

Tempo

Controlled Temperature Solution

- Pharmaceuticals & Biotech
- Cement
- Food & Beverages
- Dairy
- Chemicals
- Energy & Power
- Petroleum & Oil
- Paint & Coating
- Rubber & Rubber Chemicals
- Iron & Steel
- Automobile
- Environment & Water Treatment
- Pulp & Paper
- Plastics & Polymers
- Fertilizers
- Cosmetics
- Health Care & Hospitals
- Metal Industries

LABORATORY, SCIENTIFIC & INDUSTRIAL EQUIPMENTS



**Controlled
Temperature
solution**



ABOUT US

TEMPO Instruments Pvt. Ltd. is an ISO 9001:2008 certified manufacturer of high quality and innovative Laboratory & Scientific Equipments to the global market. Major product lines include Ovens, Furnaces, incubators, Stability Chambers, Lab Refrigerators, Deep Freezers, Constant / Cryo Bath, Hot Plates, Soxhlet Extraction Heaters, Water Bath etc. Incorporated in 2008, Tempo utilizes manufacturing expertise to aggressively pursue new product opportunities that add value to our customer's portfolio. TEMPO markets a complete line of products under TEMPO brand, which complement our OEM manufacturing capacities.

Over the past years TEMPO has worked with industry leaders to design solutions for production and research needs across the entire constant temperature / environment spectrum. TEMPO has been designing and manufacturing equipment for the Pharmaceutical, Research

TEMPO's reputation has been built on innovation, high quality, and long term partnering.

TEMPO focuses to provide economical equipments to Research institutions, Universities & colleges & manufacturers in industries such as electronics, pharmaceuticals etc.

TEMPO has also established its manufacturing facility at MIRA ROAD, Dist. Thane. The infrastructure is facilitated with sophisticated fabrication, Electrical & Wiring Department, Refrigeration Department, Quality control with qualified & trained personnel.

TEMPO's design team is led by veterans able to capitalize on 20 years of industry knowledge. The breadth of line and depth of product configuration available in our current portfolio serves as a benchmark for this teams accomplishments and creativity.

We have the ability to operate twenty-four hours per day with our staff of highly skilled and long-term manufacturing personnel. Our highly skilled work force consistently and rigorously tests their work.

The employee of TEMPO understands the demanding environment our products face. They are committed to delivering the highest quality products and service possible. Even so, every product undergoes a final quality inspection before shipment and records are kept on every serial number, so each associate can be accountable for their work.



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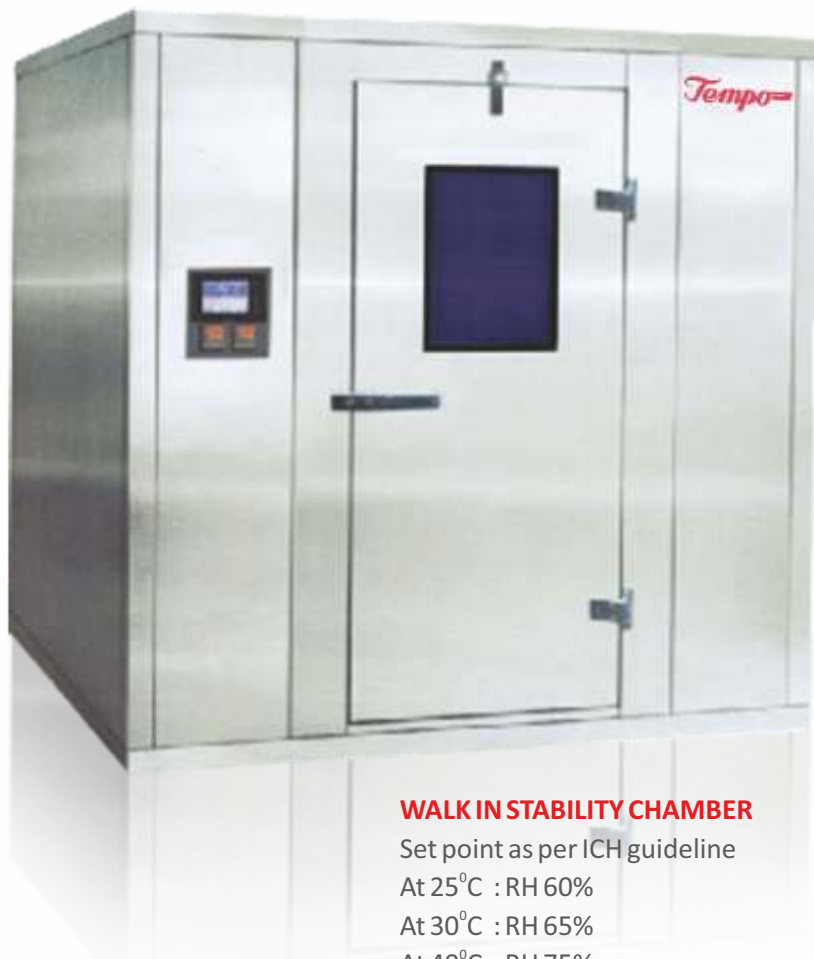
WALK IN CHAMBER

When your testing requires Walk-in Rooms, choose “Tempo”, Controlled Temperature Solution. Our test rooms feature automated process control, energy efficiency and a vast range of features and options. Every “Tempo” environmental room features requirement that reliably produces required conditions, structural integrity that keeps the room working properly through years of demanding tests cycles and measuring/ monitoring equipment that precisely records all test data.

