



A Higher Order of Weathering Testing Performance Through Superior Science

The Ci4000 Weather-Ometer[®], with its advanced digital control system, represents monumental achievement in applying digital and optical technologies in an easy-to-use laboratory weathering instrument. The Ci4000 is approved by many OEMs in the automotive, paints & coatings and plastics industries as the exclusive platform to deliver accurate, reproducible and repeatable results for predicting service life. The Ci4000 has been certified CE, UL, CSA, ISO and EN compliant.

Rotating Sample Rack

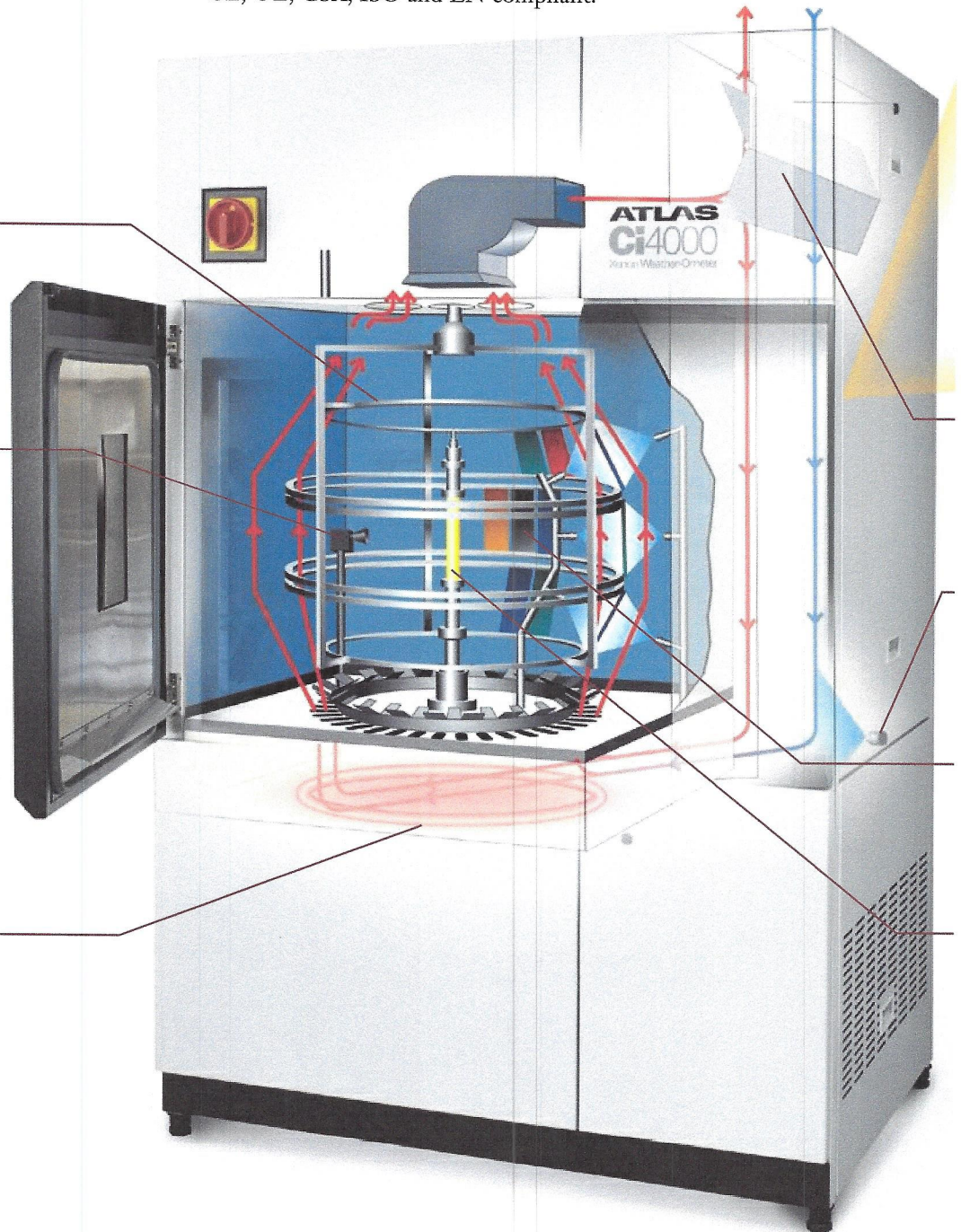
Maximizes exposure uniformity over all specimens

