



THYMOL

AUTOCLAVE INDIA

**Medical,
Scientific & Laboratory
Equipment Manufacturers**



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THYMOL
AUTOCLAVE INDIA

Company Profile

THYMOL AUTOCLAVE INDIA, where excellence is not just a standard—it is a commitment we uphold in every aspect of our business. Established with a passion for quality and innovation, delivering products that reflect sophistication, reliability, and superior craftsmanship.

Driven by a forward-thinking approach, we combine advanced technology with deep industry expertise to create solutions that meet the highest benchmarks of performance and design..

Our journey began with a simple yet powerful vision—to create products that stand for quality, trust, and excellence. What started as an idea has grown into a commitment that drives everything we do today. From the very beginning, we believed that true success lies not just in delivering products, but in building lasting relationships. Every milestone we have achieved is a reflection of the trust our clients have placed in us and the dedication of our team.

In an ever-evolving industry, we continue to adapt, innovate, and raise our standards. Our focus remains on providing solutions that combine superior quality with reliability, ensuring that we consistently exceed expectations. As we move forward, our promise remains unchanged—to uphold integrity, pursue excellence, and deliver value in every endeavor.

We believe in building lasting relationships through trust, transparency, and uncompromising quality. Our focus remains on delivering value that elevates our clients' success and strengthens our legacy of excellence.

We sincerely thank our clients, partners, and team members for being an integral part of our journey.



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THYMOL
AUTOCLAVE INDIA

PRODUCT RANGE

AUTOCLAVE

- Portable Autoclave
- Cooker Type Autoclave
- Dental Autoclave/ Class B
- Vertical Autoclave
- Horizontal Autoclave
- Vertical square body
- Single Lever Lock Autoclave
- Bio Waste Shredder

CSSD LAB EQUIPMENT

- Sliding Door Autoclave
- ETO Sterilizer
- Washer Disinfector
- Drying Cabinet
- Sealing Machine
- Ultrasonic Cleaner

CLEAN ROOM EQUIPMENT

- Static Pass Box
- Dynamic Pass Box
- BioSafety Cabinet
- Laminar Air Flow
- Fume Hood

HEATING AND COOLING EQUIPMENTS

- BOD Incubator
- CO2 Incubator
- Deep Freezer(-20 & -40°C)
- Ultra Low Freezer(-80°C)
- Refrigerated Centrifuge
- Ice Flaking Machine
- Laboratory Refrigerator
- Blood Bank Refrigerator
- Laboratory Incubator
- Hot Air Oven
- Lyophilizer
- Stability Chamber
- Plant Growth Chamber
- Humidity Chamber



TAI 901 Portable Autoclave

- All Body Made of Aluminium.
- Fitted with pressure gauge.
- The unit has spring loaded safety valve for pressure adjustment and a dead weight safety valve.
- It is hydraulically tested up to 30 PSI & is supplied with Electric fitting, Cord & Plug, Supplied with tripod Stand.
- Works on 220/330 volt AC Supply.

MODEL	SIZE (MM)	SIZE (INCHES)	CAPACITY (LITER)
901	300x300	12x12	20 Liters



TAI 901 - (A) Cooker Type Autoclave

- All Body Made of Aluminium, Powder Coated or Stainless Steel.
- Fitted with Pressure Gauge.
- The unit has spring loaded safety valve for pressure adjustment and a dead weight safety valve.
- It is hydraulically tested up to 30 PSI & is supplied with Electric fitting, Cord & Plug, Supplied with Tripod Stand.
- Works on 220/330 volt AC Supply.

MODEL	SIZE	SIZE (INCHES)	CAPACITY (LITER)
TAI-901(A)-13	225X275	09X11	13 Liters
TAI-901(A)-20	300X300	12X12	20 Liters
TAI-901(A)-40	300X500	12X20	40 Liters



ALUMINIUM



POWDER COATED



STAINLESS STEEL

TAI 901- (C) Class B/ Flash Autoclave

- Fully automated Microprocessor based controller.
- Chambers are made up of thick stainless steel tested with Pressure (superior Grade).
- Highly accurate free scale semiconductor pressure sensor for 2.2 kg (121-135° deg centigrade).
- Silicon rubber gasket in the door, silicon tubes used in outlet water.
- Push handle for door locking prevents sudden opening of door.
Auto CutOff Function.
- Table top front load autoclave.
- Blue and White bright seven segment LED display is used to show Temperature, Pressure, Error & Time.
- Parameters saved can be used for next cycle.
- Once program is set , if the power supply is stopped suddenly, the Cycle can be started without any resetting.
- Tone buzzer to produce same tones during all operations.
- If there is any fault in the pressure and temperature sensor, the Error will be displayed.
- Message display on screen once the process is completed and then the Next Process starts.
- The outlet water tank is Inbuilt within the autoclave itself.
- If the PCB gets failed, the door can't be opened due to pressure inside, Therefore open the manually operated pressure valve and release the Pressure, then open the door.
- The body can be cleaned by wet cloth. It is free from rust.
- When the water is not filled in the cylinder it automatically Low Water Level with buzzer.

TECHNICAL SPECIFICATION

- VOLTAGE SUPPLY : 220/230 Volt AC
- SAFETY DEVICE : Safety Valve & Pressure Control Switch
- PRESSURE TRANSMITTER RANGE : (-1 bar to 6 bar)
- HEATING LOAD : 2000 Watts
- TEMPERATURE RANGE : 120° - 134° c
- TEMPERATURE SENSOR : P.T. 100
- CHAMBER SIZE : 250 X 460 MM

SALIENT FEATURES

- 3 Article Tray Stainless Steel
- Carriage
- Thermal Printer
- Water Distillation Unit.

OPTIONAL

- A Data logger, USB Port
- B Servo Stabilizer
- C HMI Based Control system
- D 21 CFR Software
- E Construction All SS-304

MODEL NO	901 (C) Class B
DIMENSION (MM)	250X460
CAPACITY	23 Liter
LOAD	2 Kw

WE CAN CUSTOMIZE THIS UP TO 40 LITERS.



TAI-902 Double Walled Radial Locking All SS 304

- Inner Chamber, Outer Chamber & Support Ring are fully made of Stainless steel.
- Heater, cover stand & carrier/bucket are made of Stainless Steel.
- Lid made of thick machined stainless steel plate.
- Radial Locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double Safety valve, manual exhaust valve as a safety device.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less Silicon/Elastomeric/Neoprene Gasket.
- All internal joints are fibre laser welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains ON/OFF with safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.

SALIENT FEATURES

- Water Level Indicator
- Stainless Steel Basket
- Vacuum Breaker

SEMI AUTOMATIC

- Automatic pressure control switch
- Automatic low water cut off system
- Microprocessor based digital temperature Indicator cum controller with set value and process valve/digital timer

FULLY AUTOMATIC

- Automatic low water cut off system
- Automatic Pressure control switch
- Control: ON/OFF/T.P
- Input: PT-100 Pressure Sensor for chamber
- Purging Range: User settable
- Post sterilization: Drying Time: User settable
- Buzzer: low/ Alarm Process End
- Pressure Display
- Sterilization cycle process inbuilt
- Boiler control : User Settable

TECHNICAL SPECIFICATION

- WORKING PRESSURE : 15-25 PSI
- WORKING TEMPERATURE : 121°-125 °C
- POWER SUPPLY : 220x230V AC, 50/60 Hz
- PRESSURE VESSEL : SS 304 Grade
- HYDRAULIC TESTING : 40 PSI
- TOP LID : SS 304 Grade Stainless Steel
- EXTERNAL WALL : SS 304 Grade
- BASKET : High Grade Stainless Steel

OPTIONAL

- A Thermal Printer
- B Data logger, USB Port, RS 232 Port
- C Pressure Range : 15-35 PSI
- D Temperature Range : 121-135 deg C
- E HMI Based Touch Screen controller
- F 21 CFR Software

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
10x18	250x450	22 Liter	1.5 KW
12x22	300x550	40 Liter	2 KW
14x22	350x550	50 Liter	3 KW
16x24	400x600	78 Liter	4 KW
18x24	450x600	98 Liter	4 KW
18x30	450x750	120 Liter	4 KW
22x30	550x750	180 Liter	6 KW



SEMI AUTOMATIC

FULLY AUTOMATIC

TAI-902(A) Double Walled Radial Locking SS Lining

- Inner Chamber, Outer Chamber & Support Ring are fully made of Stainless steel/Mild Steel.
- Heater, cover stand & carrier/bucket are made of Stainless Steel.
- Lid made of thick machined stainless steel plate.
- Radial Locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double Safety valve, manual exhaust valve as a safety device.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less Silicon/Elastomeric/Neoprene Gasket.
- All internal joints are fibre laser welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains ON/OFF with safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.

SALIENT FEATURES

- Water Level Indicator
- Stainless Steel Basket
- Vacuum Breaker

SEMI AUTOMATIC

- Automatic pressure control switch
- Automatic low water cut off system
- Microprocessor based digital temperature Indicator cum controller with set value and process valve/digital timer

FULLY AUTOMATIC

- Automatic low water cut off system
- Automatic Pressure control switch
- Control: ON/OFF/T.P
- Input: PT-100 Pressure Sensor for chamber
- Purging Range: User settable
- Post sterilization: Drying Time: User settable
- Buzzer: low/ Alarm Process End
- Pressure Display
- Sterilization cycle process inbuilt
- Boiler control : User Settable

TECHNICAL SPECIFICATION

- WORKING PRESSURE : 15-25 PSI
- WORKING TEMPERATURE : 121-125°C
- POWER SUPPLY : 220x230V AC, 50/60 Hz
- PRESSURE VESSEL : SS 304 Grade
- HYDRAULIC TESTING : 40 PSI
- TOP LID : SS 304 Grade Stainless Steel
- EXTERNAL WALL : SS 202 Grade

OPTIONAL

- A Thermal Printer
- B Data logger, USB Port, RS 232 Port
- C Pressure Range : 15-35 PSI
- D Temperature Range : 121-135 deg C
- E HMI Based Touch Screen controller
- F 21 CFR Software

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
10x18	250x450	22 Liter	1.5 KW
12x22	300x550	40 Liter	2 KW
14x22	350x550	50 Liter	3 KW
16x24	400x600	78 Liter	4 KW
18x24	450x600	98 Liter	4 KW
18x30	450x750	120 Liter	4 KW
22x30	550x750	180 Liter	6 KW



SEMI AUTOMATIC



FULLY AUTOMATIC

TAI-903 Triple Walled Radial Locking All SS 304

- Inner Chamber, Outer Chamber & Support Ring are fully made of Stainless steel/Mild Steel.
- Heater, cover stand & carrier/bucket are made of Stainless Steel.
- Lid made of thick machined stainless steel plate.
- Radial Locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double Safety valve, manual exhaust valve as a safety device.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less Silicon/Elastomeric/Neoprene Gasket.
- All internal joints are fibre laser welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains ON/OFF with safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.