WALK IN STABILITY CHAMBER

Temp. Range : 20°C to 60°C
 Temp. Accuracy : $\pm 0.5^\circ\text{C}$
 Temp. Uniformity : $\pm 2^\circ\text{C}$

Humidity Range : 40% RH to 95% RH
 Humidity Accuracy : $\pm 2\%$ RH
 Humidity Uniformity : $\pm 5\%$ RH



WALK IN STABILITY CHAMBER

Set point as per ICH guideline
 At 25°C : RH 60%
 At 30°C : RH 65%
 At 40°C : RH 75%
 At 30°C : RH 75%

WALK IN BOD INCUBATOR

Temp. Range : 10°C to 60°C
 Temp. Accuracy : $\pm 0.5^\circ\text{C}$
 Temp. Uniformity : $\pm 2^\circ\text{C}$

WALK IN LAB REFRIGERATOR

Temp. Range : 2°C to 8°C
 Temp. Accuracy : $\pm 0.5^\circ\text{C}$
 Temp. Uniformity : $\pm 2^\circ\text{C}$

WALK IN INCUBATOR

Temp. Range : 5°C above ambient to 60°C
 Temp. Accuracy : $\pm 0.5^\circ\text{C}$
 Temp. Uniformity : $\pm 2^\circ\text{C}$

Capacity Litre	Inner Size H x W x D in cm	Tray Size	No. of Tray
5400	200 x 136 x 200	87 x 30	24
6400	240 x 136 x 200	87 x 30	32
8000	200 x 200 x 200	87 x 60	24
9600	240 x 200 x 200	87 x 60	32
15000	240 x 250 x 250	72 x 80	48
18000	240 x 250 x 300	90 x 80	48

Specification

Walk in chambers are designed for simulating, monitoring & control of environmental conditions like temperature & humidity. All these chambers are double walled & modular in construction, easy to assemble at site. They are available in standard sizes & can also be tailor made to suit specific requirements. Use of intelligent control systems to enhances the performance. These chambers can be provided with standby refrigeration & standby humidity systems for uninterrupted functioning.

Controlling System :

- Walk in Chamber manufactured with PLC & 7” touch screen color HMI.
- High speed Ethernet based communication.
- Multi sensor scanner will inbuilt in PLC.
- Auto changeover of sensor in case main sensor fails.
- Auto changeover of Refrigeration & Humidity System in case main system fails.

Safety Features :

- Inbuilt Safety for temperature with Overshoot & Undershoot with alarm.
- Inbuilt Safety for Humidity with Overshoot & Undershoot with alarm.
- In case of low water level in the boiler tank float switch will cutoff wet heater supply with audio & visual alarm.
- Safety thermostat will cut off the mains through PLC in case of overshoot in the set temperature conditions.
- Compressor time delay to safe guard the compressor.
- In built over load protector provided for hermetically sealed compressor.
- Power failure alarm.

Humidity System :

- Non-condensing type steam injection system with water level switch. Humidity System provided with a low pressure Boiler tank & Reservoir tank dully Argon welded with Float valve. Low water level cut off switch ensures sufficient water level in Boiler tank. DM Water is preferred.
- In Built Stand by Humidity system with auto changes over facility.

Refrigeration System :

- By means of CFC Free hermitically sealed Emerson Copland make compressor for better cooling with ECO friendly refrigerant.
- The cooling system is made up of split type so as one can place the compressor coupled with condenser unit in well – ventilated area and avoid hot air throw in the Stability room.
- In built Stand by Refrigeration system with auto change over facility.



Automate with

SOFLINC

PLC Features

- Auto tune logic controlling of Temperature & Humidity.
- Multiple Scanner system.
- Auto changeover of Refrigeration system.
- Auto changeover of Humidity system.
- Auto changeover of Temperature & Humidity sensor.
- Safety system to protect overshoot & undershoot of Temperature & Humidity.
- Software communication through Ethernet (Lan Connectivity).
- 7 inch Color Touch screen graphic LCD display.
- Alarms & Events recording.
- Online Printer Connectivity.
- Audit Report generated with all activities Performed on HMI Display.
- Password protected Set value change.
- Multiple User Creation With 3 User Groups Admin/Supervisor/Users.
- All settings are password protected.
- Create up to 50 users with different password.
- PLC based password protected Door Access system



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21 - CFR Part 11 Compliance

- Ethernet based Communication Software with PLC.
- Multiple Instrument connectivity.
- Logger report in Tabular & Graph format.
- Scanner report in Tabular & Graph format.
- Audit report for HMI & Software activates.
- Alarm & Event Report.
- Export all report in PDF format only.
- All report views as per user required duration.
- Set point change through software.
- Multiple User Creation With 3 User Groups Admin/Supervisor/Users.
- Alpha Numeric Password with min 8 character.
- Auto Password Expiry.
- User account locking in case of 3 unsuccessful attempt(Wrong Password)
- Auto Log out if no activity done.
- Auto & manual backup facility.
- Backup & Restore facility.
- MKT calculations.
- Printing on Local or network printer.



