

TE084 LAB INCUBATOR

TE Series Overview

The TE series chambers offer thermoelectric cooling that provides a much more stable temperature control than other refrigeration systems. All the TE Series incubators incorporate inherent cooling redundancy, quiet operation, simple serviceability and excellent reliability.

TE09

The TE09 is a bench top lab incubator designed to fit on 24" benchtops or stacked with optional racking.

TE030

The TE030 is a single-door lab incubator.

TE034

The TE034 is a single-door lab incubator.

TE055

The TE055 is a 2-door lab incubator.

TE084

The TE084 is a 3-door lab incubator.



Featured photo is the TE084 3-door incubator open door view to show internal racks and optional chart recorder attached.



Featured photo is the TE084 3-door incubator closed door view.



TE SERIES: LAB INCUBATORS

Reliable Cooling Redundancy

Each TE series incubators includes multiple, independent thermoelectric cooling units. The 7 year warranty on cooling components and the ability of our chambers to maintain temperature, even if the chamber suffers multiple failures, is unmatched by any other refrigeration-based chamber.

Quiet Operation

The TE series incubators utilize quiet, highly efficient DC fans.

Simple Serviceability

Due to the omission of all refrigeration equipment on these models, refrigeration technicians are not required during incubator servicing. Refrigerated incubators are not only costly to service, but can require days to service properly. Nearly every component of thermoelectric-based chambers can be serviced within minutes with basic tools.

Superior Control and Uniformity

Thermoelectric cooling and automatic switching system from cooling to heating control provide consistent results throughout the available temperature range. Standard control at the sensor in these chambers is $\pm 0.2^{\circ}\text{C}$.

Options Available

Chart Recorders
Data Loggers
Dryers

Greatly Reduced Direct and Indirect Energy Loads

The TE Series incubators utilize less energy than comparable incubators and introduce less impact upon building cooling systems. This efficiency "dual benefit" allows our chambers to be located in spaces unsuitable for other chambers.

Widely Proven, Non-Proprietary Controllers

Standard controllers for the TE Series are manufactured by Fuji Electric and are ideal for laboratory incubators. Unlike many proprietary controllers, this controller is commercially available and proven in tens of thousands of installations. Standard functions include: autotuning, fuzzy logic, PID control, programmable alarms, calibration capability, ramp/soak, offset capability, etc. A touchscreen control interface is optional. Other controller manufacturers are also supported (Watlow, Allen-Bradley etc.)

Services and Warranties

We offer 24 hour technical support throughout the lifetime of your incubator. In addition to standard warranties, we also offer extended warranties for cooling components, parts and labor. We also provide qualifications, validations and preventive maintenance services at an additional cost. Please ask for a quote.

TE084 Lab Incubators Specifications (ambient 21° C)

Performance	Standard	Customized Options
Temperature Range	20°C to 50°C	20° C to 70° C
Ambient Temperature	18° C to 27° C	Available
Temperature Control	± 0.2° C	Available
Temperature Uniformity	± 0.7° C	Available
Control Resolution	0.1° C	Available
Temperature Sensor	NIST Traceable PT 100 RTD Class A	Available

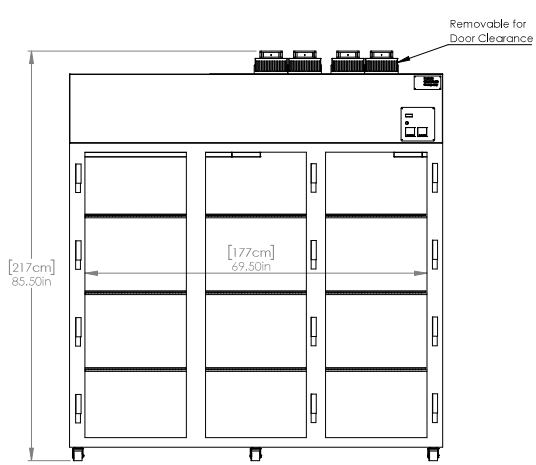
Control System	Standard	Customized Options
Controller	Fuji PXF4 (PID - Fuzzy Logic)	West EC-44, Future Design Touchpad + More
Control Readout	Actual and Set-Point Values	Trending, Duty Cycle
Calibration Correction Capability	Actual and Set-Point Values	Available
Uniformity Off Set	N/A	N/A
Alarm	Audible and Visual	Text, Email, Web Server, Remote Access
Alarm Type	Deviation in 0.1° C with Delay	Absolute 0.1 Resolution with Delay
Remote Monitoring	Dry alarm contact R5485 analog output	Dry Alarm Contact, RS 485 & Analog Output
Password Protection	Numeric	Numeric, Alpha Numeric
Audit Trail	N/A	Available
Universal Power Supply for Monitoring	N/A	Available