Controlled Irradiance

Up to 2-sun irradiance levels or higher based on your test requirements. Narrow band (340 nm or 420 nm), broad band (300-400 nm) or illuminance control/Lux (400-750 nm) with optional monitoring at a second wavelength to meet global test requirements

Test Chamber Temperature

Closely simulates your material's end use environment



ATLAS
Ci4000
X-ray Weather Drivetr

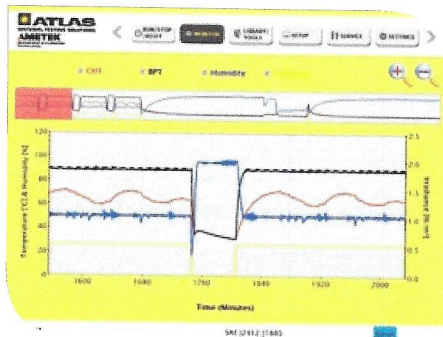


Enhanced Control System Enables Complex, Custom Test Programs or Simple, Preprogrammed Test Operation

Easy to Understand Icons Simplify Navigation

New icons make getting to the information you need fast and easy

- Large, Touch Sensitive Buttons
- Clear, Easy-to-See Icons

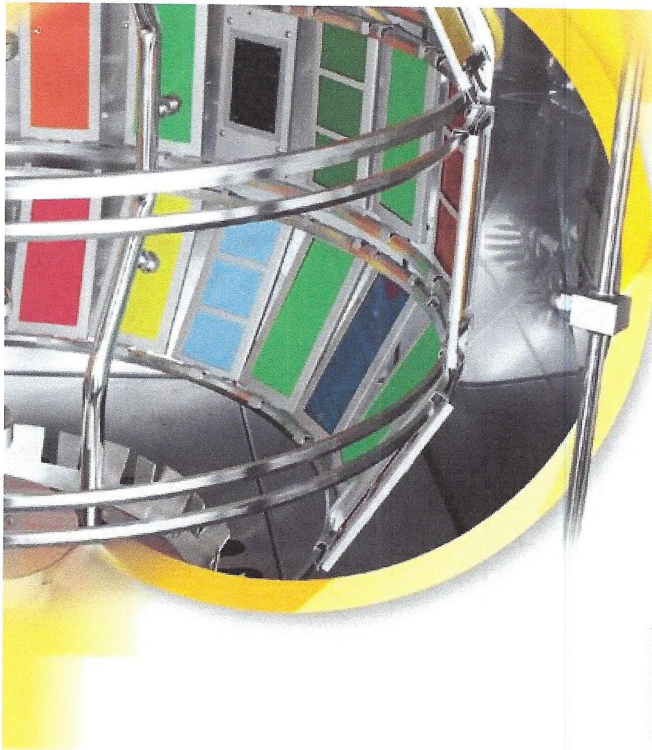


Two Simple-to-read Pages and On-screen Trend Plot Monitor All Critical Status Information

Monitor and/or plot all critical set points and compare with real time readings for:

- Rack Temperature:
Black Panel Temperature (BPT),
Black Standard Temperature (BST)
or both
- Chamber Temperature
- Relative Humidity
- Irradiance
- Incoming Deionized
Water Quality
- Lamp Cooling
Water Temperature
- Countdown in Time
or Radiant Exposure
- Phase Type and Duration





The Ci4000 Offers Thorough Climate Control to Best Replicate Your Materials' End Use Environment

