

The logo for Tempo, featuring the word "Tempo" in a red, cursive-style font with three horizontal lines to the right of the letter 'o'.

**Tempo**

Controlled Temperature Solution

A large industrial conveyor belt system for cement, shown in a high-angle view. The belt is made of metal and is supported by a complex steel structure. It is carrying a load of grey cement powder. The background is a bright, overcast sky.

# CEMENT INDUSTRY PRODUCTS

- Curing Tank
- Accelerated Curing Tank
- Dry Shrinkage / Stability Chamber
- LR Oven / Humidity Oven
- Multi Door Humidity Chamber
- Laboratory Oven
- Laboratory Precision Oven
- High Temperature Oven
- BOD Incubator
- Muffle Furnace
- High Temperature Furnace
- Fume Hood
- Le Chatelier Bath For Mould
- Le Chatelier Bath For Flask
- Water Bath
- Sand Bath
- Hot Plate

TEMPO INSTRUMENTS PVT. LTD.



# 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. Tempo utilizes manufacturing expertise to aggressively pursue new product opportunities that add value to our customer's portfolio. 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'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's** design team is led by veteran's able to capitalize on several 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.

Our extensive quality assurance program involves all employees and every phase of manufacturing. To ensure that quality is never compromised. TEMPO's Manufacturing's Quality Assurance Department operates with total autonomy. Continuous process improvement is encouraged through our quality principles.

## CURING TANK



As per IS : 4031 pt to maintain 27°C

### CONTROL SYSTEM

Temperature is controlled by means of microprocessor based PID controller cum indicator. Refrigeration is achieved by means of hermetically sealed compressor system of Emerson Copeland make with CFC free refrigerant.

A circulation pump of suitable output is provided in order to maintain uniform temperature throughout the chamber. Best quality Stainless Steel corrosion resistant heaters are used.

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)	TOTAL BASKET	TOTAL CUBES
	H	W	L			
TI - 651	40	50	105	210	40	120
TI - 652	40	75	105	315	56	168
TI - 653	40	75	140	420	77	231
TI - 654	40	75	170	510	98	294
TI - 655	40	100	170	680	126	378

### TECHNICAL DATA

Temp. Range : 25°C to 30°C  
Temp. Accuracy : ±0.5°C  
Supply : 230V AC, Single Phase, 50Hz

## ACCELERATED CURING TANK

As per IS 9013-1978

### TECHNICAL DATA

Temp. Range : 5°C to above ambient to 100°C  
Supply : 230 AC, Single Phas, 50Hz, 32Amp

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)
	H	W	L	
TI - 661	40	25	55	55
TI - 662	40	45	55	99
TI - 663	40	65	70	182
TI - 664	40	65	100	260





## DRY SHRINKAGE / STABILITY CHAMBER

As per IS : 4031 pt to maintain 27°C

Humidity Control System:

Imported Microprocessor based auto tuned PID Controller with CE mark & dual display of set value & process value with direct %RH

Imported RH sensor European make Rotronic for higher accuracy & RH 95%

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)	CUBES PER TRAY (11x11)	NO OF TRAYS
	H	W	D			
TI - 710	50	50	40	100	12	2
TI - 711	70	60	40	170	15	3
TI - 712	60	60	60	200	25	3
TI - 713	80	60	60	285	25	4
TI - 714	90	60	60	325	25	5
TI - 715	110	60	60	400	25	6
TI - 716	125	70	70	600	25	7
TI - 717	125	80	80	800	25	7
TI - 718	157	80	80	1000	36	8

### TECHNICAL DATA

Temp. Range : 10°C to 60°C  
 Humidity Range : 40% to 95% RH  
 Temp. Accuracy : ±0.2°C  
 Humidity Accuracy : ±2% RH  
 Supply : 230V AC, Single Phase, 50Hz



## STABILITY CHAMBER

FOR COAL TESTING: 40°C & 60%RH

### TECHNICAL DATA

Temp. Range : 10°C to 60°C  
 Humidity Range : 40% to 95%RH  
 Temp. Accuracy : ±0.2°C  
 Humidity Accuracy : ±2%RH  
 Supply : 230V AC, Single Phase, 50Hz  
 Capacity : From 100 Ltrs to 1000 Ltrs

