauge with electronic transducer and siphon.

ATI 105. AUTOCLAVE VERTICAL (HIGH PRESSURE UPTO 30 psi) :-

Inner and outer wall both made of stainless Steel. Lid is made of thick machined stainless steel plate. Support ring and legs are also made of stainless steel. Gasket is made from imported Silicon rubber. The unit is also fitted with low-water cut-off as a standard feature. Fitted with automatic purging and exhaust valve but a heavy duty high pressure system to work on a maximum pressure of 30 psi instead of 20 psi.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY	HEATER LOADER
ATI-AHP 22	250 x 450	22 ltrs	2.0 kw
ATI-AHP 40	300 x 500	40 ltrs	2.0 kw
ATI-AHP 50	350 x 550	50 ltrs	3.0 kw
ATI-AHP 78	400 x 600	78 ltrs	4.0 kw
ATI-AHP 98	450 x 600	98 ltrs	4.0 kw
ATI-AHP 187	550 x 750	187 ltrs	4.0 kw



- OPTION :**
- Pressure control Switch / Pressure cut Off (PCO) device.
 - Efficient steam condenser to eliminate steam exhaust into the lab.
 - Digital Pressure gauge with electronic transducer and siphon.

ATI 106. AUTOCLAVE HORIZONTAL (CYLINDER DOUBLE WALLED) :-

This is a double walled unit mounted horizontal on a sturdy, heavy mild steel tubular stand duly painted. Pressure is adjustable from 10 to 20 psi. Fitted with pressure gauge, safety valve and steam release valve. Available with boiler. For units fitted with S.S. Boiler, separate valves for injecting the steam into the main chamber and releasing the steam in atmosphere after use are provided. Hydraulically tested upto 40 psi. Automatic vacuum breaker is provided to break the vacuum in case of formation of vacuum due to steam condensation. Both inner chamber made of S.S. Fitted with a Digital Temperature Indicator to indicate temperature, Automatic pressure Control Switch and Automatic Low Water Level Cut-off. Lid is made of S.S. Plate provided with radical locking system. Without steam jacket.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY	HEATER LOADER
ATI-AHSS 22	250 x 450	22 ltrs	2.0 kw
ATI-AHSS 40	300 x 500	40 ltrs	3.0 kw
ATI-AHSS 50	350 x 550	50 ltrs	4.0 kw
ATI-AHSS 78	400 x 600	78 ltrs	6.0 kw
ATI-AHSS 98	450 x 600	98 ltrs	6.0 kw
ATI-AHSS 187	550 x 750	187 ltrs	8.0 kw

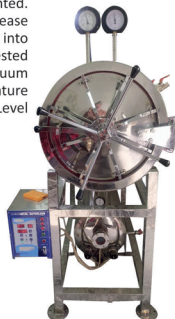


- OPTION :**
- Digital temperature indicator can be supplied in lieu of dial thermometer.
 - Microprocessor based digital temperature indicator cum controller in lieu of dial thermometer to cost extra.
 - Microprocessor controller with LED display, Automatic digital minute timer and alarm for cycle end.
 - PLC Controller with 32 character (2x16 character) backlit alphanumeric LCD display with Automatic digital minute timer and alarm for cycle end. These Controller enables automatic purging of stale air, sterilizing hold time for sterilizing period and cycle with automatic exhaust pressure.
 - Digital Pressure gauge with electronic transducer and siphon.

ATI 107. : STEAM STERILIZER (HORIZONTAL HIGH PRESSURE CYLINDER TRIPLE WALLED) :-

This is a triple walled unit mounted horizontal on a sturdy, heavy mild steel tubular stand duly painted. Pressure is adjustable from 10 to 20 psi. Fitted with pressure gauge, safety valve and steam release valve. Available with boiler. For units fitted with S.S. Boiler, separate valves for injecting the steam into the main chamber and releasing the steam in atmosphere after use are provided. Hydraulically tested upto 40 psi. Automatic vacuum breaker is provided to break the vacuum in case of formation of vacuum due to steam condensation. Both inner chamber made of S.S. Fitted with a Digital Temperature Indicator to indicate temperature, Automatic pressure Control Switch and Automatic Low Water Level Cut-off. Lid is made of S.S. Plate provided with radial locking system. Without steam jacket.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY
ATI-AHCSS 88	400 x 600	88 ltrs
ATI-AHCSS 162	400 x 1100	162 ltrs
ATI-AHCSS 165	500 x 900	165 ltrs
ATI-AHCSS 221	500 x 1200	221 ltrs



OPTION :

- Digital temperature indicator can be supplied in lieu of dial thermometer .
- Microprocessor based digital temperature indicator cum controller in lieu of dial thermometer to cost extra.
- Microprocessor controller with LED display, Automatic digital minute timer and alarm for cycle end.
- Extra injector in addition to vacuum dry can be provided at an extra cost for better drying.
- Digital Pressure gauge with electronic transducer and siphon.
- POP type safety valve in lieu of sprig loaded safety valve, at an extra cost.

ATI 108. STEAM STERILIZER (HORIZONTAL HIGH PRESSURE RECTANGULAR) :-

Inner Chamber is made up of thick steel of 304 / 316 quality and jacket is made out of rolled steel. Single door made of rolled steel lined with S.S. sheet has radial locking system. All units are hydraulically tested upto 40 psi. The space between outer cover made of thick rolled steel sheet and the steam jacket is filled with asbestos sheet or glass wool to minimize thermal losses. Boiler is made of thick S.S. sheet and is located under the sterilizer. It is fitted with water level indicator, safety valve, pressure gauge, water inlet and drain valves. Unit is fitted with water low-water cut-off device and automatic pressure control device. The door cannot be opened when chamber is under pressure. Two separate valves are provided for evacuating steam from inner chamber and jacket, as and when desired. Fitted with a dial thermometer with DIGITAL TEMP. INDICATOR and automatic vacuum breaker. To work on 440 volts, 3 phases, A.C. supply.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY	HEATER LOAD
ATI-ARHP 180	450 x 450 x 900	180 ltrs	6.0 kw
ATI-ARHP 240	450 x 600 x 900	240 ltrs	9.0 kw
ATI-ARHP 320	600 x 600 x 900	320 ltrs	9.0 kw
ATI-ARHP 430	600 x 600 x 1200	430 ltrs	9.0 kw



APPLICATIONS :

- Robust and rigid construction.
- Triple walled medical waste sterilizer (Rectangular) specially designed for Sterilization of Regulated bio medical hospital waste and related spores. It is based on the principal that Microbiological action of saturated steam at elevated temperature is rapid and thorough.
- Triple walled Medical waste sterilizer rectangular is ideal tool for hospitals & nursing homes.

ATI 109. AUTOCLAVE (PORTABLE- SINGLE WALLED MADE OF S.S. 304 GRADE) :-

Fitted with pressure gauge upto 20 psi, the units had springs loaded safety valve for pressure adjustment and a dead weight safety valve. It is hydraulically tested upto 40 psi. And is supplied with electric fittings, cord and plug to work on 220/230 volts A>C. Supply. Supplied complete with tripod stand. Size 300x300 (a) Body made of Aluminum, (b) Body made of S.S. (JOINTLESS), (c) Spare Heating Elements for above

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY	HEATER LOAD
ATI-PASW 20	325 x 325	22 ltrs	2.0 kw
ATI-PASW 20(D)	325 x 325	22 ltrs	2.0 kw
ATI-PASW 20 (semi automatic digital)	325 x 325	22 ltrs	2.0 kw



ATI 110. TABLE TOP AUTOCLAVE (MICROPROCESSOR BASED) :-

MODEL	CHAMBER SIZE (DIA x HT) (in mm)	CAPACITY	VOLTAGE	POWER
ATI-BTA 22 (VP)	250x 450	22 litres	220 V/ 50 Hz	2100 W

**FEATURES :-**

- B - Type front loading fully automatic autoclave
- With vacuum & dry cycle
- 22 ltrs capacity and micro processor controlled
- Wrapped/ unwrapped, porous, solid instrument including cotton swabs can be sterilized
- Bow and Dick test qualified, inbuilt sensor for distilled water
- Digital display of pressure and temperature
- Double safety lock on the door
- Silicon Gasket prevents any leakage of air
- Diagnostic automatic alarm for any manufacturing
- Can be used at 121 degree C/134 degree C during sterilization
- 2 Storage tanks for fresh and used water.
- Chamber Size 250mm*450mm
- Net weight 55 kg
- No. of Tray 3 No.

ATI 111. GLASS BEAD STERILIZER :-

An alternative to traditional methods of sterilizing, once switched 'ON' the units are ready to use within 30 MINUTES. and ensure total destruction of all micro - organism within seconds. Incorporated with an "IMPORTED" thermostat controls temperature from 50 degree C to 300 degree C with an accuracy of 1%. These units are compact enough to be placed on any Laminar Air Flow Bench or any other work side table in a clean room. To work on 220 volts. A.C. Crucible Size : 2" (Dia) x 6" (Depth).

MODEL	CONTROL	CAPACITY
ATI-GBS 26	Thermostatic Controller	(50x150mm)
ATI-GBS 26(D)	Microprocessor based Digital Controller	(50x150mm)

**ADVANTAGES:**

- Glass Bead Sterilizer is very convenient to use over alcohol/ flame for sterilizing implements (e.g. forceps, scalpels etc.) in the laboratory. It takes just 10 seconds to sterilize an instrument.
- Absolutely safe, effective and no mess-ups. No need of fire extinguishers near the hood. Can avoid flamed finger, no burning of hood surfaces nor burn of hairs on forearms (inherent danger with flames and alcohol)
- No bacterial carryover problems. Can avoid spores in alcohol and spreading of some bacteria that appear to be alcohol resistant.
- Especially good to use the Glass Bead Sterilizer in laboratories where you have a lot of students or trainees who may not have the practical manual dexterity to keep from flaming themselves and / or the alcohol.

ATI 112. MUFFLE FURNACE :

Light weight with ceramic fibre wool insulation. The outer casing made of double walled thick P.C.R.C. Sheet duly powder coated. Heating elements are made of KANTHAL wire backed by cerawool insulation. A viewing cap is also provided on the door. Temperature control unit consists of Microprocessor Based Digital Temperature Indicator cum controller. To work on 220 / 230 volts or 430 / 440 volts AC supply.

TEMPERATURE RANGE 900
& 1000 & 1150 DEGREE C

MODEL	CHAMBER SIZE IN MM
ATI-MFLT 2	100 x 100 x 225
ATI-MFLT 5	120 x 125 x 300
ATI-MFLT 7	150 x 150 x 300
ATI-MFLT 12	200 x 200 x 300
ATI-MFLT 15	175 x 175 x 475
ATI-MFLT 28	300 x 300 x 300
ATI-MFLT 42	300 x 300 x 455
ATI-MFLT 56	300 x 300 x 605



- OPTION :**
- Microprocessor based pid digital temperature indicator cum controller with an in- built digital timer to control the temperature. Once the unit is switched "ON" heating starts automatically and once the set / desired value is achieved the in- built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched " OFF " automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.
 - Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.
 - Profile Digital Microcontroller having 2 Programmes each of 8 steps (total 16 steps of ramp / soak profile) to cost extra for soft start to heaters which prolongs / enhances heater life.

ATI 112. A : MUFFLE FURNACE (ADVANCE MODEL) :-

- OPTION :**
- Display 16 x 2(Jumbo Blue LCD)
 - 4 Keys soft touch menu driven system
 - Auto tune Advance PID temperature control
 - PID values settable in menu
 - Audio Alarm on temperature deviation from Set Point/ Process Complete.
 - Selectable timer up to 99:59(Hours: Minutes)
 - Timer Disable option for continuous running.
 - Visual Alarm Led indication for Temperature Deviation / Heater / Fan / Timer
 - Relay / SSR based output controls for heater (PID).
 - Computer interface via RS232 interface + PC Software.



ATI 112 B. HIGH TEMPERATURE HEAT TREATMENT FURNACE :-

Electrically heated, chamber type Furnace using SILICON CARBIDE HEATING ROD Type elements. Maximum temperature up to 1500 degree C and working Temperature up to 1400 degree C. For continuous run.

Supplied complete with air cooled step down transformer, thermocouple ' B Type, Recrystallized alumina Sheath & connecting holder complete set. TO WORK ON 440 VOLT 3 PHASE Supply, Working chamber size:

1. 150x150x300 mm with Automatic Microprocessor DIGITAL PID CONTROLLER
2. O- SAME WITH PROFILE MICROCONTROLLER.
3. 00X200X300 mm with Automatic Microprocessor DIGITAL PID CONTROLLER
4. DO- SAME WITH PROFILE MICROPROCESSOR
5. 300x300x300 mm with Automatic Microprocessor DIGITAL PID CONTROLLER
6. DO- SAME WITH PROFILE MICROCONTROLLER

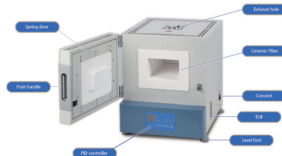


ATI 113. MUFFLE FURNACE (MICROPROCESSOR CONTROLLED DELUXE MODEL) :-

Light weight with ceramic fibre wool insulation. Triple walled with outer casing and inner wall made of double walled thick P.C.R.C. Sheet duly powder coated. Heating elements are made of KANTHAL wire backed by cerawool insulation. A viewing cap is also provided on the door. Temperature control unit consists of Microprocessor Based Digital Temperature Indicator cum controller. To work on 220 / 230 volts AC supply.

TEMPERATURE RANGE 900
& 1000 & 1150 DEGREE C

MODEL	CHAMBER SIZE IN MM
ATI-MFLT 7(DX)	150 x 150 x 300
ATI-MFLT 12(DX)	200 x 200 x 300



- OPTION :**
- Microprocessor based pid digital temperature indicator cum controller with an in- built digital timer to control the temperature. once the unit is switched "ON" heating starts automatically and once the set / desired value is achieved the in- built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched " OFF " automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.
 - Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.
 - Profile Digital Microcontroller having 2 Programmes each of 8 steps (total 16 steps of ramp / soak profile) to cost extra for soft start to heaters which prolongs / enhances heater life.

ATI 114. HOT AIR OVEN UNIVERSAL (MEMMERT TYPE) :-

Outer body made of PCRC duly powder coated and inner chamber and adjustable trays made of Stainless Steel (SS 304 grade). Gap between inner and outer wall is filled with mineral wool. Adjustable air ventilators are placed near the top of the sides. The door has synthetic rubber gasket. Temperature range few degrees above ambient to 250 degree C +/- 1 degree C. To work on 220 / 230 volts AC supply.

MODEL	INNER DIMENSION (DIA x HT)(in mm)	CAPACITY
ATI-OUT 28	300x300x300	28 ltrs
ATI-OUT 45	355x355x355	45 ltrs
ATI-OUT 95	455x455x455	95 ltrs
ATI-OUT 125	455x455x605	125 ltrs
ATI-OUT 224	605x605x605	224 ltrs
ATI-OUT 252	605x455x910	252 ltrs
ATI-OUT 336	605x605x910	336 ltrs
ATI-OUT 500	600x900x910	500 ltrs
ATI-OUT 750	900x900x900	750 ltrs



Oven Universal Digital with Air Circulating Model

OPTION : (a) Air circulating fan for above to maintain temperature uniformity throughout the chamber.

Oven Universal Digital Model With Air Circulation Fan

Fitted with Microprocessor Based PID Digital Temperature Indicator cum Controller to control the chamber temperature, Fitted with air circulating fan, as a standard accessory to maintain temperature uniformity throughout the chamber.

Oven Universal Semi Automatic Digital Model With Auto Timer

These units are fitted with specially designed MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR CUM CONTROLLER with an in- built DIGITAL TIMER to control the temperature from 50 degree C to 250 degree C (+/- 1 degree C). Once the unit is switched "ON" heating starts automatically and once the set/ desired value is achieved the in-built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, THUS ALERTING THE USER THAT PROCESS IS COMPLETE. Fitted with air circulating fan, as a standard accessories, to maintain temperature uniformity throughout the chamber.

ATI 115. OVEN UNIVERSAL (HIGH TEMPERATURE) (MICROPROCESSOR CONTROLLED) :-

Outer wall is made of PCRC Sheet duly powder coated and inner chamber and adjustable trays made of stainless steel (SS 304 grade). Temperature range 50 degree C to 300 degree C or 390 degree C (as ordered) is controlled with Microprocessor based pid digital temperature indicator cum controller with an accuracy of +/- 2 degree c. heating elements are placed on both sides . Fitted with air ventilator and air circulating fans.

MODEL	INTERNATIONAL DIMENSION (WxDxH) MM	CAPACITY
ATI-OHT 45 (SS)	355x355x355	45 ltrs
ATI-OHT 95 (SS)	455x455x455	95 ltrs
ATI-OHT125 (SS)	455x455x605	125 ltrs
ATI-OHT 224 (SS)	605x605x605	224 ltrs
ATI-OHT 336 (SS)	605x605x910	336 ltrs

**Digital Controlled Oven (High Temperature) upto 300 Degree C (Inner Chambers and trays of SS 304)**

Fitted with Microprocessor Based PID Digital Temperature Indicator cum controller to control the chamber temperature, Fitted with air circulating fan, as a standard accessories to maintain temperature uniformity throughout the chamber.

OPTION : ● These units can be fitted with specially designed SEMI AUTOMATIC MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR CUM CONTROLLER with an in-built DIGITAL TIMER to control the temperature from 50 degree C to 300 degree C (+/- 2 degree C) or 50 degree C to 390 degree C (+/- 3 degree C). Once the unit is switched "ON" heating starts automatically and once the set / desired value is achieved the in- built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.

● ---do---same as above but with 16x2 line alphanumeric LCD Display .

ATI 116. MINI TRAY DRYING OVEN / MINI DEHYDRATOR :-

These Triple walled unit have outer wall and inner chamber made of Mild Steel duly painted. Trays are made of aluminium. Temperature range from 50 degree C to 250 degree C is controlled with Microprocessor based pid digital temperature indicator cum controller with an accuracy of +/- 3 Degree C.

MODEL	INTERNATIONAL DIMENSION (WxDxH) MM	TRAY CAPACITY/ SUPPLIED
ATI-OHT 95 (SS)	455x455x455	3
ATI-OHT125 (SS)	455x455x605	4
ATI-OHT 224 (SS)	605x605x605	6
ATI-OHT 336 (SS)	605x605x910	9



OPTION :-

- These units can be fitted with Specially designed semi automatic microprocessor based pid digital temperature indicator cum controller with an in- built DIGITAL TIMER to control the temperature from 50 degree C to 300 degree C (+/- 2 degree C) or 50 degree C to 390 degree C (+/- 3 degree C). Once the unit is switched "ON" heating starts automatically and once the set / desired value is achieved the In-built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.
- do-----same as above but with 16x2 line alphanumeric LCD display.

ATI 117. INDUSTRIAL TRAY DRYING OVEN :-

Outer and inner chambers made of PCRC Sheet duly powder coated. Temperature range from 50 degree C to 250 degree C +/- 5 degree C controlled through microprocessor based pid digital temperature indicator cum controller. Fitted with heavy duty motor blower assembly. Available with provision to hold Various capacity /no. of trays, but supplied without aluminium / S.S trays (Option).

MODEL	INTERNATIONAL DIMENSION (WxDxH) (IN MM)	INTERNATIONAL DIMENSION (WxDxH) (IN FEET)	MAXIMUM TRAY -HOLDING CAPACITY
ATI-ITDO 323	900x900x900	3'x2'x3'	12
ATI-ITDO 333	900x900x900	3'x3'x3'	18
ATI-ITDO 334	900x900x1200	3'x3'x4'	24
ATI-ITDO 335	900x900x1500	3'x2'x5'	24
ATI-ITDO 336	900x900x1800	3'x2'x6'	24
ATI-ITDO 336	900x900x1800	3'x3'x6'	48
ATI-ITDO 338	900x900x2400	3'x3'x8'	60
ATI-ITDO 438	1200x900x2400	4'x3'x8'	96
ATI-ITDO 464	1200x1800x1200	4'x6'x4'	48



OPTION :-

- Each aluminium tray to cost extra.
- Each Stainless Steel tray (SS 304 grade) to cost extra.
- Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED display.

ATI 118. TRAY DRYING OVEN / DEHYDRATOR :-

Outer and inner chambers made of PCRC Sheet duly powder coated. Temperature range ambient + 50 degree C to 150 degree C +/- 2 degree C controlled through microprocessor based pid digital temperature indicator cum controller. Fitted with heavy duty motor blower assembly. Available with various capacities to hold 12/ 24/ 48/ 96 nos. of aluminium trays. Aluminium trays are supplied with the unit as a standard accessories.

MODEL	INTERNATIONAL DIMENSION (IN MM)	HEATER LOAD	TRAY CAPACITY/ SUPPLY
ATI-TDO 12	430x840x915	4.0 kw	12
ATI-TDO 24	915x840x915	6.0 kw	24
ATI-TDO 48	965x1275x1450	10.0 kw	48
ATI-TDO 96	965x1700x1450	20.0 kw	96

OPTION :-

- Spare aluminum tray.
- Spare stainless steel tray (SS 304 grade).
- Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.