SALIENT FEATURES

- Water Level Indicator
- Stainless Steel Basket
- Vacuum Breaker

SEMI AUTOMATIC

- Automatic pressure control switch
- Automatic low water cut off system
- Microprocessor based digital temperature Indicator cum controller with set value and process valve/digital timer

FULLY AUTOMATIC

- Automatic low water cut off system
- Automatic Pressure control switch
- Control: ON/OFF/T.P
- Input: PT-100 Pressure Sensor for chamber
- Purging Range: User settable
- Post sterilization: Drying Time: User settable
- Buzzer: low/ Alarm Process End
- Pressure Display
- Sterilization cycle process inbuilt
- Boiler control : User Settable

TECHNICAL SPECIFICATION

- WORKING PRESSURE : 15-25 PSI
- WORKING TEMPERATURE : 121°-125 °C
- POWER SUPPLY : 220x230V AC, 50/60 Hz
- PRESSURE VESSEL : SS 304 Grade
- HYDRAULIC TESTING : 40 PSI
- TOP LID : SS 304 Grade Stainless Steel
- EXTERNAL WALL : SS 304 Grade
- BASKET : High Grade Stainless Steel

OPTIONAL

- A Thermal Printer
- B Data logger, USB Port, RS 232 Port
- C Pressure Range : 15-35 PSI
- D Temperature Range : 121-135 deg C
- E HMI Based Touch Screen controller
- F 21 CFR Software

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
10x18	250x450	22 Liter	1.5 KW
12x22	300x550	40 Liter	2 KW
14x22	350x550	50 Liter	3 KW
16x24	400x600	78 Liter	4 KW
18x24	450x600	98 Liter	4 KW
18x30	450x750	120 Liter	4 KW
22x30	550x750	180 Liter	6 KW



TAI-903(A) Triple Walled Radial Locking SS Lining

- Inner Chamber, Outer Chamber & Support Ring are fully made of Stainless steel/Mild Steel.
- Heater, cover stand & carrier/bucket are made of Stainless Steel.
- Lid made of thick machined stainless steel plate.
- Radial Locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double Safety valve, manual exhaust valve as a safety device.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less Silicon/Elastomeric/Neoprene Gasket.
- All internal joints are fibre laser welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains ON/OFF with safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.

SALIENT FEATURES

- Water Level Indicator
- Stainless Steel Basket
- Vacuum Breaker

SEMI AUTOMATIC

- Automatic pressure control switch
- Automatic low water cut off system
- Microprocessor based digital temperature Indicator cum controller with set value and process valve/digital timer

FULLY AUTOMATIC

- Automatic low water cut off system
- Automatic Pressure control switch
- Control: ON/OFF/T.P
- Input: PT-100 Pressure Sensor for chamber
- Purging Range: User settable
- Post sterilization: Drying Time: User settable
- Buzzer: low/ Alarm Process End
- Pressure Display
- Sterilization cycle process inbuilt
- Boiler control : User Settable

TECHNICAL SPECIFICATION

- WORKING PRESSURE : 15-25 PSI
- WORKING TEMPERATURE : 121°-125°C
- POWER SUPPLY : 220x230V AC, 50/60 Hz
- PRESSURE VESSEL : SS 304 Grade
- HYDRAULIC TESTING : 40 PSI
- TOP LID : SS 304 Grade Stainless Steel
- EXTERNAL WALL : SS 304 Grade
- BASKET : High Grade Stainless Steel

OPTIONAL

- A Thermal Printer
- B Data logger, USB Port, RS 232 Port
- C Pressure Range : 15-35 PSI
- D Temperature Range : 121-135 deg C
- E HMI Based Touch Screen controller
- F 21 CFR Software

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
10x18	250x450	22 Liter	1.5 KW
12x22	300x550	40 Liter	2 KW
14x22	350x550	50 Liter	3 KW
16x24	400x600	78 Liter	4 KW
18x24	450x600	98 Liter	4 KW
18x30	450x750	120 Liter	4 KW
22x30	550x750	180 Liter	6 KW



AUTOMATIC



FULLY AUTOMATIC

TAI-903(B) Triple Walled Deluxe Model

DELUXE MODEL STEAM STOCK VACUUM DRY SYSTEM WORK ON 121°C – 134°C

- Inner Chamber, Outer Chamber, Support Ring & Jacket are fully made of Stainless Steel.
- Heater, cover stand & carrier/bucket are made of Stainless Steel.
- Lid made of thick machined stainless steel plate.
- Radial Locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double Safety valve, manual exhaust valve as a safety device.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less Silicon/Elastomeric/Neoprene Gasket.
- All internal joints are fibre laser welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains ON/OFF with safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.

TECHNICAL SPECIFICATION

- WORKING PRESSURE : 15-35 PSI
- WORKING TEMPERATURE : 121-134°C
- POWER SUPPLY : 220x230V AC, 50/60 Hz
- PRESSURE VESSEL : SS 304 Grade
- HYDRAULIC TESTING : 40 PSI
- TOP LID : SS 304 Grade stainless steel
- EXTERNAL WALL : SS 304Grade
- BASKET : High Grade Stainless Steel

SALIENT FEATURES - FULLY AUTOMATIC

- Water Level Indicator
- Vacuum Breaker
- Stainless Steel Basket
- Automatic low water cut off switch
- Automatic Pressure Control Switch
- Control: ON/OFF/T.P
- Input: PT-100 Pressure Sensor for chamber
- Purging Range: User settable
- Post Sterilization: Drying Time: User Settable
- Boiler Control: User Settable
- Buzzer: Low/Alarm Process End
- Pressure Display
- Sterilization cycle process inbuilt

OPTIONAL

- A Thermal Printer
- B Data logger, USB Port ,RS 232 Port
- C HMI Based Control System
- D 21 CFR Software

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
10x18	250x450	22 Liter	1.5 KW
12x22	300x550	40 Liter	2 KW
14x22	350x550	50 Liter	3 KW
16x24	400x600	78 Liter	4 KW
18x24	450x600	98 Liter	4 KW
18x30	450x750	120 Liter	4 KW
22x30	550x750	180 Liter	6 KW



TAI-904 Triple Walled Wing Nut All SS 304

- Inner Chamber, Outer Chamber, Support Ring & Jacket are fully made of Stainless Steel.
- Heater, cover stand & carrier/bucket are made of Stainless Steel.
- Lid made of thick machined stainless steel plate.
- Wing Nut knobs lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double Safety valve, manual exhaust valve as a safety device.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less Silicon/Elastomeric/Neoprene Gasket.
- All internal joints are fibre laser welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains ON/OFF with safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.

TECHNICAL SPECIFICATION

- WORKING PRESSURE : 15-20 PSI
- WORKING TEMPERATURE : 121-125 °C
- POWER SUPPLY : 220x230V AC, 50/60 Hz
- PRESSURE VESSEL : SS 304 Grade
- HYDRAULIC TESTING : 40 PSI
- TOP LID : SS 304 Grade stainless steel
- EXTERNAL WALL : SS 304 Grade
- BASKET : High Grade Stainless Steel

OPTIONAL

- A Thermal Printer
- B Data logger, USB Port ,RS 232 Port
- C HMI Based Control System
- D 21 CFR Software

SALIENT FEATURES

- Water Level Indicator
- Stainless Steel Basket
- Vacuum Breaker

SEMI AUTOMATIC

- Automatic pressure control switch
- Automatic low water cut off system
- Microprocessor based digital temperature Indicator cum controller with set value and process valve/digital timer

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
10x18	250x450	22 Liter	1.5 KW
12x22	300x550	40 Liter	2 KW
14x22	350x550	50 Liter	3 KW
16x24	400x600	78 Liter	4 KW
18x24	450x600	98 Liter	4 KW
18x30	450x750	120 Liter	4 KW
22x30	550x750	180 Liter	6 KW

FULLY AUTOMATIC

- Automatic low water cut off system
- Automatic Pressure control switch
- Control: ON/OFF/T.P
- Input: PT-100 Pressure Sensor of chamber
- Purging Range: User settable
- Post Sterilization: Drying Timer: User settable
- Boiler Control: User Settable
- Buzzer: Low/Alarm Process End
- Pressure Display
- Sterilization cycle process inbuilt



SEMI AUTOMATIC



FULLY AUTOMATIC

TAI-905 Double Walled Wing Nut All SS 304

- Inner Chamber, Outer Chamber & Support Ring are fully made of Stainless Steel.
- Heater, cover stand & carrier/bucket are made of Stainless Steel.
- Lid made of thick machined stainless steel plate.
- Wing Nut knobs lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double Safety valve, manual exhaust valve as a safety device.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less Silicon/Elastomeric/Neoprene Gasket.
- All internal joints are fibre laser welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains ON/OFF with safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.

SALIENT FEATURES

- Water Level Indicator
- Stainless Steel Basket
- Vacuum Breaker

SEMI AUTOMATIC

- Automatic pressure control switch
- Automatic low water cut off system
- Microprocessor based digital temperature Indicator cum controller with set value and process valve/digital timer

FULLY AUTOMATIC

- Automatic low water cut off system
- Automatic Pressure control switch
- Control: ON/OFF/T.P
- Input: PT-100 Pressure Sensor of chamber
- Purging Range: User Settable
- Post Sterilization: Drying Timer: User settable
- Boiler Control: User Settable
- Buzzer: Low/Alarm Process End
- Pressure Display
- Sterilization cycle process inbuilt

OPTIONAL

- A Thermal Printer
- B Data logger, USB Port, RS 232 Port
- C HMI Based Control System
- D 21 CFR Software

TECHNICAL SPECIFICATION

- WORKING PRESSURE : 15-20 PSI
- WORKING TEMPERATURE : 121-125°C
- POWER SUPPLY : 220*230V AC, 50/60 Hz
- PRESSURE VESSEL : SS 304 Grade
- HYDRAULIC TESTING : 40 PSI
- TOP LID : SS 304 Grade stainless steel
- EXTERNAL WALL : SS 304 Grade
- BASKET : High Grade Stainless Steel

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
10x18	250x450	22 Liter	1.5 KW
12x22	300x550	40 Liter	2 KW
14x22	350x550	50 Liter	3 KW
16x24	400x600	78 Liter	4 KW
18x24	450x600	98 Liter	4 KW
18x30	450x750	120 Liter	4 KW
22x30	550x750	180 Liter	6 KW



SEMI AUTOMATIC



FULLY AUTOMATIC

TAI-906 Horizontal Cylindrical Autoclave

- The inner/outer chamber, steam jacket and boiler are made of heavy Gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool / mineral wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices.
- Drain valve is fitted at the side bottom for easy draining/cleaning. this affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket when desired.
- The flanged immersion type heating element made from a very high grade material, which Provides fast formation of pressure in the system and are protected through an electric low water level cut off device
- All sterilizers are provided with triple safety features through "Piezo state" (Automatic pressure control system) and a spring - loaded safety valve fitted to the boiler / steam Generator.
- The chamber is fitted with spring loaded safety valve and dead weight release valve.
- Works on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

TECHNICAL SPECIFICATION

GASKET	: Made of joint less silicon rubber
EXHAUST PRESSURE	: Manually through the exhaust valve, sterilizing pressure: 1.2 to 2.5 kgf/cm ² (15 to 35 Psi) at 121° C to 134° C
WORKING PRESSURE	: From 15 psi to 35 psi
PRESSURE GAUGE	: 0.2.1 kgf/cm ² (60 psi)
TUBULAR STAND	: SS 304 Grade Stainless Steel
SUPPORTING RING	: SS 304 Grade Stainless Steel
PRESSURE GAUGE	: SS 304 Grade stainless steel
EXTERNAL WALL	: SS 304 Grade Stainless steel
TOP LID	: SS 304 Grade Stainless steel
TRAY	: SS 304 Grade Stainless steel