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)	NO OF TRAYS
	H	W	D		
TI - 710	50	50	40	100	2
TI - 711	70	60	40	170	3
TI - 712	60	60	60	200	3
TI - 713	80	60	60	285	4
TI - 714	90	60	60	325	5
TI - 715	110	60	60	400	6
TI - 716	125	70	70	600	7
TI - 717	125	80	80	800	7
TI - 718	157	80	80	1000	8

## LR OVEN / HUMIDITY OVEN

### HUMIDITY CONTROL SYSTEM

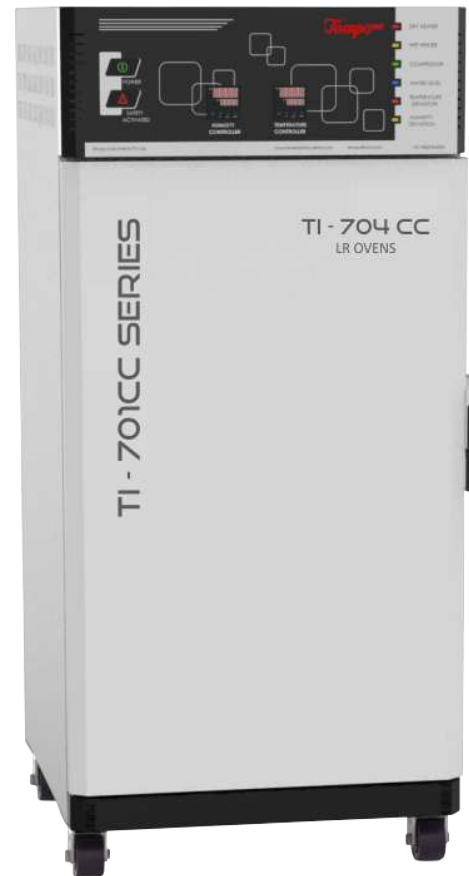
Imported Microprocessor based auto tuned PID Controller with CE mark & dual display of set value & process value with direct %RH  
 Imported RH sensor European make Rotronic for higher accuracy & RH95%.

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)	TRAYS	CUBES PER TRAYS
	H	W	D			
TI - 701	50	50	40	100	2	24
TI - 702	70	60	40	170	3	28
TI - 703	60	60	60	200	3	49
TI - 704	80	60	60	285	4	49
TI - 705	90	60	60	325	5	49

### TECHNICAL DATA

Temp. Range : 5°C above ambient to 60°C  
 Humidity Range : above 90% to 95%RH  
 Temp. Accuracy : ±0.5°C  
 Humidity Accuracy : ±2%RH  
 Supply : 230V AC, Single Phase, 50Hz



## MULTI DOOR HUMIDITY CHAMBER

### TECHNICAL DATA

Temp. Range : 20°C to 60°C  
 Temp. Accuracy : ±0.2°C  
 Humidity Range : 40% to 95%  
 Humidity Accuracy : ±2%  
 Supply : 230V AC, Single Phase, 50Hz

### TECHNICAL SPECIFICATION

4 DOORS CHAMBER WITH 216 CUBES								
MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)	OUTER SIZE (cm)			TRAYS
	H	W	D		H	W	D	
TI - 718 (SPL)	140	100	75	1050	216	120	137	12



## LABORATORY OVEN (Natural Convection) 250°C

### TECHNICAL DATA

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

### TECHNICAL SPECIFICATION

MODELS	INTERNAL SIZE (cm)			CAPACITY (Litres)	NO OF TRAYS
	H	W	D		
TI - 125 A	35	35	35	43	2
TI - 125 B	45	45	45	91	2
TI - 125 C	60	45	45	122	3
TI - 125 D	60	60	60	216	3



## LABORATORY PRECISION OVEN (Forced Air Circulation) 250°C

### TECHNICAL DATA

Temp. Range : 5°C above ambient to 250°C  
 Temp. Accuracy : ±0.2°C  
 Temp. Uniformity : ±5°C