ATI 119 : VACUUM OVEN (TEMPERATURE RANGE UPTO 150, 200, 300 DEGREE C) :-

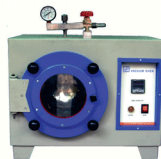
Outer body made of CRC sheet duly powder coated and inner chamber made of Stainless Steel (SS 304 grade). Temperature Ambient +5 degree C to 150,200,300 degree C with an accuracy of +/- 3 degree C. Fitted with tempered and toughened safety glass viewing window

Round Inner Chamber Digital Model

MODEL	INTERNATIONAL DIMENSION (WxDxH) MM	CAPACITY
ATI-VO 22 (LT)	300x300 (D) MM	22 ltrs
ATI-VO 44 (LT)	300x600 (D) MM	44 ltrs

Rectangular Inner Chamber Digital Model

MODEL	INTERNATIONAL DIMENSION (WxDxH) MM	CAPACITY
ATI-VO 16 (LT)	250x250x250 mm	16 ltrs
ATI-VO 28 (LT)	300x300x300 mm	28 ltrs
ATI-VO 95 (LT)	455x455x455 mm	95 ltrs

**OPTION :**

- Vacuum pump Oil free (For Oven of upto 28 ltrs. Capacity).
- Vacuum Pump (For Oven of 44 ltrs and 95 ltrs capacity).
- Microprocessor based pid digital temperature indicator cum controller with an in- built DIGITAL TIMER to control the temperature from ambient +5 degree C to 150 degree C or 200 degree C (+/- 3 degree C) or 300 degree C (+/- 3 degree C). Once the unit is switched "ON" heating starts automatically and once the set/ desired value is achieved the in- built automatic digital minute timer starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds buzzer, thus alerting the user that process is complete.
- Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.
- Digital vacuum indicator with transducer.

ATI 120. OVEN AND INCUBATOR COMBINED :-

Outer wall is made of PCRC Sheet duly powder coated and inner chamber and adjustable trays made of stainless steel (SS 304 grade). Temperature range 50 degree C to 300 degree C or 390 degree C (as ordered) is controlled with Microprocessor based pid digital temperature indicator cum controller with an accuracy of +/- 2 degree C. heating elements are placed on both sides. Fitted with air ventilator and air circulating fans.

MODEL	INTERNATIONAL DIMENSION (IN MM)	Total Heat load	CAPACITY	No. of shelves
ATI-OIC 45	355x355x355 MM	1.25 kw	45+45 ltrs	2
ATI-OIC 95	455x455x455 MM	2.50 kw	95+95 ltrs	2
ATI-OIC 125	455x455x605 MM	3.75 kw	125+125 ltrs	2
ATI-OIC 224	605x605x605 MM	20.0 kw	224+224 ltrs	2



SAD Controller :- Microprocessor based digital temperature indicator cum controller with an in built digital timer and alarm.

OPTION :

- Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.

ATI 121. HYBRIDIZATION INCUBATOR :-

Double walled units having outer chamber of mild steel duly painted and inner of Stainless Steel. Temperature is controlled through a Microprocessor Based PID Digital Temperature Indicator cum Controller with an accuracy of +/- 0.5 degree C. Carrier to hold bottles (6 nos of size : 60 mm dia X 200 mm depth). Carrier rotates at a variable speed of 2 to 16 rpm. Viewing glass window in the door allows inspection of the specimen inside the chamber.

MODEL	TEMPERATURE RANGE
ATI-HI 219 (HT)	FROM 50C ABOVE AMBIENT TO 900C
ATI-HI 219 (HC)	FROM 50C TO 900C (REFRIGERATED MODEL)

OPTION :

- Hybridization Bottle.
- Additional Carrier for bottles
- Rocker platform at base (30 to 80 rpm)



ATI 122. BACTERIOLOGICAL INCUBATOR :-

Outer body made of PCRC duly powder coated and inner chamber and adjustable trays made of Stainless Steel (SS 304 grade). Gap between inner and outer wall is filled with mineral wool. Adjustable air ventilators are placed near the top of the sides. The door has synthetic rubber gasket. Temperature range few degree above ambient to 70 degree C +/- 1 degree C. To work on 220/ 230 volts AC supply.



MODEL	INTERNATIONAL DIMENSION (IN MM)	CAPACITY
ATI-IUT 28	300x300x300 MM	28 ltrs
ATI-IUT 45	355x355x355 MM	45 ltrs
ATI-IUT 95	455x455x455 MM	95 ltrs
ATI-IUT 125	455x605x605 MM	125 ltrs
ATI-IUT 224	605x605x605 MM	224 ltrs
ATI-IUT 252	605x455x910 MM	252 ltrs
ATI-IUT 336	605x605x910 MM	336 ltrs
ATI-IUT 500	600x900x900 MM	500 ltrs
ATI-IUT 750	900x900x900 MM	750 ltrs

OPTION : ● Air circulating fan for above to maintain temperature uniformity throughout the chamber.

● BACTERIOLOGICAL INCUBATOR DIGITAL MODEL WITH AIR CIRCULATING FAN

Fitted with Microprocessor Based PID Digital Temperature Indicator cum Controller to control the chamber temperature, Fitted with air circulating fan, as a standard accessory to maintain temperature uniformity throughout the chamber.

● BACTERIOLOGICAL INCUBATOR SEMI AUTOMATIC DIGITAL SAD MODEL WITH AUTO TIMER

These units are fitted with specially designed microprocessor based pid digital temperature indicator-cum-controller with an in-built digital timer to control the temperature from 50 degree C to 70 degree C (+1 degree C). Once the unit is switched "ON" heating starts automatically and once the set / desired value is achieved the in-built automatic digital minute timer starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete. Fitted with air circulating fan, as a standard accessory, to maintain temperature uniformity throughout the chamber.

ATI 123. B.O.D. INCUBATOR (LOW TEMPERATURE) :-

MODEL	INTERNATIONAL DIMENSION (W x D x H) (IN MM)	VOLUME	CAPACITY	No. of shelves
ATI-LTI 2	405x405x405 (Bench Top Model)	2.4 CUFT	65 ltrs	2
ATI-LTI 4	455x410x830	4 CUFT	112 ltrs	2
ATI-LTI 6	505x415x830	6.1 CUFT	171 ltrs	2
ATI-LTI 10	570x550x875	10 CUFT	280 ltrs	3
ATI-LTI 12	650x580x900	12 CUFT	340 ltrs	3
ATI-LTI 15	700x640x900	15 CUFT	420 ltrs	4
ATI-LTI 16	700x640x970	16 CUFT	450 ltrs	4
ATI-LTI 18	700x640x1100	18 CUFT	500 ltrs	4
ATI-LTI 20	700x700x1100	20 CUFT	560 ltrs	4

OPTION :

- Interior illumination arrangement.
- Cyclic timer to control cyclic illumination conditions.
- CO₂ / Air Port – For incubation of CO₂ / Air Mixture.
- CO₂ Cylinder capacity 9 ltrs with CO₂ regulator and pipe fittings.
- Communication Port with interface and data cable to download data to your PC.
- Humidity generation and control arrangement through a Digital humidity indicator cum controller from 55% RH to 95% RH. it cool temperatures with an accuracy of +/- 3% RH.
- Exterior illumination arrangement (option only for humidity controlled systems – if illumination required with option (f).
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.



B.O.D. INCUBATOR (LOW TEMPERATURE DELUXE MODEL):-

- Easy to operate high features Auto tune PID temperature control
- Microprocessor based Auto tune Advance Pid digital temperature controller controls Temperature precisely at set value
- Display 16x2 (Jumbo Blue LCD)
- Sensor - RTD - PT 100
- Temperature Range : 0-60 degree Celsius Resolution 0.1 Degree C
- 4 keys soft touch Menu Driven system
- Auto tune Advance PID temperature control
- PID value settable in menu
- Audio Alarm on temperature deviation from Set Point / Process Complete

- Selectable Timer up to 99:59 (Hours:Minutes)
- Timer Disable option for continuous running.
- Visual Alarm Led indication for Temperature Deviation/ Heater/ Cooler/ Fan/ Timer
- SSR Based output controls for Heater (PID) as well as Cooler (Normal)
- Computer interfaces via Rs232 interface + PC Software

B.O.D. INCUBATOR WITH FULLY S.STEEL OUTER & INNER ARE MADE OF SS-304 GRADE WITH (with internal Data-Logger) MICROPROCESSOR LCD DISPLAY WITH RS-232 PORT

- Specifications are same as per our cat. No. ATI-122 but with outer body & inner chamber are made of fully SS-304 grade (gmp model)
- On Board Internal DATA Logging-Logs 1000 readings of Date/ Time/ Temperature
- Transferable to Computer Software.
- Computer Software Generates Graph & Log Sheet (Non-Editable & Printable)
- Easy To operate high features Auto tunes PID temperature control
- Microprocessor based Auto tunes Advance PID Digital temperature controller controls temperature precisely at set value.
- Sensor - RTD - PT 100
- Temperature Range : 0-60 degree Celsius Resolution 0.1 Degree C
- 4 keys soft touch Menu Driven system
- Auto tune Advance PID temperature control
- PID value setttable in menu
- Audio Alarm on temperature deviation from Set Point / Process Complete
- Selectable Timer up to 99:59 (Hours:Minutes)
- Timer Disable option for continuous running.
- Visual Alarm Led indication for Temperature Deviation/ Heater/ Cooler/ Fan/ Timer
- SSR Based output controls for Heater (PID) as well as Cooler (Normal)
- Computer interfaces via Rs232 interface + PC Software

ATI 124. DEEP FREEZER VERTICAL & HORIZONTAL :-

Outer wall made of CRC Sheet duly powder coated and inner chamber made of stainless steel (SS 304 grade) . Space between inner chamber and outer wall filled with foamed in place PUF insulation. Temperature Range from ambient to (-) 20 degree C or (-) 30 degree C or (-) 40 degree C is controlled through a Microprocessor based Digital Temperature indicator cum controller.

TEMP. RANGE UPTO -30 DEGREE C	TEMP. RANGE UPTO -30 DEGREE C	TEMP. RANGE UPTO -40 DEGREE C	
MODEL	MODEL	MODEL	CAPACITY
ATI-VDF 4	ATI-VDF 4M	ATI-VDF 4L	112 ltrs.
ATI-VDF 6	ATI-VDF 6M	ATI-VDF 6L	171 ltrs.
ATI-VDF 10	ATI-VDF 10M	ATI-VDF 10L	280 ltrs.
ATI-VDF 12	ATI-VDF 12M	ATI-VDF 12L	340 ltrs.
ATI-VDF 15	ATI-VDF 15M	ATI-VDF 15L	420 ltrs.
ATI-VDF 16	ATI-VDF 16M	ATI-VDF 16L	450 ltrs.
ATI-VDF 18	ATI-VDF 18M	ATI-VDF 18L	500 ltrs.
ATI-VDF 20	ATI-VDF 20M	ATI-VDF 20L	560 ltrs.
ATI-VDF 23	ATI-VDF 23M	ATI-VDF 23L	650 ltrs.
ATI-VDF 25	ATI-VDF 25M	ATI-VDF 25L	700 ltrs.
ATI-VDF 30	ATI-VDF 30M	ATI-VDF 30L	840 ltrs.
ATI-VDF 36	---	---	1000 ltrs.
ATI-VDF 50	---	---	1410 ltrs.



ATI 125. DEEP FREEZER (WITH GLYCOL GEL FILLED PACKS) :-

These are extremely light weight Chest – Type Models with fast temperature pull down and long holdover time as key features. Temperature range from (-) 16 degree C to (-) 24 degree C is set through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator cum Controller with low and high alarm (option) can be fitted at extra cost. Supplied with one basket for effective loading of storage material. Low power consumptions saves on the electricity bills and running cost. Supplied complete with 13 Nos. Glycol Packs (1.5 kg / unit). To work on 220 Volts AC Supply.

MODEL	VOLUME	CAPACITY	HOLD OVER TIME
ATI-GGF 150	5.3 CUFT	150 ltrs	8-12 HOURS

- OPTION :**
- Microprocessor controller with door open alarm, power failure alarm and temperature deviation, in lieu of standard temperature controller.
 - Automatic Voltage Stabilizer to cost extra.
 - Servo Voltage Stabilizer to cost extra.



ATI 126. DEEP FREEZER (BATTERY OPERATED) :-

Horizontal Chest Type mounting, the system has dual temperature range and has a universal use as a refrigerator or as a freezer (upto - 20 degree C). Runs on dual energy i.e. 220 volts AC Supply or on battery, in case of power cut (Automatic Switch AC / DC). Temperature is set through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator cum Controller (option) can be fitted with low and high alarm at extra cost. Battery (option) to user's scope but if required can be supplied at an extra cost. Solar panel (option) to charge battery (option available for remote areas like farms etc. with no / poor electricity supply) is also available at extra cost.

MODEL	VOLUME	CAPACITY	NO. OF BASKETS
ATI-BOF 100	5.3 CUFT	100 ltrs	2

- OPTION :**
- Microprocessor controller with Power failure alarm and temperature deviation, In lieu of standard temperature controller.
 - Solar Panel to charge battery to cost extra.
 - Automatic Voltage Stabilizer to cost extra.
 - Servo Voltage Stabilizer to cost extra.
 - Battery to cost extra.



ATI 127. ULTRA LOW TEMPERATURE BIO - FREEZER :-

Outer body made of Steel Sheet duly powder coated / moulded / SS / and inner liner plastic moulded / stucco finish / SS. Available in both Vertical / Chest Type Models. Foamed in-place PUF insulation for minimal thermal losses. Temperature range (-) 16 degree C to (-) 20 degree C is set through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator cum Controller with low and high alarm (option) can be fitted at an extra cost to set temperature range upto (-) 20 degree C. To work on 22 Volts AC Supply.

(VERTICAL MODEL)	(HORIZONTAL MODEL)		
MODEL	MODEL	VOLUME	CAPACITY
ATI-VDF 2.5(ULT)	ATI-HDF 2.5(ULT)	2.5 cuft	72 ltrs
ATI-VDF 4(ULT)	ATI-HDF 4(ULT)	4 cuft	112 ltrs
ATI-VDF 6(ULT)	ATI-HDF 6(ULT)	6 cuft	171 ltrs
ATI-VDF 10(ULT)	ATI-HDF 10(ULT)	10 cuft	280 ltrs
ATI-VDF 12(ULT)	ATI-HDF 12(ULT)	12 cuft	340 ltrs
ATI-VDF 15(ULT)	ATI-HDF 15(ULT)	15 cuft	420 ltrs
ATI-VDF 19(ULT)	—	19 cuft	538 ltrs
ATI-VDF 24(ULT)	—	24 cuft	668 ltrs
ATI-VDF 27(ULT)	—	27 cuft	768 ltrs
ATI-VDF 30(ULT)	—	30 cuft	828 ltrs

- OPTION :**
- Power failure alarm to cost extra.
 - Power bank (for indication of temperature).
 - Automatic Voltage Stabilizer to cost extra.
 - Servo Voltage Stabilizer to cost extra.
 - Battery to cost extra.
 - Communication Port with Software to cost extra.
 - Circular Chart recorder to cost extra.



ATI 128. CHEST / VERTICAL FREEZER (LOW COST):-

Outer body made of Steel Sheet duly powder coated / moulded / SS / and inner liner plastic moulded / stucco finish / SS. Available in both Vertical / Chest Type Models. Foamed in-place PUF insulation for minimal thermal losses. Temperature range (-) 16 degree C to (-) 20 degree C is set through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator cum Controller with low and high alarm (option) can be fitted at an extra cost to set temperature range upto (-) 20 degree C. To work on 22 Volts AC Supply.

MODEL	VOLUME	CAPACITY	NO. OF SHELVES	MOC INNER CHAMBER	MOC OUTER CHAMBER	TYPE OF DOOR
ATI-LCF 135 V	4.8 cuft	135 ltrs	3 Drawers	MOULDED	STEEL	SOLD
ATI-LCF 245 V	8.8 cuft	245 ltrs	6 Drawers	MOULDED	STEEL	SOLD
ATI-LCF 340 V	12.0 cuft	340 ltrs	2+5 Drawers	MOULDED	STEEL	SOLD
ATI-LCF 340(FF) V	12.0 cuft	340 ltrs	2+5 Drawers	MOULDED	STEEL	SOLD
ATI-LCF 370 V	13.2 cuft	370 ltrs	6+1 Drawers	MOULDED	STEEL	SOLD
ATI-VF 650 XL	23.0 cuft	650 ltrs	3+1 Drawers	STAINLESS STEEL	STAINLESS STEEL	SS (2 DOORS)
ATI-VF 14.11 XL	50.0 cuft	1410 ltrs	6+2 Drawers	STAINLESS STEEL	STAINLESS STEEL	SS (2 DOORS)



MODEL	VOLUME	CAPACITY	MOC INNER CHAMBER	MOC OUTER CHAMBER
ATI-LCF 100 C	3.5 cuft	100 ltrs	STUCCO FINISH	MOULDED
ATI-LCF 200 C	7.0 cuft	200 ltrs	STUCCO FINISH	MOULDED
ATI-LCF 300 C	10.5 cuft	300 ltrs	STUCCO FINISH	MOULDED
ATI-LCF 450 C	14.0 cuft	450 ltrs	STUCCO FINISH	MOULDED
ATI-LCF 550 C	17.5 cuft	550 ltrs	STUCCO FINISH	MOULDED
ATI-LCF 750 C	26.0 cuft	750 ltrs	STUCCO FINISH	MOULDED

- OPTION :**
- Microprocessor controller with door open alarm, power failure alarm and temperature deviation, in lieu of standard temperature controller.
 - Automatic Voltage Stabilizer to cost extra.
 - Servo Voltage Stabilizer to cost extra.

ATI 129-a. BLOOD BANK REFRIGERATOR

Outer Body made of PCRC sheet duly powder coated and inner wall and trays made of Stainless Steel (SS-304 Grade). A pre-set temperature range of 4°C is controlled through a digital temperature indicator cum controller. Complete with door operated, temperature deviation and system failure alarm. To work on 220/230 Volts AC supply.

MODEL	BLOOD BATTI ACCOMMODATION (OF 350ML CAP.)	CAPACITY
ATI-BBR 2	24 Bags	40 ltrs
ATI-BBR 4	60 Bags	112 ltrs
ATI-BBR 6	110 Bags	171 ltrs
ATI-BBR 8	200 Bags	220 ltrs
ATI-BBR 10	250 Bags	280 ltrs
ATI-BBR 15	360 Bags	420 ltrs

- OPTION :**
- Please refer below.



ATI 129-b. BLOOD BANK REFRIGERATOR (DELUXE MODEL) As per WHO guidelines

Outer Body made of Stainless Steel (SS-304 Grade) and inner wall and trays made of Stainless Steel (SS-304 Grade). Fitted with Microprocessor based integrated controller with Alphanumeric LCD Display and menu driven membrane keypad to control temperature at 4°C ± 1°C. Controlled has all advance features such as door operated alarm, temperature deviation alarm, system failure alarm and power failure alarm. System is designed to meet WHO GUIDELINES Vis-À-Vis, type of pull out drawers, size of drawers, distance between each drawers (To maintain temp. UNIFORMITY), hold over time in case of power failure, NON-CFC refrigerants, PUF insulated layer etc. To work on 220 / 430 Volts AC supply.

MODEL	TANK SIZE WxDxH	BODY SIZE WxDxH	TANK SIZE WxDxH	CAPACITY
ATI-BBR 120(LCD)	24"x28"x24"	29"x37.4"x46"	20"x27"x4"	265 ltrs
ATI-BBR 180(LCD)	24"x28"x32"	29"x37.4"x54"	20"x27"x4"	350 ltrs
ATI-BBR 240(LCD)	24"x28"x40"	29"x37.4"x64"	20"x27"x4"	440 ltrs
ATI-BBR 300(LCD)	24"x28"x48"	29"x37.4"x72"	20"x27"x4"	530 ltrs
ATI-BBR 360(LCD)	24"x28"x56"	29"x37.4"x80"	20"x27"x4"	618 ltrs
ATI-BBR 432(LCD)	24"x28"x56"	29"x37.4"x80"	24"x27"x4"	720 ltrs

- OPTION :**
- RS-232 Communication port with US FDA21 CFR-11 compliance windows based communication software for data management and logging.
 - Stand-by ready to use refrigeration system in case regular system fails, with auto changeover switch.
 - Battery back-up (20-30 minutes) in case power fails, for digital temperature display only.
 - Automatic Voltage Stabilizer to cost extra.
 - Servo Voltage Stabilizer to cost extra.



ATI 129-C. PLASMA FREEZER

MODEL	CAPACITY	INTERNAL DIA. WxDxH(mm)	NO. OF BATIS	TEMP. RANGE	INPUT VOLTATIE
ATI-VPF 4	112 ltrs	455x410x610	75	-35°C	230 V AC
ATI-VPF 6	171 ltrs	505x415x830	135	-35°C	230 V AC
ATI-VPF 10	280 ltrs	570x550x875	245	-35°C	230 V AC
ATI-VPF 12	340 ltrs	650x580x900	300	-35°C	230 V AC
ATI-VPF 15	420 ltrs	700x640x900	400	-35°C	230 V AC



ATI 130. SEED GERMINATOR (SINGLE CHAMBER) :-

Outer chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS – 304). Fitted with microprocessor Based Digital Temperature Indicator cum controller from 5 degree C to 60 degree C \pm 0.5 degree C. Humidity (not adjustable) is created in a stainless steel (SS 304) water reservoir fitted at bottom of inner chamber to provide humidity at 90% to 95% RH (\pm 0.5%).