SMS / Email Alerts

- Temperature High & Low
- Humidity High & Low
- Power Failure
- Thermostat cut off.
- Refrigeration System faulty
- Humidity System faulty
- Low water level



Stability Chamber

Whether your testing is for R&D, clinical trials or ongoing stability, TEMPO stability chamber provide a stable temperature & humidity condition environment for worry-free operations with a control system that is easy to operate.

Technical Data

Temp. Range	: 20°C to 60°C
Temp. Accuracy	: $\pm 0.2^\circ\text{C}$
Temp. Uniformity	: $\pm 1^\circ\text{C}$
Humidity Range	: 40% RH to 90%RH
Humidity Accuracy	: $\pm 2\%$ RH
Humidity Uniformity	: $\pm 3\%$ RH

Capacity (Liters) : 100, 170, 200, 285, 325, 400, 600, 800, 1000, 1500, 2000



Photostability Chamber

“Tempo” make Photostability Chamber are made of double walled construction with backside triple walled. Fluorescent light & UV light fitted on top side on chamber. Full view inner tough glass door & front door with magnetic gasket & lock. Motorized blower is fitted on the back side for uniform temperature & humidity. 3" thick PUF insulation to ensure stable temperature & humidity. The unit provided with adjustable stainless steel rod trays. The equipment is mounted on caster wheel for easy movement.

Technical Data

Temp. Range	: 20°C to 50°C
Temp. Accuracy	: $\pm 0.2^\circ\text{C}$
Temp. Uniformity	: $\pm 1^\circ\text{C}$
Humidity Range	: 40% RH to 90%RH
Humidity Accuracy	: $\pm 2\%$ RH
Humidity Uniformity	: $\pm 3\%$ RH
Supply	: 230V, AC

Capacity (Liters) : 120, 170, 200, 285, 325



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BOD Incubator

"Tempo" make BOD incubators are manufactures to comply requirement of industries. Specifically designed for long term and stable continuous operation ideal for Pharmaceuticals, Bio technology and Research institutions for storage and incubation studies. Incubators to provide condition for optimal growth of Microbiology cultures, Biological labs for preservation of vaccines, Serological and compliment fixation tests, General low temperature uses in physical / chemical labs, R & D Center, Quality Control Laboratory, General laboratories of industries, Pharmaceuticals, Chemicals, Petrochemicals, Oil & Gas, Cement, Pulp and Paper, Fertilizers, Defence, Railways, Paint etc.

Technical Data

Temp. Range	: 5°C to 60°C
Temp. Accuracy	: $\pm 0.5^\circ\text{C}$
Temp. Uniformity	: $\pm 2^\circ\text{C}$
Supply	: 230V, AC

Capacity (Liters) : 100, 170, 200, 285, 325, 400, 600, 800, 1000, 1500, 2000



Bacteriological Incubator

"Tempo" make Bacteriological Incubator are specifically designed for Research laboratories, Engineering Lab, Pharmaceutical Lab, Cosmetic Industry, Chemical Lab, Clinical Lab, Microbiological Determination, Pharmaceutical Stability Assays, Food Processing, QC

Technical Data

Temp. Range	: 5°C above ambient to 60°C
Temp. Accuracy	: $\pm 0.2^\circ\text{C}$
Temp. Uniformity	: $\pm 1^\circ\text{C}$
Supply	: 230V, AC

Capacity (Liters) : 100, 170, 200, 285, 325, 400, 600, 800, 1000, 1500, 2000

Laboratory Refrigerator

“Tempo” make Lab Refrigerators are stable and reliable with refrigerated environment for exact laboratory requirement. Lab Refrigerators are for maintaining storage conditions of a product, exposure to low temperature applications, where the temperature environment for clinical research, pharmaceutical and industrial use. Adjustable shelves and wide range set point for varying laboratory applications including chromatography and pharmaceutical storage. Application includes refrigerated storage of Vaccines, Reagents, Cultures, Medicines and Blood Samples.