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
16X24	400X600	78 Liter	6 KW
16X36	400X900	115 Liter	9 KW
16X48	400X1200	160 Liter	9 KW
20X36	500X900	175 Liter	9 KW
20X48	500X1200	235 Liter	12 KW
22X48	550x1200	300 Liter	12 KW
24X48	600X1200	350 Liter	12 KW

SALIENT FEATURES

- Automatic pressure cut off switch
- Digital temperature indicator cum controller
- Water level indicator
- Vacuum breaker
- Moisture trap
- Multiport Valve
- Automatic self locking system
- Automatic low water cut of switch

OPTIONAL

- A Fully Automatic : PLC Based Controller With PID Purging system
- B Fully Automatic : HMI & PLC Based Controller (Touch Screen Based),
- C PRINTER : Thermal Printer / Dot Matrix Printer
- D Double Door
- E Vacuum Pump
- F Custom software can be installed
- G Data logger, USB Port
- H Construction : SS-316



TAI-906(B) Horizontal Cylindrical Outer Square Body

- The inner/outer chamber, steam jacket and boiler are made of heavy Gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool / mineral wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices.
- Drain valve is fitted at the side bottom for easy draining/cleaning. this affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket when desired.
- The flanged immersion type heating element made from a very high grade material, which Provides fast formation of pressure in the system and are protected through an electric low water level cut off device
- All sterilizers are provided with triple safety features through "Piezo state" (Automatic pressure control system) and a spring - loaded safety valve fitted to the boiler / steam Generator.
- The chamber is fitted with spring loaded safety valve and dead weight release valve.
- Works on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

SALIENT FEATURES

- Automatic pressure cut off switch
- Digital temperature indicator cum controller
- Vacuum breaker
- Water level indicator
- Automatic self locking system
- Automatic low water cut off switch
- Moisture trap
- Multiport valve

OPTIONAL

- A Fully Automatic : PLC Based Controller With PID Purging system
- B Fully Automatic : HMI & PLC Based Controller (Touch Screen Based),
- C PRINTER : Thermal Printer / Dot Matrix Printer
- D Double Door
- E Vacuum Pump
- F Custom software can be installed
- G Data logger, USB Port
- H Construction : SS-316

TECHNICAL SPECIFICATION

GASKET	: Made of joint less silicon rubber
EXHAUST PRESSURE	: Manually through the exhaust valve, sterilizing pressure: 1.2 to 2.5kgf/cm ² (15 to 35 Psi) at 121°C to 134°C
WORKING PRESSURE	: From 15 psi to 35 psi
PRESSURE GAUGE	: 0.2.1 kgf/cm ² (60 psi)
TUBULAR STAND	: SS 304 Grade Stainless Steel
SUPPORTING RING	: SS 304 Grade Stainless Steel
PRESSURE GAUGE	: SS 304 Grade stainless Steel
EXTERNAL WALL	: SS 304 Grade Stainless Steel
TOP LID	: SS 304 Grade Stainless Steel
TRAY	: High Grade Stainless Steel

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
16X24	400X600	78 Liter	6 KW
16X36	400X900	115 Liter	9 KW
16X48	400X1200	160 Liter	9 KW
20X36	500X900	175 Liter	9 KW
20X48	500X1200	235 Liter	9 KW
22X48	550X1200	300 Liter	12 KW
24X48	600X1200	350 Liter	12 KW



TAI-907 Horizontal Rectangular Autoclave

- The inner/outer jacket and boiler are made of heavy gauge SS with leak Proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool / mineral wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge.
- Drain valve is fitted at the side bottom for easy draining /clearing this affords a complete safety to the working personnel against explosive opening
- Two separate valves are provided for evacuating steam from inner chamber and jacket when desired.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- The flanged immersion type heating element made from a very high grade material which provides fast formation of pressure in the system and are protected through an electric device.
- All sterilizers are provided with triple safety features through "Piezo state" and a spring - loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and dead weight release valve.
- Works on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

SALIENT FEATURES

- Automatic pressure cut off switch
- Digital temperature indicator cum controller
- Vacuum Breaker
- Water level indicator
- Automatic self-locking system
- Automatic low water cut off switch
- Moisture trap
- Multiport Valve

OPTIONAL

- A Fully Automatic : PLC Based Controller With PID Purging system
- B Fully Automatic : HMI & PLC Based Controller (Touch Screen Based),
- C PRINTER :Thermal Printer/Dot Matrix Printer
- D Double Door
- E Vacuum Pump
- F Custom software can be installed
- G Data logger, USB Port
- H Construction : SS-316

TECHNICAL SPECIFICATION

GASKET	: Made of joint less silicon rubber
EXHAUST PRESSURE	: Manually through the exhaust valve, sterilizing pressure: 1.2 to 2.5kgf/cm ² (15 to 35 Psi) at 121° C to 134° C
WORKING PRESSURE	: From 15 psi to 35 psi
PRESSURE GAUGE	: 0.2.1 kgf/cm ² (60 psi)
TUBULAR STAND AND	: SS 304 Grade Stainless Steel
SUPPORTING RING	: SS 304 Grade Stainless Steel
PRESSURE GAUGE	: SS 304 Grade stainless Steel
EXTERNAL WALL	: SS 304 Grade Stainless Steel
TOP LID	: SS 304 Grade Stainless Steel
TRAY	: SS 304 Grade Stainless Steel

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
18X18X36	450X450X900	180 Liter	12 KW
18X24X36	450X600X900	240 Liter	18 KW
24X24X30	600X600X900	320 Liter	18 KW
24X24X48	600X600X1200	430 Liter	18 KW
24x24x60	600x600x1500	540 Liter	18 KW
30X30X60	750X750X1500	845 Liter	36 KW
36X36X60	900X900X1500	1215 Liter	36 KW
36X36X72	900X900X1800	1530 Liter	48 KW



TAI-907(A) Horizontal Rectangular Outer Square Body

- The inner/outer jacket and boiler are made of heavy gauge SS with leak Proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining /clearing this affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as when desired.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- The flanged immersion type heating element made from a very high grade material which provides fast formation of pressure in the system and are protected through a electric device.
- All sterilizers are provided with triple safety features through "Piezo state" and a spring - loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and dead weight release valve.
- Works on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

SALIENT FEATURES

- Automatic pressure cut off switch
- Digital temperature indicator cum controller
- Vacuum Breaker
- Water level indicator
- Automatic self-locking system
- Automatic low water cut off switch
- Moisture trap
- Multiport Valve

OPTIONAL

- A Fully Automatic : PLC Based Controller With PID Purging system
- B Fully Automatic : HMI & PLC Based Controller (Touch Screen Based),
- C PRINTER :Thermal Printer/Dot Matrix Printer
- D Double Door
- E Vacuum Pump
- F Custom software can be installed
- G Data logger, USB Port
- H Construction : SS-316

TECHNICAL SPECIFICATION

GASKET	: Made of joint less silicon rubber
EXHAUST PRESSURE	: Manually through the exhaust valve, sterilizing pressure: 1.2 to 2.5kgf/cm ² (15 to 35 Psi) at 121 °C to 134 °C
WORKING PRESSURE	: From 15 psi to 35 psi
PRESSURE GAUGE	: 0.2.1 kgf/cm ² (60 psi)
TUBULAR STAND	: SS 304 Grade Stainless Steel
SUPPORTING RING	: SS 304 Grade Stainless Steel
PRESSURE GAUGE	: SS 304 Grade stainless Steel
EXTERNAL WALL	: SS 304 Grade Stainless Steel
TOP LID	: SS 304 Grade Stainless Steel
TRAY	: SS 304 Grade Stainless Steel
BASKET	: High Grade stainless Steel

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
18X18X36	450X450X900	180 Liter	12 KW
18X24X36	450X600X900	240 Liter	18 KW
24X24X30	600X600X900	320 Liter	18 KW
24X24X48	600X600X1200	430 Liter	18 KW
24x24x60	600x600x1500	540 Liter	18 KW
30X30X60	750X750X1500	845 Liter	36 KW
36X36X60	900X900X1500	1215 Liter	36 KW
36X36X72	900X900X1800	1530 Liter	48 KW



TAI-908 Radial Locking Outer Square Body

- Inner Chamber, outer chamber & support ring are fully made of Stainless steel.
- Double walled construction with fully automatic features
- Heater cover stand & carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial Locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double Safety valve, manual exhaust valve as a safety device.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are fibre laser welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains ON/OFF with safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically

SALIENT FEATURES

1. Vacuum breaker.
2. Water level indicator.
3. Stainless steel basket
4. Automatic low water cut off system
5. Pressure control switch
6. •Display: Jumbo LCD 20x 4
- Control: ON/OFF / T.P.
- Input: PT-100 Pressure Sensor for chamber.
- Purging Range: User Settable.
- Sterilization Time: User Settable.
- Post Sterilization-Drying Time: User Settable.
- Boiler Control: User Settable.
- Buzzer: High / Low Alarm/Process End.
- Pressure Display.
- Sterilization cycle process inbuilt

OPTIONAL

- A Thermal printer
- B Data logger, USB Port ,RS 232 Port
- C Pressure Range : 15-35 PSI
- D Temperature Range : 121-135 deg C
- E 21 CFR Software

TECHNICAL SPECIFICATION

GASKET	: Made of joint silicon
EXHAUST PRESSURE	: Manually thought the exhaust valve, sterilizing pressure: 1.2 to 1.5 kgf/cm ² (15 to 20 psi) at 121 °C
WORKING PRESSURE	: From 15 psi to 20 psi
PRESSURE GAUGE	: 0.2.1 kgf/cm ² (30 psi)
TUBULAR STAND	: SS 304 Grade stainless steel
EXTERNAL WALL	: SS 304 Grade Stainless steel
TOP LID	: SS 304 Grade Stainless steel
BASKET	: High Grade Stainless steel

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
10x18	250x450	22 Liter	1.5 KW
12x22	300x550	40 Liter	2 KW
14x22	350x550	50 Liter	3 KW
16x24	400x600	78 Liter	4 KW
18x24	450x600	98 Liter	4 KW
18x30	450x750	120 Liter	4 KW
22x30	550x750	180 Liter	6 KW



TAI-909 Single Lever Lock Autoclave

- Fully Automatic Autoclave - most useful to sterilize lab glassware, plastic Tubing, Liquid in sealed glass containers and many more uses.
- Fully fibre laser welded to avoid steam and pressure leak.
- Double walled in construction with inner stainless steel, Outer body Powder Coated/ stainless steel.
- A unique single lever lock ensures easy lifting & closure of door without leakage of vacuum & Pressure.
- The Temperature is being controlled by Microprocessor based PID Temperature Controller with Dual Digital Indicator and PT - 100 sensor.
- The cycle begins with press of start switch for fully automatic operation.
- Automatic steam and air exhaust at end of cycle.
- Specially designed heaters reduces power consumption.
- Removable SS 304 Rod type basket is provided.
- Low Water level Alarm indication and cut of facility.
- Lid is equipped with pressure gauge range 0 to 20 PSI.
- Safety valve, Steam release Exhaust Valve, vacuum breaker - for more safety.