MODEL (LCD)	INNER DIMENSIONS (WxDxH)	CAPACITY	VOLUME	NO. OF SHELVES
ATI-SGSC 4	455x10x610mm	112 ltrs	4 cuft	4
ATI-SGSC 6	505x415x830mm	171 ltrs	6.1 cuft	6
ATI-SGSC 10	570x550x875mm	280 ltrs	10 cuft	8
ATI-SGSC 12	650x580x900mm	340 ltrs	12 cuft	14
ATI-SGSC 15	700x640x900mm	420 ltrs	15 cuft	14
ATI-SGSC 16	700x640x970mm	450 ltrs	16 cuft	14
ATI-SGSC 18	700x640x1100mm	500 ltrs	18 cuft	16
ATI-SGSC 20	700x700x1100mm	560 ltrs	20 cuft	16



OPTION :

- Exterior illumination with fluorescent tubes.
- 0-24 hrs cyclic timer to control cyclic illumination conditions.
- Communication Port with interface and data cable to download data to your PC.
- Humidity generation and control arrangement through a digital humidity indicator cum controller from 55% RH to 95% RH at cool temperatures with an accuracy of \pm 0.5% RH.
- Fitted with microprocessor based TEMPERATURE HUMIDITY CONTROLLER with 16x2 line alphanumeric backlit LCD display in lieu of standard controller. (option available only for Humidity Controlled Systems).
- Automatic Voltage Stabilizer to cost extra.

ATI 131. SEED GERMINATOR (DOUBLE CHAMBER) :-

MODEL	INNER DIMENSIONS OF EACH CHAMBER (WxDxH)	CAPACITY	VOLUME	NO. OF SHELVES
ATI-SGDC 4	505x415x830mm x 2 Chambers	342 ltrs	12.2 cuft	6+6
ATI-SGDC 6	505x415x830mm x 2 Chambers	342 ltrs	12.2 cuft	6+6
ATI-SGDC 10	570x550x875mm x 2 Chambers	560 ltrs	20 cuft	8+8
ATI-SGDC 12	570x550x875mm x 2 Chambers	560 ltrs	20 cuft	8+8
ATI-SGDC 15	555x605x910mm x 2 Chambers	616 ltrs	22 cuft	14+14
ATI-SGDC 16	555x605x910mm x 2 Chambers	616 ltrs	22 cuft	14+14



OPTION :

- Exterior illumination with fluorescent tubes
- 0-24 hrs cyclic timer to control cyclic illumination conditions
- Humidity generation and control arrangement through a DIGITAL HUMIDITY INDICATOR CUM CONTROLLER from 55% RH to 95% RH at cool temperatures with an accuracy of \pm 0.5% RH. Fitted with Microprocessor based TEMPERATURE HUMIDITY CONTROLLER with 16x2 line alphanumeric backlit LCD display in lieu of standard controller. CO2 Cylinder capacity 9 ltrs with CO2 regulator and pipe fittings. Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.

ATI 132. WATER BATH INCUBATOR SHAKER (TO AND FRO MOTION) :-

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and lid made up of Stainless Steel Sheet (SS 304 grade). Fitted with microprocessor based Digital temperature indicator cum controller, to control temperature range ambient to 100 degree C ± 0.5 degree C. Fitted with heavy duty PMDC motor and thruster based DC drive speed control arrangement to control speed from 40 to 140 cycles / minute.

MODEL	INNER DIMENSIONS (WxDxH)	CAPACITY
ATI-MS 18(D)	405x300x150mm	18 ltrs
ATI-MS 18(SAD)	405x300x150mm	18 ltrs

FLASK CAPACITY	NO. OF FLASK
25 ML	20
50 ML	16
100 ML	12
250 ML	9
500 ML	5
1000 ML	4
25MM DIA TUBES	35

- OPTION :**
- Spare Shaking tray with lotus clamps or test tube rack.
 - Digital RPM / SPEED Meter.

- OPTION :**
- Microprocessor based semi automatic pid digital temperature indicator cum controller with an in-built digital timer to control the temperature from Ambient + 5 degree C to 100 degree C
 - Once the unit is switched 'ON' heating starts automatically and once the set / desired value is achieved in the built automatic digital minute timer starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.
 - Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.



ATI 133. WATER BATH INCUBATOR SHAKER (REFRIGERATED) (TO AND FRO MOTION) :-

MODEL	INNER DIMENSIONS (WxDxH)	CAPACITY
ATI-MSR 18(D)	405x300x150mm	18 ltrs

FLASK CAPACITY	NO. OF FLASK
25 ML	20
50 ML	16
100 ML	12
250 ML	9
500 ML	5
1000 ML	4
25MM DIA TUBES	35



- OPTION :**
- Spare Shaking tray with lotus clamps or test tube rack.
 - Digital RPM / SPEED Meter.

ATI 134. WATER BATH RECTANGULAR (SINGLE WALLED) :-

Single walled construction . Chamber and concentric rings made of stainless steel (SS-304 grade) .

MODEL	NO. OF HOLES
ATI-WBS 6	6 HOLES OF 75 MM DIA 6
ATI-WBS 12	12 HOLES OF 75 MM DIA



ATI 135. WATER BATH RECTANGULAR (DOUBLE WALLED) :-

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and concentric rings made up of Stainless Steel Sheet (SS 304 grade). Available in thermostat and digitally controlled models. Temperature Range Ambient +5 degree C to 100 degree C ± 0.5 degree C.

MODEL	INTERNAL DIMENSION	NO. OF HOLES
ATI-WBRT 6	300x250x100 mm	6 Holes of 75 mm Dia 6
ATI-WBRT 12	355x405x100 mm	12 Holes of 75 mm Dia



- OPTION :**
- High speed stirrer with FHP motor , SS rod and stirring blade with speed regulator knob.

With Microprocessor Based Digital Temperature Indicator cum Controller And High Speed Stirrer.

MODEL	INTERNAL DIMENSION	NO. OF HOLES
ATI-WBRD 6	300x250x100 mm	6 Holes of 75 mm Dia
ATI-WBRD 12	355x405x100 mm	12 Holes of 75 mm Dia

- OPTION :**
- Microprocessor based semi automatic pid digital temperature indicator cum controller with an in built DIGITAL TIMER to control the temperature from ambient +5degree C to 100 degree c. Once the unit is switched 'ON' heating starts automatically and once the set / desired value is achieved the in built automatic digital minute timer starts automatically. Once this set time period is over the heaters switched "OFF" automatically and the unit sounds a BUZZER , thus alerting the user that process is complete.
 - Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED display.

ATI 136. WATER BATH SEROLOGICAL :-

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and cover made up of Stainless Steel Sheet (SS 304 grade). Available in thermostat and digitally controlled models. Temperature range from ambient +5 degree C to 80 degree C +/- 0.5 degree C .

With Microprocessor Based Digital Temperature Indicator cum Controller and High Speed Stirrer.

MODEL	INTERNAL DIMENSION
ATI-SWBT 14	300x250x175 mm
ATI-SWBT 18	300x300x175 mm
ATI-SWBT 25	455x300x175 mm
ATI-SWBT 32	605x300x175 mm
ATI-SWBT 14(SAD)	300x250x175 mm
ATI-SWBT 18 (SAD)	300x300x175 mm
ATI-SWBT 25 (SAD)	455x300x175 mm
ATI-SWBT 32	605x300x175 mm

Thermostatic Model

MODEL	INTERNAL DIMENSION	NO. OF RACKS
ATI-SWBT 14	300x250x175 mm	2
ATI-SWBT 18	300x300x175 mm	4
ATI-SWBT 25	455x300x175 mm	6
ATI-SWBT 32	605x300x175 mm	8

- OPTION :**
- Microprocessor based semi automatic pid digital temperature indicator cum controller with an in-built digital timer to control the temperature from Ambient + 5 degree C to 100 degree C . Once the unit is switched 'ON' heating starts automatically and once the set / desired value is achieved the in built automatic digital minute timer starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER , thus alerting the user that process is complete.
 - Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller



ATI 137. WATER BATH HIGH PRECISION :-

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and lid made up of Stainless Steel Sheet (SS 304 grade). Fitted with microprocessor based Digital temperature indicator cum controller, to control temperature range ambient to 100 degree C +/-0.3 degree C. Fitted with high speed FHP motor stirrer, SS rod and stirring blade with speed regulator as a standard feature . Inner Chamber size : 430x240x265 mm (Capacity : 28 ltrs).

MODEL
ATI-HPWB 28
ATI-HPWB 28(SADS)

- OPTION :**
- Microprocessor based semi automatic pid digital temperature indicator cum controller with an in-built DIGITAL TIMER TO CONTROL THE TEMPERATURE FROM Ambient + 5 degree C to 100 degree C . Once the unit is switched 'ON' heating starts automatically and once the set / desired value is achieved the in built automatic digital minute timer starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER , thus alerting the user that process is complete.
 - Controller with 16x2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.



CLEANROOM & EQUIPMENTS



ATI 138. HORIZONTAL LAMINAR FLOW CABINET :-

Complete self standing unit supplied with Stainless Steel (SS- 304 grade) working bench / tables, transparent plexi- glass front door, static pressure manometer, U.V. germicidal tube and one cock for gas, air or vacuum line, Fitted with pre- filter and HEPA FILTER confirming to ISO (class 5) equivalent to U.S. FEDERAL CLASS 100. Body made of wooden, cold rolled steel (powder coated) or stainless steel (ss 304) as ordered . All systems are mounted on mild steel tubular stand duly powder coated fitted with castors for easy movement. Fitted with Pre- Filter and HEPA Filter (ULPA filter in lieu of HEPA Filter available at extra cost).

MODEL	INTERNAL DIMENSION
ATI-LH 22	600x600x600 mm
ATI-LH 32	900x600x600 mm
ATI-LH 42	1200x600x600 mm
ATI-LH 62	1800x600x600 mm
ATI-LH 82	2400x600x600 mm

**OPTION :**

- ULPA Filter in lieu of HEPA filter to cost extra.
- Front door made of transparent polycarbonate sheet in lieu of plexi glass to cost extra.
- Magnehelic Gauge (To track filter pressure) in lieu of static pressure manometer.
- Electronic Filter choke alarm. (Differential pressure monitor).
- Interlocking of U.V. Germicidal Tube & fluorescent light with auto switch off / on mode for blower when the door is closed / open.
- Microprocessor LCD Controller with Auto Switch off mode for motor blower when door is closed. Digital buzzer timer sounds an audio alarm in completion of sterilizing time of the chamber and the switches off U.V. germicidal tube and automatically switches ON the fluorescent light, alerting the user that the bench is ready for use. Hour Meter totalizer for U.V. light.

ATI 139. VERTICAL LAMINAR AIR FLOW CABINET :-

Complete self standing unit supplied with Stainless Steel (SS 304 grade) working bench/ tables, transparent plexi glass front door, static pressure manometer, UV . germicidal tube and one cock for gas , air or vacuum line, Fitted with pre- filter and HEPA FILTER confirming to ISO (CLASS 5) equivalent, to US. FEDERAL CLASS 100, Body made of wooden , cold rolled steel (powder coated) or stainless steel (SS 304) as ordered . All systems are mounted on mild steel tubular stand duly powder coated fitted with castors for easy movement. Fitted with pre- Filter and HEPA Filter (ULPA filter in lieu of HEPA filter available at extra cost).

MODEL	INTERNAL DIMENSION
ATI-LV 22	600x600x600 mm
ATI-LV 32	900x600x600 mm
ATI-LV 42	1200x600x600 mm
ATI-LV 62	1800x600x600 mm
ATI-LV 82	2400x600x600 mm

**OPTION :**

- ULPA Filter in lieu of HEPA filter to cost extra.
- Front door made of transparent POLYCARBONATE SHEET in lieu of plexi glass to cost extra.
- Magnehelic Gauge (To track filter pressure) in lieu of static pressure manometer.
- Electronic Filter choke alarm. (Differential pressure monitor).
- Interlocking of U.V. Germicidal Tube & fluorescent light with auto switch off / on mode for blower when the door is closed / open.
- Microprocessor LCD Controller with Auto Switch off mode for motor blower when door is closed. Digital buzzer timer sounds an audio alarm in completion of sterilizing time of the chamber and the switches off U.V. germicidal tube and automatically switches ON the fluorescent light, alerting the user that the bench is ready for use.
- Hour Meter totalizer for U.V. light.
- Sliding door (Manually Operated).
- Sliding door (Motorized)

ATI 140. VERTICAL LAMINAR AIR FLOW CABINET (Total Exhaust Model) :-

Complete self standing unit supplied with Stainless Steel (SS 304 grade) working bench/ tables, transparent plexi glass front door, static pressure manometer, UV . germicidal tube and one cock for gas , air or vacuum line, Fitted with pre- filter and HEPA FILTER confirming to ISO (CLASS 5) equivalent, to US. FEDERAL CLASS 100, Body made of wooden , cold rolled steel (powder coated) or stainless steel (SS 304) as ordered . All systems are mounted on mild steel tubular stand duly powder coated fitted with castors for easy movement. Fitted with pre- Filter and HEPA Filter (ULPA filter in lieu of HEPA filter available at extra cost). With special Exhaust arrangement for near 100% exhaust of air (as per CLASS II). Fitted with Pre- filter and HEPA Filter (ULPA filter in lieu of HEPA filter available at extra cost).

MODEL	INTERNAL DIMENSION
ATI-LV 22 (TX)	600x600x600 mm
ATI-LV 32 (TX)	900x600x600 mm
ATI-LV 42 (TX)	1200x600x600 mm
ATI-LV 62 (TX)	1800x600x600 mm
ATI-LV 82 (TX)	2400x600x600 mm



OPTION :

- ULPA Filter in lieu of HEPA filter to cost extra.
- Front door made of transparent POLYCARBONATE SHEET in lieu of plexi glass to cost extra.
- Magnehelic Gauge (To track filter pressure) in lieu of static pressure manometer.
- Electronic Filter choke alarm. (Differential pressure monitor).
- Interlocking of U.V. Germicidal Tube & fluorescent light with auto switch off / on mode for blower when the door is closed / open.
- Microprocessor LCD Controller with Auto Switch off mode for motor blower when door is closed. Digital buzzer timer sounds an audio alarm in completion of sterilizing time of the chamber and the switches off U.V. germicidal tube and automatically switches ON the fluorescent light, alerting the user that the bench is ready for use.
- Hour Meter totalizer for U.V. light.
- Sliding door (Manually Operated).
- Sliding door (Motorized)
- Virus Burn out unit.
- Exhaust ducting / per running feet.

ATI 141. BIOLOGICAL SAFETY CABINET

Working table is made of heavy gauge stainless steel sheet. Fitted with U.V. Germicidal, Light and static pressure manometer. Side panels and front doors are made of thick transparent plexi glass duly framed. Unit is fitted with Pre-Filter and HEPA filter. Air is drawn through Pre-filter and is made to pass through highly effective HEPA (Highly efficiency particular air) filters having efficiency retaining all air borne particles of size 0.3 micron and larger. With statically and dynamically balanced motor assembly. Heavy duty motor operate with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. The unit is convertible to the conventional vertical laminar flow bench with downward air flow by lifting the sliding front doors upwards. Air is sucked through the pre filter and the excess air is thrown out from the top through a HEPA filter. Supplied with glove ports and gauntlets, HEPA filter, pre filter, UV light and fluorescent light. To work on 220/230 volts AC Supply.

STANDARD MODEL/ MICROPROCESSOR CONTROLLED WITH LCD DISPLAY

In addition to the above features of a Standard Vertical Laminar Flow Bench, the class II Bio safety cabinets have arrangements for re-circulating a part of the air thus creating highest level of clean air. This cabinet is vented with partial air exhausted from the cabinet and partial is recirculated is back.

(a) Whole cabinet is made of cold rolled steel duly powder coated.

(b) Whole cabinet is made of stainless steel.

MODEL	INTERNAL DIMENSION	SIZE OF HEPA FILTER	NO. OF HEPA FILTER	ILLUMINATION
ATI-BSC 22	2x2x2 mm	2x2x6	1	1 X 20W
ATI-BSC 32	3x2x2 mm	3x2x6	1	1 X 20W
ATI-BSC 42	4x2x2 mm	4x2x6	1	2 X 40W
ATI-BSC 62	6x2x2 mm	3x2x6	2	2 X 40W



OPTION :

- (a) Special exhaust system suitable for 6 duct.
- (b) Exhaust ducting running feet.

ATI 142. BENCH TOP BIOLOGICAL SAFETY CABINET

Small dimension, save space, Centrifugal fan, speed adjustable; H14 HEPA filter. Large LCD display: Operators can check detailed status of the cabinet, such as inflow and downflow velocity, work area temperature and humidity, filter pressure and UV working time and filter working time, filter life indicator etc. Time reserve function : This can save 30 minutes waiting time after activating the cabinet and the sterilization time after experiment. Remote control: Each function can be realized 6 meters away from the cabinet by remote control, which can protect the operator under emergency. Motorized front window : The front window is motorized for convenient, one hand operation. Voice prompt function : Airflow alarm, filter replacing alarm and front height alarm.



External Size (WxDxH)	700x650x1230mm	Internal Size (WxDxH)	600x500x540mm
Tested Opening	Safety Height ≤ 200mm		
Max Opening	400mm		
Inflow Velocity	0.53 ± 0.025m/s	Downflow velocity	0.33 ± 0.025m/s
HEPA filter	Two,99.999% efficiency at 0.3 um		
Front Window	Two-layer laminated toughened glass, 5mm		
UV Lamp	18W*1	Fluorescent Lamp	14W*1
Illumination	≤ 800 Lux	Noise	≤60dB
Consumption	500 W	Waterproof Socket	2.Max500W
Display	LCD display	Control System	Microprocessor
Material	Work zone : 304 stainless steel Body: Cold-rolled steel with anti-bacteria powder coating		
Clean Level	Class 100		
Weight	Net weight : 80kg Gross weight : 110kg		
Package Size(WxDxH)	950x850x1430mm		
Standard Accessory	2-UV lamp, Fluorescent lamp,Remote control, Drain valve, Waterproof sockets		
Optional Accessory	Base stand, Armrest, Formalin fumigation sterilizer,Ammonium hydrogen carbonate neutralizer, Airflow tester, Infrared Sterilizer		

ATI 143. BIOLOGICAL SAFETY CABINET (CLASS – II , TYPE – A2 (WITH REMOTE CONTROL)) :-

Complete self standing unit supplied with Stainless Steel (SS 304 grade) working bench/ tables, transparent plexi glass front door, static pressure manometer, UV . germicidal tube and one cock for gas , air or vacuum line, Fitted with pre- filter and HEPA FILTER conforming to ISO (CLASS 5) equivalent, to US. FEDERAL CLASS 100, Body made of wooden , cold rolled steel (powder coated) or stainless steel (SS 304) as ordered . All systems are mounted on mild steel tubular stand duly powder coated fitted with castors for easy movement. Fitted with pre- Filter and HEPA Filter (ULPA filter in lieu of HEPA filter available at extra cost).



Front Window

Front window consist two-layer toughened glass>5mm, Motorized control.

Work Zone

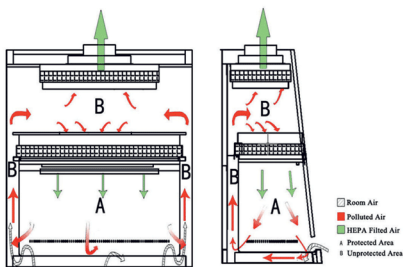
Work zone interior is made of 304 stainless steel. Work area surrounded by negative pressure.

UV lamp

Easy to read digital LCD display allows convenient "at a glance" monitoring of safety parameters and ergonomically sized control panel improves user interface.

Foot Switch

Use foot switch to adjust the height of the front window.



VFD Display

It demonstrates various colors with high brights, even in the evening. It can work no less than 30,000 hours continually.

Waterproof Socket

2 waterproof sockets are located in the side panel, for optimum convenience of using small devices insides the cabinet.

TECHNICAL PARAMETERS :

Model	BSC-1100IIA2-X	BSC-1300IIA2-X	BSC-1300IIA2-X	BSC-1300IIA2-X	BSC-1300IIA2-X
Internal Size (WxDxH) mm	940x600x660	1100x600x660	1300x600x660	1710x600x660	1800x600x660
External Size (WxDxH) mm	1100x750x2250	1300x850x2200	1500x840x2280	1870x750x2290	1950x800x2305
Tested Opening	Safety Height 200mm				
Max Opening	400mm				
Inflow Velocity	0.53 m/s				
Down flow Velocity	0.33 m/s				
HEPA filter	Efficiency 99.999% at 0.3 um				
Front Window	5mm two-layer laminated toughened glass				
Noise	EN 12469≤ 58dB, NSF49≤ 61dB				
UV Lamp	20W*1	20W*1	30W*1	30W*1	40W*1
Fluorescent Lamp	21W*1	21W*1	28W*2	28W*2	40W*1
Illumination	≥1000Lux	≥1000Lux	≥1000Lux	≥1000Lux	≥1000Lux
Consumption	760W	1060W	1300W	1350W	1700W
Water & Gas Tap	Water Tap*1: Gas Tap*1(Optional)				
Socket	2 Waterproof Sockets : 2*250W(Max)				
Display	VFD Display			LCD Display	
Control System	Microprocessor				
Airflow System	70% Air Circulation, 30% Air exhaust				
Material	Work Table: 304 stainless steel Main Body : Cold-rolled steel with anti-bacteria powder				
Work Surface Height	750mm				
Caster	Yes			No	
Power Supply	110/220V ±10%, 50/60 Hz				
Standard Accessory	Remote control, Foot switch, UV lamp, Fluorescent lamp, Base stand				
Optional Accessory	Armrest, Air curtain tester, Formalin fumigation sterilizer, Infrared Sterilizer				
Gross Weight	280kg	310kg	350kg	390kg	420kg
Package Size (WxDxH) mm	1250x1050 x1870	1450x1050 x1870	1640x1040 x18690	1940x1050 x1960	2090x1050 x1860

ATI 144. FUME HOOD :-

Laboratory fume hood is one of the most important components personnel from exposure to hazardous chemicals and agents used in the laboratory. These are designed to exhaust toxic, / harmful / vapors etc, for protecting laboratory personnel & equipments. A motor- blower exhaust system generates negative pressure with in the hood, extracting the contaminated air from the work area and expelling it into the atmosphere and preventing the fumes from escaping into the room.