Precise Humidity Control

The electronic sensor provides direct and accurate measurements of relative humidity and enables automatic control at the specimen level

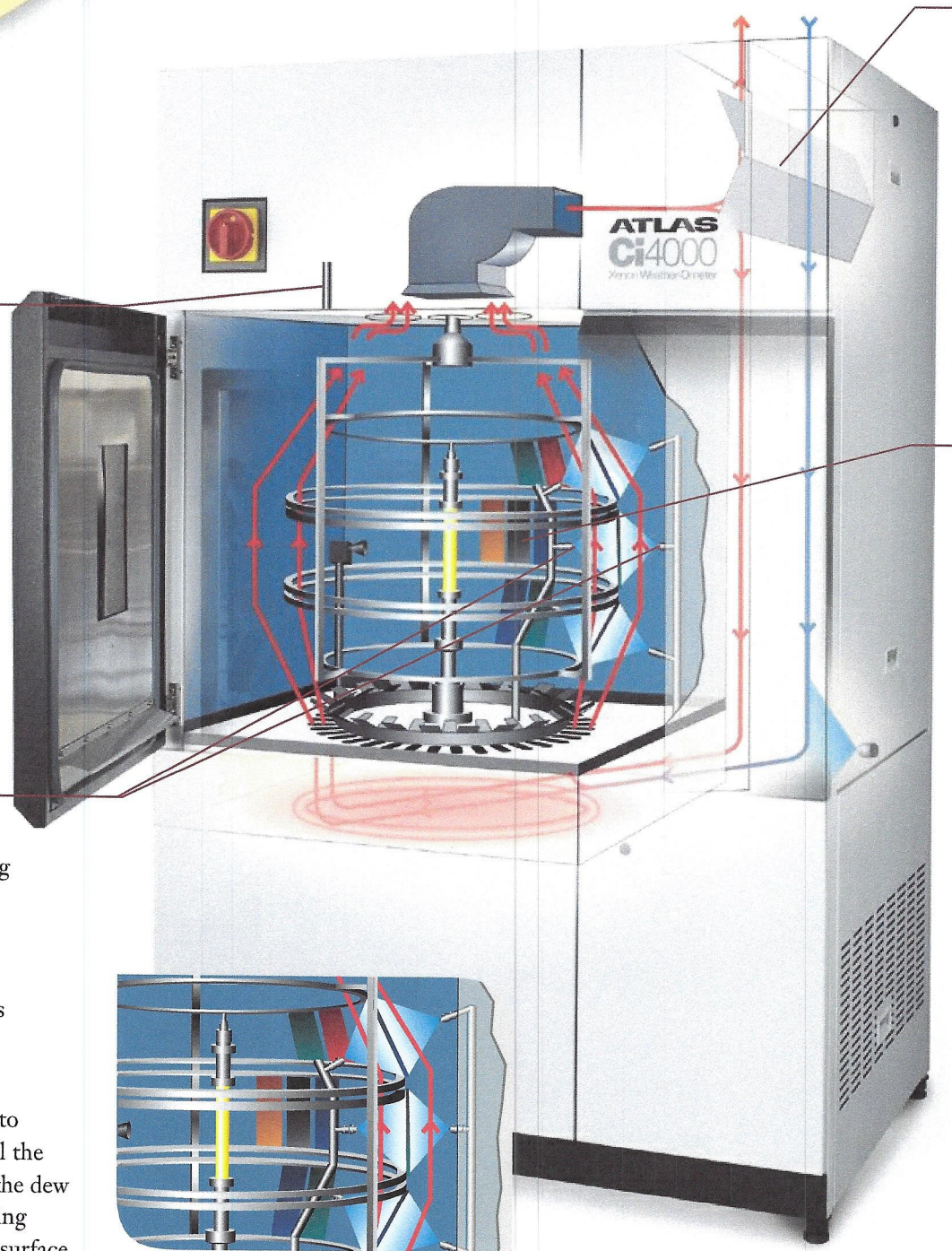
- 10% RH to 75% RH in light cycles*
- Up to 100% in dark cycles*

* Dependent on other parameters such as lamp power, chamber temperature, ambient lab conditions etc.