### TECHNICAL SPECIFICATION

MODELS	INTERNAL SIZE (cm)			CAPACITY (Litres)	NO OF TRAYS
	H	W	D		
TI - 128 A	35	35	35	43	2
TI - 128 B	45	45	45	91	2
TI - 128 C	60	45	45	122	3
TI - 128 D	60	60	60	216	3
TI - 128 E	90	60	60	324	4
TI - 128 F	110	60	60	400	4
TI - 128 G	125	70	70	600	4
TI - 128 H	125	80	80	800	5
TI - 128 I	157	80	80	1000	5



## LABORATORY PRECISION OVEN High Temperature 400°C

### TECHNICAL DATA

Temp. Range	: 50°C to 400°C
Temp. Accuracy	: ±0.5°C
Temp. Uniformity	: ±10°C

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)	TRAYS
	H	W	D		
TI - 128 A HT	35	35	35	43	2
TI - 128 B HT	45	45	45	91	2
TI - 128 C HT	60	45	45	122	3
TI - 128 D HT	60	60	60	216	3
TI - 128 E HT	90	60	60	324	4



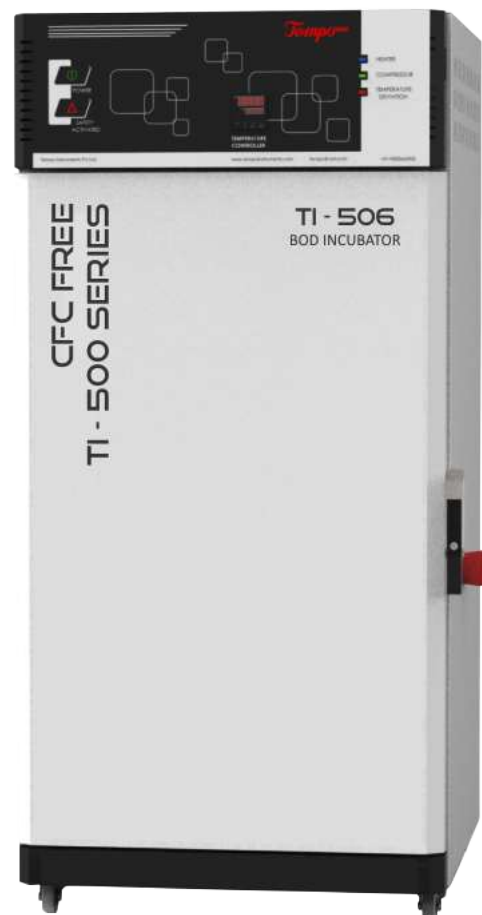
## BOD INCUBATOR (ASTM)

### TECHNICAL DATA

Temp. Range	: 5°C to 60°C
Temp. Accuracy	: ±0.5°C
Temp. Uniformity	: ±2%

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)	TRAYS
	H	W	D		
TI - 500	50	50	40	100	2
TI - 501	70	60	40	170	2
TI - 502	60	60	60	200	2
TI - 503	80	60	60	285	3
TI - 504	90	60	60	325	4
TI - 505	110	60	60	400	4
TI - 506	125	70	70	600	4
TI - 507	125	80	80	800	5
TI - 508	157	80	80	1000	5





## MUFFLE FURNACE ( 930°C/1200°C)

### TECHNICAL SPECIFICATION

MODELS	INTERNAL SIZE (cm)			RATING KW	MAX CONTINUOUS TEMPERATURE
	H	W	D		
TI - 58 A	10	10	23	1.6	400°C TO 900°C
TI - 58 B	15	15	30	3.3	400°C TO 900°C

### TI 58 SERIES (1200°C) WITH THYRISTER BASED CIRCUIT

MODELS	INTERNAL SIZE (cm)			RATING KW	MAX CONTINUOUS TEMPERATURE
	H	W	D		
TI - 58 HTA	10	10	23	1.6	400°C TO 1150°C
TI - 58 HTB	15	15	30	3.3	400°C TO 1150°C
TI - 58 HTC	20	20	30	3.5	400°C TO 1150°C
TI - 58 HTD	22.5	22.5	45	7	400°C TO 1000°C



