

# LAB REFRIGERATOR

TI - 810 SERIES

## TECHNICAL DATA

Temperature Range	: 2°C to 8°C
Temperature Accuracy	: $\pm 0.5^\circ\text{C}$
Supply	: 230V, Single Phase

"Tempo" make Lab Refrigerators are stable and reliable with refrigerated environment for exact laboratory requirements. Lab. refrigerators are for maintaining storage conditions of a product, exposure to low temperature applications, where the temperature requirements are on the lower side. Ideal 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.

## CONSTRUCTION

"Tempo" Lab Refrigerator is made of double walled construction with thick high grade PUF insulation. Full view inner acrylic door & front door with gasket & locking arrangement. Motorized Blower at back side of the chamber develops unique air flow system to maintain uniform temperature condition inside the chamber. Unique air flow assures quick recovery after door openings. The unit is provided with user friendly adjustable specially designed S.S rod trays, ensures uniform temperature distribution.. The equipment is mounted on castor wheels for easy movement.

## Controlling System

By means of Imported Microprocessor based auto tuned PID controller with CE mark & dual display of set value & process value.



## Sensor

PT 100 sensor is used for sensing the temperature..

## Heating System

High quality S.S. tubular heaters are used for better heating.

## Refrigeration System

CFC Free hermetically sealed Emerson Copeland make compressor for better cooling with R134 A (Eco Friendly) refrigerant with time delay to safe guard compressor system.

## Validation Port

50mm validation port hole with silicon rubber seal to insert sensor for validation

## FEATURES

Full view observation Acrylic door with gasket to observe sample inside the chamber.

Interior illumination for working area.

Specially designed stainless steel rod trays ensure uniform temperature distribution.

## SAFETY FEATURES

Safety standby thermostat to cut off heater supply in case of overshoot of temperature.

In built over load protector provided for hermetically sealed compressor.

Compressor ON delay timer (2min) to safe guard the compressor.

## OPTIONAL FEATURES

- PLC Based Control System
- Stand by Refrigeration System.
- Ethernet / RS485 Communication
- Data Logger.
- Data Scanner complete with sensor
- SMS Mobile Alert system
- Door access security system
- Safety digital temperature controller
- Digital Timer
- CFR 21 Part 11 compliance software

## TECHNICAL DATA

Models (S) or (G)	Capacity Liters	Internal Size H x W x D (cm)	Trays
TI - 810 S / G	100	50 x 50 x 40	2
TI - 811 S / G	170	70 x 60 x 40	2
TI - 812 S / G	200	60 x 60 x 60	2
TI - 813 S / G	285	80 x 60 x 60	3
TI - 814 S / G	325	90 x 60 x 60	4
TI - 815 S / G	400	110 x 60 x 60	4
TI - 816 S / G	600	125 x 70 x 70	4
TI - 817 S / G	800	125 x 80 x 80	5
TI - 818 S / G	1000	157 x 80 x 80	5
TI - 819 S / G	1500 (Double Door)	146 x 150 x 69	10
TI - 820 S / G	2000 (Double Door)	146 x 150 x 92	10

S--> Standard Model

### STANDARD MODEL

Inside S.S. 304 with mirror polish & Outside mild steel powder coated

G--> GMP Model

### GMP MODEL

Inside S.S. 316 with mirror polish & Outside stainless steel 304 with dull buff finish

Note : Two blowers for 400 ltrs to 2000 ltrs. Capacity chambers.

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ISO 9001:2008



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**Tempo**

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