

BALANCED AMBIENT CALORIMETERS

Climatic Testing Systems, Inc. (CTS) Balanced Ambient Calorimeters are designed in accordance with **ASHRAE Standard 16** and are used by air conditioner manufacturers to determine the rated capacity of window and split units. 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.



Balanced Ambient Calorimeter Typical Specifications

PARAMETER	CONTROL RANGE	STABILITY
<i>Indoor Room</i>		
Dry Bulb Temperature	60°F to 95°F	± 0.15°F
Dew Point Range	50°F to 68°F	± 0.15°F
Uniformity	--	± 0.5°F
<i>Indoor Room Annular Space</i>		
Dry Bulb Temperature	60°F to 95°F	± 0.5°F
Dew Point Range	50°F to 68°F	± 1.0°F
Uniformity	--	± 1.0°F
<i>Outdoor Room</i>		
Dry Bulb Temperature	45°F to 120°F	± 0.15°F
Dew Point Range	38°F to 65°F	± 0.15°F
Uniformity	--	± 0.5°F
<i>Outdoor Room Annular Space (Optional)</i>		
Dry Bulb Temperature	45°F to 120°F	± 0.5°F
Dew Point Range	38°F to 65°F	± 1.0°F
Uniformity	--	± 1.0°F

- ❑ Capacity Range: 6000 to 60,000 Btu/hr
- ❑ Software
 - Editing of test programs
 - Automatic test sequencing
 - Loop calibration and calibration reporting
 - Hardware checkout routine
 - Stability monitoring
 - Real time tolerance adjustments
 - Real time-history graphing capability
 - Automatic Test Report Generation
 - Data File Management
- ❑ Performance Measurement
 - 2% agreement or better indoor side to outdoor 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 specifications shown above are typical. Climatic Testing Systems, Inc. can customize your system to provide the performance that you desire.

Climatic Testing Systems, Inc. manufactures a full line of Climate Control Test Equipment for the Automotive and HVAC marketplace. For a master product list, visit us at CLIMATICTESTING.COM

<http://climatictesting.com/>

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