Technical Data

Temp. Range	: 2°C to 8°C
Temp. Accuracy	: $\pm 0.5^\circ\text{C}$
Temp. Uniformity	: $\pm 2^\circ\text{C}$
Supply	: 230V, AC

Capacity (Liters) : 100, 170, 200, 285, 325, 400, 600, 800, 1000, 1500, 2000



Glass Door Lab Refrigerator

“Tempo” make Lab Refrigerators are stable and reliable with refrigerated environment for exact laboratory requirement. Lab Refrigerators are for maintaining storage conditions of a product, exposure to low temperature applications, where the temperature environment for clinical research, pharmaceutical and industrial use. Adjustable shelves and wide range set point for varying laboratory applications including chromatography and pharmaceutical storage. Application includes refrigerated storage of Vaccines, Reagents, Cultures, Medicines and Blood Samples.

Technical Data

Temp. Range	: 2°C to 8°C
Temp. Accuracy	: $\pm 0.5^\circ\text{C}$
Temp. Uniformity	: $\pm 2^\circ\text{C}$
Supply	: 230V, AC

Capacity (Liters) : 100, 170, 200, 285, 325, 400, 600, 800, 1000, 1500, 2000



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Deep Freezer

“Tempo” make Deep Freezers are designed to provide an ideal freezing environment for advanced medical and industrial applications and also suitable for Research Laboratories, Blood Bank, Biological use, includes preservation of Plasma, blood components, vaccines etc.

It stores with excellent safety features, easy operability. Environment friendly, High freezing power, safe, Secure and easy to access unit to store your sample.

Technical Data

Temp. Range	: -20°C / -40°C
Temp. Accuracy	: $\pm 3^{\circ}\text{C}$
Supply	: 230V, AC

Capacity (Liters) : 100, 170, 200, 285, 325, 400, 500



Dual Chamber

“Tempo” is a having strong Design & Development Department to support tailor made equipment.

Many customer are using Tempo make designed Dual Chamber according to customers requirement and available area in Lab facility.

Model available in many Variants or Combination so as to accommodate in limited area facility.

Available in any combinations of :

- Lab Refrigerator
- BOD Incubator
- Bacteriological Incubator
- Deep Freezer
- Stability Chamber Etc.

FEATURES



Touch Screen HMI



PLC based Control



Ethernet communication



Software
(21CFR Part 11 compliance)



**Standby Refrigeration &
Humidity System**



Data logger/Scanner



Safety Alarms



Door Access System



Mobile Alert System



E- mail Alert

Chambers Available with Following Sizes

Capacity (Liters)	Inner Size (H x W x D) in cm	No. of Tray
100	50 x 50 x 40	2
170	70 x 60 x 40	2
200	60 x 60 x 60	2
285	80 x 60 x 60	3
325	90 x 60 x 60	4
400	110 x 60 x 60	4
600	125 x 70 x 70	4
800	125 x 80 x 80	5
1000	157 x 80 x 80	5
1500 (Double Door)	146 x 150 x 69	10
2000 (Double Door)	146 x 150 x 92	10

HEATING EQUIPMENT OVENS

Gaseous Medium Heaters



Natural Convection Oven TI 125 Series

Natural Convection ovens are ideal for sterilization, drying, and thermal storage tasks which do not require high drying rates or special time parameters. These ovens are made of double walled construction. The unit is insulated with 3" thick high grade glass wool insulation. Single door is fitted on heavy duty hinges. The unit is provided user friendly adjustable stainless steel rod trays.

Technical Data

Temp. Range : 5°C above ambient to 250°C
 Temp. Accuracy : ± 0.5°C
 Supply : 230V, AC, 50Hz

Capacity (Liters) : 43, 91, 122, 216



Laboratory Drying Oven TI 126 Series

Forced air draft provided by means of Blower fitted at the bottom of the oven (There is no re-circulation of air). These ovens are suitable for drying a range of items such as glassware and components and any general purpose warming applications. Ovens are made of double walled construction. The unit is insulated with 3" thick high grade glass wool insulation. Single door is fitted on heavy duty hinges. The unit is provided user friendly adjustable stainless steel rod trays.

Technical Data

Temp. Range : 5°C above ambient to 250°C
 Temp. Accuracy : ± 0.5°C
 Supply : 230V, AC, 50Hz

Capacity (Liters) : 43, 91, 122, 216





Precision Oven TI 128 Series

“Tempo” make Lab Precision Ovens are with forced air circulation provided by means of motorized blower fitted on the oven for re-circulation of air ensures a homogenous hot air mixture and an exact temperature profile. Ovens are made of triple walled construction. The unit is insulated with 3" high grade glass wool. Single door fitted on heavy hinges. The Unit is provided with user friendly adjustable stainless steel rod mesh trays.

Technical Data

Temp. Range	: 5°C above ambient to 250°C
Temp. Accuracy	: $\pm 0.2^\circ\text{C}$
Temp. Uniformity	: $\pm 5^\circ\text{C}$
Supply	: 230V, AC

Capacity (Liters) : 43, 91, 122, 216, 325, 400, 600, 800, 1000



High Temperature Oven TI 128HT Series

“Tempo” high temperature ovens are manufactured in standard chamber sizes with operating temperatures 400°C. Their robust triple wall construction incorporates heavy duty hinges, door catches systems. Motorized blower with V-belt fitted on top side of chamber for re-circulation of air to maintain uniformity of temperature inside the chamber. Unique air-flow system which ensures quick recovery after door opening.

