

GENERAL INFORMATION

Precision Circulating Baths are widely used in research and quality control. Their superb temperature uniformity and stability makes them especially desirable for legal or reference tests.

The microprocessor control panel houses all functions necessary to operate the bath. The 4 push-button switches and single digital display window allow the operator to adjust bath temperature and temperature calibration via a single set of controls.

The proportional integral temperature control coupled with agitation supplied by a centrifugal pump located in the control housing allows precise temperature control. Use of the gable cover provided is required to maintain optimal temperature sensitivity.

A high limit thermostat is provided and can be set to prevent heater runaway in the event of temperature control failure.

The interior of the bath is constructed of stainless steel and is designed for operation with distilled water or water solutions, such as water /ethylene glycol with corrosion inhibitors added. The body is made from galvanized steel and is painted for added protection. A drain is located at the far left hand end of the bath. A stainless steel gable cover is also provided with the bath.

The 240-volt units are identical in appearance to the 120-volt units.

PERFORMANCE DATA

The following table identifies the specifications for the Coliform Baths.

Technical Specifications

Temperature Settings (factory preset)

35.0°C 41.5°C

44.5°C 45.5°C

Sensitivity (cover on) Uniformity (cover on)

±0.05°C ±0.05°C

Chamber Size

Length 27 inches (68.6cm.)

Width 12 inches (30 cm.)

Height 7.5 inches (19 cm.)

Capacity (1.5" from top) 9.1 gallons (34.5L.)

INSTALLATION

WARNING

INSTALLATION SHOULD BE COMPLETED BY QUALIFIED PERSONNEL ONLY.

Location - The most uniform operating conditions will be obtained by placing the bath on a level surface in an area remote from drafts, ventilating outlets, radiators, and other rapidly changing ambient conditions.

Environmental Conditions- This instrument is designed to operate safely under the following conditions:

- Indoor Use Only
- Temperature: 5° to 40° C
- Maximum Relative Humidity: 80% for temperatures to 22°C
- Maximum Altitude 2000 meters
- Mains supply voltage fluctuation ±10, or per project plan
- Installation (Overvoltage) category II, Pollution Degree 2

Table 1
Listing of Models Included In This Manual

Catalog Number	Volts	Hertz	Watts	Amps	Mains Fuse	Power Board Fuse
3166678	120	50/60	1550	12.9	N/A	N/A
3166679	240	50/60	1550	6.5	FST-5x20-10A	FST-6.3x32-6.3mA