TECHNICAL PARAMETERS

- Temperature Range: 121 °C up to 135 °C
- Temperature Accuracy: $\pm 1^{\circ}\text{C}$
- Pressure Range: 0 to 30 PSI
- Pressure Accuracy: ± 1.2 PSI

DIMENSION INCH	DIMENSION (MM)	OVERALL CAPACITY	WORKING CAPACITY	LOAD
12X24	300X600	43 Liter	35 Liter	2.0 KW
14X26	350X650	64 Liter	53 Liter	3.0 KW
16X28	400X700	91 Liter	75 Liter	4.0 KW
18X32	450X800	135 Liter	113 Liter	4.0 KW
22X34	550X850	212 Liter	180 Liter	6.0 KW

OPTIONAL

- A PRINTER OUTPUT Facility can be provided record PV, SV, Actual Date/Time with variable printer time interval, 5000 line memory & Audio alarm facility in case of memory full
- B AUDIO ALARM facility to alert for Temperature Overshoot /undershoot
- C 21 CFR PART 11 COMPLIANCE SOFTWARE for Date Management with F0 Value calculation
- D Temperature Scanner having 2 Temp. Probes to monitor and record temp. Inside the equipment with printing facility
- E Digital Pressure Indication
- F HMI Based Controller (Touch Screen Panel)

Construction

- 1 Inner All SS 304, Outer Powder Coated
- 2 GMP Model All SS 304





TAI-911 Sliding Door Autoclave

- Robust and rugged all weld construction which is leak proof unlike riveted construction.
- Inner chamber is made of thick plate stainless steel 304 quality and jacket is made out of stainless steel 304.
- Sterilizer is hydraulically tested to withstand 2.5 times the working Pressure up to 40 psi.
- Glass wool/ Mineral wool which prevents heat losses due to radiation and is covered by strong stainless steel sheet Insulation upto 60 mm.
- Boiler made of thick stainless-steel plate suitably placed under the sterilizer.
- High grade flanged type heating elements are fitted on front side for easy replacement/repair.
- Fitted with water gauge glass for water level safety, water inlet and drain valves.
- Cycle do not start if door is open or not locked properly.
- This device protects the heaters in the generator from burning out dry.
- Drain valve is fitted at the side bottom for easy draining/cleaning.
- Works on 440 volts, 3 Phase AC Supply.
- The Steam pressure in the boiler is indicated on an individual pressure gauge. Safety lock for Door is fitted with Automatic door System which cannot be opened when the chamber is under pressure. The sterilizer is provided with Triple safety
- Unit is also fitted with low Water Level Cut off Device and automatic pressure control device
- PT-100 sensor used
- Temperature 121° to 134°
- Automatic alarm for low water, power failure, phase out, temperature pressure etc
- Fitted with Vacuum Breaker to break vacuum in case of formation of vacuum due to steam condensation
- Pre vacuum & Post Vacuum
- Alphanumeric printer in built in machine
- Sliding door for HPHV Cycle
- This Equipment comes with PLC/HMI Controller
- Piping system made of SS & pneumatic valves are used
- SS loading & unloading trolley
- Steam working pressure 1.5 to 2.5 kg/cm²

OPTIONAL

- A Double Door
- B Dot Matrix Printer
- C Customise software can be installed

DIMENSION INCH	DIMENSION (MM)	CAPACITY	LOAD
18X18X36	450X450X900	180 Liter	12 KW
18X24X36	450X600X900	240 Liter	18 KW
24X24X30	600X600X900	320 Liter	18 KW
24X24X48	600X600X1200	430 Liter	18 KW
24x24x60	600x600x1500	540 Liter	18 KW
30X30X60	750X750X1500	845 Liter	36 KW
36X36X60	900X900X1500	1215 Liter	36 KW
36X36X72	900X900X1800	1530 Liter	48 KW



TAI-912 ETO Sterilizer

- Thymol Ethylene Oxide GAS sterilizers are designed to be used with Ethylene oxide GAS cartridges to provide a safe & effective temperature sterilization process for Hospitals, Path Labs, Medical Institution, Eye Specialists, Ortho specialists, etc.
- Thymol sterilizer uses Ethylene oxide to sterilize heat and moisture-sensitive devices.

SAFETY FEATURES

- All Sensor linked to the automation ensure reliability and failsafe operation
- Screen on the control panel indicates a specific phase during the operation
- Negative chamber pressure ensure that gas cannot escape into the operating area, Door is locked during cycle
- Constant watch over entries and break diagnostic from automation which warns the operator by means off messages on indicator and buzzer
- Cycle completion record is shown on the printout.
- HMI/PLC display is of 4" color touch screen
- Chamber and cabinet made of high grade stainless steel

STANDARD	DIMENSION INCH	DIMENSION (MM)	CAPACITY IN LITER
2 Cu. Ft.	12x12x24 (LBH)	300x300x600	56 Liters
3 Cu.Ft.	12x12x36 (LBH)	300x300x900	84 Liters
4 Cu.Ft.	12x12x48 (LBH)	300x300x1200	112 Liters
9 Cu.Ft.	18x18x48 (LBH)	450x450x1200	252 Liters
16 Cu.Ft.	24x24x48 (LBH)	600x600x1200	448 Liters

FULLY AUTOMATIC

- This Sterilizer provide a one-touch Operation where the operator loads the material in the trolley provided along with the machine, close the door, and then press the Start button to initiate the cycle; the cycle then continues on its own, and after sterilizing and aerating the load; informs the operator that the cycle is complete
- Once stored, this program cannot be modified by invoking the password command

EQUIPMENT DESCRIPTION

- Heating system
- Vacuum system
- Humidity system
- Control panel
- Air inlet filter
- PLC/HMI controller
- Instruments & printers



TAI-913 Washer Disinfector

- Whole processes including enzyme washing, rinsing1, rinsing2, disinfecting, oiling and drying, adjust parameter during phase flexibly.
- The time of the whole process (electric heating) ≤ 45 minutes.
- The time of the whole process (steam heating) ≤ 35 minutes.
- Double-door with interlock function, fully-automatic.
- PLC control system, color touch screen man-machine interface.
- The lifting of motorized sealing doors adopts bilateral synchronous transmission mode, which is stable and reliable.
- Automatic downward opening door model with far infrared ray Hand-protected design gives an alarm in advance when it encounters obstacle, which protects operator safety without touching obstacle.
- The device with network extended interface and USB interface can realize Interconnection and store cleaning record from U disk.
- The core components includes high-quality cycle pump, fan, control system, pneumatic valve, direct reducer, pressure difference switch, micro switch, metering pump ensure stable operation.

SAFETY DEVICE

- Leakage protection: The device will trip automatically to protect operator when meeting leakage accident
- Overheating protection: Alarm for protection when heating tube temperature is too high during the process of drying
- Fan protection: alarm for protection in order to prevent the fan from locked rotor and overheat when sundries enter into the fan
- Cycle pump protection: Alarm for protection in order to prevent the fan from locked rotor and overheat when sundries enter into the fan
- Door motor protection: Alarm will work for protection in order prevent the door motor from locked rotor and overheat when the door get stucked.
- Door Safety protection: Alarm will work for protection in order to prevent the door from extrusion deformation

SR. NO.	CAPACITY	WATER TANK LOAD	AIR HEATING LOAD	BINS
1.	250 Liters	4.0 KW	6.0 KW	9 Bin
2.	350 Liters	6.0 KW	12.0 KW	12 Bin
3.	440 Liters	9.0 KW	18.0 KW	15 Bin

CONFIGURATION

- Door open type: Motorized door
- Program: More than 30 program for selection
- Heating method: electric heating or steam heating
- Display: Touch screen display
- Printer: Built - in Thermal Printer
- Optional configuration: air compressor, water treatment system, steam generator

APPLICATION SCOPE

- Surgical instruments: shears, pliers forceps and other metal instruments etc
- Vessel: dressing change, banding disk, tube, breaker, etc
- Anesthesia instruments: anesthesia tube breathing bag, mask, various catheters, etc
- Surgical shoes, endoscopy instrument, dental hand piece





TAI-914 Bio Waste Shredder

A bio-waste shredder is a specialized machine designed to shred and reduce the volume of biomedical and laboratory waste, such as sharps, contaminated plastics, and other hazardous materials. By breaking down waste into smaller, manageable pieces, it facilitates safer handling, storage, and disposal while minimizing environmental and health risks. Bio-waste shredders are widely used in hospitals, research laboratories, and pharmaceutical facilities to ensure compliance with biomedical waste management regulations. Their efficiency, safety features, and ability to handle infectious materials make them essential equipment for modern waste management systems.

- Type: Low Speed/ Low RPM (preferably 30 to 40 rpm).
- Low-speed, of low-noise.
- Blades are abrasion-resistant grade steel-duly heat treated.
- The hopper and cutting chamber of the shredder would be so designed to accommodate the waste bag full of biomedical waste.
- The shredder blade is made of highly resistant shaft through a gear mechanism, to ensure low burn and safety for better gripping and cutting of the biomedical waste.
- Would be three-phase induction-motor and the minimum capacity of the motor attached with the shredder would be adequate to carry out 30 Kg waste/hr. This would be ensured by efficient cutting of the bio-medical waste as prescribed in the bio-medical waste (Management & handling) Rules.
- Would be provided with sliding System to avoid spreading of waste during removal of collection trolley.
- Cutter motor.
- Charging door and waste removal doors are easily operable complete with a door opening safety mechanism thus preventing aerosol escaping.
- Provided with manual bag bucket filling mechanism.
- Provided with reverse rotation mechanism.
- Provided with PLC Panel and emergency stop switch.
- Provided with Audio Video alarm.

TECHNICAL SPECIFICATION

- CAPACITY : Customized size available
- TYPE : Digital Temperature Controller
- MATERIAL : Mild Steel (M.S) with 5mm Thickness & Non-Corrosive Alloy Steel
- VOLTAGE : 230+ 10 VAC, 50/60 HZ
- FREQUENCY : MHZ 2450
- OUTPUT POWER : 5KW $\pm$ 0.5 KW
- POWER CONSUMPTION : 3 KW or less with at least 4HP induction motor
- POWER REQUIREMENT : Single or Three phase

SAFETY FEATURES

- Interlocking with Limit Switch
- Shockproof & insulated as per safety norms
- Reverse Motion to avoid overloading or jamming mechanism
- Protection against the scattering of shredded waste
- The unit would be suitably designed for operator's mechanical as well as electrical safety
- Anti-vibration mounting would be provided
- Low Noise (below 60dB) and No Vibration
- Motor overload protection
- Resettable over current breaker, RCB, MCB, Dipole switch, fuse
- Voltage corrector as applicable for the product for protection against surge current & voltage fluctuations
- Over-charging cut-off with visual symbol

CONTROL PANEL

- Would be Pre-Wired and Powder Coated
- Would be provided with auto stop/reversing
- Emergency stop & Limit Switch with audio/visual alarm or indicator for the stoppage





TAI-951(A) Static Pass Box

- Complete SS 304 Grade stainless steel fabrication ensuring corrosion resistance, durability, and easy sanitization.
- Designed to prevent cross contamination and maintain a clean, controlled environment.
- Double-walled doors with glass view panels for safe monitoring during material transfer.
- Perfectly calibrated mechanical interlocking system for synchronized door operation.
- Electromagnetic interlocking mechanism ensures that only one door can be opened at a time.
- Integrated door switch with audio buzzer for operational safety indication.
- Equipped with UV Lamp for effective internal chamber sterilization and microbial control.
- Designed for stable and reliable performance.