“Tempo” HT Ovens are the more sophisticated control systems and data recording that is required for different applications. The unit is provided with user friendly adjustable SS wire mesh trays.

Technical Data

Temp. Range	: 50°C to 400°C
Temp. Accuracy	: $\pm 0.5^\circ\text{C}$
Temp. Uniformity	: $\pm 10^\circ\text{C}$
Supply	: 1 ph 230V, 3ph 440V, 50 Hz AC

Capacity (Liters) : 43, 91, 122, 216, 325

Laboratory Precision Oven TI 130 Series

"Tempo" make Lab Precision Oven are with forced air circulation provided by means of motorized blower fitted on the oven for re-circulation of air ensures a homogenous hot air mixture and an exact temperature profile. Ovens are made of Triple walled construction. The unit is insulated with 3" high grade glass wool. Single door fitted on heavy hinges. The unit is provided with user friendly adjustable stainless steel rod mesh trays.

Technical Data

Temp. Range	:	5°C above ambient to 300°C
Temp. Accuracy	:	± 0.2°C
Temp. Uniformity	:	± 5°C
Supply	:	230V, AC, 50Hz



Glass Window Oven TI 131 Series

"Tempo" make Lab Precision Oven are with forced air circulation provided by means of motorized blower fitted on the oven for re-circulation of air ensures a homogenous hot air mixture and an exact temperature profile. Ovens are made of Triple walled construction. The unit is insulated with 3" high grade glass wool. Single door fitted on heavy hinges. The unit is provided with user friendly adjustable stainless steel rod mesh trays.

Technical Data

Temp. Range	:	5°C above ambient to 250°C
Temp. Accuracy	:	± 0.2°C
Temp. Uniformity	:	± 5°C
Supply	:	230V, AC, 50Hz





7 Cell

19 Cell

Multicell Ageing Oven

“Tempo” make Multicell Ageing Oven suitable for Ageing test of PVC & Rubber as per BS 903 part A 19 method A for rubber. BS 6746(1976) method E for PVC. It confirms to IS 3400 (Part IV) 1978.

Technical Specification

7 cells to 19 cells
 3kW/6kW
 5°C above ambient to 150°C
 ±1°C within the cell
 ±1°C cell to cell temperature variation
 75 mm diameter × 305 mm height
 230V, AC



Vaccum Oven

Circular & Rectangular

“Tempo” make Vacuum Oven are designed & manufactured to comply requirements of industry. It is widely applicable for drying & sterilization in fields of biochemistry, pharmacy, medicine, health, agriculture & scientific research and environment protection. It is designed specially for drying of material which is thermos - sensitive or decomposed and oxidative easily.

Technical Data

Temp. Range : 50°C to 200°C
 Temp. Accuracy : ± 0.2°C
 Supply : 230V, AC
 Vacuum Capacity : Can withstand a vacuum of 760mm of mercury. Supply : 230V, AC.

Tray Drying Oven

"Tempo" is a pioneer in Tray Dryers, with a wide range. Well appreciated for its durability and robust construction, these Tray Dryers are built to various specifications as per the client requirements.

Technical Data

Temp. Range	:	50°C to 150°C
Temp. Accuracy	:	± 0.5°C
Supply	:	1 Ph, 230V, or 3 Ph, 440V, 50Hz, AC
Lading Capacity	:	12, 24, 48 trays



Drum Heater

The base heaters for drums in the vertical position and is suitable for use with type TI - 129 (B & C) drum heaters. The heating power is 1 kw. At 240C AC single phase.

Tempo drum heaters provide an easy, efficient, clean and economical way for the handling of viscous or low melting point solidified materials in drums. Such materials include Asphalt, Bitumen, Fats, Gelatin, Glucose, Grease, Lubricating oils, Paints, Petroleum Jelly, Phenols, Plastics, Sodium Tar, Vanaspati Oil, Varnishes & Waxes etc. Tempo drum heaters are mobile ovens heated by "Tempanel" flexible surface electric heating elements operating at black heat.





Muffle Furnace

“Tempo” make Muffle Furnaces are designed & manufactured tests of soils and aggregates, cement testing, ashing organic and inorganic samples, gravimetric analysis, ignition tests etc.

TI-58 SERIES (Maximum Temperature 930°C)

TECHNICAL DETAILS

Models	Internal size H x W x D in cm	Rating KW	Max cont. temperature
TI - 58A	23 x 10 x 10	1.6	930°C
TI - 58B	30 x 15 x 15	3.3	930°C

TI-58HT SERIES (Maximum Temperature 1200°C)

TECHNICAL DETAILS

Models	Internal size H x W x D in cm	Rating KW	Max cont. temperature
TI - 58HTA	23 x 10 x 10	1.8	1150°C
TI - 58HTB	30 x 15 x 15	3.5	1150°C
TI - 58HTC	30 x 20 x 20	3.5	1150°C
TI - 58HTD	45 x 22.5 x 22.5	7	1150°C



Muffle Furnace With Shell

TI-59HT SERIES (Maximum Temperature 1200°C)

“TEMPO” make Muffle Furnace are designed & manufactured to comply with requirements of Laboratory & Industrial applications. It is used for engineering tests of soils and aggregates, cement testing, ashing organic and inorganic samples, gravimetric analysis, ignition tests, etc.

