



TESCOR

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BALANCED AMBIENT CALORIMETERS



Tescor's Balanced Ambient Calorimeters are designed in accordance with *Ashrae Standard 16* and are used by air conditioner manufacturers to determine the capacity of window and split units for rating purposes. These systems can be supplied as calibrated room type or full balanced ambient with a conditioned annular space around the test room. Room temperature and humidity conditions are precisely and accurately controlled. All power inputs to the inner rooms and the test unit are measured and balanced. The calorimeters are provided with a fully automatic, computerized data acquisition and control system.



TESCOR

Balanced Ambient Calorimeter
Typical Specifications

PARAMETER	CONTROL RANGE	STABILITY
<i>Indoor Room</i>		
Dry Bulb Temperature	60°F to 95°F	± 0.15°F
Wet Bulb Temperature	55°F to 75°F	--
Humidity (% RH)	30% to 90%	--
Dew Point Range	50°F to 68°F	± 0.15°F
Uniformity	--	± 0.5°F
<i>Indoor Room Annular Space</i>		
Dry Bulb Temperature	60F to 95F	± 0.5F
Wet Bulb Temperature	55F to 75F	--
Humidity (% RH)	30% to 90%	--
Dew Point Range	50F to 68F	± 1.0F
Uniformity	--	± 1.0°F
<i>Outdoor Room</i>		
Dry Bulb Temperature	45F to 120F	± 0.2F
Wet Bulb Temperature	42F to 80F	--
Humidity (% RH)	15% to 90%	--
Dew Point Range	38F to 65F	± 0.15F
Uniformity	--	± 0.5°F
<i>Outdoor Room Annular Space (Optional)</i>		
Dry Bulb Temperature	45F to 120F	± 0.5F
Wet Bulb Temperature	42F to 80F	--
Humidity (% RH)	15% to 90%	--
Dew Point Range	38F to 65F	± 0.5F
Uniformity	--	± 1.0°F

- ❑ Capacity Range: 6000 to 36,000 Btu/hr
- ❑ Software
 - Create Tests And Sequences for Automatic Operation
 - User configurable data acquisition channels
 - User configurable calculation channels
 - Stability tolerance adjustment on the fly
 - Automatic Test Report Generation
 - Loop Calibration Utility
 - Dedicated hardware checkout routine
 - Color coded stability status indicators
 - Time-history graphing capability
 - Data File Management and Search Tools
- ❑ Performance Measurement
 - 2% agreement or better refrigerant side to code tester air side for 80% of test results
 - 1% repeatability of test results
- ❑ Available Options:
 - Automated Pressure Equalizer
 - Air-Flow Code Tester for Airflow Measurement
 - Outdoor Room Controlled Annular Space
 - Heating Capacity Test Capability without reversing UUT mounting

Note: The specification shown above are typical. Tescor can customize your system to provide the performance that you desire.

Tescor manufactures a full line of Climate Control Test Equipment for the HVAC marketplace including the following: *Psychrometric Test Rooms, Compressor Calorimeters, Life Cycle Test Benches, Compressor Slug Test Benches, Air Flow Code Testers, Surface Calorimeters, and Environmental Test Chambers.*