



## Benchmaster Test Chambers

Tenney's Benchmaster test chambers are capable of simulating a wide range of temperature or temperature and humidity conditions. The five-cubic-foot workspace will readily accept equipment as large as a 19" relay rack. In keeping with the needs of today's lab, we designed these test chambers to have a compact exterior that maximizes the interior workspace.

### Features

- Vapor-tight interior liners made of 100% continuously welded stainless steel
- Temperature and humidity environmental chambers with humidity capabilities are constructed of 100% non-corroding parts and have a low-water protection system
- Uniform conditions are assured through the use of a vertical-down recirculating conditioning stream
- Watlow F4 Controller is standard on the Temperature-only as well as Temperature and Humidity chambers
- Open-air low mass nichrome wire heating elements
- Cascade refrigeration system with hermetic compressor
- 100 Ohm Platinum RTD sensor for temperature measurement
- Vapor-Flo I Humidity Generator in humidity models
- Dry capacitance type humidity sensor in humidity models
- Chamber drain connection
- One year parts and labor warranty

### Equipment Types

- Temperature Only
- Temperature and Humidity
- Cascade Refrigeration System

### Benefits

- Simulates a wide range of temperature or combined temperature and humidity conditions to meet a variety of testing needs
- Compact design maximizes interior laboratory workspace
- Vertical-down airflow assures consistent conditions



THERMAL PRODUCT SOLUTIONS

» Baker Furnace    » Blue M    » Gruenberg    » Lindberg/MPH  
» Lunaire    » Tenney    » Wisconsin Oven

Overall dimensions in inches/centimeters

Model		BTC	BTRC	UTC	UTRC
Workspace	W	20/51			
	D	19.25/49			
	H	22/56			
Exterior	W	66.25/168.25			37/94
	D	32/81.28			32/81.28
	H	40.5/102.87			73.5/186.69
Temperature Range					
Low	°C	-70			
High	°C	200			
Utilities, etc.					
Refrigeration		(2) 1 HP			
Heater Capacity		2 kW			
Humidifier	Watts		1500		1500
	GPH		0.3		0.3
AMPS@230V. 1 Ph		29	29	29	29
AMPS, Fuse		40			
Unit Weight	Lbs.	500			

Options:

- IEEE/488 interface
- LinkTenn software for Windows® that permits your computer to control up to 10 chambers
- RS-422, 423, 232, or 485 interface assemblies
- Reverse osmosis water purification system
- Water demineralizer
- Water reservoir for humidity system (5 gallon)
- Recirculating system for humidity water
- Viewing window, 6" x 8", thermally insulated and heated
- Interior light
- Shelving, adjustable and removable
- Automatic CO<sub>2</sub> or LN<sub>2</sub> cooling boost system
- Automating boost heating system
- GN<sub>2</sub> purge system
- Recording instruments
- Redundant thermal protection and alarm system
- External dryer for obtaining humidity as low as 5% (to 20°C)
- Alternate power supply wiring
- Chamber cart with casters for benchtop models

In humidity models:

- Humidity capability: 20% to 95% RH in the dry bulb range of +20°C (68°F) to +85°C (185°F) as limited by a 3 degree dew point.



**Baker Furnace, Blue M, Gruenberg, Lindberg/MPH,  
Lunaire, Tenney, Wisconsin Oven**

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*Specifications and Product Information are subject to change without notice.*

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