

TE09 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.

TE055

The TE055 is a 2-door lab incubator.

TE084

The TE084 is a 3-door lab incubator.



Featured photo is the TE09 bench top laboratory incubator open door view to show adjustable internal racks. Featured upgraded West controller.



Featured photo is the TE09 bench top laboratory 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

Bench-Top Chamber Capable of Being Stacked

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, 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.

TE09 Lab Incubators Specifications (ambient 21° C)

Performance	Standard	Customized Options
Temperature Range	10°C to 60°C	20° C to 70° C
Ambient Temperature	21° C ± 3° 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

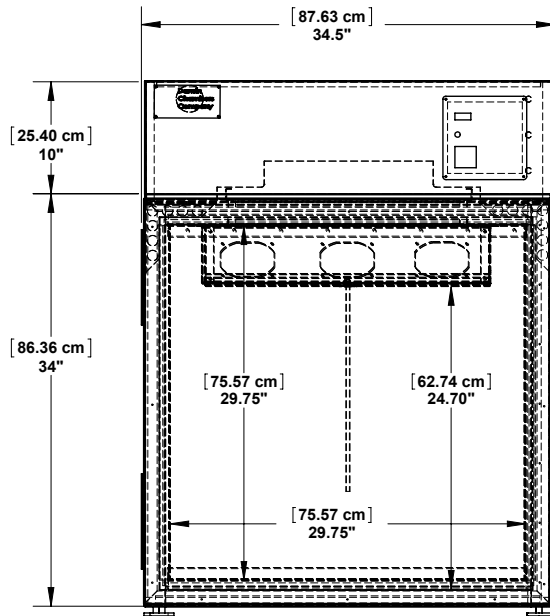
Control System	Standard	Customized Options
Controller	Microprocessor based PID	West EC-44, Future Design Touchpad + More
Control Readout	Actual and Set-Point Values	Trending, Duty Cycle
Calibration Correction Capability	Actual and Set-Point Values	Available
Uniformity Off Set	Standard 0.1 Resolution	Available
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	Available	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	Powder Coated	Stainless Steel Door, Front & Sides
Interior	Stainless Steel	Available
Shelving	2 Stainless Steel Shelves	Stainless Steel, Chrome Plate or Custom
Casters	2.75"	5" Casters or Seismic Legs

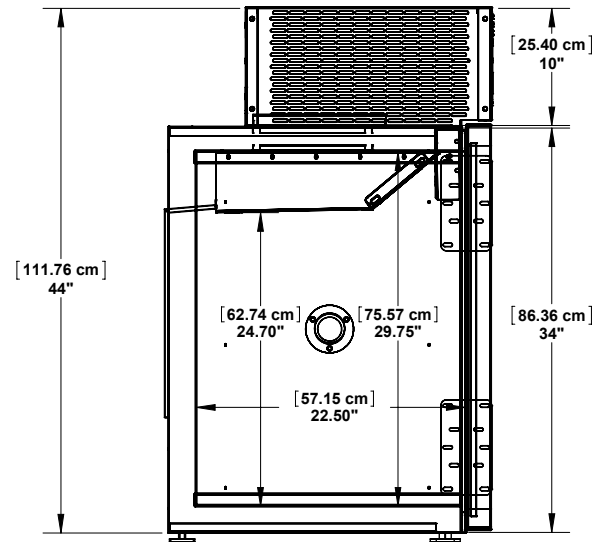
Capacity & Dimensions	US Standard	Metric
Interior Capacity	9 ft ³	254 liters
External Dimensions	34.5" W x 28.25" D x 44" H	87.63 cm W x 71.75 cm D x 111.76 cm H
Internal Dimensions	29.75" W x 22.5" D x 29.75" H	75.57 cm W x 57.17 cm D x 75.57 cm H
Shelf Dimensions	22.25" W x 26.25" D	54.61 cm W x 66.68 cm D
Crated Weight	340 lbs	154 kg

Electrical	US Standard	International
Voltage	115v / 60HZ	230 / 50 / 1
RLA	4	5.8 With Step Down Transformer
Cord Length	7 ft	9 ft

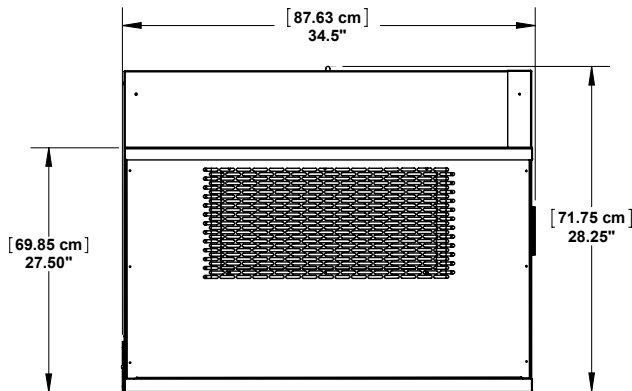
TE09 Lab Incubators Technical Drawings



Front View



Side View



Top View