These are recommended in different laboratories like Bio-Chemistry, Pharmaceutical units. These are capable or handling corrosive fumes of Sulphuric and Hydrochloric acids etc.

Working table top is fitted of Stainless steel sheet. A small S.STEEL Sink, water tap and water out let provided. The front door moves vertically up and down with concealed counter balanced weight. The unit is fitted with florescent light and gas cock for gas/air supply. The space under the work station can be provided with storage compartments for storage purpose. The front facing panel is fitted with 15/5 Amp socket with switches for exhaust system and fluorescent light. To work on 220/230 volts A.C Supply.

MODEL	INTERNAL DIMENSION
ATI-FMH 322(W)	900x600x600 mm
ATI-FMH 322(W)	1200x600x600 mm
ATI-FMH 322(W)	1800x600x600 mm
ATI-FMH 322(W)	1500x600x600 mm

- OPTION :**
- Mountain base below work table with storage space and door.
 - Lead lining on work area walls for use as a radio Isotopes Fume Hood.
 - Fume duct per running feet
 - Complete exhaust arrangement with connector and fittings for remote mounting



ATI 145. AIR SHOWER (Class 100) :-

High velocity shower jets in excess of 20 m/s ensure efficient scrubbing action to remove particulate matter. Operating modes can be programmed in the field. Microprocessor controller supervises all functions. Mini-pleated ULPA filtration achieves > 99.99% typical efficiency at 0.3 micron particles. A disposable pre-filter with 85% arrestance extends the life of the main filter. An emergency stop button is mounted on both sides of the shower. Indicator lights mounted on both sides of the air shower exterior regulate traffic flow in and out of the cleanroom. Permanently lubricated direct drive centrifugal blower are used in conjunction with stainless steel air nozzles.



ATI, Cleanroom Air Shower Series Comparison Chart

MODEL	AIRFLOW	DOOR
ATI (A- Series)	Single Sided	Single Leaf
ATI (B-Series)	Double Sided	Single Leaf
ATI (C-Series)	Double Sided	Double Leaf

General Specifications, Claenroom Air Shower, Model ATI (C-Series)*

MODEL	CHAMBER SIZE (WxdxH)
ATI-AS 366	3'x3'x6'

Note to customer, insert electrical voltage number into last model no. digit_ when ordering

Model	ATI-2C_	ATI-3C_
Internal Area Work Dimension (WxDxH)	2330x2000x2050 mm 91.7'x78.7'x80.7'	2330x3000x2050 mm 91.7'x78.7'x80.7'
External Dimension (WxDxH)	1590x1920x1930 mm 62.6'x75.6'x76.0'	1590x2920x1930 mm 62.6'x115'x76.0'
Air Change	354/Hr	349/Hr
Initial Airflow Velocity	20-22 m/s (3,937- 4,330fpm)	
Number of Nozzles	24	36
Air shower Duration	Factory set at 12 seconds (adjustable)	
Persons Per Cycle	2-3 , 8-12	4-6 , 15-23
Personal Flow (Persons / Min.)	Above figure based on Total Cycle Time of 16 seconds (12 seconds of Air shower + 4 seconds for buffer time / personnel entrance and exit)	
Filtration Efficiency	Main Filter > 99.99% at 0.3 pm pre-filter: Arrestance 85%, efficiency 20%	
Filtration Elements	Main Filter: HEPA filter Pre-Filter: Disposable and non-washable polyester fibres	
Fluorescent Lamp	17W x 8	17W x 12
Air Shower Construction	1.5mm/0.06"18 electro galvanized steel/ White oven-baked epoxy powder-coated finish	
Max. Power Consumption, Current, BTU/Hr.	During Operation	1000W,4.6A, 2040BTU/Hr
	During Standby	200W,1A, 408BTU/Hr
Electrical	220-240V, AC, 50Hz, 1Ø	ATI-2C1
	220-230V, AC, 60Hz, 1Ø	ATI-3C1
	220-240V, AC, 60Hz, 1Ø	ATI-2C2
	220-240V, AC, 60Hz, 1Ø	ATI-3C2
Gross Weight	910kg(2006 bs)	1660kg(3660 bs)
Net Weight	750kg(1653 bs)	1500kg(3307 bs)

Shipping Dimension Maximum (WxDxH)**	Assembled(WxDxH)	2500x2500x2232mm, 98.4'x49.2'x87.9'	N/A
	Module foam (WxDxH)	Pallet A 2500x2500x2232mm, 98.4'x49.2'x87.9'	2500x2500x2232mm, 98.4'x49.2'x87.9'
		Pallet B 2500x2500x2232mm, 98.4'x49.2'x87.9'	2500x2500x2232mm, 98.4'x49.2'x87.9'
		Pallet C N/A	2500x2500x2232mm, 98.4'x49.2'x87.9'
Shipping Volume Maximum	Unassembled (WxDxH)	Pallet A 2100x1300x1296mm, 82.7'x51.2'x51.0'	2100x1300x1668mm, 82.7'x51.2'x65.7'
		Pallet B 2100x1300x800mm, 82.7'x51.2'x31.5'	2100x1300x1219mm, 82.7'x51.2'x48.0'
	Assembled	13.94m ³ (493cu.ft.)	N/A
	Module Form	13.94m ³ (493cu.ft.)	13.94m ³ (493cu.ft.)
	Unassembled	5.71m ³ (493cu.ft.)	13.94m ³ (493cu.ft.)

ATI 146. AIR CURTAIN (Walk through Barrier) :-

Creates a barrier / curtain of high speed downflow air between a clean room and a unconditioned open room / area. Helps in every savings of air conditioned room. Outer body made of heavy gauge PCRC sheet duly powder coated. Fitted with heavy duty and continuous rating double shaft motor fitted with dual blowers for uniform and high speed layer air which forms an invisible layer of curtain.

MODEL	DOOR WIDTH
ATI-AC 600	600 mm
ATI-AC 900	900 mm
ATI-AC 1200	1200 mm
ATI-AC 1500	1500 mm
ATI-AC 1800	1800 mm



OPTION : • Door operated limit switch to cost extra

ATI 147 AEROSOL DISINFECTOR :-

It instantly converts liquid formalin / disinfecting liquid, into the true aerosol particles. Due to high aerodynamic stability the droplets remain suspended for longer duration and thus ensure 100% sterile germ free and zero bacteria environment. A single unit can sterilize 250 cu. Meters. (7000cu. Ft.) In just 30-60 minutes. To work on 220 / 230 V.A.C.

MODEL	CAPACITY
ATI-AD 15	1.5 ltrs
ATI-AD 30	3.0 ltrs



OPTION : • Automatic ON / OFF mechanical timer.

ATI 148 (A) STATIC PASS BOX :-

Static Pass Box are self-contained units installed at the entrance to the clean room. They minimize the amount of particulate contamination entering the clean room by reducing operation "Traffic". Equipment and materials are passed into the clean room via the pass box. Which is equipped with a mechanical interlock system that prevents both doors from being opened at the same time. The pass box is an inexpensive facilities.

Technical Specifications:

- MOC: GI Powder Coated / SS-304 / SS-316
- Construction: Single Skinned / Double Skinned
- Door: Swing Type Double Door (Double skinned)
- with View Panel With SS Hinges & 'D' Handles
- Fluorescent Light (interlocked with Door)
- UV Light with house meter (interlocked with Door)
- Internal Coving for easy cleaning
- Door Opening With Solid State Electronic Inter Locking Mechanism
- In close condition of both door: UV Light will be on,
- Power Supply: 230 V AC, 1-Ø, 50 Hz

**Other details:**

- Mechanical Interlocking
- Once through LAF module for Sterile air
- Bottom with Roller base for heavy drum / material transfer
- Flush level with ground level for easy trolley transfer
- Flange for one side flush mount in clean room partition / wall
- FLP Electrical Goods for Explosion area

ATI 148 (B). DYNAMIC PASS BOX

Our world class range of Dynamic Pass Box are designed in conformation to the international standards and are used for transferring the material from and into the classified clean room without contaminating the air of clean room. In the process, room door is not required to open. These can be easily installed on the wall between the classified room and unclassified room.

MODEL	OVER ALL DIMENSION WxDxH	WORKING AREA WxDxH
ATI-18/18	460x460x460	200x250x200
ATI-18/18	460x460x460	350x400x350
ATI-24/24	610x610x610	500x550x500
ATI-30/30	760x760x760	650x710x600
ATI-36/36	915x915x915	800x865x800

Technical Specifications:

- Air cleanliness: ISO Class 5 / Class 100 / M 3.5 AREA
- Air Velocities: 0.45 ± 0.05 mps (90 ± 20 FPM)
- Air Flow: Horizontal / Vertical
- Noise Level: Less than 65 dB
- Vibration Level: Minimum
- Power Supply: 230 V AC, 1- ϕ , 50 Hz
- MOC: GI Powder Coated / SS-304 / SS-316 / Combination
- Door: Swing Type Double Door (Double skinned) with View Panel With SS Hinges & 'D' Handle
- Internal Coving for easy cleaning
- Two Stage filtration: EU7 - Intermediate Filter (95% down to 3 micron) & EU14 - HEPA Filter - Supply / Exhaust (99.999% down to 0.3 micron)
- Statically & Dynamically balanced Motor-blower with isolator to reduce noise level
- Fluorescent Lights (interlocked with Door)
- UV Light (interlocked with Door)
- Differential Pressure Gauges: 01 No. (HEPA Filter)
- In close condition of both door: UV Light will be on,
- In open any one door: UV will off and FL will on
- DOP Port: DQ, IQ, OQ, PQ Documentation



MODEL	WORKING AREA WxDxH	OVER ALL DIMENSION WxDxH
ATI-24/24	610x610x610	740x660x1275
ATI-30/30	760x760x760	910x810x1425
ATI-36/36	915x915x915	1065x980x1580

Other details:

- Bottom with heavy Roller base for drum / material transfer
- Flush level with ground level
- Flange for one side flush mount in clean room partition / wall
- FLP Electrical Goods for Explosion area

ATI 149. TISSUE CULTURE RACK

Made out of heavy duty mild steel square pipe duly powder coated. Each shelf is of size 48"x18" and distance between each shelf is 16". Platform made out of 3mm thick hylem sheet. Each shelf is fitted with 4 nos of 40 watts fluorescent lights (with electronic ballast). Castor wheels provided for easy movement, Photoperiodic timer / controller output and U.V. germicidal tubes available optionally at an extra cost.

MODEL	NO. OF SHELVES	LIGHTING IN SHELVES
ATI-TCR 43	4	3
ATI-TCR 54	5	4
ATI-TCR 65	6	5

OPTION :

- Photoperiodic timer / controller (microprocessor controlled) to control cyclic illuminations (one common timer for all shelves).
- U.V. Germicidal tube (one in each shelf).



ATI 150 DISTILLATION APPARATUS ALL GLASS (ELECTRICALLY HEATED) :-

The assembly consists of Borosil glass flask with embedded heating elements fused in spiral type glass coil internally at bottom. A double wall coiled condenser has standard ground glass joints. Complete with glass fitting, metallic stand, rings clamps and electrical fittings. The unit supplied is as per NPL patent design. To work on 220/230 volts A.C. supply.

MODEL	CAPACITY
ATI-ATID 3	3 ltrs
ATI-ATID 5	5 ltrs
ATI-ATID 10	10 ltrs

LWCO - Low Water Level Cut-Off Device for general safety of the heating system.

OPTION :

- Spare Flask
- Spare Condenser
- Special rubber tubing coil (coil of 10 Mtrs) to cost extra



ATI 151 WATER STILL (WALL MOUNTING) :-

The Unit is recommended for making pyrogen free distilled water of a very high degree of purity. Made out of S.S. special kettle element is fitted with Ejection Device / Auto Cut for safety of the element in case water supply is stopped. The cock fitted to the unit is of brass C.P.A wall mounting clamp is provided with the unit but without rubber tubing. Supplied with cord and plug to work on 220 / 230 volts A.C. Supply. (S.S.-304 GRADE ARGON ARE WELDED)

MODEL	OUTER CAPACITY
ATI-WSWM 4	4.0 ltrs/Hr
ATI-WSWM 6	6.0 ltrs/Hr
ATI-WSWM 8	8.0 ltrs/Hr
ATI-WSWM 10	10.0 ltrs/Hr



ATI 152 WATER STILL (TOP PATTERN BARNSTEAD TYPE) :-

Double walled construction with inner and outer chamber made of stainless steel, the gap in between being filled with glass wool. The Condenser and top are also made of stainless steel. To work on 220 / 230 volts A.C. Supply (S.S.-304 GRADE ARGON ARE WELDED)

MODEL	CAPACITY
ATI-WSTP 4	4.0 ltrs/Hr
ATI-WSTP 6	6 ltrs/Hr
ATI-WSTP 8	8 ltrs/Hr
ATI-WSTP 10	10 ltrs/Hr



ATI 153 QUARTZ DISTILLATION APPARATUS :-

It has been designed keeping in view customer requirements and easy serviceability of the equipment. All Quartz Double Distillation consists of demountable upper and lower boiler. The lower boiler has a built in heater enclosed in a quartz boiler with a cup on top. The upper boiler has a built in quartz coil and condensing unit which is mounted on the boiler with the help of ball and socket joint. Double walled condenser ensures separate condensation of vapors coming from the two boilers using a single cooling circuit. The unit is mounted on a specially designed powder coated stand and is also provided with Safety Control Unit.

Quartz Distillation Apparatus With Quartz Boiler and Corning Condenser

MODEL	MODEL	OUTER CAPACITY
ATI-QBCC 10SS	ATI-QBCC 10DS	1.0 ltrs/Hr
ATI-QBCC 15SS	ATI-QBCC 15DS	1.5 ltrs/Hr
ATI-QBCC 20SS	ATI-QBCC 20SS	2.0 ltrs/Hr
ATI-QBCC 25SS	ATI-QBCC 25DS	2.5 ltrs/Hr
ATI-QBCC 30SS	ATI-QBCC 30DS	3.0 ltrs/Hr
ATI-QBCC 40SS	ATI-QBCC 40DS	4.0 ltrs/Hr
ATI-QBCC 50SS	ATI-QBCC 50DS	5.0 ltrs/Hr



All the parameters are Under Standard Test Conditions, Please test the distilled water before use. We recommend a Quartz Reservoir for storage of High Purity Water.

Special advantages of Demountable Model Easy cleaning of the first boiler since it can be dismantled from the assembly. Ease of interchangeability as it is provided with Ball & Socket joint. Boiler & condenser have larger boiling space resulting in balanced boiling & improved quality of distillate. Compact and easy to install.

OPTION :

- LWCO – Low Water Level Cut Off Device For General Safety of The Heating System To Cost Extra.

ATI 154 VACUUM PUMP (VARIOUS) :-

A) ROTARY VACUUM PUMP (ECONOMY MODEL FOR GENERAL LABORATORY FILTRATIONS) :-

Vacuum Pumps are mounted on a heavy steel base plate and have a wide range of oil sealed pumps. Fitted with heavy duty electric motor, all pumps are V-Belt driven at a speed of 400 RPM. Pumps are fabricated out of high grade cast iron and worked on sophisticated machines to give accuracy in microns, thus leading to very high sustained vacuum. Supplied in single stage or double stage models. As safety device all vacuum pumps are fitted with belt guard as a standard feature. To work on 220/230 volts A.C. Supply

MODEL	DISPLACEMENT (LTRS/ MINS.)	MOTOR CAPACITY	APPROX OIL CHARGE (LTRS)
ATI-RVP 25(ECO)	25	0.25 HP	2.00
ATI-RVP 45(ECO)	45	0.25 HP	2.00
ATI-RVP 75(ECO)	75	0.25 HP	2.50
ATI-RVP 100(ECO)	100	0.50 HP	3.00
ATI-RVP 150(ECO)	150	0.50 HP	3.00
ATI-RVP 200(ECO)	200	1.00 HP	3.50
ATI-RVP 300(ECO)	300	1.00 HP	4.00
ATI-RVP 500(ECO)	500	2.00 HP	6.00



OPTION :

- Anti – suck back valve / non- return valve.
- Moisture Trap.
- Vacuum Gauge with regulator.
- Vacuum Oil (per litre).

B) ULTRA HIGH DIRECT DRIVEN VACUUM PUMP :-

The field proven pumps is often termed as a star performer in the point-of-use by most of our customers. These pumps are designed for medium and high vacuum applications. Rugged in construction for reliable performance and with gas ballast features to prevent vapor condensation. With heavy duty coaster body fitted with FLANGE motor for high vacuum generations

MODEL	DISPLACEMENT CAPACITY	MOTOR	OIL CAPACITY
ATI-UHVP 100	100 LPM	SINGLE PHASE	2 ltrs
ATI-UHVP 250	250 LPM	SINGLE PHASE	2.75 ltrs
ATI-UHVP 350	350 LPM	SINGLE PHASE	2.75 ltrs
ATI-UHVP 500	500 LPM	SINGLE PHASE	3 ltrs



OPTION :

- Digital Vacuum Indicator with TRANSDUCER for vacuum Indicator.
- Moisture Trap for using P205 / CaCl₂ / Silica Gel as desiccant.
- Anti Suck back / non return valve.

C) ROTARY VACUUM PUMP (DELUXE MODEL FOR HIGH VACUUM APPLICATIONS) :-

MODEL	DISPLACEMENT (LTRS/ MINS.)	MOTOR CAPACITY	APPROX OIL CHARGE (LTRS)
ATI-RVP 50(ECO)	50	0.25 HP	2.0
ATI-RVP 100(ECO)	100	0.25 HP	3.0
ATI-RVP 200(ECO)	200	0.50 HP	4.0
ATI-RVP 300(ECO)	300	1.00 HP	4.0
ATI-RVP 500(ECO)	500	2.00 HP	6.0



OPTION :

- Anti – suck back valve / non- return valve.
- Moisture Trap.
- Vacuum Gauge with regulator.
- Vacuum Oil (per litre).

D) VACUUM PUMP OIL FREE :-

Standard oil free pump without enclosure , vacuum guage and vacuum regulator.

MODEL	ATI-OFVP 15(ECO) (SINGLE STATIE)	ATI-OFVP 25(ECO) (DOUBLE STATIE)	ATI-OFVP 45(ECO) (DOUBLE STATIE)
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E) VACUUM PUMP OIL FREE (DELUXE MODEL) :-

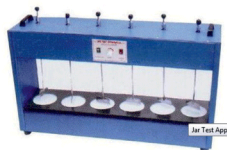
Complete with enclosure , vacuum guage and vacuum regulator.

MODEL	ATI-OFVP 25 (A)	ATI-OFVP 45(A)	ATI-OFVP 25(D)	ATI-OFVP 45(D)
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ATI 155 FLOCCULATOR (JAR TEST APPARATUS) (MULTISPINDE STIRRER) :-

Whole cabinet is fabricated of mild steel sheet duly powder coated. Base is illuminated with fluorescent tube mounted below translucent plastic plate to provide diffused cold light through floc samples. Stainless Steel Stirring rods are provided with adjustable spacers to adjust the depth stirring paddles.

MODEL	BOTTLE ACCOMODATION
ATI-FTA-2	2 STIRRERS
ATI-FTA-4	4 STIRRERS
ATI-FTA-6	6 STIRRERS



- OPTION :**
- Coagulant dispenser for feeding does to all stirring units simultaneously.
 - Automatic mechanical ON / OFF TIMER.
 - Automatic digital ON /OFF timer.
 - Digital speed / RPM meter with proximity switch.
 - Revolution counter.

ATI 156 VORTEX SHAKER (TEST TUBE SHAKER) :-

To accelerate the mixing of solution in test tubes. Short, rapid, eccentric strokes, motor driven Neoprene cup imparts vigorous agitation to tubes or small flask held on or against it. Particularly efficient for dislodging sediments from tips of centrifuges tube. The vacuum rubber at bottom prevents the machine from walking. Fitted with speed controls arrangements. To work on 220 / 230 volts Supplied in two types (1) On / Off Switch Type Without Touch (2) With Touch On / Off Plate Type)

MODEL	ATI-VS 308	ATI-VS 308 (DX)
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ATI 157 VORTEX SHAKER DELUXE MODEL :-

With top platform for tubes or conical flasks and vials besides an attachment for test tubeshaking. Supplied with accessories.