SIZE	600X600X600mm
Power Supply	230 v + 10 V 50Hz
SINGLE PHASE	

TAI-951(B) Dynamic Pass Box

- Complete SS 304 Grade stainless steel construction ensuring corrosion resistance and hygienic performance.
- Seamless internal finish designed to prevent cross-contamination and maintain a sterile transfer environment.
- Double-walled doors with glass view panels for safe material monitoring.
- Electromagnetic interlocking system ensures that only one door can be opened at a time.
- Precisely calibrated mechanical + electromagnetic interlocking mechanism for fail-safe operation.
- Door position sensor with audio buzzer indication for operational alerts.
- Equipped with Pre-Filter for initial dust particle removal.
- HEPA Filter (99.97% efficiency at 0.3 micron) for sterile air filtration.
- High-efficiency blower unit for laminar airflow circulation.
- Integrated UV Lamp for internal chamber sterilization.
- Magnetic Differential Pressure Gauge provided to monitor filter pressure drop.
- Door switch with buzzer alarm for safe operation.
- Designed to ensure contamination-free material transfer between clean and controlled areas.



SIZE	600X600X600mm
Power Supply	230 v + 10 V 50Hz
SINGLE PHASE	



TAI-952(A) Biosafety Cabinet

BIOSAFE CABINET CLASS II A-2

The Class II, Type A2. BioSafety Cabinet is designed to Provide protection to the Operator, Environment & Product during handling of Low to Moderate risk biological materials. It is Ideal for microbiological research & pharmaceutical environments where protection against contaminants is essential.

The A2 model utilizes a combination of inflow & downflow MINI plate/HEPA /ULPA filtered air, creating a sterile environment within the work area, while simultaneously preventing exposure to hazardous substances. +

Switches:	Microprocessor based switches for Blower, LED light & UV light with LED back light display (UV light With Timer.
Filter:	0.3 micron, Mesh guard for protection of Mini Plate filter.
Airflow:	Vertical, 70% of the air volume is Re-circulated,30% grade Exhausted.
Noise Level:	60 decibel $\pm$ 5%)
Velocity:	0.35-0.50m/sec
Work Table:	Made up of Perforated stainless steel 304gr Cock for gas on work table.
Front door:	Made of Acrylic duly counter balanced.
UV Lamp:	15/30W
Illumination:	LED White Light.
Pressure:	Digital Manometer 0-50mm range with filter failure alarm.
Power Supply:	230V $\pm$ 10V/50 Hz single phase AC
Cabinet:	Made of 304gr. Stainless Steel.
Heavy Duty Blower:	Dynamically balanced with 0.25 HP Electric Motor Mounted on anti vibration pad 1440 RPM motor.
Virus Burn Out:	Fitted with exhaust and HEPA Filter for environmental protection.
Stand	Bench Top, Free Standing or Free Standing with Wheels.



Model	Dimension (ft)	Dimension (MM)
TAI-952 A	2x2x2	600x600x600
TAI-952 A	3x2x2	900x600x600
TAI-952 A	4x2x2	1200x600x600
TAI-952 A	6x2x2	1500x600x600

TAI-952(B) Biosafety Cabinet

BIOSAFE CABINET CLASS II B-2

The Class II, Type B2. BioSafety Cabinet is a specialized safety device designed to provide maximum protection for personnel, product and the environment from hazardous contaminants. This Fully Exhausted Cabinet ensures that 100% of the air vented out of the Laboratory through a dedicated exhaust system.

To effectively minimize the spread of airborne bacterial and viral organisms, the use of high efficiency filters is essential. Our class II B2 Biosafety Cabinets are equipped with MINI filters / HEPA filters that provide 99.999% efficiency for particle sizes ranging between 0.1 to 0.3 microns, ensuring maximum air purification.

Switches:	Microprocessor based switches for Blower, LED light & UV light with LED back light display (UV light With Timer.
Filter:	0.3 micron, Mesh guard for protection of Mini plate filter
Airflow:	Vertical, 100% Air Exhaust
Noise Level:	60 decibel $\pm$ 5%)
Velocity:	0.35-0.50m/sec
Work Table:	Made up of Perforated stainless steel 304gr Cock for gas on work table.
Front door:	Made of Acrylic duly counter balanced.
UV Lamp:	15/30W
Illumination:	LED White Light.
Pressure:	Digital Manometer 0-50mm range with filter failure alarm.
Power Supply:	230V $\pm$ 10V/50 Hz single phase AC
Cabinet:	Made of 304gr. Stainless Steel.
Heavy Duty Blower:	Dynamically balanced with 0.25 HP Electric Motor Mounted on anti vibration pad 1440 RPM motor.
Virus Burn Out:	Fitted with exhaust and HEPA Filter for environmental protection.
Stand:	Bench Top, Free Standing or Free Standing with Wheels.

Model	Dimension (ft)	Dimension (MM)
TAI-952 B	2x2x2	600x600x600
TAI-952 B	3x2x2	900x600x600
TAI-952 B	4x2x2	1200x600x600
TAI-952 B	6x2x2	1500x600x600



TAI-953 Vertical Laminar Air Flow

A Laminar Air Flow Workstation creates a sterile environment for sensitive processes using HEPA Filtration system. It provides Unidirectional airflow at 0.4-0.6 m/s, minimizing turbulence and reducing contamination. While it protects product from room contamination, it does not offer personal protection for User.

Vertical LAF: The Vertical Air Flow Cabinet is the most popular laminar air flow model, drawing room air through HEPA Filter at the Top. The filtered air flow downward over the workspace, efficiently removing particles & bacteria. This configuration ensures a clean environment by expelling contaminants as the air exits the cabinet

Technical Parameters

Constrution :	Stainless Steel/ Mild Steel
Switches:	Microprocessor based Touch Panel for Blower, LED light & UV light. (UV light with Timer)
Airflow:	Vertically Top to downward
Air Filtration	Pre Filter 5 micron, HEPA Filter 0.3 micron
Noise Level:	60 decibel $\pm$ 5%
Velocity:	0.35-0.50m/sec
Work Table:	Made up of stainless steel 304gr (Perforated) Cock for gas on work table.
Front door:	Manual Foldable/ Sliding Door/ Motorized Sliding Door.
UV Lamp:	15/30W, make
Illumination:	LED / Fluorescent Light for easy operation.
Pressure:	Digital Manometer 0-50mm range with filter failure alarm.
Power Supply:	230V $\pm$ 10V/50 Hz single phase AC
Cabinet:	Cabinet made of Stainless Steel/ Powder Coated
Electricity:	15/5 AMP socket with switch.
Heavy Duty Blower:	Dynamically balanced with 0.25 HP Electric Motor Mounted on antivibration pad 1440 RPM motor.
Safety Features:	Voltage fluctuations protection.
Stand:	Bench Top, Free Standing or Free Standing with Wheels.
Front Door Material :	Glass/ Acrylic/ Poly Carbonate

OPTIONAL

- A Digital Pressure Gauge Alarm
- B HMI Based Touch Screen Panel
- C Filter Choke Alarm

Model	Dimension (ft)	Dimension (MM)
TAI-953	2x2x2	600x600x600
TAI-953	3x2x2	900x600x600
TAI-953	4x2x2	1200x600x600
TAI-953	6x2x2	1500x600x600



TAI-954 Horizontal Laminar Air Flow

A Laminar Air Flow Workstation creates a sterile environment for sensitive processes using HEPA Filtration system. It provides Unidirectional airflow at 0.4-0.6 m/s, minimizing turbulence and reducing contamination. While it protects product from room contamination, it does not offer personal protection for User.

Horizontal LAF: Horizontal Laminar Air Flow Workstation is designed to provide a clean, particle-free working environment for sensitive laboratory applications. The system draws ambient air through a pre-filter and HEPA filter mounted at the rear, delivering unidirectional horizontal airflow (back to front) across the work surface. This airflow pattern effectively protects the product from contamination, ensuring high process integrity; however, it does not provide personnel protection.

Technical Parameters

Construction :	Stainless Steel/ Powder Coated
Switches:	Microprocessor based switches for Blower, LED light & UV light with LED back light display (UV light With Timer.)
Airflow:	Frontward Horizontally (Back to Front)
Air Filtration:	Pre Filter 5 Micron, HEPA Filter 0.3 micron
Noise Level:	60 decibel $\pm$ 5%
Velocity:	0.35-0.50m/sec
Work Table:	Made up of stainless steel 304gr Cock for gas on work table.
Front door:	Manual Foldable/ Sliding Door/ Motorized Sliding Door.
UV Lamp:	15/30W, make Philips Holland LED
Illumination:	LED / Fluorescent Light for easy operation.
Pressure:	Manometer 0-50mm range with filter failure alarm.
Power Supply:	230V $\pm$ 10V/ 50 Hz single phase AC
Heavy Duty Blower:	Dynamically balanced with 0.25 HP Electric Motor Mounted on anti vibration pad 1440 RPM motor.
Stand:	Bench Top, Free Standing or Free Standing with Wheels.
Front Door Material :	Glass/ Acrylic/ Poly Carbonate

OPTIONAL

- A Digital Pressure Gauge Alarm
- B HMI Based Touch Screen Panel
- C Filter Choke Alarm

Model	Dimension (ft)	Dimension (MM)
TAI-954-1	2x2x2	600x600x600
TAI-954-2	3x2x2	900x600x600
TAI-954-3	4x2x2	1200x600x600
TAI-954-4	6x2x2	1500x600x600



TAI-955 Sealing Machine

Pouch Sealing Machine is a device designed to securely seal products in pouches or bags, ensuring protection from contamination, moisture, and air. It works by applying heat and pressure to the pouch material, creating an airtight and durable seal. Pouch sealing machines are widely used in food packaging, pharmaceuticals, cosmetics, and industrial products to maintain product quality, extend shelf life, and enhance hygiene. Their efficiency, ease of operation, and ability to provide consistent sealing make them an essential tool in modern packaging processes.

Automation	: Semi Automatic
Usage	: Pouch Sealing
Material	: Stainless Steel
Power	: 600 W
Weight	: 22 Kg
Frequency	: 50Hz
Phase	: Single



TAI-956 Ultra Sonic Cleaner

An **Ultrasonic Cleaner** is a cleaning device that uses high-frequency sound waves, typically in the ultrasonic range, to remove contaminants from the surfaces of objects immersed in a liquid cleaning solution. The ultrasonic waves generate microscopic cavitation bubbles that collapse and produce powerful cleaning action, effectively dislodging dirt, grease, oil, and biological residues from intricate parts and hard-to-reach areas. Ultrasonic cleaners are widely used in laboratories, medical and dental facilities, electronics manufacturing, jewelry cleaning, and industrial maintenance due to their efficiency, precision, and non-destructive cleaning process.

SALIENT FEATURES

- Ultrasonic power 0-100% adjustable
- Time setting 0-60min
- Ultrasonic frequency 40 kHz.
- SS 304 Construction, 2mm tank thickness to prevent acid corrosion.
- industrial grade Ultrasonic transducer, moisture proof PCB.
- Advance generator, sweep frequency, high quality.
- Easy to move with wheels, locking wheels for stability.
- with lid and basket (SS 304).