## HIGH TEMPERATURE FURNACES ( 1300°C/1450°C)

### HIGH TEMP. 1300°C ECONOMY MODEL FURNACE (TOP SIDE HEATER) Continuous Operating Temperature 1250°C

MODELS	INTERNAL SIZE (cm)			RATING KW	SUPPLY
	H	W	D		
TI - 60 HTA	10	10	23	4.1	1 Phase, 230 Volts
TI - 60 HTB	15	15	30	4.6	1 Phase, 230 Volts
TI - 60 HTC	20	20	30	5.2	1 Phase, 230 Volts

### HIGH TEMP. 1300°C (BOTH SIDE HEATER) Continuous Operating Temperature 1250°C

MODELS	INTERNAL SIZE (cm)			RATING KW	SUPPLY
	H	W	D		
TI - 61 HTA	10	10	23	4.3	1 Phase, 230 Volts
TI - 61 HTB	15	15	30	5.8	3 Phase, 415 Volts
TI - 61 HTC	20	20	30	6.3	3 Phase, 415 Volts
TI - 61 HTD	22.5	22.5	45	8	3 Phase, 415 Volts

### HIGH TEMPERATURE 1450°C Continuous Operating Temperature 1400°C

MODELS	INTERNAL SIZE (cm)			RATING KW	SUPPLY
	H	W	D		
TI - 62 HTA	10	10	23	4.5	1 Phase, 230 Volts
TI - 62 HTB	15	15	30	6	3 Phase, 415 Volts
TI - 62 HTC	20	20	30	7.5	3 Phase, 415 Volts
TI - 62 HTD	22.5	22.5	45	10.7	3 Phase, 415 Volts

# HIGH TEMPERATURE FURNACE 1700°C

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. MiSiO2 element with easy assembly. These furnaces are Ideal for rapid cycling over extended periods.



CONTINUOUS OPERATING TEMPERATURE 1600°C

MODEL	INTERNAL SIZE (cm)			RATING KW	SUPPLY
	H	W	D		
TI - 63 HTA	12.5	12.5	25	3.6	1 Phase, 230 Volts
TI - 63 HTB	15	15	20	4.1	1 Phase, 230 Volts
TI - 63 HTC	20	20	20	5.06	1 Phase, 230 Volts
TI - 63 HTD	15	15	30	5.5	1 Phase, 230 Volts
TI - 63 HTE	20	20	30	7.5	3 Phase, 415 Volts
TI - 63 HTF	30	30	30	10	3 Phase, 415 Volts
TI - 63 HTG	22.5	22.5	45	12	3 Phase, 415 Volts
TI - 63 HTH	30	30	45	15	3 Phase, 415 Volts

# FUME HOOD

“Tempo” make fume hood is a type of local ventilation device that is designed to limit exposure to hazardous or toxic fumes, vapors or dusts. Air drawn from lab space into the fume hood then dispersed via pipe to outside atmosphere. Basically it protect the user from inhaling toxic gases.

TECHNICAL SPECIFICATION

TABLE TOP MODEL

MODEL	INTERNAL SIZE (cm)		
	H	W	D
TI - 12 FMA	110	60	75
TI - 12 FMB	120	90	75

FLOOR MODEL (With storage cabinet)

MODEL	INTERNAL SIZE (cm)		
	H	W	D
TI - 12 FMC	120	120	75
TI - 12 FMD	120	150	75



FLOOR MODEL  
with Storage Cabinet

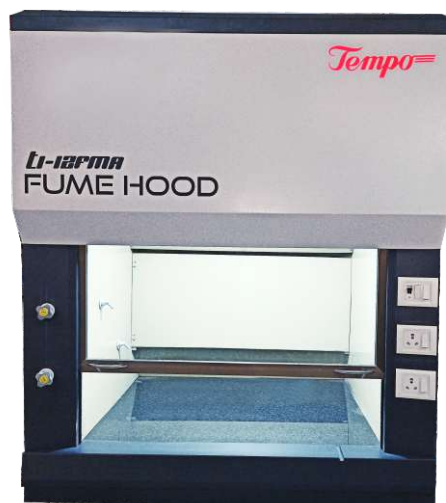


TABLE TOP MODEL



## LE CHATELIER BATH FOR MOULD

Standard Model : Inside S.S. 304 mirror finish argon welded one piece pot  
Outer Galvanized Iron (GI) sheet with powder coated