ATI 158 ROCKER SHAKER :-

Heavy mild steel construction duly powder coated. Having variable speed of 10-50 rpm with an angle tilt of 2" to 6".

MODEL	PLATFORM SIZE	TIMER
ATI-RS 309	360x360 MM	N.A



- OPTION :**
- 0-60 min, Mechanical ON / OFF TIMER

ATI 159 WRIST ACTION SHAKING MACHINE :-

It has a heavy cast iron base with rugged construction and two side arms for holding flasks. Fitted with F.H.P. Heavy duty motor with variable speed. Can hold flasks from 100 to 1000 ml. Capacity Supplied with cord and plug to work on 220 / 230 volts A.C. Supply

MODEL	FLASK HOLDING CAPACITY	NO. OF FLASK
ATI-WASM 8	100 TO 1000 ML.	8
ATI-WASM 8 (TP)	100 TO 1000 ML.	8 Nos. with top platform to hold 4 flasks



- OPTION :**
- 0-60 min. Mechanical ON / OFF Timer.
 - Automatic Digital ON / OFF Timer.

ATI 160 KAHN'S TYPE MECHANICAL SHAKER :-

The machine can accommodate Kahn Racks, Bottles or Flasks of different sizes by adjusting the compartments with the help of rods supplied with the machine. Fitted with Motor. The rate of motion can be adjusted mechanically by belt tension from 140 to 350 RPM Approximately. Supplied complete with top platform, rods ON / OFF Switch, plug and cord to work on 220 volts, 1 ph, 50Hz AC Supply.

Adjustable compartment on the shaking rack for shaking Kahn Racks, etc Speed range 140 to 200 rpm.

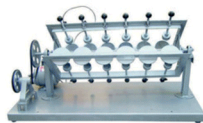
MODEL	PLATFORM SIZE IN MM
ATI-RS 531	500x325x100
ATI-RS 741	755x425x100
ATI-RS 941	900x450x100
ATI-RS 331	380x380x100
ATI-RS 441	455x455x100
ATI-RS 661	605x605x100
ATI-RS 991	910x910x100
ATI-RS 1212	1200x1200x100



- OPTION :**
- Digital RPM / Speed Meter with PROXIMITY SWITCH.
 - Automatic Digital ON / OFF timer for shaking time control.

ATI 161 WAGNER'S SHAKING MACHINE :-

For estimation of phosphoric acid in stages and raw phosphates suitable in citrate solutions. The shaking frame is mounted on spindle with pulley for power drive and spindle is supported on bearing on heavy mental uprights base plate. Bottle and flasks of various size from 500 ml to 1 litre can be accommodate. Fitted with 1 / 4 HP Motor to work on 220 volts single phase and speed off 60 to 70 RPM with cord and plug.



ATI 162 ROTARY FLASK SHAKER (MINI) :-

Complete body mounted on heavy mild steel angle iron frame. Top platform made up of Mild Steel pointed with rubber disc or Stainless Steel (option available). speed range from 80 to 180 rpm (approx).

MODEL	ATI-MFS 45 (MS)			ATI-OFVP 45(D)		
PLATFORM SIZE MOC (PLATFORM)	450mmx450mm Mild Steel Painted Platform With Rubber Disc For Holding Erlenmeyer Flasks			450mmx450mm Stainless Steel Platform and Lotus Clamps made of S.S. as per any of the configuration enclosed		
FLASK ACCOMMODATION	FLASK CAPACITY	25 ML	50 ML	100 ML	250 ML	500 ML
	NO. OF FLASK	49	36	25	9	9



- OPTION :**
- Digital ON / OFF Timer.
 - Digital RPM / Speed Meter with proximity switch.

ATI 163 ROTARY FLASK SHAKER (VARIABLE SPEED) :-

Complete body mounted on heavy mild steel angle iron frame. Available with mild steel platform fitted with rubber disc holder or stainless steel platform with Stainless Steel lotus type clamps to hold flask. Minor Speed Control from 50- 200 rpm (approx) with the help of variable speed regulator knob.

MODEL	PLATFORM SIZE IN CM
ATI-RS 65	65x65 cm
ATI-RS 90	90x90 cm
ATI-RS 105	105x105 cm
ATI-RS 120	120x120 cm
ATI-RS 150	150x150 cm
ATI-RS 180	180x180 cm



- OPTION :**
- Lotus clamps made of S.S. for holding conical flasks.
 - Digital RPM / Speed Meter with proximity switch.
 - Automatic Digital ON / OFF timer for shaking time control.

ATI 164 ROTARY FLASK SHAKING (HEAVY DUTY CONTINUOUS RATING)

Heavy duty continuous rating model. Complete body mounted on heavy mild steel angle iron frame. Available in stainless steel platform with stainless steel lotus type clamps to hold flask. Speed control from 50-250 rpm (approx). with the help of SMPS Based DC DRIVE Unit by a speed control knob.

MODEL	PLATFORM SIZE IN CM
ATI-RSCR 65(DD)	65x65 cm
ATI-RSCR 90(DD)	90x90 cm
ATI-RSCR 105(DD)	105x105 cm
ATI-RSCR 120(DD)	120x120 cm



- OPTION :**
- Lotus clamps made of S.S. for holding conical flasks.
 - Digital RPM / Speed Meter with proximity switch.
 - Automatic Digital ON / OFF timer for shaking time control.

ATI 165 ORBITAL SHAKER (Table Top) :-

Orbital Shaker is a powerful variable speed shaker which provides efficient orbital motion. Speed and time are under microprocessor control. Shaker can be used for various applications in different laboratories : microbiology, chemistry, immunology, biochemistry and molecular biology.

MODEL	DISCRIPTION
ATI-PF 1	Flat platform with non-slip rubber mat
ATI-PF 2	Platform with clamps for flasks, 100-150 ml
ATI-PF 3	Platform with clamps for flasks, 250 ml
ATI-PF 4	Universal platform with adjustable bars for different types of flasks, bottles.

MODEL	ATI-OS 100
SHAKING SPEED	10-300 RPM
ORBIT	10 MM
INDEPENDENT TIMER	0-99H59MIN
INTERCHANGEABLE PLATFORM	SEE BELOW
LOAD CAPACITY	3.0 KG
DIMENSIONS (MM)	280x270x110
MOTOR	Brushless Motor
ELECTRIC SUPPLY	AC 220V, 50Hz, 2A
PRICE (WITHOUT SHAKING PLATFORM	62200.00



ATI 166 ORBITAL SHAKING INCUBATOR (Cum B.O.D. Incubator) :-

Double walled with outer wall made of CRC Sheet duly powder coated and inner wall made of Stainless Steel .Temperature range from 5 degree C to 60 degree C to +/- 0.5 degree C is controlled through a Microprocessor Based Digital Temperature Indicator cum Controller . Orbital Shaker System fitted at base with shaking platform of size (510x510 mm), can accomodate different capacities of flasks (user defined) with universal Lotus Clamps made of Stainless Steel . Unit is fitted with interior illumination arrangement, programmable timer and digital RPM / Speed meter.

MODEL	ATI-QSC 250
INNER CHAMBER SIZE (WxDxH)	660x660x990 MM
VOLUME	10.0 CUFT
RPM RANGE	UPTO 25 RPM



OPTION :

- Chamber sterilizer through a U.V. germicidal tube.
- Spare Lotus Clamps made of S.S.
- Stationary perforated shelf made of Stainless Steel (SS 304 grade) (Set of 2 trays) to cost extra.
- Communication Port with interface and data cable to your PC.
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.

ATI 167 BALL MILL (VARIABLE SPEED WITH STAINLESS STEEL JAR):-

For mixing grinding electrically operated capacity of a few grams to 1.0 kg. and 2.0kgs. Fitted with FHP Motor. The unit drives with maximum speed 80 RPM. The jar is made of aluminum, having steel balls of different sizes to be fixed in a jar for mixing and grinding of pesticides power. The jar is interchangeable and easily removable light weight and compact unit. To work on 220 volts AC Main.

MODEL	JAR CAPACITY
ATI-BM 1	1.0 KG
ATI-BM 2	2.0 KG
ATI-BM 5	5.0 KG
ATI-BM 10	10.0 KG
ATI-BM 20	20.0 KG



ATI 168 SIEVE SHAKER (TABLE TOP) :-

(Soundless, Vibration type)

Fitted with F.H.P Electric Motor. It can accomodate 6 Test sieves of 8" dia with lid and pan Speed can be regulated through variable speed regulator to work on 220 volts A.C(without Test Sieves)

MODEL	SIEVE ACCOMMODATION
ATI-SSTT 321	6 SIEVE OF 8" DIA

OPTION :

- Automatic- 60 minutes Timer
- Digital Timer.



ATI 169 GYRATORY SIEVE SHAKER :-

Gyratory sieve shaker is driven by 1/4 H.P. Electric motor through a reduction gear, can carry up to SIX, 6" OR 8" Test Sieve with one set if LID and Pan. This Gyratory motion of the table there is an upward and downward movement but is inclined from the vertical axis and the direction or inclination charges progressively in clockwise direction having frequency of about 270 vibration per minutes (without sieves & lid & pan) Fitted with perfect motor.

MODEL	SIEVE ACCOMMODATION	MOTOR CAPACITY
ATI-GSS 8	6 SIEVE OF 8" DIA	0.25 H.P



OPTION :

- Adaptor for 12" Sieves.

ANALYTICAL & PROCESS CONTROL EQUIPMENTS



ATI 170 CONDUCTIVITY METER :-**SALIENT FEATURES**

- LCMCM-20 conductivity meters includes measurement of conductivity temperature in liquids.
- The meter is capable for calibrating of 1 point with using standing solution from Setup Menu, choose CALL (Calibration) and press key to set know conductivity value, immersea conductivity electrode into calibration solution press ENTER key and meter is automatically calibrated.
- LCMCM-20 have auto-range function for measuring conductivity. While immersing conductivity sensor into sample solution, the screen immediately displays the value in appropriate measurement range for accuracy.
- Temperature value is displayed on the screen. The meter automatically compensates for optimum accuracy under variable temperature conditions.
- Various Ions may have different temperature coefficients. The meters can set the temperature coefficient between 0 and 3.9% in degrees centigrade for optimum accuracy, set three cell constants (0.1, 1 and 10) as per the requirements.

MODEL	ATICM-20
MAKE	Atis Instruments
Conductivity Range	0.00 to 200.00 ms (0.00 to 1.999.19.99 in five auto range)
Conductivity Accuracy	0.0001 pH
Temperature Range	0 to 100 C
Temperature Accuracy	+1 C
Temperature Coefficient	0 to 3.9% per C
Calibration Points	Single point
Cell Constant	0.1, 1.0, 10 (adjustable)
Temperature Compensation	0 to 50 C, Manual or Automatic
Power Supply	DC 9V adapters, using AC 200 V /50Hz.
Dimension LxWxH(mm)	210 x 205 x 65
Weight	1.75 Kg.

**ATI 171 MULTI PARAMETER****SALIENT FEATURES**

- LMPH meter is capable of calibrating up to 2 points using USA or NIST pH standard buffer. Press CAL key to enter calibration mode and immerse pH electrode into indicated calibration solution, press ENTER key and meter is automatically calibrated.
- During calibration, if the calibration solution does not match the meter's indicated value, an ERROR message is displayed.
- After calibration, the percentage slope of the electrode is displayed before the meter returns to measurement mode.
- Temperature value is displayed on the screen. The meter provides manual or automatic temperature compensation mode for optimum accuracy under variable temperature conditions.
- The integrated plastic housing and keypad is sealed to protect against accidental spills and splashes. The electrode holder arm is rapidly switched to both sides and swing and articulates for convenient use and positioning.

MODEL	ATICM-10
pH Range	0.00 to 14.00 pH
pH Resolution	+ 0.01 pH
pH Accuracy	+ 0.01 pH
mV Range	+ 1999 mV
mV Accuracy	+ 1 mV
Temperature Range	0 to 100 C
Temperature Accuracy	+1 C
Calibration Points	2 point
Cell Constant	NIST (pH 4.01 / 6.86 / 9.18) or USA (pH 4.01 / 7.00 / 10.01)
Temperature Compensation	0 to 100 C, Manual or Automatic
Power Supply	DC 9V adapters, using AC 200 V /50Hz.
Dimension LxWxH(mm)	210 x 205 x 65
Weight	1.75 Kg.

**ATI 172 DISSOLVED OXYGEN METER (MICROPROCESSOR BASED) :-**

Model : ATI-DOM 101 (CCD) With 16x2 alphanumeric LCD display , simultaneous display of DO & Temperature , Data storage facility up to 700 samples, Resolution : 0.1 ppm, Accuracy : +/- 0.2 ppm, Temp. Comp. Auto / Manual 0 to 50 degree C, RS232, Power Supply: 230V +/- 10% AC, 50 HZ. Complete with Gold / Silver type D.O. Probe, Temp. Sensor, D.O. Membrane 30 Nos.

OPTION : ● Dedicated data logging software



ATI 173 PH METERS MICROPROCESSOR BASED (SOFT TOUCH MEMBRANE KEYS):-

Model ATI-PHM 101 With 4 digits LED display and Manual Temperature Compensation with 3 points PH Calibration (4.00, 7.00 and 9.20 ph). Auto PH calibration with Auto Buffer Recognition , Automatic Slope correction : 60% to 140% User friendly menu driven (easy to operate with soft Touch Keys), Power Supply : 230V +/- 10%, 50HZ AC.

RANGE pH	0-14 Hz
RANGE mV	0+/- 200 mV
TEMP.	0 To 100 DEGREE C
RESOLUTION pH	0.0001 pH
RESOLUTION mV	1 mV
TEMP.	0.1 DEGREE C



Model ATI-PHM 101 (ATC) Same as model : ATI-PHM 101 , but with Automatic Temperature Compensation.

Model ATI-PHM 102 With 16x2 Line Alphanumeric LCD display with Automatic Temperature Compensation , temperature indication, auto and manual points Ph calibration (4.00, 7.00, 9.20, and 12.45 Ph) with AUTO BUFFER RECOGNITION. Auto Ph calibration with Automatic Slope correction: 60% to 140% . User friendly menu driven (easy to operate with Soft Touch Keys), Power Supply : 230 V +/- 10%, 50 Hz AC Supplied complete with combined Ph electrode, temperature probe, electrode stand, buffer solution , dust cover and manual.

Model ATI-PHM 103 same as model : ATI-PHM 102, but Advance Model having in-built data logging facility to record 2000 results . An integrated RS 232 communication port is also fitted to system for logging data to your PC and processing the same to excel sheet . Dedicated software (optional) to cost extra.

OPTION :

- Dedicated data logging software (only for Model ATI-PHM 103)
- Ph Electrode (Combined).
- Epoxy Comb. Electrode.
- Platinum Electrode (O.R.P.)

ATI 174 PHOTO CALORIMETER { MICROPROCESSOR BASED (LCD MODEL)}:-

With Auto Zero Facility , Display : 16x2 alphanumeric display Wavelength Range : 400 – 700 nm , % Transmission : 0 to 100% T, Absorbance : 0 to 1.99 A, Resolution : 1% T, 0.01 Abs, Keyboard : Single Key Soft Touch, Auto Zero Facility : Available , Light Source : 6.8 V, 0.3 Amp., Tungsten Lamp, Sample System : 10 mm path length matched glass test tubes, Minimum Sample Volume : 1 mL., Filters : 400, 420, 480, 500, 520, 540, 620, 680 nm , Power Supply : 230 V AC +/-10%, 50 Hz.

**ATI 175 PORTABLE SOIL & WATER ANALYSER KIT :-**

Model : ATI- WSAK 7P Water & Soil Analysis Kit Microprocessor Based (7 Parameters) Ph, mV. (ORP), Conductivity (E.C.), T.D.S., Temperature , D.O., Salinity . Soft touch keys with 16x2 line alphanumeric display. Mains cum Battery operated with rechargeable cell, at least 8 hours working after Single full recharge . Fitted in brief Case, Useful for field and as well as Laboratory use.

SPECIAL FEATURES IN MICROPROCESSOR KITS

Storage	1000 Samples with Date & Time
Error Indicator	pH Error, Buffer Error, ORP Error
Interface	Yes
Real Time	24 Hours Mode with Date
Digital Output	Serial RS 232 & Parallel Centronics
Print Format	All Data Date Wise



Model : ATI- WSAK 7P Water & Soil Analysis Kit Microprocessor Based (8 Parameters) Specifications same as Model : ATI- WSAK – 7 P but with 8 parameters (pH, mV. / ORP), Conductivity (E.C.), T.D.S., Temperature , D.O., Salinity and Turbidity.

OPTION :

- ORP Electrode (Platinum Electrode)
- Dedicated data logging software.

ATI 176 POTENTIOMETER DIGITAL (FOR Redox - Potential Measurement) :-

Model : ATI-PDM 552 Range 0 to +/- 199.9 mV, 0 to +/- 1999 mV, Resolution 0.1 mV, Repeatability +/- 1 mV, Accuracy +/- 1 mV +/- 1 Digit, Input Impedence > 1012 Ohms., Display 4 Digit, Power Supply 230 V +/- 10%, 50 Hz AC. Supplied with O.R.P. Electrode (Platinum Electrode), Electrode Stand, Dust Cover and Manual.

OPTION : • Platinum Electrode (O.R.P.)

**ATI 177 T.D.S. METER DIGITAL { MICROPROCESSOR BASED (SOFT TOUCH KEYS) } :-**

MODEL : ATI-TDSM 101 (ATC) With 4 Digits LED Display and Automatic Temperature Compensation, RANGE : 0 to 200 ppm, 2 ppt, 20 ppt, 200 ppt, 1000 ppt.

ATI 178 TURBIDITY / NEPHELOMETERS (LED MODEL) :-

MODEL : ATI-TM 101 (LCD) Details same as ATI - TM 101 but with 16x2 line alphanumeric LCD display with range 0 to 20, 200, 100 NTU /JTU (Automatic range selection), Resolution : 0.1, 1NTU /JTU, Accuracy +1% FS + 1 digit.

MODEL	ATI - TM 101
DISPLAY	4 DIGITS LED DISPLAY
DETECTOR	PHOTOCELL / PHOTODIODE
RANGE	0 TO 200, 1000 NTU /JTU
RESOLUTION	1 NTU/ JTU
ACCURACY	+/- 1% FS +/- 1 DIGIT,
SAMPLE SYSTEM	30 MM CLEAR GLASS TEST TUBE
POWER SUPPLY	230 V +/- 10%, 50 Hz AC.
LIGHT SOURCE	High Intensity L.E.D. Reflective Lamp of selective Wave Lenght (To avoid self heating of solution / Instruments due to Tungsten Lamp causes drift & changes in kinetic properties during measurement), Testing under normal / cooled atmosphere.



OPTION : • Test Tube Set of 5.
 • Spare LED reflective lamp.
 • Dedicated data logging software { only for Model ATI-TM 101 (LCD) }.

PHARMACEUTICAL EQUIPMENTS



ATI 179 FLUID BED DRYER

Sailent Features

- Model 30 to 250 Lts. Capacity.
- All contact parts S.S. 316.
- All othr parts S.S. 304.
- Sample Taking Port.
- Steam Heaters of Electronic Heater
- With PLC Base. (optional)



ATI 180 COATING PAN



Sailent Features

- Uniform Surface Coating.
- Provided with Hot Air Blower.
- Available Size : 12", 18", 24", 36", 42", 48", 60", 72"
- Available STD / GMP Model and Lab Model.

ATI 181 DOUBLE CONE BLENDER

Sailent Features

- Model 10 to 200 Lts. Capacity
- For Uniform Mixing of Dry Power & Granules.
- M.O.C. : S.S. 304/316/316L Quality .
- Available STD / GMP Model & Lab Model.



ATI 182 MASS MIXER



Sailent Features

- Available Size : 10kg to 500kg.
- Ideal for Dryand Wet Material.
- Uniform Mixing.
- Available STD / GMP Model.

ATI 183 VIBRO SIFTER

Sailent Features

- Grading Material of Granules to Fine Power.
- Model : 12", 30", 36" 42", 48", and 60"
- Available STD / GMP Model.



ATI 184 MULTI MILL



Sailent Features

- Uniform Surface Coating.
- Provided with Hot Air Blower.
- Available Size : 12", 18", 24", 36", 42", 48", 60", 72"
- Available STD / GMP Model and Lab Model.

ATI 185 OCTAGONAL-BLENDER-

Sailent Features

- Octogonal Blender with Bin Charging System.
- Model 25 to 1000 Lts.
- Available STD/ GMP Model.
- Available Pneumatic Trolley for Container.
- For Uniform Mixing of Dry Powder and Granules.
- Pneumatic Charging Available.



ATI 186 TRAY DRYAR



Sailent Features

- Available in 6,12,2,48 and 96 Tray Capacity.
- Designed for uniform circulation of Hot Air in the Drying Chamber.
- Electrical / Steam heating Arrangement.
- Trays are available in s.s. 304 / 316 Quality.
- Available STD / GMP Model.

ATI 187 AUTOMATIC CAPSULE LOADER

Sailent Features

- The Capsule loader is Fabricated from High Grade Aluminium and Steel.
- The unit Driven by 0.25 HP 1440 rpm, 3 Phase Motor
- The Loader is Designed to fill 300 Capsules of any one Size in one Loading plate in 30 seconds.