Tank Capacity (Approx)	1L	2L	3.2L	6.5L	10L	15L	22L	30L
Tank Drain	Drain Valve							
Time Setting	1-60 min							
Heating Temp.	RT+5~ to 100°C							
Display	Digital RED LED							

TAI-957 Fume Hood

The Fume Hood is an enclosure designed to eliminate fumes and airborne particles directly at the source of contamination. It functions as a specialized ventilation system, effectively removing smoke, dust, mist and chemical fumes while preventing them from entering the Laboratory Environment. THYMOL Fume Hood system are resistant to all types of acid exposure. Additionally, we offer customized designs for Laboratory fume hoods suited for Hydrofluoric and Perchloric acid applications upon request.

WORKING CHAMBER : The inner working chamber of Fume Hood is the most critical component, as it is directly exposed to fumes, acid, & various chemicals. We Construct the Inner Chamber walls from High Grade Stainless Steel (SS 304), with an Optional FRP Coating for enhanced Protection if required.

EXTERNAL SURFACE : These Cabinets are ergonomically engineered for durability and long-lasting performance. Constructed using only high quality, thick metal sheets and pipes, they ensure the highest level of safety and reliability.

SERVICE VALVES : The fume hood shall be provided with duly integrated service valves for gas, water, and other utilities as per laboratory requirements.

ELECTRICAL UTILITIES : Electrical sockets shall be configurable as per user specification, with provisions for 2/4/6 sockets, available in 6A or 15A ratings, neatly housed and safely wired for laboratory use.

SASH : The front glass sash shall be fitted with a counter-balanced sash system, incorporating precision weights and pulley mechanism to ensure smooth, stable, and effortless vertical movement, allowing the operator to set and maintain the sash at the desired working height.

CHEMICALS STORAGE CABINET : Ventilated chemical storage cabinets shall be provided at the base, available in multiple configurations. The unit may optionally be supplied with lockable castor wheels to facilitate mobility while ensuring operational stability.

TECHNICAL SPECIFICATION

MODEL	THYMOL FH Series
Innner Chamber	SS 304/ PP Coating/ FRP Coating
Exterior Surface	Powder Coated MS/ Stainless Steel / PP Coating
Work Top	SS 304/ Jet Black Granite/ PP
Blower	Centrifugal Exhaust Blower (Direct Drive Motor)
Standard Fittings	Water Tap, Sink with drainage system, Electrical Sockets, Storage Cabinets, Caster Wheels with Brake, Wet & Dry service valves & Conopy Ventilation
Optional	• PP Coating on Inner Walls • HMI Based Controller • Airfoil • Scrubber System • Temperature Indicator • Flow Monitor

Model	Dimension (ft)	Dimension (MM)
TAI-957-1	2x2x4	600x600x1200
TAI-957-2	3x2x4	900x600x1200
TAI-957-3	4x2x4	1200x600x1200
TAI-957-4	5x2x4	1500x600x1200
TAI-957-5	6x2x4	1800x600x1200



TAI 801 BOD Incubator

A BOD (Biochemical Oxygen Demand) incubator is a temperature-controlled laboratory equipment used to maintain a constant and uniform environment for biological and chemical testing. It is primarily designed to determine the + biochemical oxygen demand of wastewater samples by incubating them at a standard temperature, usually 20 °C, for a specific period. BOD incubators are widely used in environmental laboratories, water treatment plants, and research institutions for monitoring water quality and microbial activity. Their precise temperature control, uniform air circulation, and reliable performance make them essential for accurate and reproducible test results.

CONSTRUCTION

High grade stainless steel of grade SS-304 ensure greater stability and life.

- **Outer body:** Made of High grade galvanized sheet and coated with bacteria resistant film.
- **Door:** Made of galvanized steel sheet. High quality neoprene rubber gaskets used for air tight fittings.
- **Casters:** used movable and lockable casters for easy to move.
- **Locking systems:** locking systems provided for security and safety purpose.
- **Cooling:** used ISI marked cooling compressor like kirloskar/Danfoss/Tecumseh of totally CFC free.
- **Illumination:** our BOD Incubators are door operated illumination system comprising of fluorescent light.
- **Temperature Range:** 5C to 60.C with suitable adjustable limits.
- **Temperature control:** The temperature inside BOD Incubators controlled by programmable microprocessor based temperature cum indicator.
- **Temperature Accuracy:** $\pm .5$ or better.
- **Audio visual Temperature Alarm:** For protection during temp. fluctuation audio visual alarm is provided in BOD Incubators.

TECHNICAL SPECIFICATION

Temperature range	5° c to 60° c
Controller	Microprocessor based PID digital controller
Display	LCD/LED
Inspection window in door	Acrylic glass window
Power	220-230v,50 hz



SIZE(Inches)	Capacity	Shelves	Capacity Liters
15*15*15	2 CuFt	2	56 Liters
18*18*18	3 CuFt	2	84 Liters
18*18*24	4.5 CuFt	3	126 Liters
18*24*24	6 CuFt	3	168 Liters
24*24*24	8 CuFt	3	224 Liters
24*24*30	10 CuFt	3	280 Liters
24*24*36	12 CuFt	3	336 Liters
24*24*48	15 CuFt	5	420 Liters
24*28*48	18 CuFt	5	504 Liters

TAI 802 CO2 INCUBATOR

THYMOL'S CO2 Incubators are widely used in scientific research to grow & maintain microbiological cell cultures. The CO2 Incubator maintains optimal Temperature, Humidity & other Physiological conditions such as carbon dioxide & oxygen content of the atmosphere which is essential for cell. The unit features accurate CO2 control, uniform temperature distribution, and contamination resistant construction, making it ideal for advanced biological research

Key Features

- Accurate Temperature Control: Maintains stable temperature (typically 37°C) for ideal cell growth.
- CO₂ Regulation System: Ensures precise CO₂ levels (commonly 5%) for proper pH balance in culture media.
- High Humidity Environment: Prevents sample dehydration with up to 95% humidity.
- Contamination Control: HEPA filtration system Antimicrobial interior (stainless steel or copper)
- Digital Control Panel: User-friendly interface for monitoring and adjustments.
- Alarm & Safety Features: Alerts for temperature or gas deviations.
- Water tank for humidity in the chamber.
- Equipped with USB port and LCD touch screen, the incubator can save data in real time.
- High quality CO₂ gas filter ensure the inside gas quality.
- High quality infrared sensor for accurate CO₂ Concentration.
- The working chamber adopts round angle structure, easy to clean.



Model	TAI-CO ₂ -A90		TAI-CO ₂ -A180		
Capacity	90 Liter		180 Liter		
Heating	Air Jacket / Water jacket		Air jacket / Water jacket		
Temp. range	RT +5~60 °C				
Control Type	Microcomputer controller/ LCD Touch Display				
Temp. Fluctuation	< +0.2 (at 37 °C)				
Temp. Uniformity	< +0.3 (at 37 °C)				
Time Setting	999h or continuous				
Alarm	Audible and visual alarm : Over temperature alarm: CO ₂ Concentration alarm				
Shelves	2 pcs/ adjustable				
Material	External cold - rolled Steel with painting : Internal stainless steel				
Door	with inner door and external door				
CO ₂ Range	infrared sensor range 0-20%				
CO ₂ Control Resolution	0.1%				
Humidification Type	Water tank for natural evaporation				
Sterilization Type	UV lamp for air jacket				
Ambient Temp. & Humidity	18~30 suggest 25± 2 °C: relative humidity ≤ 80%				
Caster	Caster Wheels				
Consumption	350W	600W	875W	650W	1000W
Power Supply	Ac110/220V0 V + 10%, 50/60HZ				



THYMOL
AUTOCLAVE INDIA

HEATING & COOLING EQUIPMENT

TAI 803 Deep Freezer (-20° & -40°C)

A THYMOL'S Deep Freezer is a low-temperature refrigeration unit designed to store materials at temperatures much lower than standard refrigerators, typically ranging from -20°C to -40°C (and lower in special models). It ensures long-term preservation by slowing biological and chemical activity. Deep freezers are built with high-grade insulation, efficient compressors, and precise temperature control for reliable, continuous operation

Technical Details

- **Inner Chamber:** High-grade SS 304, non-corrosive and non-magnetic for long service life
- **Outer Body:** Powder coated with bacteria-resistant film
- **Door:** Powder-coated with high-quality silicon rubber gasket for airtight sealing
- **Insulation:** Thick CFC-free polyurethane PUF/foam insulation to minimize thermal losses
- **Casters:** Heavy-duty, lockable castor wheels for safe mobility
- **Locking System:** Smart locking mechanism for enhanced safety and security
- **Storage Type:** Suitable for general laboratory storage
- **Cooling Compressor:** ISI-marked, CFC-free compressor for fast and uniform cooling
- **Temperature Range:** 10°C Up to -20°C/30°C-40°C (adjustable)
- **Temperature Accuracy:** $\pm 0.5^\circ\text{C}$ or better
- **Hot Line Across Door Assembly:** Prevents frost formation

Salient Features

- Microprocessor-based PID Digital Temperature Control
- LCD/LED Digital Display
- Audio & Visual Alarms
- Environment-friendly CFC-Free Cooling System
- Low Maintenance & Energy Efficient Operation
- Automatic Internal Illumination
- Smart Handle with LED Door Open/Close Indication

OPTIONAL

- A HMI Control System
- B Thermal Printer
- C USB Port
- D Complies with 21 CFR
- E Battery Backup



Inner Dimension in mm	530x410x850	550x630x1050	670x650x1160	720x7000x1250	750x650x1050	820x780x1510
Outer Dimension in mm	680x610x1500	700x710x1690	820x850x1820	650x810x1410	870x900x1910	970x980x2180
No. of Drawers & Tray	2	3	4	4	5	5
Capacity	200 L	350 L	450 L	550 L	650 L	1000 L



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TAI 804 Ultra Low Freezer -80°C

A THYMOL'S -80°C Deep Freezer is an ultra-low temperature storage unit designed to safely preserve highly sensitive biological and pharmaceutical samples for long durations. It maintains a stable -80°C environment using advanced refrigeration systems, heavy insulation, and precise microprocessor-based temperature control. The unit is built with a corrosion-resistant interior, robust insulation, and multiple safety alarms to ensure sample integrity, reliability, and continuous operation in critical laboratory environments.

Construction Details

- **Inner Chamber:** High-grade SS 304, noncorrosive and non-magnetic for long service life
- **Outer Body:** Powder coated with bacteria-resistant film
- **Door:** Powder-coated with high-quality silicon rubber gasket for airtight sealing
- **Insulation:** Thick CFC-free polyurethane PUF/foam insulation to minimize thermal losses
- **Casters:** Heavy-duty, lockable castor wheels for safe mobility
- **Locking System:** Smart locking mechanism for enhanced safety and security
- **Storage Type:** Suitable for general laboratory storage
- **Cooling Compressor:** ISI-marked, CFC-free compressor for fast and uniform cooling
- **Temperature Range:** 50°C Up to -80°C (adjustable)
- **Temperature Accuracy:** ±0.2°C or better
- **Hot Line Across Door Assembly:** Prevents frost formation

Salient Features

- Microprocessor-based PID Digital Temperature Control
- LCD/LED Digital Display
- Audio & Visual Alarms
- Environment-friendly CFC-Free Cooling System
- Low Maintenance & Energy Efficient Operation
- Automatic Internal Illumination
- Smart Handle with LED Door Open/Close Indication

OPTIONAL

- A HMI Control System
- B Thermal Printer
- C USB Port
- D Complies with 21 CFR
- E Battery Backup



Inner Dimension in mm	455x405x610	510x510x765	600x625x900	650x650x1015	660x660x1170	700x700x1270
Outer Dimension in mm	740x690x1500	790x790x1625	890x915x1780	940x940x1880	940x940x2007	940x940x2390
No. of Drawers & Tray	2	3	4	4	5	5
Capacity	115	200	350	450	550	650

TAI 805 High Speed Refrigerated Centrifuge

A high-speed refrigerated centrifuge is an advanced laboratory instrument designed to separate components of a mixture based on their density under high centrifugal force while maintaining precise temperature control. By combining rapid rotational speeds with an integrated refrigeration system, this equipment prevents heat buildup during operation, thereby preserving the integrity of temperature-sensitive biological and chemical samples. High-speed refrigerated centrifuges are widely used in clinical diagnostics, biomedical research, pharmaceutical development, and molecular biology for applications such as cell fractionation, protein isolation, and nucleic acid separation. Their accuracy, efficiency, and ability to protect samples make them essential tools in modern laboratory environments.