Construction	Standard	Customized Options
Exterior	Stainless Steel Door & Front, Aluminum Sides	Stainless Steel Door, Front & Sides
Interior	Aluminum Side Walls & Back, Stainless Steel Floor & Ceiling	Stainless Steel Side Walls, Back, Floor, Door Liner & Ceiling
Shelving	9 Gray PVC Coated, Adjustable 1" Increments, Supports Up to 150 lbs of Evenly Distributed Weight	Stainless Steel, Chrome Plate or Custom
Casters	2.75" Total Weight Capacity is 300 lbs per Castor, Not Including the Weight of the Chamber	5" Casters or Seismic Legs

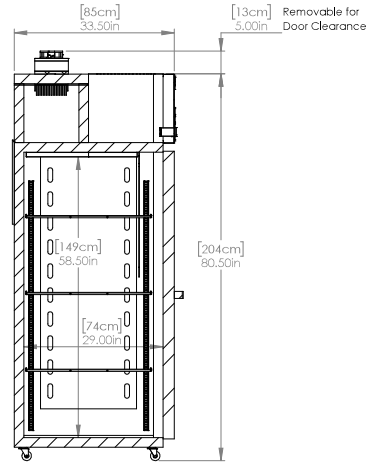
Capacity & Dimensions	US Standard	Metric
Interior Capacity	70.75 ft ³	2003.42 liters
External Dimensions	Refer to Drawing Below	Refer to Drawing Below
Internal Dimensions	Refer to Drawing Below	Refer to Drawing Below
Shelf Dimensions	Refer to Drawing Below	Refer to Drawing Below
Crated Weight	1190 lbs	539.77 kg

Electrical	US Standard	International
Voltage (dedicated circuit required)	115v /60HZ	230/50/1
RLA	7.8	5.8
Cord Length	9 ft	2.74m (specify plug)

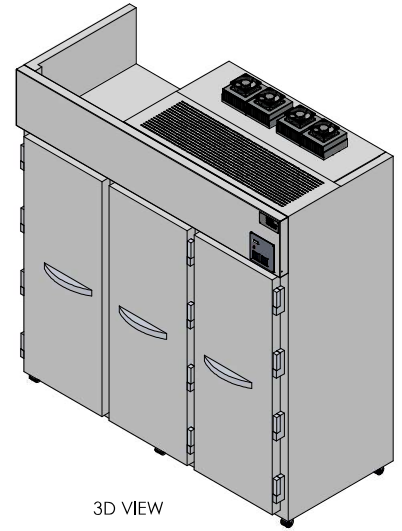




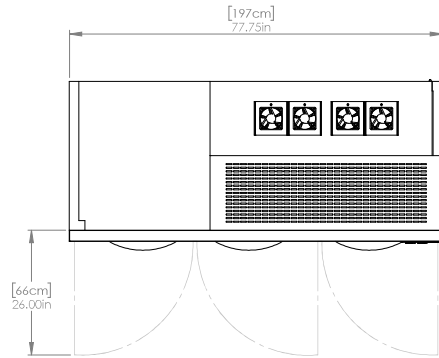
FRONT VIEW
(DOORS REMOVED)



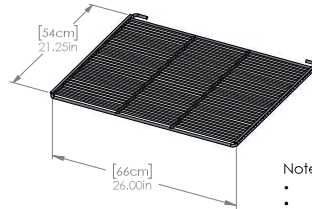
SIDE VIEW
(SECTION)



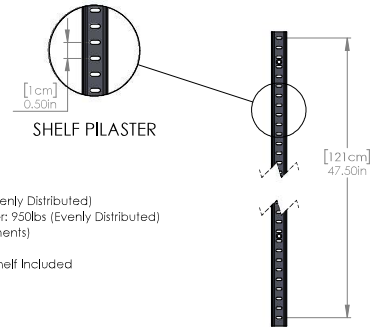
3D VIEW



TOP VIEW



WIRE SHELF



SHELF PILASTER

Notes:

- Shelf Finish: Gray PVC Coated
- Max Weight per Shelf: 150lbs (Evenly Distributed)
- Max Load Capacity of Chamber: 950lbs (Evenly Distributed)
- Pilaster Height: 47.5" (1 1/2' Increments)
- Minimum Spacing: 2"
- 4 Stainless Steel Shelf Clips per Shelf Included
- 2" I.D. Access Port Included
- Door Opening: 21" W x 58" H

Note: Tolerances are 0.25" unless otherwise stated
*Dimensions and components are subject to change without notice.