Temp. Range : 5°C above ambient to 100°C  
Temp. Accuracy :  $\pm 0.5^\circ\text{C}$   
Supply : 230V AC, Single Phase, 50Hz

Can achieve 100°C in 27 to 30 minutes



## LE CHATELIER BATH FOR FLASK

### TECHNICAL DATA

Temp. Range : 15°C to 60°C  
Temp. Accuracy :  $\pm 0.1^\circ\text{C}$   
Set Point : 27°C  
Supply : 230V AC, Single Phase, 50Hz

### TECHNICAL SPECIFICATION

MODELS	INTERNAL SIZE (cm)			CAPACITY (LITRES)	CAPACITY FLASK WITH S.S. STAND
	H	W	L		
TI - 671A	35	30	30	31	4
TI - 671B	35	30	40	42	6
TI - 671C	35	40	40	46	8

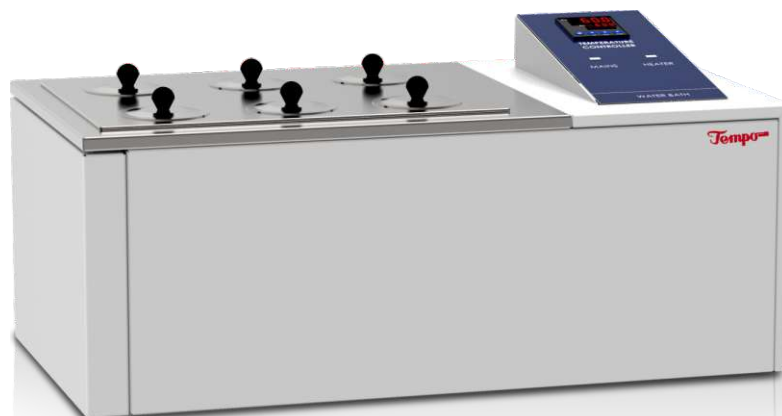
## WATER BATH

### TECHNICAL DATA

Temp. Range : 5°C above ambient to 95°C  
 Temp. Accuracy : ±2°C  
 Supply : 230V AC

### TECHNICAL SPECIFICATION

MODEL	INTERNAL SIZE (cm)			CAPACITY (Litres)	HOLE
	L	W	D		
TI - 241A	35	25	10	8.7	6
TI - 241B	40	30	10	12	12



## SAND BATH RECTANGULAR

### TECHNICAL DATA

Model Shape : Rectangular  
 Min. Surface Temperature : 200°C  
 Controlling System : Thermostatic Controller

### TECHNICAL SPECIFICATION

MODEL	S.S. 304 BATH SIZE	RATING
TI - 87A	10" x 12"	1.2 KW
TI - 87B	12" x 18"	2.0 KW
TI - 87C	18" x 24"	3.5 KW



## HOT PLATE

### SPECIFICATION :

Circular & Rectangular

Tempo is the only manufacturer using grooved cast iron top with best quality for uniform heating. Hot plates manufactured according to the industries standard to suit very high corrosive atmosphere and ensured long life performance.

### RECTANGULAR HOT PLATE (Max. Surface Temp. 300°C)

MODEL	DIA. (cm)	RATING (KW)	TEMPERATURE CONTROLLER
TI - 70 ERA	25 x 40	1.2	Energy Regulator
TI - 70 ERB	30 x 45	2.0	Energy Regulator
TI - 70 ERC	45 x 60	3.0	Energy Regulator
TI - 70 TCA	25 x 40	1.2	with Thermostat
TI - 70 TCB	30 x 45	2.0	with Thermostat
TI - 70 TCC	45 x 60	3.0	with Thermostat

### CIRCULAR HOT PLATE (Max. Surface Temp. 350°C)

MODEL	DIA. (cm)	RATING (KW)	TEMPERATURE CONTROLLER
TI - 85 ER	20.5	1.0	Energy Regulator
TI - 85 TC	20.5	1.0	with Thermostat



# Our Clients



## TEMPO INSTRUMENTS PVT. LTD.

### MUMBAI (H.O):

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ISO 9001:2015



ISO 13485:2012