Technical Specification :

Models	Internal Size D x W x H (cm)	Rating (KW)	Max Continuos temp.
TI-59HTA	23 x 10 x 10	1.8	1150°C
TI-59HTB	30 x 15 x 15	3.5	1150°C
TI-59HTC	30 x 20 x 20	3.5	1150°C
TI-59HTD	45 x 22.5 x 22.5	7	1150°C

High Temperature Furnace

Tempo furnaces for higher temperature applications with short heat up time & resistance to thermal shock. Designed with highest standards for quality for efficient high-temperature use with minimal maintenance. Silicon Carbide element with easy assembly. These furnaces are Ideal for rapid cycling over extended periods.

High Temperature Furnace - Economy Model TI - 60HT Series

Maximum Operating Temperature : 1300°C

Continuous Working Temperature : 1250°C

Models	Internal size H x W x D in cm	Supply
TI – 60 HTA	10 x 10 x 23	1 Phase, 230 Volts
TI – 60 HTB	15 x 15 x 30	1 Phase, 230 Volts
TI – 60 HTC	20 x 20 x 30	1 Phase, 230 Volts

High Temperature Furnace

TI - 61HT Series

Maximum Operating Temperature : 1300°C

Continuous Working Temperature : 1250°C

Models	Internal size H x W x D in cm	Supply
TI – 61 HTA	10 x 10 x 23	1 Phase, 230 Volts
TI – 61 HTB	15 x 15 x 30	1 Phase, 230 Volts
TI – 61 HTC	20 x 20 x 30	1 Phase, 230 Volts
TI – 61 HTC	22.5 x 22.5 x 45	3 Phase, 415 Volts

High Temperature Furnace

TI - 62HT Series

Maximum Operating Temperature : 1450°C

Continuous Working Temperature : 1400°C

Models	Internal size H x W x D in cm	Supply
TI – 62 HTA	10 x 10 x 23	1 Phase, 230 Volts
TI – 62 HTB	15 x 15 x 30	1 Phase, 230 Volts
TI – 62 HTC	20 x 20 x 30	1 Phase, 230 Volts
TI – 62 HTC	22.5 x 22.5 x 45	3 Phase, 415 Volts



WATER BATH



“Tempo” water baths are double wall construction. Supplied with drop on Lid and Rings.

Temperature Range : 5°C above ambient to 95°C
 Temperature Control : Thermostatic / Digital
 Supply : 230 V, Single Phase

Models	7.5cm dia	12.5cm dia
TI – 240	4 holes	1 hole
TI – 241 A	6 holes	-
TI – 241 A	12 holes	-



CONSTANT TEMPERATURE WATER BATH

Temperature Range : 5°C above ambient to 90°C
 Temperature Accuracy : ± 0.5°C.

Models	Capacity Liters	Internal Size L x W x H cm
TI – 601 S/G	14	30 x 30 x 15
TI – 602 S/G	20	45 x 30 x 15
TI – 603 S/G	30	44 x 38 x 18
TI – 604 S/G	40	45 x 30 x 30
TI – 605 S/G	50	45 x 35 x 35



THAWING BATH

“Tempo” Thawing Bath is designed for uniform thawing of fresh frozen plasma (FFP) bags at temp. 37°C. The equipment is equipped with microprocessor based PID temperature controller cum indicator and a water circulating pump.

Model	Capacity Liters	Internal Size L x W x H cm
TI – 631	14	30 x 30 x 15
TI – 632	20	45 x 30 x 15
TI – 633	30	44 x 38 x 18

MBRT WATER BATH

Temp. Range : 5°C above ambient to 98°C.
Supply : 230 V, Single Phase

Models	Capacity Liters	Internal Size L x W x H cm
TI-160A	14	40 x 20 x 18
TI-160B	25	40 x 35 x 18
TI-160C	35	55 x 35 x 18



ULTRASONIC BATH

Temp. Range : 5°C above ambient to 65°C
Frequency Accuracy : 40Khz, +3Khz
Supply : 230 Volt, AC

Models	Capacity Liters	Internal Size L x W x H cm
TI-641	1	15 x 13.5 x 6.5
TI-642	3	24 x 13.5 x 10
TI-643	4.5	30 x 15 x 10
TI-644	6.5	30 x 24 x 10
TI-645	10	30 x 24 x 15
TI-646	20	50 x 30 x 15



CRYO BATH

Temp. Range : 5°C to 90°C
Tem. Accuracy : $\pm 1^\circ\text{C}$
Supply : 230 Volt, AC