ATI 188 CAPSULE FILLING MACHINE



Sailent Features

- Suitable for filling 100 & 300 Capsules at a time.
- The machine is Hand operated.
- All contact parts made out of stainless steel 304 quality and outside body made out of mild steel duly hard chrome plated.
- The unit is supplied complete with 3 Nos S.S. Loading Plates.
- Powder tray, teflon powder dispenser, brush and bottom tray made out of s.s.

ATI 189 COLLOID MILL

Sailent Features

- Uniform Surface Coating.
- Provided with Hot Air Blower.
- Available Size : 12", 18", 24", 36", 42", 48", 60", 72"
- Available STD / GMP Model and Lab Model.



ATI 190 PACKING BELT CONVEYOR



Sailent Features

- P.V.C. Coated Canvas Belt (4", 6", 9" & 12" width)
- Topside All contact Parts in Stainless Steel
- Size 6ft. to 30ft Length.
- Variable Speed arrangement also available (Optional).

ATI 191 DISSOLUTION TESTER (6 STATION)

Sailent Features

- Compact Low head with short length shafts
- Aluminum Profile structure for less weight
- Easy To Use, Rugged
- Complies to current USP, EP and relevant pharmacopoeias
- Inbuilt Tablet Dispenser
- Low evaporation lids
- Supports 6 Test Vessels
- User-Friendly Operation
- 20X4 LCD Screen With Yellow/ Blue Backlit
- Immersions pump for circulating water inside the bath to maintain even temperature.
- Ergonomically Designed Membrane Key pad
- Supports Single Step / Multi Step Dissolution
- Up to 12 Programmable Steps / Sample Intervals
- Minimized & Easy Validation Procedure
- Safety Features
- Validation Protocol, Validation Kit (optional)



Specification:

Control Panel	:	Controls: Membrane Keypad Display : 20 characters, 4 line, backlit LCD
Speed Control	:	Range: 25 to 200 RPM ($\pm 2\%$)
Temperature Control	:	Controller: Microprocessor based controller with circulator Range: Ambient to 50°C ($\pm 0.3^\circ\text{C}$)
Test Type	:	Single Step dissolution Multi step dissolution (1-10 steps) Step duration: up to 99:59:59
External Interface	:	Optional Parallel printer port for dot matrix printer Print Interval: up to 99 min.

*(Due to continuous development of the product specifications & design may change/alter)

ATI 192 DISSOLUTION TESTER (8 STATION)

Sailent Features

- Compact light weight stirrer unit and easy to use, rugged
- Conforms to all current USP and EP specification
- Available in 8 test vessels
- Connectivity of off-line sampling system
- User-friendly operating procedure
- Ergonomically designed membrane keypad
- 40 x 4 LCD screen with yellow backlit
- Connectivity of Motorized sampling manifold
- In-built tablet dispenser
- Minimized and easy validation procedure
- Supports single step / multi step dissolution
- Low evaporation lids
- Circulation pump together with SS geyser for better temperature control
- Safety features
- Up to 10 programmable steps / sample intervals
- Validation protocol



Specification:

Control Panel	:	Controls: Membrane Keypad Display : 40 characters, 4 line, backlit LCD
Speed Control	:	Range: 10 to 300 RPM ($\pm 2\%$)
Temperature Control	:	Controller: Microprocessor based controller with circulator Range: Ambient to 50°C ($\pm 0.3^\circ\text{C}$)
Test Type	:	Single Step dissolution Multi step dissolution (1-10 steps) Step duration: up to 99:59:59

ATI 193 DISINTEGRATION TEST APPARATUS FOR TABLETS (D.T MACHINE) (AS PER I.D THIRD EDITION 1955 & 1985)

Used for determination of disintegration of time of tablets. The test equipment consist of 1 liter Beaker tablet can be tested simultaneously through motorized shaft moves up and down direction of 28 to 32 R.P.M. Approx carrying a rigid basket rack assembly. On the upper end of the shaft is fitted a horizontal strip to support cylindrical standard size glass tubes with stainless steelwire gauge bottom. Cylindrical basket moves up and down with standard perforated made of acrylic sheet inside in one litres glass beaker of distilled water. Unit having hot plate rating 65 watts fixed on the top for BEAKER. Temperature can be maintained by thermo in between 35 Degree C to 37 Degree C. Complete with 3-core wire-Do as above but with Digital Model But in third edition 1985 with double BASKET IN TWO BEAKERS(without beaker) Do as above but with Digital Model.



ATI 194 DISINTEGRATION TEST APPARATUS

(As per I.P Third Edition 1985)

Do-same specifications as AGR-113 but with FOUR BASKET in four beaker (without beakers)

OPTIONAL ACCESSORIES : can be provided in any of above models:

- (a) Glass Beaker made of corning glass
- (b) Basket rack assembly consisting of cylinder glass Tubes. Stainless Steel wire gauge and perforated plate made of acrylic sheet.
- (c) Digital Time Totalizer 9hrs.59 min59sec
- (d) Spare Glass Tube
- (e) Spare small disc
- (f) Water Bath instead of Hot plate



ATI 195 FRIABILITY TEST APPARATUS. SINGLE DRUM

Used for tablets to determine the durability at the time of production. A transparent plastic Perspex drum 300 mm x Dia 35 mm deep with cover approx: also blades which the tablets along with it up to the central height and less them off while drum is rotation, it tablets rub against each other without any hard impact. The drum rotates at a fix speed of 30 R.P.M By motor. The rotation period is controlled by electric timer in between 1 to 5 R.P.M. The motor unit is cover steel cabinet and shaft extended on one side which the plastic drum rotate. Tablets are weighted before after the test and the difference is weight for a particular time period indication the rate of abrasion. Complete unit with electric times switch with neon indicator provided on a front panel with 3 core wire and plug to work on 220volts. A.C.



FRIABILITY TEST APPARATUS (DOUBLE DRUM)OPTIONAL ACCESSORIES:

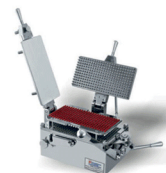
- (a) Digital revolution counter (preset counter)
- (b) Spare drum

ATI 196 CAPSULE FILLING MACHINE FOR 100 CAPSULE with on LOADING PLATE for pharma college purpose only

- (a) A versatile level operated consisting one plate of putting of capsule by hand.
- (b) Removal of capsule
- (c) Filling of powder by dispensing of brush pressing
- (d) Fixing of capsule and sealing
- (e) Injection of capsules

All contact parts are made of Stainless Steel / Brass

Hand Operated, Standard Model. All contact parts made of Stainless Steel.



Consisting of :

- Capacity - 100 Capsules at time.
- Same as above but Capacity - 300 Capsules
- Table Machine Hand Operated Double Stroke (Same as above)
- Table Making machine electric operated multiple stroke
- Spare die and punches for above of chromium steel Size 6,9 & 12mm are provided at an extra cost.

ATI 197 BULK DENSITY APPARATUS (I.P STANDARD)

To determine the bulk density of the powder. A motor moves a shaft carrying clamps at each end to hold graduated cylinders in up and down direction at a frequency rate between 28/32 cycles per minutes through a distance of 5-6 cms. The flanged bottom of the glass cylinders strike on cushion fitted on the platform. A timer is provided to set the duration with hour tube.



ATI 198 PLANT GROWTH CHAMBER

Outer Chamber made of CRC Sheet duly powder coated and inner chamber and trays made of stainless steel (SS 304). Temperature range from 10 degree C to 60 degree C + and humidity range is from 5% above ambient from 40% to 95% RH at cool temperature, controlled through a Digital Humidity Indicator Cum Controller. Fitted with exterior illumination with fluorescent tubes / lamps.

MODEL	CAPACITY	VOLUME	INNER DIMENSIONS WxDxH	NO. OF SHELVES
ATI-PGC 4	112 LTRS	4 Cuft	455x410x610mm	2
ATI-PGC 6	171 LTRS	6.1 Cuft	505x415x830mm	2
ATI-PGC 10	280LTRS	10 Cuft	570x550x875mm	3
ATI-PGC 12	340LTRS	12 Cuft	650x580x900mm	3
ATI-PGC 15	420 LTRS	15 Cuft	700x640x900mm	4
ATI-PGC 16	450 LTRS	16 Cuft	700x640x970mm	4
ATI-PGC 20	560 LTRS	20 Cuft	700x700x1100mm	4
ATI-PGC 30	840 LTRS	30 Cuft	825x825x1200mm	4



- OPTIONS :**
- Fitted with Microprocessor based temperature humidity controller with 16x2 line alphanumeric backlit LCD display in lieu of standard controller.
 - Communication Port with interface and data cable to download data to your PC.
 - Automatic Voltage Stabilizer to cost extra, Servo Voltage Stabilizer to cost extra.



Liquid Blender



Electric Kettle



Filter Press



Electric Kettle



Dust Collector



De-Humidifier

1. Vibro Sifter
2. Multi Mill
3. Double Co Blender
4. Octagonal Blender
5. V-Blender
6. Mass Mixer
7. Ribbon Mixer with Screw Conveyor
8. Coating Pan & Polishing Pan
9. Tray Dryer
10. Fluid Bed Dryer
11. Impact Pulverizer
12. Cyclone Hammer Type Pulverizer
13. Mini Pulverizer
14. Disintegrator
15. Packing Conveyor Belt
16. Z-Elevator
17. Dehumidifier
18. Capsule Filling Machine
19. Automatic Capsule Loader
20. Capsule Polishing Machine
21. Oscillating Granulator
22. Planetary Mixer
23. Colloid Mill
24. Double Jacketed Tank
25. Double Jacketed Paste Kettle & Steam Jacketed Kettle
26. High Speed Dissolver & Stirrer Machine
27. High Speed Dissolver & Stirrer Machine
28. Homogenizer
29. Inline Homogenizer
30. Pressure Vessel & Filling Machine
31. Stirrer
32. Automatic Volumetric Liquid Filling Machine
33. Semi Automatic Liquid Filling Machine and Tran TA
34. P.P. Cap Sealing Machine
35. Filter Press
36. Storage Tank & Mixing Tank
37. Liquid Transfer Pump
38. Bottle Washing Machine
39. Bottle Dryer
40. Pass Box
41. Power Sampler
42. Liquid Sampler & Jars / Mugs
43. Container Trolley
44. Scoop & Spatula For Lab & R & D Use
45. Computer Table
46. S.S. Platform Trolley
47. Packing Chair
48. Stool & Cross Over Bench with Shoe Rack
49. Multi Purpose Trolley
50. Table / Capsule Counter Hand Operated
51. S. S. Pallet.

CENTRIFUGE



ATI 199 MINI CENTRIFUGE- MAX. SPEED 10000 RPM SPIN-TOP

Micro processor controlled, Micro-Centrifuge machine (Mini Centrifuge) speed 1000 to 10000

Technical Specifications

rpm in step of 1000 rpm. Fitted with 0-15 minute electronic digital timer. Supply completed with 2 standard rotors means

(I)6 micro centrifuge of 1.5ml capacity (T-01)

(ii)12 micro centrifuge tubes of 0.5ml capacity (T-02)

To work on 220 volts 50 Hz A.C.



CAT NO.	DISCRIPTION
T-1	Spin-top

Spare Roter at extra cost:

CODE.	CAPACITY	PACKING
T-01	6 x 1.5 ml. tubes	1
T-02	12 x 0.5 ml. tubes	1

SIZE	WEIGHT	SIZE	WEIGHT
R.P.M.	RCF (xg)	R.P.M.	RCF (xg)
1000	56	6000	2011
2000	223	7000	2737
3000	503	8000	3575
4000	894	9000	4524
5000	1396	10000	5585

ATI 200 LABORATORY CENTRIFUGE (GENERAL PURPOSE) :-

Specifications :

- Compact Laboratory Centrifuge Machine, Microprocessor based , digital
- Body made of rust proof ABS Plastic injection moulding with metallic protection bowl.
- Lid lock for safe drive.
- Equipped with 0-99 minute timer.
- 2 lines of 16 character LCD display of r.p.m., R.c.f., for set and run time.
- Programmable speed regulator from 500 to 4400 rpm in interval of 100 rpm.
- Latest test parameter recall and displays automatically on LCD.



TECHNICAL PARAMETERS	
Max. Speed	4400 r.p.m
Motor	Universal Motor (with carbon brushes) 1/8 H.P.
Power	AC 220V 50Hz±10%
Dimension of Machine	L= 395 mm, W= 360 mm, H= 280 mm
Dimension of outer box	510 x 510 x390 mm
Net Weight	12.5kg. Approx Gross Weight with box= 14 Kg.
Current	220 volts, 50Hz A.C.

The machine comes with any one rotor head, to be selected by customer from below mentioned table.

TYPE	Nos. of Holes x Tube Volume
Swing out	8x15 ml
Swing out	16x vacuutainers
Swing out	16x12x75 mm/ 12x100 mm borosil tubes
Angle	12x15 ml

Standard Accessories & Packing

- The above mentioned rotor heads are completed with S.S. tube carriers, suitable Glass/PVC centrifugal tubes, head puller, spanner and rubber cushions.
- Machine is well packed in 5 ply corrugated box.

ATI 201 CLINICAL 4 OR 6 TUBES CENTRIFUGE MACHINE

Low priced units meeting the majority of the small capacity centrifuging requirements of medical practitioners, pathological laboratories and hospitals for routine centrifuging tests. The units are fitted with resiliently mounted motor for vibration free performance having built in 5 step speed regulator Available with Swing out or Angle rotor. The tube capacity is 15ml. Also supplied with adapters to accept Test tubes of 12 x 100mm of Borosil.

Technical Data

MODELS	ATIT-2	ATIT-3	ATIT-4	ATIT-5
Capacity ml	4x15	6x15	8x15	24x15
Type of Head	Swing out			
No. of tubes	4	6	8	24
Max. Speed RPM	3500	3500	3800	3500
Max. RCF 'g'	1850	1600	1450	1250
W x D x H mm	310x310x295		210x210x250	



Supply: 220-240 Volts 50 Hz Single Phase

ATI 202 MICRO CENTRIFUGE 16000 R.P.M.

- High speed Micro Centrifuges.
- Heavy duty C.R.C. Construction
- Powder coated finish
- See thru acrylic lid
- Fitted with well balance universal motor having imported carbons.
- Digital Timer 0-15 minutes
- Digital Speed Indicator (R.P.M. Meter)
- Max r.p.m 16000 which can be controlled by various speed regulator.

**Supply completed with following accessories:**

- Rotor Head to accommodation ependroff (Centrifuge Tubes with cover) of 1.5 ml / 2 ml
- Reduction adapters for 0.5 ml ependroff (Micro Centrifuge Tubes).
- Head Puller, Spanner, Dust cover, instruction manual, Cord & plug to work on 220 volts 50 Hz A.C.

ATI 203 REVOLUTIONARY GENERAL PURPOSE CENTRIFUGE MICROPROCESSOR DIGITAL 5200 R.P.M.

Bench Top with Digital speedometer, Digital timer of range 0-59 minutes and variable speed regulator. Maximum speed 5200 r.p.m. (without load). Fitted with light weight double walled lid made of ABS plastic molding.

Supply is completed with dust cover, instruction manual, 2 spare fuses, 2 spare carbon set cord & plug to work on 220 Volts 50 Hz A.C. (Supplied without rotor)



TYPE OF ROTOR	CAT. NO.
16x15ml. Swing Out Head	ATIT-81
12x15ml. Swing Out Head	ATIT-81A
8x15ml. Swing Out Head	ATIT-81B
6x50ml. Swing Out Head	ATIT-82
4x50ml. Angle Head	ATIT-82A
16x15ml. Angle Head	ATIT-83
12x15ml. Angle Head	ATIT-83A
8x15ml. Angle Head	ATIT-83B
6x50ml. Angle Head	ATIT-84
4x50ml. Angle Head	ATIT-84A
4x100ml. Angle Head	ATIT-88
24x50ml. Angle Head	ATIT-89

CENTRIFUGE MACHINE

All the specifications are same as above but this model having extra features such as electronic inter lid lock, magnetic dynamic break, imbalance detector and product is CE marked in "MICROCIL" Series. Price of above machines are without Rotor Head which can be selected by customer as per their specific requirement at extra cost as under

ATI 204 REVOLUTIONARY GENERAL PURPOSE CENTRIFUGE MICROPROCESSOR DIGITAL 5200 R.P.M.

- General Purpose Laboratory Centrifuge Machine
- Microprocessor based
- Heavy duty C.R.C. construction finished with powder coating
- Fitted with brushless automatic balanced motor
- Digital timer 0-99 minutes
- Digital speed indicator
- Digital r.c.f. Indicator
- Programmable speed regulator
- Electronic Safety lid lock
- Imbalance detector.
- General Purpose Laboratory Centrifuge Machine
- Microprocessor based
- Heavy duty C.R.C. construction finished with powder coating
- Fitted with brushless automatic balanced motor
- Digital timer 0-99 minutes
- Digital speed indicator



- Digital r.c.f. Indicator
- Programmable speed regulator
- Electronic Safety lid lock
- Imbalance detector.

Rotor type (r.p.m.)	Rotor	Rotor Capacity	Speed on Rotor	R.C.F. on
•	Swing bucket Rotor	32 x 15 ml.	4000	2810 xg

Details of other rotors which can be selected as per customer requirement:

ROTOR TYPE	ROTOR CAPACITY	SPEED ON ROTOR (R.P.M.)	R.C.F ON ROTOR
Swing Bucket Rotor	4x100 ml	5000	4390 xg
Swing Bucket Rotor	4x50 ml	5000	4390 xg
Swing Bucket Rotor	8x50 ml	4000	2810 xg
Swing Bucket Rotor	32x10 ml	4000	2810 xg
Swing Bucket Rotor	32x7 ml	4000	2810 xg
Swing Bucket Rotor	48x7 ml	4000	2810 xg
Swing Bucket Rotor	48x5 ml	4000	2810 xg
Swing Bucket Rotor	72x7 ml	4000	2810 xg
Swing Bucket Rotor	4x250 ml	4000	3000 xg

Technical Parameter

• Max. Speed	5000 r/min.
• Max. RCF	4390 xg
• Motor	Brushless Motor
• Noise	65 dB
• Power	AC 220V 50 Hz 15 A
• Weight	35 Kg.
• Dimension	530x420x350 (LxWxH)

ATI 205 MICRO CENTRIFUGE 20000 R.P.M. (BRUSHLESS MOTORS) (MICROPROCESSOR BASED DIGITAL)

- High speed Micro Centrifuge,
- Heavy duty C.R.C. construction
- Powder coated finish
- Fitted with brushless automatic balanced motor
- Digital Timer 0-99 minutes
- Digital Speed Indicator
- Digital R.C.F. Indicator
- Programmable Speed regulator
- Electronic Safety lid lock
- Imbalance detector.



Technical Parameter

• Max. Speed	20000 rpm
• Max. RCF	27800 xg
• Timer	0-99 min.
• Motor	Brushless Motor
• Power	AC 220V 50 Hz 10A
• Noise	< 65 dB
• Weight	26 kg.
• Dimensions	620 x 500 x 350 (L x W x H)

Model	AG-012 BL	Speed on Rotor (r.p.m.)	R.C.F. on Rotor
Angle Rotor	6 x 50 ml.	13000	16800 xg

Details of Micro rotors which can be selected as per customer's requirements:

Rotor Type	Rotor Capacity	Speed on Rotor (r.p.m.)	R.C.F. on Rotor
Angle Rotor	12 x 0.5 ml.	20000	27800 xg
Angle Rotor	12 x 1.5/2 ml.	20000	27800 xg
Angle Rotor	24 x 1.5 / 2 ml.	16000	23200 xg
Angle Rotor	12 x 10 ml.	15000	23200 xg
Angle Rotor	10 x 5 ml.	16000	25600 xg

Rotor Heads required for another applications in various labs can also be supplied as under

ATI 206 HAEMATOCRITE CENTRIFUGE 13000 R.P.M

- Haematocrite Centrifuge Machine.
- Compact body which is made of plastic injection moulded.
- Inner safety bowl made of stainless steel
- Fitted with well balance universal motor having long life imported carbons.
- Digital Timer 0- 59 minutes
- Digital Speed Indicator
- Max. Speed 13000 r.p.m which can be controlled by variable speed regulator



Supply completed with following accessories:

- Micro Hematocrite rotor to accommodate 24 capillaries of 75 mm x 1 mm or 12 capillaries.
- Heparinised capillary tubes 75 mm long x 1 mm bore (pack of 100 Nos.)
- Non-Heparinised capillary tubes 75 mm long x 1 mm bore (Pack of 100 Nos.)
- Reading device.

HAEMATOCRITE CENTRIFUGE (BRUSHLESS)

- Haematocrite Centrifuge Machine.
- Microprocessor based
- Compact body which is made of plastic injection moulded.
- Inner safety bowl made of stainless steel
- Fitted with brushless automatic balanced motor
- Digital Timer 0-99 minutes
- Digital Speed Indicator
- Digital R.C.F. Indicator
- Max. Speed 12000 r.p.m which can be prefixed by microprocessor based controller.

Supply completed with following:

- Micro Hematocrite rotor to accommodate 24 capillaries of 75 mm x 1 mm or 12 capillaries.
- Heparinised capillary tubes 75 mm long x 1 mm bore (Pack of 100 Nos.)
- Non-Heparinised capillary tubes 75 mm long x 1 mm bore (Pack of 100 Nos.)
- Reading device.