SALIENT FEATURES

- Brushless DC motor, Maintenance free; Microprocessor Control, can preset rotation speed, time, centrifuge force, temperature, speed level; Liquid crystal display; Two kinds of operation method, touch screen and key operation
- 10 preset programs and 10 speed levels, in order to be started and stopped quickly.
- Automatic balance device inside steel metal case, stainless vessel, electronic security lock to keep the centrifuge safe when running
- Temperature range: -20°C to 40°C, can be refrigerated quickly; and also has fault alarm function
- Speed control accuracy: $\pm 20\text{rpm}$
- Temperature control Accuracy: $\pm 1^\circ\text{C}$
- There are many specifications of rotors and adapters. Suitable for fields of scientific research, genetic engineering, biochemistry, etc

TECHNICAL SPECIFICATION

MODEL	TAI-805
MAX SPEED	16000r/min
MX RCF	19040×g
TIME RANGE	1~99min59s
POWER SUPPLY	AC220V 50Hz 5A
DIMENSION	48x48x27.5cm
WEIGHT	47kg

ROTOR NO.	CAPACITY		(R/MIN)	(XG)
1	1.5/2.0ml×12	angle rotor	16000	17940
2	1.5/2.0ml×24	angle rotor	14000	17950
3	5ml×10	angle rotor	16000	17800
4	10ml×6	angle rotor	13000	14190
5	0.2ml×40	angle rotor	16000	19040
6	0.5ml×40	angle rotor	13000	17210
7	0.2ml×8×4 PCR	rotor	14000	13720



TAI 806 ICE Flaking Machine

An ice flaking machine is a specialized refrigeration device designed to produce thin, flat flakes of ice efficiently and continuously. These ice flakes have a large surface area, allowing for rapid cooling and uniform temperature control. Ice flaking machines are widely used in industries such as food processing, fisheries, supermarkets, concrete cooling, pharmaceuticals, and chemical processing, where fast and gentle cooling is essential. Due to their energy efficiency, hygienic operation, and ability to produce dry, non-clumping ice, ice flaking machines are an ideal solution for both industrial and commercial cooling applications.

1. High-quality stainless steel is used for outer body and they are anti corrosive and durable, and the all-in-one independent structure makes them simple and compact and space-saving. Bin Is made of good quality plastic.
2. Their boxes are protected with fluorine-free foam thermal cover featuring good insulation effect. Their internal bladders are of fluorine-free bacterial inhibitory-type. They are both energy-saving and environmental friendly.
3. High quality and efficient use of fluorine-free R134a compressors, parts and components have passed relevant safety certifications, and they are safe and reliable.
4. They have ice full display, water deficiency display, overcooling protection display and malfunction warning display etc. for shutdown protection. The stop automatically in case of ice full or water deficiency and start automatically when power or water supply is resumed.
5. The ice made is small shaped, amorphous granular flake chipped ice, which can infiltrate into narrow space, featuring fast cooling speed, good ice bathing effect. It is specially designed for laboratories.
6. There are power switch and function indicators deployed in the front with detailed instruction. it is intuitive and easy to use. Various safety performance indicators have passed electrical tests. they are safe and reliable.



Ice making capacity (kg)	20	30	50	70	85	100	120	150	200	250	300
Ice storage capacity (kg)	10	10	15	25	25	40	40	40	60	60	150
Input current (W)	280	180	380	460	480	520	550	680	805	1370	1360
Ambient temperature	10~25°C										
Water temperature	10°C										
Power supply	AC220V+ 10%,50/60HZ:110V+ 10%,60HZ Air cooling										
Refrigeration type	Air cooling										
Tank shell	Plastic										
Compressor/ Refrigerant	CFC- free/R134a										
Standard accessories	Water inlet pipe*1, Drainage pipe*1, ice spoon*1										
Optional accessories	Filter (water Pressure needs to be within 1.5-3KG/cm2)										



TAI 807 Laboratory Refrigerator

A laboratory refrigerator is a specialized cooling device used to store chemicals, biological samples, reagents, and other temperature-sensitive materials under controlled conditions. It maintains a stable low temperature to preserve sample integrity, prevent contamination, and slow down chemical or biological degradation. Unlike domestic refrigerators, laboratory refrigerators are designed to meet safety standards and provide precise temperature control required in scientific and medical laboratories. They are widely used in research laboratories, hospitals, pharmaceutical facilities, and educational institutions.

- Double walled with PUF insulation.
- SS 304 Interior & Exterior either SS 304 or Mild Steel.
- Stainless Steel trays.
- Full-length inner glass door with magnetic gasket.
- Forced air circulation for uniform temperature.
- PU wheels for easy movement.
- CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil & condenser.
- Complete Operations driven through 10T-enabled Controller with data logging capacity of upto 1000 readings.
- High speed Ethernet based communication.
- All operations through a single 7 Color Touch Screen Display.
- High-quality PT-100 Temperature sensor.
- Safety devices: Low temperature cut-off settable thermostats.
- Audio/Visual alarms for deviations.

MODEL	CAPACITY		No. of Trays
	CuFt.	Liter	
TAI-807-A	7	200	3
TAI-807-B	16	430	4
TAI-807-C	26	735	5
TAI-807-D	34	1000	5
TAI-807-E	54	1500	10
TAI-807-F	71	2000	10

SPECIFICATION

- TEMPERATURE RANGE : 2°C to 8°C
- TEMPERATURE ACCURACY : $\pm 0.5^{\circ}\text{C}$
- TEMPERATURE UNIFORMITY : $\pm 1^{\circ}\text{C}$

OPTIONAL

- A Stand by Cooling System with auto switch over (430 litre & above)
- B HMI Control System
- C Thermal Printer
- D USB Port
- E Construction : All SS 304





TAI 808 Blood Bank Refrigerator

A blood bank refrigerator is a specialized medical refrigeration unit designed for the safe storage of whole blood and blood components at controlled temperatures. It maintains a consistent temperature, typically between 2 °C and 6 °C, to preserve the quality, safety, and viability of stored blood. Blood bank refrigerators are equipped with precise temperature controls, alarms, and monitoring systems to ensure compliance with medical and regulatory standards. They are essential equipment in hospitals, blood banks, and transfusion centers to support safe and effective blood transfusion services.

TECHINCAL DETAIL:

- **Interior construction:** High grade stainless steel of SS-304 ensure greater stability and life.
- **Outer body:** Made of High grade CRCA/GI steel and coated with bacteria resistant film.
- **Door:** Made of Powder coated CRCA/GI steel. High quality neoprene rubber gaskets used for air tight fittings and full glass window for observation without disturbing
- **Locking systems:** Smart locking systems provided for security and safety purpose.
- **Cooling:** Used ISI marked cooling compressor of totally CFC free.
- **Illumination:** Our blood bank Refrigerators are door operated illumination system comprising of fluorescent light.
- **Temperature Range:** 2 °C to 6 °C with suitable adjustable limits.
- **Temperature control:** The temperature inside blood bank refrigerator controlled by programmable microprocessor based temperature controller cum indicator.
- **Temperature accuracy:** ± 0.5 or better.
- **Audio visual Temperature Alarm:** For protection during temperature fluctuation audio visual alarm is provided in blood bank refrigerator.

SALIENT FEATURE

- Microprocessor based PID digital Temperature controller
- LCD/LED display for digital Temperature indication
- Audio and visual alarm for low/high temperature, compressor on, power failure
- Corrosion free exterior and interior
- Designed for long storage of blood
- Auto defrost mechanism to prevent frost formation
- Environmental friendly CFC free cooling
- 70 mm thick polyurethane puff/glass wool insulation
- Low maintenance
- Easily movable with caster wheel
- Automatic internal lighting illuminates when opening the door

OPTIONAL

- A HMI Control System
- B Thermal Printer
- C USB Port



Inner Dimension in mm	530x410x850	550x510x1050	650x630x1080	670x650x1160	720x700x1250	820x780x1510
Outer Dimension in mm	680x610x1500	700x710x1700	800x830x1690	820x850x1820	870x900x1920	970x980x2180
No. of Drawers	2	3	4	4	5	5
Approx Capacity (Liter)	200	350	450	550	650	1000

TAI 809 Laboratory Incubators (Bacteriological)

A Laboratory incubator is an essential laboratory instrument used to provide controlled environmental conditions for the growth and maintenance of microorganisms. It maintains a constant and suitable temperature, allowing bacteria and other microbes to grow under optimal conditions for observation and experimentation. Bacteriological incubators are commonly used in microbiology laboratories, hospitals, research centers, and educational institutions. By ensuring accurate temperature regulation, the incubator supports reliable experimental results and safe microbial culture handling.

KEY FEATURES

- Accurate Temperature Control: Microprocessor-based PID controller ensures stable and precise temperature regulation.
- Wide Temperature Range: Ambient +5°C to 70°C (customizable options available).
- Uniform Heat Distribution: Forced air circulation system maintains consistent temperature throughout the chamber.
- Digital Display & Controls: Easy-to-read LED/LCD display with user-friendly interface.
- Durable Construction: Double-walled chamber with high-grade stainless steel interior and powder-coated exterior.
- Safety Features: Over-temperature protection, alarm system, and auto shut-off.

TECHINCAL DETAIL:

- Double walled with Rockwool insulation
- SS 304 Interior & Exterior either SS 304 or Mild Steel
- Mesh type Stainless Steel trays
- Forced air circulation for uniform temperature
- PU wheels for easy movement
- SS tubular heaters
- Ramp & soak facility
- High quality PT-100 Temperature Sensor
- Safety Device: High Temperature cut-off settable thermostats
- Audio/Visual alarms for deviations
- Temperature Range: Ambient +5°C to 70°C
- Accuracy: $\pm 0.5^{\circ}\text{C}$
- Uniformity: $\pm 1^{\circ}\text{C}$
- Power Supply: 220-240V, 50/60 Hz
- Insulation: High-density PUF insulation



Size Inches	Size mm	Capacity	Shelves
12*12*12	300*300*300	28 L	2
14*14*14	350*350*350	45 L	2
16*16*16	400*400*400	65 L	2
18*18*18	450*450*450	95 L	2
24*24*24	600*600*600	224 L	3
36*24*18	900*600*450	252 L	3
36*24*24	900*600*600	336 L	3
36*36*36	900*900*900	720 L	7

TAI-810 Hot Air Oven

Hot Air Oven is a high-performance laboratory sterilization and drying equipment, precisely engineered to deliver uniform temperature control, operational safety, and long-term reliability. It operates on the principle of forced hot air circulation, ensuring efficient moisture removal and effective sterilization of laboratory glassware, instruments, and heat-resistant materials.