Models	Capacity Liters	Internal Size L x W x H cm
TI-611	14	30 x 30 x 15
TI-612	20	45 x 30 x 15
TI-613	30	44 x 38 x 18
TI-614	40	45 x 30 x 30
TI-615	50	45 x 35 x 30



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Cat. No.	Chamber Dimension L x W x D Cms	Rating
TI – 150A	25 x 13 x 13	250 Watt
TI – 150B	25 x 25 x 13	500 Watt
TI – 150C	37 x 25 x 13	1000 Watt

WATER BATH (Serological)

Temperature Range : 5°C above ambient to 60°C
 Temperature Control : Thermostatic / Digital
 Supply : 230 V, Single Phase

Accessories :

Pyramidal Lid
 Kahn Rack of SS to Hold 40 tubes
 PID Temperature controller cum indicator.



SHAKER WATER BATH

Temp. Range : 5°C above ambient to 95°C
 Temp. Accuracy : ± 0.5°C
 Shaking Speed : 40 to 120 RPM
 Speed Indicator : Digital
 Supply : 230 Volt AC

Models	Capacity Liters
TI – 242 A	9 flask of 100ml
TI – 242 B	12 flask of 250ml



LOW TEMPERATURE BATH (-20°C)

Temp. Range : 0°C to -20°C
 Temp. Accuracy : ± 1°C
 Supply : 230 V, Single Phase, 50 Hz.

Models	Capacity Liters	Internal Size L x W x H cm
TI – 621	14	30 x 30 x 15
TI – 622	20	45 x 30 x 15
TI – 623	30	44 x 38 x 18

Laboratory Autoclave

"Tempo" make Laboratory Autoclave are suitable for Pharma & Biotech industries, Food research & Quality assurance labs, Agriculture research, Health care & Diagnostic labs, University, etc

Technical Data :

Temp. Range	: 121°C to 125°C
Pressure Range	: 15 to 22 PSI
Factory Set	: 15 PSI at 121°C
Supply	: 230 Volt, AC, Single Phase, 50Hz



Pedal Free Autoclave

"Tempo" make Laboratory Autoclave are suitable for Pharma & Biotech industries, Quality assurance labs, Agriculture research, Health care & Diagnostic labs, University, etc

Technical Data :

Temp. Range	: 121°C to 125°C
Pressure Range	: 15 to 22 PSI
Factory Set	: 15 PSI at 121°C
Supply	: 230 Volt, AC, Single Phase, 50Hz





Tripple Wall Autoclave

"Tempo" make Laboratory Autoclave are suitable for Pharma & Biotech industries, Quality assurance labs, Agriculture research, Health care & Diagnostic labs, University, etc

Technical Data :

Temp. Range	: 121°C to 125°C
Pressure Range	: 15 to 22 PSI
Factory Set	: 15 PSI at 121°C
Supply	: 230 Volt, AC, Single Phase, 50Hz



Radial Locking Autoclave

"Tempo" make Laboratory Autoclave are suitable for Pharma & Biotech industries, Quality assurance labs, Agriculture research, Health care & Diagnostic labs, University, etc

Technical Data :

Temp. Range	: 121°C to 125°C
Pressure Range	: 15 to 22 PSI
Factory Set	: 15 PSI at 121°C
Supply	: 230 Volt, AC, Single Phase, 50Hz

COD Digester

"Tempo" make COD DIGESTER: - Outer cabinet made of mild steel duly coated. Double wall construction with insulation for minimum heat losses increases the efficiency of the system. Aluminum block with holes (Dimension 40 mm dia x 80 mm depth) is used to hold COD tubes. Aluminum block is heated to maintain temp. up to 180°C.

Technical Data :

Temp. Range	: Above amb. to 180 °C
Resolution	: 1 °C
Supply	: 230V AC, Single Phase, 50Hz



Static Pass Box

Static Pass box Box equipment are made of high grades stainless steel (304 / 316) with international quality standard components including electrically interlocked. This pass box is designed to minimize traffic and contamination entry into the clean room. Enables parts, tools and other work items to be passed to and from the room. This pass box unit acts as an air lock device preventing ambient air from entering, or clean air from exiting the clean room.





Dynamic Pass Box

Dynamic Pass Box equipment are made of powder coated high grades stainless steel (304 / 316) with international quality standard components including electrically interlocked doors and UV light. These dynamic pass box equipment are equipped with pre-filter of 5 micron and box type HEPA Filter of 99.999% to 0.3 micron.



Verical Laminar Air Flow Unit

"Tempo" make laminar flow cabinet is a carefully enclosed bench designed to prevent contamination of semiconductor wafers, biological samples, or any particle sensitive materials. Air is drawn through a pre and HEPA filter and blown in a very smooth, laminar flow downwards. Due to the direction of air flow, the sample is protected from the user.