ATI 207 HIGH SPEED REFRIGERATED CENTRIFUGE UNIVERSAL 20000 RPM (BRUSHLESS MOTOR) :-

- Bench Top Refrigerated Centrifuge Machine
- Microprocessor based
- Fitted with brushless automatic balanced motor
- Digital Timer 0-99 minutes
- Digital Speed Indicator
- Digital R.C.F. Indicator
- Programmable Speed Regulator
- Electronic Safety lid lock
- Imbalance detector
- Digital temperature controller cum indicator
- CFC free refrigerant



Technical Parameter

• Max. Speed	20000 r/min.
• Max. RCF	27800 xg
• Time	0-99 min
• Motor	Brushless Motor
• Temp. Range	-20°C to +40°C
• Temp. Accuracy	+2°C
• Power	AC 220V 50 Hz 20 A
• Weight	70 Kg.
• Dimension	620x500x350 (LxWxH)

• Rotor Type	Rotor Capacity	Speed on Rotor (r.p.m.)	R.C.F. on Rotor
• Angle Rotor	12 x 0.5 ml.	20000	27800 xg
• Angle Rotor	12 x 1.5 / 2.2 ml.	20000	27800 xg
• Angle Rotor	24 x 1.5 / 2.2 ml.	16000	22000 xg
• Angle Rotor	10 x 15 ml.	13000	17000 xg
• Angle Rotor	12 x 10 ml.	13000	17000 xg
• Angle Rotor	6 x 50 ml.	13000	17000 xg
• Angle Rotor	4 x 50 ml.	13000	17000 xg
• Angle Rotor	4 x 100 ml.	13000	17000 xg
• Microplate Rotor	2 x 2 x 48 ml.	4000	1400 xg

Optional rotors can be selected as per customer's requirements as under:

ATI 208 REFRIGERATED CENTRIFUGE MACHINE ALL PURPOSE 16000 R.P.M.(MICROPROCESSOR BASED)

Table Top, Excellent Design with Digital Timer 0-59 min. Digital speed indicator, Speed Regulator. Temp. from room temperature to minus 8°C is controlled by digital temp. controller cum indicator. Maximum Speed 7000 R.P.M. approx. on load of 1.5 ml / 2 ml head.

Supply is completed with instruction manual, dust cover, cord & plug to work on 220 Volts 50 Hz single phase A.C. the prices of machine are with one Rotor Head which can be selected from below mentioned size as per customer's requirement.

Heavy duty PCRC construction furnished with powder coating.

Fitted with well balance universal motor having long life imported carbons. Supply is complete with instruction manual, dust cover, cord & plug to work on 220 volts 50 Hz A.C. S.S. Bowl Size: 11" dia The prices of machine are with below mentioned 3 types of heads.



Type of Rotor	Max. Speed	Cat. No.
Rotor Head 12 x 1.5 / 2 ml with reduction adapters of 0.5 ml	16000 r.p.m.	ATI-610
Rotor Head 8 x 15 ml also supplied with reduction adapters of 5 ml.	10000 r.p.m.	ATI-615
Rotor Head 4 x 50 ml with reduction adapters of 25ml	10000 r.p.m.	ATI-615

ATI 209 REFRIGERATED MICRO CENTRIFUGE, DIGITAL-16000 R.P.M.

Table Top refrigerated micro centrifuge machine. The temp. from room temp. upto minus 8°C is controlled by PID Electronic Digital Temp. Controller cum indicator. With variables speed controller, digital speed indicator, Digital timer 0-15 minutes. Maximum r.p.m. 16000.

S. S. Bowl Size: 9" dia Dimension of machine: 30" x 20" x 24" approx.

Supply complete with following angle rotor heads to accommodate polypropylene micro centrifuge tubes (Ependroff Tubes as well)

Also supplied with head puller, spanner, 12 Ependroff Tubes of 1.5ml, 2 ml, 0.5 ml

Note: Any Special Head can also be manufactured and supplied as per customer's requirement



Angle Rotar Head, Cap.12x0.5/1ml	Cat No. ATI-1241
Adopters 12 Nos. to accept 0.5 ml Ependroff micro-centrifuges tubes.	

ATI 210 HIGH SPEED UNIVERSAL CENTRIFUGE MACHINE (WITH CARBONS) (MICROPROCESSOR BASED DIGITAL)

Bench Top high speed lab centrifuge with digital speedometer, digital timer in the range of 0-59 minutes and Speed Regulator. Maximum speed 20000 r.p.m. when rotor head of 1.5 ml of 12 tubes is fitted which is part of centrifuge to test the speed.

Heavy duty PCRC construction furnished with powder coating.

Fitted with well balanced universal motor having long life imported carbons.

Optional Heads at extra cost : Supply completed with dust cover, instruction manual, cord & plug to work on 220 volts 50 Hz A.C.



Angle Rotor Head Capacity	Maximum Speed R.P.M.(on load)	Cat.No
6 x 200 ml.	7000	ATI-242
8 x 100 ml.	7000	ATI-242
12 x 50 ml.	7000	ATI-245

All the above stated heads are supplied with P.P. Centrifuge Tubes, Head Puller, Spanner
Any other rotor below 200 ml capacity can also be supplied

ATI 211 LABORATORY CENTRIFUGE BRUSHLESS PREMIUM MODEL MAX. SPEED 6000 R.P.M (T-9BL) :-

General Purpose Laboratory Centrifuge Machine without Carbon

- Heavy duty C.R.C. construction finished with powder coating.
- Fitted with brushless automatic balanced motor
- Microprocessor based, 4 lines, 20 characters. LCD Display of set time, run time, set and run rpm, rcf. Equipped with 0-99 minute timer
- Programmable speed regulator to control speed 500 to 6000 r.p.m depending upon the type of rotor & Fast spin option.
- 50 programmes can be stored in memory.
- Automatic rotor identification on display.
- Additional electronic lid lock which does not allow to open lid when machine is running.
- Dynamic brake (automatic) and imbalance detector are provided.
- Selection of 3 acceleration + 4 deceleration profile.



Technical Parameters :

• Max. Speed	6000 r/min.	Dimension	LxWxH 560x420x320
• Max. RCF	4390 xg	Weight	36 kg.
• Motor	0-99 min		
• Noise	≤65dB		
• Power	AC 220V 50 Hz 15A		

ATI 212 LABORATORY CENTRIFUGE MEDIUM - HIGH SPEED MAXIMUM SPEED 10000 RPM (T-10M) :-

Specifications :

- Bench Top High Speed Centrifuge Machine
- Microprocessor based with digital timer 0-59 minutes.
- Heavy duty C.R.C. construction finished with powder coating
- Metallic centrifugal bowl for extra protection and easy cleaning.
- Fitted with well balanced universal motor (with carbons)
- 2 lines of 16 character LCD display of r.p.m., Set time and run time
- Programmable Speed controller from 2000 to 10000 in variation of 100 r.p.m.,
- Last test parameter recall and displays automatically on LCD
- Lid lock for safe drive
- Rotors made of Aluminium Alloy to withstand high speed of 10000 rpm



Technical

Parameters :

• Max. Speed	10000 r/min.
• Motor	Universal Motor (With carbon)
• Dimensions	510x510x390mm
• Weight of Machine	21 kg approx.,
• Power	AC 220V 50 Hz ±10%

Machine comes with only one rotor which can be selected from below mentioned table.

ROTOR TYPE	ROTOR CAPACITY	SPEED ON ROTOR (R.P.M.)
Angle Head	12x1.5/2 ml	10000
Angle Head	24x1.5/2 ml	10000
Angle Rotor	8x5 ml	10000
Angle Rotor	8x5 ml	10000
Angle Head	4x25 ml	10000
Angle Rotor	4x50 ml	10000

Note : • This is our general purpose leaflet. We can amend technical features according to the requirement of customer but with prior consent on our letter head.

LAB. EQUIPMENTS



ATI 213 HUMIDITY & TEMPERATURE CONTROL CABINETS :-

Outer chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS- 304). Fitted with microprocessor Based Digital Temperature Indicator cum controller from Ambient to 60 degree C \pm 0.5 degree C. Humidity is generated and control through a digital humidity indicator cum controller from ambient to 95% RH \pm 3 % RH.

MODEL	DIMENSION (WxDxH)	CAPACITY	VOLUME
ATI-HC 4	455x410x610mm	112 ltrs	4 cuft
ATI-HC 6	505x415x830mm	171 ltrs	6.1 cuft
ATI-HC 10	570x550x875mm	280 ltrs	10 cuft
ATI-HC 12	650x580x900mm	340 ltrs	12 cuft
ATI-HC 15	700x640x900mm	420 ltrs	15 cuft
ATI-HC 16	700x640x970mm	450 ltrs	16 cuft



OPTIONS : Communication Port with interface and data cable to download data to your pc.

ATI 214 DE-HUMIDIFIER (FITTED WITH TIME CONTROLLED SAFETY DEVICE IN CASE HUMIDITY CONTROLLER FAILS, FOR SAFETY OF THE COMPRESSOR) :-

Dehumidifiers are water condensing type, base on "Refrigerator Cycle" to avoid use of expensive chemicals required for desiccant type models. The unit is self standing and is mounted on a study angle iron frame, fitted with castor wheels. Dehumidifiers removes excess moistures from the atmosphere and it fitted hermetically sealed compressor. Heat exchanger and water condensed coils are made of copper. Water collection tank is provided below the unit, upto 30% \pm 3% RH, depending upon. The ambient conditions. With the dehumidifiers heat load in the room. Suitable to work on 220/230Volts A.C. Supply.

MODEL	HUMIDITY CONTROL
ATI-DH 15 (A)	ANALOG HUMIDISTAT
ATI-DH 15 (B)	DIGITAL CONTROL



OPTIONS : ● Automatic Voltage Stabilizer for above

ATI 215 LYPHOLIZER (FREEZER DRYER) :-

Housed in a super structure steel frame it is mounted on swivel casters. Complete with Perspex see through lid, gasket and control instruments i.e., Microprocessor Based Digital Temperature Controller for measurement of Temp. and Electronic Vacuum Indicator. The unit made out of hermetically sealed compressor and with 100 liters/ min direct motor drive rotary vane type

Vacuum pump of double stage with Air ballast having ultimate vacuum of less than 50 microns in the system and 10 microns on pump head. Condenser Trap: All non-magnetic stainless steel fabricated, argon welded, dished-bottom for complete effluent removal. Refrigeration coils made of copper bonded to outside of condenser heavily insulated. Temp. Up to (-)40°C at ambient temperature of 20°C is maintained through a Microprocessor based digital temperature indicator. Vacuum Drum has 6 or 12 port manifold (main drying chamber) made of stainless steel non-magnetic grade with Perspex top cover. (CFC FREE PUFF INSULATED).



MODEL	NO. OF SAMPLES	CAPACITY
ATI-FD 6	6	3.25 ltrs
ATI-FD 12	12	5.25 ltrs

OPTIONS :

- Secondary Drying Unit.
- Pre- Freezing Attachment.
- Heat rack with 2 / 3 individually heated rack for accelerated freeze drying of small samples in bulk.
- Automatic voltage stabilizer to cost extra.

ATI 216 HEATING MANTLE :-

It withstands high temperature up to 350°C. The body of the mantle is spun one piece from non-rusting Aluminum (upto 5.0 Ltrs Capacity) duly stoving painted. All heating mantles are lagged with special grade mineral wool. To work 220/230Volts.A.C.

MODEL	CAPACITY	RATING
ATI-HM 500	250/500 ml	200W
ATI-HM 1	1 ltrs	300W
ATI-HM 2	2 ltrs	450W
ATI-HM 3	3 ltrs	500W
ATI-HM 5	5 ltrs	600W
ATI-HC 10	10 ltrs	2x600W
ATI-HC 20	20 ltrs	3x600W



ATI 217 MAGNETIC STIRRER (CUM HOT PLATE) :-

It has compact stirring device utilizing a rotating magnetic field (created by a PERMANENT MAGNET) which induces variables speed stirring action. Stirring is accomplished by means of small Teflon rotor, which when placed in the liquid to be stirred is capable on rotation by magnetic field applied from below the container. The unit is fitted with pilot lamp. To work on 220/230volts A.c. Supplied complete complete with one stirring Teflon bar.

MODEL	CAPACITY
ATI-MS 2	2.0 ltrs
ATI-MS 5	5.0 ltrs
ATI-MS 10	10.0 ltrs

OPTIONS :

- With Energy Regulator
- With Digital Temperature Controller
- With 16x2 Line Alphanumeric LCD Controller



ATI 218 MULTI MAGNETIC STIRRER :-

Details are same as per cat. No. AGR-214 But With 2/3/4/6 MANIFOLD With INDIVIDUAL CONTROLS With & without hot plate With Energy Regulator / Digital Controlled for hot plate model Capacity 2 Litres Variable speed.

MODEL	MANIFOLDS	CAPACITY
ATI-MMS 3(T)	3	2.0 ltrs
ATI-MMS 6(T)	6	2.0 ltrs

OPTIONS :

- With Energy Regulator
- With Digital Temperature Controller Unit (individual for each test)



ATI 219 LABORATORY STIRRER (FITTED WITH DC MOTOR) :-

The motor stirrer having maximum speed upto 4000 r.p.m, Unit is clamped to a C.P. Rod fitted on a heavy cast iron base. The height and angle of the stirrer can be adjusted according to the requirement. Variable speed Motor with speed regulator is fitted with S.S. Stirrer rod to give smooth and noiseless operation.

MODEL	MOTOR CAPACITY	MAXI. SPEED
ATI-LS 345	Equivalent to 1/20 H.P	4000 RPM



ATI 220 EMULSIFIER (HOMOGENIZER) FITTED WITH DC MOTOR :-

Fitted with F.H.P. Motor having speed regulator and maximum speed 4000 RPM with perforated stainless steel disc. The unit is having arrangement for moving in horizontal and vertical direction.

MODEL	MOTOR CAPACITY
ATI-EMU 316	Equivalent to 1/20 H.P



ATI 221 TISSUE HOMOGENIZER (ELECTRICALLY OPERATED WITH DC MOTOR) :-

For the reduction of small tissue samples to a homogenous suspension for pathological, immunological and biochemical studies. It consists of a Teflon pestle mounted on S.Steel rod and replaceable grinding vessel of Borosilicate ground glass for preparation of tissue homogenates. Stainless Steel rod is fitted with Teflon pestle and grinding vessel of Borosilicates glass. Fitted with 1/20HP 4000 RPM AC/DC Motor with a chuck to hold the tissue grinder fitted on a stand is supplied with a speed regulator. Suitable to work on 220volts, 1ph, 50HzC Supply.

MODEL	CAPACITY
ATI-TH 10	5ml, or 10ml.(Mention while placing order)
ATI-TH 50	30ml. or 50ml.(Mention while placing order)



OPTIONS : ● Spare Teflon tissue grinder with S.S. rod and glass tube.

ATI 222 MICRO TISSUE HOMOGENIZER (Disintegrator Virtis Type) :-

For reduction of tissues, preparation of emulsions, different solutions etc. A powerful 1/10 H.P., 10000 RPM Motor controlled by a speed regulator fitted with a stainless steel shaft with micro cutting blades is mounted on a stand. Rapidly rotating razor sharp blades provides fast and thorough reduction of tissue, for preparation of emulsion of different solutions etc. Micro homogenizing bottles for samples of 2 to 30ml and 10 to 100ml is supplied with the unit. To work on 220Volts A.C.

MODEL	GLASSWARE
ATI-MTH 346	With three bottles for 25ml, 50ml and 100ml samples



OPTIONS : ● Bottles for 250 ml Sample.
● Bottles for 500 ml Sample.

ATI 223 ELECTRIC AGATE MORTAR PESTLE (Fisher Type) :-

Agate Mortar and pestle are very useful for grind solids into fine powders but under conditions that are highly controlled as to not produce any heating effects and to minimize and control any effects due to stretching of sometimes deformable materials. AGATE MORTAR are control the grinding and also to virtually eliminate contamination from the mortar and pestle set itself Agate is the preferred materials and is used in laboratories. Agate Mortar is useful for dried spices and herbs from a cross-contamination and clean lines (hygiene) agate is for more desirable than the more porous porcelain.



Makes Agate Mortar Pestle for unattended grinding of non gummy and non fibrous materials. Extensively used for preparing coal samples for calorific tests. The mortar revolves and the pestle moves back and forth in a pattern reaching all parts of the mortar. Its metallic housing with a F.H.P. Motor driven detachable turn table of cast aluminum has adjustable posts to hold motors of 75 to 150 mm dia. The arm of the pestle driving mechanism has hinged heavy head which can be raised to inspect or remove the sample or additional material to be added as desired. A built in timer permits selection of grinding operation up to 60 minutes. Speed controller/regulator is also being provided to controlled speed from 20 to 180 rpm. The grinding vessel and mortar are all completely covered by a clear acrylic cover. To operate on 220/230volts. With 0-60 minutes Timer.

With Digital

Timer : ● With 75 mm dia Agate Mortar & pestle
● With 100 mm dia Agate Mortar & pestle
● With 125 mm dia Agate Mortar & pestle
● With 150 mm dia Agate Mortar & pestle

ATI 224 HOT PLATE ROUND :-

The body is made of P.C.R.C. Sheet duly painted with attractive stove enamel. The top cast iron heating plate is round having 20 cm. Dia, with heating elements of 1.5 KW rating. Temperature is controlled by energy regulator upto 350°C.

- OPTIONS :**
- Single plate with energy regulator 8" Dia
 - Single plate with Digital Temp. Indicator
 - Double hot plate with individual energy regulator
 - Double hot plate with individual Digital Temp.

**ATI 225 HOT PLATE RECTANGULAR :-**

For continuous heating upto 350°C The body is made of specially designed perforated P.C.R.C. Sheet Painted with attractive stove enamel with insulated elements. To work on 220/230volts A.C.

With Heating Platform Made of Mild Steel Plate:-

MODEL	HEATING PLATE SIZE
ATI-RHP 1012(SS)	250 x 300mm
ATI-RHP 1016(SS)	250 x 400mm
ATI-RHP 1218(SS)	300 x 455mm
ATI-RHP 1824(SS)	455 x 605mm

Moc (Body)	M.S. Sheet Duly Powder Coated
Moc (Top Platform)	Mild Steel Plate
Temp. Control (Option)	Controlled Through Energy Regulator Or Digital Temp. Indicator Cum Controller

**With Heating Platform Made of Stainless Steel Plate – Digital Controller :-**

MODEL	HEATING PLATE SIZE
ATI-RHP 1012	250 x 300mm
ATI-RHP 1016	250 x 400mm
ATI-RHP 1218	300 x 455mm
ATI-RHP 1824	455 x 605mm

Moc (Body)	M.S. Sheet Duly Powder Coated
Moc (Top Platform)	Mild Steel Plate (S.S 304)
Temp. Control	Through Microprocessor Based Digital Temp. Cum Indicator

ATI 226 SLIDE WARMING TABLE :-

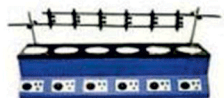
For heating slides to a uniform temperature just below the melting point of wax to provides maximum flatterring without damaging the section. Top plate of S.Steel Mounted on an insulated metal frame fitted with imported thermostat/ digital to control surface temperature from ambient to 100C. Supplied complete with pilot lamp, cord and plug. To work on 220/230volts AC.

MODEL	HEATING PLATE SIZE
ATI-SWT 426	600 x 1500mm
ATI-SWT 426 (D)	600 x 1500mm

**ATI 227 KJELDAHL DISTILLATION UNIT :-**

This is very useful for distillation purpose for 300ml. and 500ml. Capacity Flasks. Provided with condenser rack with all units are fitted with individual energy regulator to control the energy. To work on 220/230volts AC.

MODEL	CAPACITY	MAINFOLD	HEATING SYSTEM	RATING EACH TEST
ATI-KDIS 4323	500 ML	Units of 3 tests	Mantle Type	200 Watts
ATI-KDIS 4326	500 ML	Units of 6 tests	Mantle Type	200 Watts



- OPTIONS :**
- Glass parts consisting of kjeldhal flask 500ml, dropping funnel, splash head, Liebig condenser and receiving flask 250 ml. Complete with standard joint fitting.
 - Clamp for above

ATI 228 KJELDAHL DISTILLATION & DIGESTION COMBINED UNIT :-

Supplied complete with two sets of Mantle type heating platform, one for distillation and one for digestion. The unit is supplied complete with condenser rack, LEAD FUME DUCT and pair of hangers. Complete set up is supplied on a M.S. Tubular stand. Both units are supplied with individual energy regulators. To work on 220/230volts A.C. Supply.

MODEL	MAINFOLD	HEATING SYSTEM	RATING EACH TEST
ATI-KDC 4343	Units of 3 tests	Mantle Type	200 Watts
ATI-KDC 4346	Units of 6 tests	Mantle Type	200 Watts

**ATI 229 KJELDAHL DIGESTION UNIT :-**

This apparatus is used for estimation of nitrogen content in the substance by digestion in micro flasks of capacity 30, 50 & 100ml. The housing is made of mild steel painted with attractive stove enamel. To work on 220/230Volts A.C. Supply. Supplied with LEAD FUME DUCT. (Without glass parts&clamps) unit of 6 test Mantle Type.