Designed with advanced temperature control, precision timing, and integrated safety systems, Hot Air Oven provides **consistent, repeatable, and validated results**, making it an essential solution for research laboratories, pharmaceutical units, healthcare facilities, and industrial applications where contamination-free processing is critical.

CONSTRUCTION DETAILS

- Inner Chamber: SS 304 stainless steel
- Outer Body: GI powder-coated mild steel (optional Stainless- steel SS304)
- Robust Double-Walled Construction for enhanced insulation and energy efficiency
- Insulation: High-density glass wool for minimal heat loss
- Door: Fully insulated solid door with heavy-duty locking clamp
With Heat-resistant synthetic rubber gasket
- Uniform Heat Distribution through motor-driven forced air circulation
- High Thermal Stability for consistent and repeatable sterilization cycles
- Removable Stainless-Steel Wire-Mesh Shelves for flexible loading
- Low Noise Operation with aerodynamically designed airflow
- Power Supply: 220-230 V AC, Single Phase



TECHNICAL PARAMETERS

- **Controller:** Feather- touch microprocessor - based controller
- **Display:** Dual SV & PV digital display
- **Temperature Sensor :** PT 100 Platinum Resistance Thermometer
- **Air Circulation Fan :** Motor - driven blower assembly
- **Airflow Pattern:** Horizontal aerodynamic circulation
- **Safety System:** Independent over - temperature cut-off
- **3 heater Elements :** Bottom,LHS & RHS
- **Temperature Range:** Ambient +5°C to 250°C (Optional up to 350°C)
- **Temperature Accuracy:** ±1°C
- **Temperature Uniformity / Variation:** ±5°C

OPTIONAL

- A HMI Control System
- B Thermal Printer
- C USB Port
- D Construction : All SS 304

Size inches	Size mm	capacity	shelves
12x12x12	300x300x300	28	2
14x14x14	350x350x350	45	2
16x16x16	400x400x400	65	2
18x18x18	450x450x450	95	2
24x24x24	600x600x600	224	3
36x24x18	900x600x450	252	3
36x24x24	900x600x600	336	3
36x36x36	900x900x900	720	3

TAI 811 Freezer Dryer (LYOPHILIZER)

A Lyophilizer, also known as a Freezer Dryer, is a laboratory instrument used to preserve biological materials, pharmaceuticals, and chemical substances by removing water through the process of sublimation. In this method, the material is first frozen and then dried under reduced pressure, allowing ice to convert directly into vapor without passing through the liquid phase. Lyophilization helps maintain the structure, activity, and stability of heat-sensitive substances, making the lyophilizer an essential tool in research laboratories, pharmaceutical industries, and medical applications.

FEATURES

3 to 15 Liters ice capacities	-40°C or -80 temperature
CFC refrigeration system	Precise vacuum control
Corrosion resistant construction	Audio visual alarm optional
Digital PID controller	Simple to install and operate
Wide range of accessories are available	Single or two stages cooling system
Front Loading (Tray Type)	Top Loading (Vacuum Prove)



SPECIFICATION

Model	TAI-LY-811-3	TAI-LY-811-5	TAI-LY-811-8	TAI-LY-811-10	TAI-LY-811-15
Max. ice capacity	3L	5L	8L	10L	15L
Ice condensor performance	2L / 24Hr	3.5L / 24Hr	5.5L / 24Hr	7.5L / 24Hr	10L / 24Hr
Tray	2	2	3	4	5
Cold trap temperature	-40°C or below (-80°C Optional)				
Temperature Sensor	PT-100				
Controls	Refrigeration ON/OFF Vacuum ON/OFF				
Controller	PID controller / PLC+HMI Optional				
Refrigeration System	HCFC / CFC Free, -40°C (-86°C Optional)				
Compressor	(Hermetically Sealed)				
Defrost	Defrost Hot Gas				
Pressure Control	Automatic or Manual				
Drain connection	Side mounted				
MOC	Exterior - Powder coated, MS Exterior top-SS 304, Drying chamber - SS 304 or SS 316, Cold trip chamber- SS 304 or SS 316, Lids-Acrylic				

TAI 812 Stability Chamber

A Stability Chamber is a controlled environmental chamber designed to provide precise temperature, humidity, and sometimes light conditions for testing the stability of products over time. It is widely used in pharmaceutical, food, cosmetic, and chemical industries to evaluate how products respond to various environmental conditions and to determine their shelf life, efficacy, and safety. Stability chambers ensure accurate and reproducible results by maintaining uniform conditions, making them essential tools for quality control, research, and regulatory compliance.

- Double walled with PUF insulation.
 - SS 304 Interior & Exterior either SS 304 or Mild Steel
 - Stainless Steel trays
 - Full-length inner glass door & metal door with gasket & lock on the outside
 - Internal LED lights
 - Forced air circulation for uniform temperature
 - PU wheels for easy movement
 - U-shaped SS tubular heaters
 - Cooling achieved by a thermoelectric module based on the principle of Peltier Technology
 - Complete Operations driven through PLC with data logging capacity upto 1000 readings
 - High speed Ethernet based communication
 - All operations through a single 7 Color Touch Screen
 - High quality imported make T/Rh combo sensor with 4-20 mA output
 - Safety devices: Low & high temperature cut-off settable thermostats
 - Audio/Visual alarms for deviations
- Power Supply:** 230 volts 50 Hz main supply. Also available with 60 Hz Cycle.

MODEL	CAPACITY		No. of Trays
	CuFt.	Liter	
TAI-812-16	16	430	4
TAI-812-26	26	735	5
TAI-812-34	34	1000	5
TAI-812-54	54	1500	10
TAI-812-71	71	2000	10

SPECIFICATION

- TEMPERATURE RANGE : 20 to 60 Deg C
- TEMPERATURE ACCURACY : ± 5 Deg C
- TEMPERATURE UNIFORMITY : ± 1 Deg C
- HUMIDITY RANGE : 40% Rh to 95% Rh
- HUMIDITY ACCURACY : ± 2 Rh
- HUMIDITY UNIFORMITY : ± 3 Rh

OPTIONAL

- A HMI Control System
- B Complies with 21 CFR
- C Thermal Printer
- D USB Port
- E Construction : All SS 304



TAI 813 Plant Growth Chamber

The Plant Growth Chamber (PG-Series) is specially designed for advanced botanical and agricultural research applications, including plant growth studies, plant pathology, plant tissue culture, and genetic research. Engineered with a robust and modern design, this chamber meets the challenging requirements of controlled environmental testing in research laboratories, agricultural institutes, and quality control facilities. It provides precise control over temperature, humidity, and illumination, ensuring accurate and repeatable experimental results. The chamber is environmentally friendly, weather resistant, and constructed using corrosion-free materials. High-quality insulation ensures maximum thermal efficiency and long operational life.

CONSTRUCTION

- Inner chamber made of thick-gauge stainless steel (SS-304)
- Exterior body of corrosion-resistant powdercoated GI sheet
- 70 mm high-density PUF insulation for thermal efficiency
- Laser-welded construction for enhanced durability.
- Double-door design with an inner transparent viewing door and an outer insulated door with easy-lock latches ensures clear observation while maintaining chamber stability during access.
- Capacitive humidity sensors for precise regulation
- Stainless steel humidity boiler tank with immersion heater
- Heavy-duty caster wheels with brakes enable easy mobility and secure positioning of the unit.”
- Automatic water filling system
- Power Supply 220 V, 50 Hz



CONTROL SYSTEM

- Temperature Range
- Lights OFF: 5°C-60°C
- Lights ON: 10°C-60°C
- Temperature Accuracy $\pm 1\%$
- Humidity Range 50%-90% RH
- Humidity Accuracy $\pm 3\%$
- Controller Digital PID with SV & PV
- Illumination 2-side / 3-side LED
- Digital Timer
- Shelves SS / Chrome Plated (Adjustable)
- Safety Audio, Door Open & visual alarm

OPTIONAL

- A HMI Control System
- B Complies with 21 CFR
- C Thermal Printer
- D USB Port
- E Construction : All SS 304

MODEL	CAPACITY		No. of Trays
	CuFt.	Liter	
TAI-813-16	16	430	4
TAI-813-26	26	735	5
TAI-813-34	34	1000	5
TAI-813-54	54	1500	10
TAI-813-71	71	2000	10



TAI - 814 Humidity Chamber

The Thymol Humidity Chamber is a precision-engineered environmental testing system designed to accurately simulate controlled temperature and relative humidity conditions for testing, conditioning, and evaluation of products and materials under defined climatic environments. It delivers stable and uniform temperature-humidity control to effectively assess the impact of heat and moisture on samples over a specified duration. + Thymol Humidity Chambers are widely used in pharmaceutical, biotechnology, electronics, food, packaging, and research laboratories for stability studies, quality control, and product validation. Built with reliable components and precise control systems, the chamber ensures repeatable and consistent test conditions, making it suitable for both routine testing and long-term stability applications.

CONSTRUCTION

- **Inner Chamber:** Made of high-grade SS 304 stainless steel sheet for corrosion resistance and long service life.
- **Outer Body:** Fabricated from high-quality galvanized steel sheet, finished with long-lasting stove-enamel coating for durability and aesthetic appeal.
- **Insulation:** 100 mm thick high-density PUF (polyurethane foam) insulation ensures excellent thermal stability and energy efficiency.
- Galvanized steel door fitted with a neoprene rubber gasket for airtight sealing with Secure locking mechanism for operational safety.
- Integrated fluorescent illumination system with diffused light panels positioned on both sides of the chamber, suitable for photoperiodic testing and experiments.
- Refrigeration Unit: CFC-free cooling system using ISI-marked compressors ensuring reliable and efficient performance.
- Adjustable SS 304 stainless-steel shelves for flexible sample placement.
- Heavy-duty movable and lockable castor wheels for easy positioning and stability
- Power Supply: Operates on 220-230 V AC, single phase.

TECHNICAL PARAMETER

Temperature range - 5°C to 60°C

Humidity range- 5% above ambient from 40% to 95%RH at cool temperatures

Temperature Accuracy - ±1°C or better

Humidity Accuracy- ±3% RH

MODEL	CAPACITY	NO. OF SHELVES	VOLUME
TAI-814-4	112 liters	2	4 Cu. ft
TAI-814-6	171 liters	2	6 Cu. ft
TAI-814-10	285 liters	3	10 Cu. ft
TAI-814-12	340 liters	4	12 Cu. ft
TAI-814-16	450 liters	5	16 Cu. ft
TAI-814-20	560 liters	6	20 Cu. ft
TAI-814-28	800 liters	6	28 Cu. ft
TAI-814-35	1000 liters	7	35 Cu. ft

SILENT FEATURES

- Microprocessor-Based Digital Controller with precise temperature regulation
- PT-100 Temperature Sensor for accurate and reliable sensing
- LCD / LED Display for clear digital indication of temperature and humidity
- Access Ports: Two side ports and one rear port provided for easy calibration and validation
- Audio & Visual Alarms
- Low Water Level Cut-Off system
- Forced Air Circulation Fan
- Steam Generation Tank

OPTIONAL

- A HMI Control System
- B Complies with 21 CFR
- C Thermal Printer
- D USB Port
- E Construction : All SS 304





THYMOL

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