TECHNICAL DATA

MODELS	WORKING SIZE WXDXH (IN IN FEET)	HEPA FILTER	PRE FILTER	ILLUMINATION (IN WATT)	U.V. LIGHT (IN WATT)
TI-51 A-VLAF	2x 2x 2	1	1	1 x 18	1 x 18
TI-51 B-VLAF	3 x 2 x 2	1	1	1 x 18	1 x 18
TI-51 C-VLAF	4 x 2 x 2	1	1	1 x 18	1 x 18

Leak Test Apparatus

This apparatus is an ideal instrument to check sealing integrity of Blister Packs; Strip Packs; Sachet and Pouch Packs etc. It is also used for checking leaks from Capped Bottles; Induction Sealed Containers; Sealed or Crimped Tubes etc. The Leak Test Apparatus in Stainless Steel body with phenomenal compactness. The instrument is equipped with long lasting vacuum pump, which gives higher level of vacuum in shortest possible time. Die pressed polycarbonate vacuum desiccator sustains vacuum for long time.

Model No.	TI 140 A	TI 140 B
Dessicator Diameter	150mm	300mm
Rating	230V	230V
Vaccume Level	550mmhg	550mmhg
Timer	Digital Timer	Digital Timer
Dessicator	Polycarbonate	Polycarbonate
Vacuume Display	S.S. Vacuum Gauge	S.S. Vacuum Gauge
Vacuum pump	Oil free Diaphragm pump	Oil free Diaphragm pump
Body	S.S.304	S.S.304



Lab Clean Positive Pressure System

“TEMPO” make Lab-Clean is carefully enclosed machine which is unique filter combination filters out air and gas contaminant thus by giving most clean air. Air is drawn throw Prefilter, Carbon filter & HEPA filter and blown clean air in room.

Models	Capacity	Area Covered
TI - 350	LC350CFM	350 sq. feet





Heating Cords

Technical Data

Temp. Range : Maximum Surface Temperature 400°C
 Supply : 230V, AC

Models	Length In Cm	Rating (Watt)
TI - 64 A	750	125 W x 3
TI - 64 B	1500	250 W x 3
TI - 64 C	3000	500 W x 3
TI - 64 D	6000	1000 W x 3



Heating Tapes

Technical Data

Temp. Range : Maximum Surface Temperature 350°C
 Supply : 230V, AC

Models	Length In Cm	Rating (Watt)
TI - 68 A	135 / 125	125 W
TI - 68 B	260 / 250	250 W
TI - 68 C	510 / 500	500 W
TI - 68 D	510 / 500	1000 W



Soxhlet Extraction Heaters

Technical Data

Temp. Range : 400°C
 Supply : 230V, AC
 Soxhlet Flasks Capacity : 100 - 350 ml

Cat. No.	Rating (Watt)	No. Of Heaters
TI - 184 IRB	500	4
TI - 184 IRC	750	6

Circular Hot Plates

Technical Data

Temp. Range	: 300°C / 350°C
Dimension	: 20.5 cm
Supply	: 230V, AC

Cat. No.	Maximum Temperature	Temperature Control
TI - 85 ER	350°C	Energy Regulator
TI - 85 TC	300°C	Thermostat



Rectangular Hot Plates

Technical Data

Temp. Range	: 300°C/ 350°C
Temp. Accuracy	: $\pm 3^\circ\text{C}$
Supply	: 230V, AC

Temperature Controller: Energy Regulator

Models	Rating (KW)	Dimension in cm
TI - 70 ERA	1.2	25 x 40
TI - 70 ERB	2.0	30 x 45
TI - 70 ERC	3.0	45 x 60



Temperature Controller: Thermostat

Models	Rating (KW)	Dimension in cm
TI - 70 TCA	1.2	25 x 40
TI - 70 TCB	2.0	30 x 45
TI - 70 TCC	3.0	45 x 60

Our service - your benefit



“Tempo” is dedicated to delivering the highest level of customer care. We’ll address your needs promptly and thoroughly. How can we help you?

Our customer support team is standing by to answer questions about our applications, quality control, and the performance of our systems and instruments. We provide expert knowledge in data management, clinical support, product support and other areas to assure that your testing solution completely meets your requirements and performs at its best.

If one of our products needs a repair or if supplies need replenishing, we respond quickly. Our excellent field service organization provides service and preventive maintenance for our instruments, as well as on-site training.

Our ordering department is ready to handle purchase requests for systems, instruments, reagents, supplies, and service contracts. We also can assist with requests for material safety data sheets for “Tempo” products.



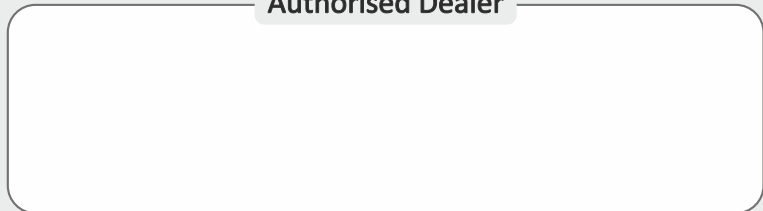
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Authorised Dealer



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