MODEL	CAPACITY	MAINFOLD	HEATING SYSTEM	RATING EACH TEST
ATI-KDIS 4333	500 ML	Units of 3 tests	Mantle Type	200 Watts
ATI-KDIS 4336	500 ML	Units of 6 tests	Mantle Type	200 Watts

**ATI 230 SOXHLET EXTRACTION UNIT :-**

Ideal heater for the extractors of soxhlet and other types. This apparatus is suitable to heat soxhlet flasks of 50-500ml. It consists of mild steel sheet housing, two vertical & two horizontal rods with adaptors and screws to hold the flasks. To work on 220/230 A.C. Supply.

MODEL	CAPACITY	MAINFOLD	HEATING SYSTEM	RATING EACH TEST
ATI-SEU 4363	50-500 ML	Units of 3 tests	Mantle Type	200 Watts
ATI-SEU 4366	50-500 ML	Units of 6 tests	Mantle Type	200 Watts

**ATI 231 C.O.D. DIGESTOR (WITH AUTO TIME CONTROLLED SEMI-AUTOMATIC CONTROLLER) :-**

To determination of Chemical Oxygen Demand. It is a solid state block heated unit with provision for samples to be digested at a time in 38mm. Dia reaction vessels with 20ml sample size to heat at temp. of $150^{\circ} \pm 1^{\circ} \text{C}$ Controlled by MICROPROCESSOR Based DIGITAL TEMP. INDICATOR-CUM CONTROLLER. It has provision for 15 samples and is supplied with 15 nos. Air condensers. Fitted with a digital On/OFF timer, the samples after being digested for 2 hours can be analysed using calorimeter or conventional titration method. To work on 220/230volts A.C.

MODEL	BLOCK DIMENSION (LxWxH)(in mm)	NO. OF CAVITIES	TEMPERATURE CONTROL
ATI-COD 439	270x150x70 MM	15 Holes to accommodate 15 Samples	From Ambient +5 degree C to 150 degree C by Microprocessor Based Digital Temp. Indicator cum controller with in-built timer

**OPTIONS :**

- Spare digestion tube with condenser.
- Spare Digestion rack of 15 tubes.

ATI 232 COLONY COUNTER (MICROPROCESSOR) :-

MODEL	AG- CC 408 (MP)
DISPLAY	4 Digits LED
RANGE & MAXIMUM COUNT	0-9999
AUTO SAVING FACILITY	Auto save/ retailing last value in case of power failure
ERROR CORRECTION FACILITY	In case of accidental jumping of counts mistaken (By Counting Pen or By Manual error)
PREVENTIVE BACK COUNTING ERROR	Decrement (Lockable for each step) Facility to avoid back counting error. Safe Guard to your Labour time value.
DISH SIZE	110 mm
MAGNIFICATION	1.7
POWER SUPPLY	230 V +/- 10% AC, 50 Hz

**ATI 233 ULTRA VIOLET FLUORESCENCE ANALYSIS CABINET :-**

For visualization of test objects under U.V. Tubes having long wave length (365mm) and short wave length (254 mm) As desired. A fluorescent tube is fitted to the unit for day light visualization. Supplied with three tubes. To work on 220/230volts A.C.Supply

**ATI 234 BOMB CALORIMETER (DIGITAL) :-**

Designed as per fundamental Standards : BS – 1016 – Part 5 (1967), BIS- 1350-Part 2 and IP – 12/ 63T. Bomb of capacity 300 ml and circular made of corrosion resistant stainless steel alloy. Supplied complete with water jacket, regulating valve, safety valve, Digital Beckman Thermometer, Stirrer and set of standard accessories.

MODEL	CAPACITY	OXYGEN CYLINDER
ATI-BCMP 506	300 ML	YES
ATI-BCMP 506 (OC)	300 ML	YES

**OPTIONS :**

- Thermal Printer Interface for taking final prints.
- Communication Port for Logging Data to PC.

ATI 235 MELTING POINT APPARATUS :-

For determination of melting points up to 35°C. The mounted block is illuminated from below by a lamp fixed in its housing. The aluminum block accepts three capillary tubes and mercury thermometer. The Temp is regulated by energy regulator fitted to the supplied without capillary tubes and the thermometer.

MODEL	TEMPERATURE CONTROL
ATI-MP 403	Energy regulator
ATI-MP 403 (D)	Digital Temp. Indicator Cum Controller

**ATI 236 AUTOMATIC PIPETTE DRYER :-**

Made of S.S. Very efficient for drying Pipettes. A low voltages heater is fitted in base chamber i takes Burettes, Columns and other glassware upto 375mm long. Suitable to operates on 220Volts 50 cycles A.C.



ATI 237 AUTOMATIC PIPETTE WASHER :-

It operates on siphoning principal, Consists of stainless steel washing cylinder removable pipette holder to accommodate pipette upto 375 mms. In length.



ATI 238 GLASSWARE DRYER :-

A powerful and heavy-duty electrically driven blower of variables speed fitted at the base, which force air through 12/36. Heating coils fitted with energy regulator are provided above the blower to heat the blown air through the brass tubes. To work on 220volts A.C. Supply.



ATI 239 BOTTLE WASHING MACHINE :-

Electrically operated with quick release chuck taking wide variety of interchangeable nylon brushes for cleaning syringes, test tubes, bottles etc. Models (a) and (b) are table model mounted on a heavy base and have single chuck. Machines with soaking tanks have 12 rinses and two drill chuck to hold variety of brushes and are mounted on sturdy angle iron frame duly painted. Fitted with perfect motor.

MODEL	S.S. SOAKING TANK
ATI-BWM 341	N.A
ATI-BWM 341 (T)	TANK SIZE = 30"x20"x18"



ATI 240 CADAVEROUS INJECTOR :-

The unit is fitted with one air compressor and A1/2H.P.Motor which is connected with a S.S. Tank of 10-litres capacity. The tank is meant for storing and injecting the formaldehyde solution in Cadaverous at much higher speed than normal gravity process. The tank is fitted with a safety valve, pressures gauge and rubber tubing having provision for injection. It is fully covered unit mounted on four castor wheels for easy movement. Complete with Cord & Plug to work on 220/230 V.A.C. Supply



ATI 241 ULTRASONIC CLEANING BATH :-

A compact and easy to operate Ultrasonic Bath manufactured with advanced MOSFET technology. Designed to clean small and dismantled intricate parts at an operating frequency range of 33 Khz +/- 3 Khz. Fitted with Microprocessor Based Digital Temperature Indicator cum controller at any temperature from ambient +5 degree C to 60 degree C . Also fitted with digital timer with settable range from 0- 15 min or 0 – 30 min (depending upon the capacity ordered). To work on 220 / 230 Volts AC Supply.

MODEL	CAPACITY	OPERATING FREQUENCY
ATI-UCB 15 (Die Pressed Jointed)	1.5 LTRS	33 +/- 3Khz
ATI-UCB 35 (Jointed)	3.5 LTRS	33 +/- 3Khz
ATI-UCB 50 (Jointed)	5.0 LTRS	33 +/- 3Khz
ATI-UCB 70 (Jointed)	7.5 LTRS	33 +/- 3Khz
ATI-UCB 100 (Jointed)	10.0 LTRS	33 +/- 3Khz
ATI-UCB 200 (Jointed)	20.0 LTRS	33 +/- 3Khz
ATI-UCB 300 (Jointed)	30.0 LTRS	33 +/- 3Khz



OPTIONS :

- Chiller water circulator capacity 6 ltrs to cost extra.
- Cooling coils fitted in the S.S. tank to cool the liquid inside the tank through which chilled water is circulated (option available only for capacity 7 ltrs and above).

ATI 242 ICE FLAKING MACHINE (LIGHT WEIGHT) :-

A light weight and air cooled model with a good hold over time has stainless steel cabinet for food safety. Low electrical power consumption is an added advantage. Rated capacity of 80 kgs/ 24 hrs at 100 degree C. Air / Water has a storage bin of capacity 11 kgs. To work on 220 Volts AC. Supply

MODEL	CAPACITY	STORATIE BIN TANK CAPACITY
ATI-IFM 80(LC)	80 Kgs/24 hrs	11Kgs.



ATI 243 MASHING BATH

Mash bath is designed for laboratories of breweries and malthouses for determination of malt extract by CONGRES, HARTONG and ASBC methods. Its is possible to choose a special course of test specimen. All above mentioned methods run fully automatically with temperature regulation accuracy (0,3 degree Celsius) and have an acoustic notice in certain time intervals that lets the operator know about the necessity the water into the beaker with the mash.

Mashing Bath are made of mild steel with duly powder coated painted & inner chamber of bath are made of SS-304 Grade. Mashing bath is ready to use complete with Stirrer and Beaker of Stainless Steel with digital temperature control and Digital RPM Meter. Available with Digital/ Programmable/ With Digital Timer (As Per Ordered)



ATI 244 HEATING MANTLE (DELUXE MODEL) DIGITAL

Most suitable for labs, pharmaceuticals, chemical glass plant etc. Useful for heating inflammable liquids electric heating net is hand knitted from glass yarn (This is improve & latest model Body are made of Aluminum & outer rings are made of mild steel duly powder coated BI-COLOR. Temperature is controoled by Digital Temperature is controlled by Digital Temperature Controller Cum Indicator. Temperature range up to 350°C

ATI 245 PAPER CHROMATOGRAPHY KIT PORTABLE

Compact chromatography cabinet are useful for chemistry, Biochemistry labs of colleges & Medical colleges etc. It is joint less bakelite molding supplied with its accessories to conduct the practical and to evaluate RF values. The standard setup consists of Bakelite cabinet with lid, with front sliding glass, S.S. Pot, hanger to hang Chromatography paper stand, Glass Sprayer with rubber below, Supplied complete with 1 pkt of 25 chromatography sheets of size 18x10cm.



ATI 246 THIN LAYER CHROMATOGRAPHY KIT (TLC KIT)

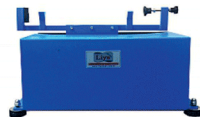
(a) Complete with aluminum applicator (thickness of the layer varied from 1mm to 2mm) thin layer drawing board, drawing rack, developing Chamber, spotting jig, silica gel, micropipette, glass plates (6 Nos) and glass sprayer with bulb

(b)- do- With Brass Applicator



ATI 247 SAND EQUIVALENT SHAKER

For use in labortaries performing a large number of tests. The unit provides a constant shaking with automatic cycle test oscillating excursion is 200 mm at 175 strokes/ minutesrate with Variable speed. Supplied complete with 0-60 minute timer that automatically stops thed shaker at the end of the test. To work on 220/230volts



- (a) For 1 Cylinder with timer
- (b) For 2 Cylinder with timer
- © For 3 Cylinder with timer
- (d) For 4 Cylinder with timer

OPTIONAL ACCESSORIES IN REQUIRED EXTRA

- 1. Digital timer cab be provided
- 2. Digital RPM/ Speed Meter

ATI 248 BUTYRO REFRACTOMETER (OIL & SUGAR REFRACTOMETER)

It has a double scale. One is oil scale (Butyro Scale) having range of 0 to 100 and accuracy of ± 0.1 , read directly on the micrometer. The other is sugar scale having a range of 50-80% with an accuracy of $\pm 1\%$ also read direct on scale.

Model : PP-BOTYRO Cat No: 3454

Range : BUTYRO : 30.0.90.0 & RI : 1.4450-1.4850 -



ATI 249 ABBE REFRACTOMETER

Used for measuring refractive index in the range 1.3 to 1.7 with an accuracy of 0.001 direct on scale and 0.0001 by estimation. Sugar percentage range of 0 to 95% with an accuracy of 1% on scale and 0.1 by estimation can be measured. Complete with test piece, contract liquid and thermometer in wooden cabinet.



ATI 250 STABILITY CHAMBER

25 degree C-60% RH / 40 degree C-75% RH / 30 degree C- 65% RH / 25 degree C 40% RH / 40 degree C- 25% RH / 30 degree C- 35% RH



- Temperature range : 10.0 degree C to 60.0 degree C.
- Accuracy / uniformity : 0.1 degree C / 0.1 degree C.
- Humidity range: 25% to 95% RH. Accuracy/ uniformity: 2% RH / 3% RH.
- Temperature / Humidity display: Digital LED 3 1/2 digit.
- Control: Microprocessor Based PID Control. With Auto tune CE marked.
- Resolution: 0.1 degree C/ 1% RH.
- Temperature sensor: PT- 100
- RH sensor : Direct capacitance type
- Heating : 'U' shaped Nichrome wire heater in SS heating
- Cooling : CFC free copeland make compressor utilizing R 134A eco- friendly refrigerant, with condenser, motor and relay.
- Steam injection : Boiler with reservoir made of thick stainless steel, with heater water inlet control, low water level safeguard
- Air circulation : Flange motor with blower.
- Construction : Double wall, with insulation, outer door key lockable, inner glass viewing door
- Chamber illumination : Fluorescent light with door switch.

SAFETY FEATURES:

- High temperature safety cut off.
- Low water level boiler cut off.
- Electrical overload cut off relay for compressor.
- Time delay for compressor switch ON.
- Electrical circuit breaker.

With Castor wheels. Trays: SS wire mesh heavy duty.

Electrical : 230V / 15 A / 50Hz.

PRE INSTALLATION MANDATORY REQUIREMENT :

(Guarantee void in case of non compliance)

Distilled water OR DM water continuous supply with tap for boiler input of 1/2" BSP at 3 feet height.

Room temperature around machine preferably at 25 degree C with air conditioning or a well ventilated room with exhaust fan.

- However surrounding temperature should not exceed 30 degree C.
- Stabilized input voltage of 230 V AC 20 Amps. Use of servo controlled stabilizer is recommended.
- Water drain line with 1/2" nozzles to be provided at floor level.

MODEL	CAPACITY	INTERNAL DIMENSIONS (WxDxH)	VOLUME	SHELVES
ATI-SC 4	112 ltrs	455x410x610 mm	4 Cuft	2
ATI-SC 6	171 ltrs	505x415x830 mm	6.1 Cuft	2
ATI-SC 10	280 ltrs	570x550x875 mm	10 Cuft	3
ATI-SC 12	340 ltrs	650x580x900 mm	12 Cuft	3
ATI-SC 15	420 ltrs	700x640x900 mm	15 Cuft	4
ATI-SC 16	450 ltrs	700x640x970 mm	16 Cuft	4

GMP MODEL :

- Outer cabinet SS 304 grade dull matt finish
- Inner chamber stainless steel mirror finish
- With DQ, IQ, OQ documentation

ATI 251 ENVIRONMENTAL CHAMBER

Outer Chamber made of PCRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS-304). Temperature range from 10°C to 60°C $\pm 1^\circ\text{C}$, controlled through Microprocessor Based Digital Temperature Cum Controller and humidity range is from 5% above ambient from 40% to 95% RH at cool temperatures, controlled through a Digital Humidity Indicator Cum Controller.

MODEL	CAPACITY	INTERNAL DIMENSIONS (WxDxH)	VOLUME	SHELVES
ATI-EC 4	112 ltrs	455x410x610 mm	4 Cuft	2
ATI-EC 6	171 ltrs	505x415x830 mm	6.1 Cuft	2
ATI-EC 10	280 ltrs	570x550x875 mm	10 Cuft	3
ATI-EC 12	340 ltrs	650x580x900 mm	12 Cuft	3
ATI-EC 15	420 ltrs	700x640x900 mm	15 Cuft	4
ATI-EC 16	450 ltrs	700x640x970 mm	16 Cuft	4
ATI-EC 18	500 ltrs	700x640x1100 mm	18 Cuft	4
ATI-EC 20	560 ltrs	700x700x1100 mm	20 Cuft	4

- OPTIONS :**
- Fitted with Microprocessor based Temperature Humidity Controller with 16x2 line alphanumeric backlite LCD display in lieu of standard controller.
 - Communication Port with interface and data cable to download data to your PC.
 - Automatic Voltage Stabilizer to cost extra.
 - Servo Voltage Stabilizer to cost extra



ATI 252 VDRL ROTATOR (OPERATES AT 180 RPM)

The Venereal Disease Research Laboratory test (VDRL) is a blood test for syphilis that was developed by the eponymous lab. The VDRL test is used to screen for syphilis (it has high sensitivity), whereas other, more specific tests are used to diagnose the disease.

Used for V.D.R.L. Tests, blood grouping tests, various agglutination tests or for mixing of solutions in small bottles, fasks or beakers. It has platform of size 300 x 300 mm. and can accommodate blood bottles slides or flasks using a spring holder. Supplied complete with cord and plug to work on 220/230 volts A.C

MODEL	PLATFORM SIZE	TIMER
ATI-VDRL303 (FS)	300X300mm	Fixed speed w/o timer
ATI-VDRL303 (VS)	300X300mm	Variable speed w/o timer

- OPTIONS :**
- 0-60 MIN. Mechanical ON / OFF Timer.
 - Digital ON / OFF Timer.



ATI 253 CHILLER CIRCULATOR

Outer chamber made of CRCA Sheet duly powder coated and inner chamber made of Stainless Steel (SS-304 grade). Fitted with Circulating Pump to circulate liquid / water to an external source, in closed loop conditions. Fitted with Microprocessor Based Digital Temperature Indicator cum controller. To work on 220 / 230 Volts AC supply.

MODEL	CAPACITY	TEMPERATURE RANGE
ATI-CCB MINI	4,6,8,13 LTRS	Ambient to 0°C
ATI-CCB 13	13 LTRS	Ambient to 0°C
ATI-CCB 13LT	13 LTRS	Ambient to -10°C
ATI-CCB 13UL	13 LTRS	Ambient to -20°C
ATI-CCB 13(CRYO)	13 LTRS	Ambient to -30°C
ATI-CCB 23	23 LTRS	Ambient to 0°C
ATI-CCB 23LT	23 LTRS	Ambient to -10°C
ATI-CCB 23TUL	23 LTRS	Ambient to -20°C

- OPTIONS :**
- Automatic Voltage Stabilizer to cost extra.
 - Servo Voltage Stabilizer to cost extra.



ATI 251 STERILE GARMENT CABINET

Technical Specifications

Cleanliness	Class 100
Velocity	90 fpm + 20%
HEPA Filter	0.3 micron with 99.997% efficiency
HEPA Size & Qty.	Depend on the Size of unit selected
Particle retention	Above 0.3 micron
Blower Assembly	1/3 HP, 1440 RPM
Noise level	65 decibel + 5%
Rate of air Flow	0.40 to 0.75m /Sec. (90FPM)

Fittings

Motor Blower and HEPA filters
 Megnehelic Gauge
 Electrical Sockets and feather touch switches
 CFL Lighting and UV Lamps



ATI 252 PCR CABINET DIGITAL

Technical Specifications

Model	PCR-800	PCR-1000	PCR-1200	PCR-1300	PCR-1500
External Size (WxDxH)	800x700	1000x705	1200x700	1300x700	1500x700
	*1770mm	*1770mm	*1770mm	*1770mm	*1770mm
Internal Size (WxDxH)	700x595	900x595	1100x595	1200x595	1400x595
	*550mm	*550mm	*550mm	*550mm	*550mm
Work Surface Height	750mm				
Material	Main Body : Cold-rolled steel with anti-bacteria powder coating Work Table 304 stainless steel				
Front & Side Windows	5m toughened glass, anti-UV				
	Motorized	Manual	Motorized	Motorized	Motorized
Mad Opening	300mm	320mm	300mm	300mm	300mm
Pre-Filter	Polyester Fiber, Washable				
HEPA Filter	99.999% efficiency at 0.3µm				
Airflow Velocity	0.3-0.5m/s speed adjustable				
UV Lamp	20W*1	20W*2	30W*1	30W*1	40W*1
	Emission of 253.7 nano meters with UV timer				
Gross Weight	165kg	178kg	220kg	231kg	250kg
	960*940	1150*930	1350*930	1450*930	1650*930
Package Size (WxDxH)	*1450mm	*1450mm	*1450mm	*1450mm	*1450mm



ATI 253 GROSSING WORK STATION

ALTIS PRO backdraft grossing station is designed to provide Sturdy, customizable and affordable workstations for path labs. Our PRO Series workstation comes with optimum suction capacity and additional features that assist in grossing as well as protects you from inhaling harmful formalin and other fumes while grossing.

ALTIS Grossing Stations definitely serve the purpose to be in compliance with regulations of exposure to formaldehyde and other chemicals in the grossing room. In general, they are convenient for routine work in grossing rooms with adjustable levelers adjustments accessible water and shelves for supplies. Ventilation at the working position provides air extraction directly back through the table, removing odor and fumes as close to the source as possible. Offers maximum safety and prevents the technician from inhaling contaminated air.

Innovative Back Draft Technology for "ALTIS" Grossing Stations helps eliminate odor and controls harmful pathogens, ensuring the highest possible level of clinical effectiveness. All our products not only meet the existing health and safety standards but also exceed them thus maintaining maximum protection for the technician working with our products.





Altis Instruments

An ISO 9001 : 2015 "CE" CERTIFIED CO.

5317, Kohlapur Road, Jawahar Nagar, Delhi-110007

Tel.: 011-41649818, Mob. :+91-9654167070, +91-9811634353

Email : altisinstruments@gmail.com, altisinstrumentsindia@gmail.com

Website : www.altisinstruments.com, www.indiamart.com/altisinstruments