Tenney ENVIRONMENTAL

Junior Compact Temperature Test Chambers

The Tenney Junior temperature test chambers have been in the market for over 50 years. They are well suited for use in electronic, military, and pharmaceutical quality assurance and reliability testing, as well as research testing and production processes. In keeping with the needs of today's lab, we specifically designed these benchtop and floor chambers to have a compact exterior yet an ample interior workspace to maximize valuable floor space.

Features

- All models feature vapor-tight, continuously welded stainless steel interiors.
- Structural reinforcement is used at all critical points.
- Temperature conditions are controlled with the Watlow F4T profiling type dual channel 1/4 DIN controller
- Data logging and Graphical trend chart for Watlow F4T controller
- Fiberglass insulation surrounds the temperature chamber to maximize insulating characteristics, thus ensuring minimal thermal transfer.
- 120V power supply cord with male NEMA 5-20P plug
- 3" port is standard on left side

Specification

- Chamber Size: 1.2 cubic feet
- Temperature Range: -68°C to +180°C
- Control: +/-1.0°C

Benefits

- Space saving design - available as upright or bench versions
- Low total cost of ownership
- Field proven reliability with thousands in use worldwide
- Vapor-tight, continuously welded interior
- Easy to use controller

*These pictures may show changes, options, and features that are not included on your unit. These pictures are for reference only.

TPS™ Thermal Product Solutions

Tenney Environmental is a brand of Thermal Product Solutions, LLC.

»Blue M »Gruenberg »Lindberg/MPH
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www.tenney.com
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Junior Compact Temperature Test Chambers Specifications			
Model	TJR	TUJR	
Cubic Feet (Liters)	1.12 (31.71)		
Work Space Inches (mm) (W x D x H)	16" X 11" X 11.75" 406mm x 279mm x 298mm	16" X 11" X 11.75" 406mm x 279mm x 298mm	
Exterior Inches (mm) (W x D x H)	37" X 22" X 31.75" 940mm x 559mm x 806mm	25.75" X 22" X 60" 655mm x 559mm x 1524mm	
Approx Unit Weight	260lbs / 118kg	292lbs / 133kg	
Approx Crated Weight	325lbs / 148kg	365lbs / 165kg	
Temperature and Humidity Range			
Model	TJR	TUJR	
Standard Temperature Range	-68°C to 180°C		
Optional Temperature Range	-75°C to 200°C		
Temperature Control	±1.0°C after stabilization		
Cooling Rates (empty chamber) °C/min			
180°C to -65°C	81 (3)	Ambient to -20°C	9 (5)
125°C to -35°C	43 (3.7)	Ambient to -35°C	14 (4.2)
85°C to -40°C	31 (4)	Ambient to -54°C	30 (2.6)
Ambient to -20°C	9 (5)	Ambient to -65°C	40 (2.2)
Heating Rates (empty chamber) °C/min			
-65°C to 180°C	100 (2.4)	-68°C to ambient	14 (6.6)
-20°C to 85°C	32 (3.2)	Ambient to 85°C	14 (7.8)
-40°C to 85°C	37 (3.3)	Ambient to 125°C	27 (5.5)
-35°C to 180°C	21 (2.7)	Ambient to 180°C	50 (4.1)
Live Load (Watts)			
Temperature Range	-40°C	170 Watts	
	-54°C	145 Watts	
	-65°C	105 Watts	
	-73°C	60 Watts	
General Specifications			
Air Flow Rate	50 CFM		
Heat Capacity	500 W		
Refrigeration	Two (2) 1/2 HP		
Condenser	Air cooled		
Condenser Discharge Air	Exits on right side of the chamber		
Heat of Rejection	Maximum 6300 BTU's per hour		
Power	120V-1PH-60Hz		
Amp - Fuse	20		
Amp - Under Load	16		
NEMA Plug	Male NEMA 5-20P		
Standard Ports Included (loc)	3" Standard Port w/Plug centered left sidewall		
Decibel Level	Less than 72 dBa as measured 3 feet from chamber, 5 feet from the floor at right angles		
Load Per Shelf	10 lbs/ 5kg per shelf (maximum chamber load including shelf and floor load not to exceed 30 lbs/ 14 kg)		
Number of Shelves Standard	None		
Max Number of Shelves	3 shelves		
Shelf Spacing	2" / 50mm on Pilasters		
Chamber Spacing Requirement	18" / 458mm on all sides		
Floor Load Rating	30 lbs/ 14kg		

Performance is based upon an empty chamber with air temperature measured at the supply air stream, operating at 24°C (75°F) ambient air. Operating at 50Hz or higher than 24°C ambient air, performance may be reduced. Consult factory regarding any special cooling requirements.

Options

- GN2 Purge System
- Dry Air Purge System
- TempGuard V Over-temperature Protection
- Viewing windows up to 6" x 8" and thermally insulated
- Interior lighting
- Shelving, adjustable and removable
- Automatic CO2 or LN2 cooling boost system
- Recording instruments
- Alternative power supply options for many global current schemes
- Cart system to allow chamber to be moved within a facility
- Stacking option for bench model
- 50 Hz CE mark available
- Intrinsically safe interior
- NIST Calibration
- Tenney Environmental offers calibration services accredited to the ISO 17025 / A2LA
- Additional engineered to order custom configurations available

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