Specimen and Rack Spray

Custom designed precision nozzle provides uniform spraying of samples with deionized water

- The specimen spray applies water to the exposed surface of the sample which simulates rain to induce temperature shock and erosion effects
- The rack spray applies water to the back of the sample to cool the specimen temperature below the dew point during dark cycles causing condensation on the exposed surface



Consistent, Controlled Temperature Delivers Repeatable and Reproducible Results

SmartDamper

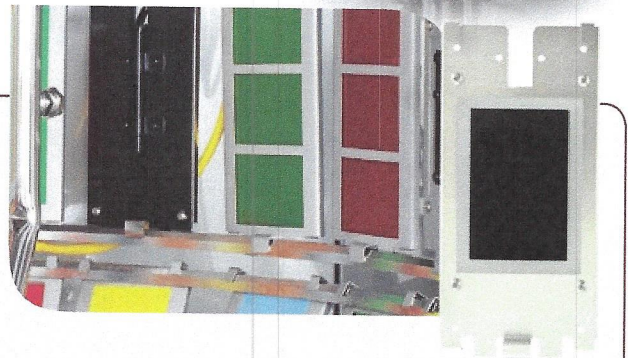
- Balances test chamber temperature, BPT or BST and humidity levels and compensates for changes in ambient laboratory conditions
- Recirculates chamber air, introduces ambient air or a combination of the two

Black Panel Thermometer (BPT) or Black Standard Thermometer (BST)

- Controls and monitors temperature at specimen level to ensure test repeatability
- Control of one sensor type while simultaneously monitoring the other

BPT/BST Temperature vs. Chamber Temperature (CHT)

- BPT and BST sensors simulate an estimate of the maximum temperature on a sample's surface
- CHT measures the temperature of the air circulating within the chamber
- Controlling both sample and air temperature delivers superior repeatability and can closely match the samples end use environment



Simultaneous Control of BPT/BST and CHT

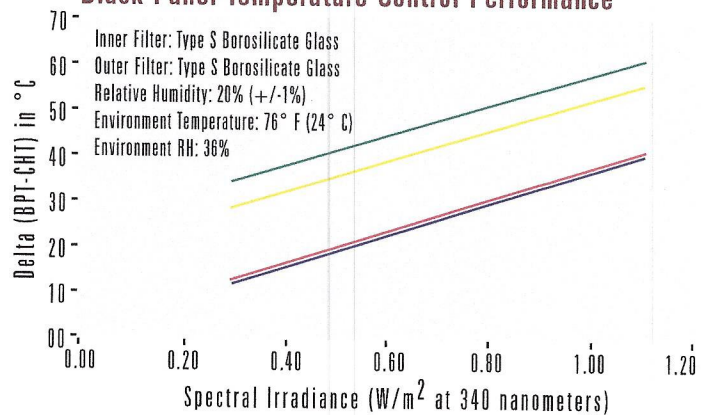
- Advanced PID algorithms allow for discrete manipulation of test parameters
- SmartDamper, variable speed blower and chamber heater are independently controlled
- Instrument performance envelope is optimized allowing maximum flexibility in custom test applications

Temperature and Humidity Control

Operable ranges of temperature control at various irradiance levels (under normal laboratory conditions).

- Minimum Delta BPT/CHT @ 60° C
- Minimum Delta BPT/CHT @ 45° C
- Maximum Delta BPT/CHT @ 45° C
- Maximum Delta BPT/CHT @ 60° C

Black Panel Temperature Control Performance



Optional Features and Accessories to Extend the Capabilities of Your Next Weather-Ometer®

Hybrid Cooling System

Improved xenon lamp cooling system dramatically reduces water consumption

- Expanded LiquiAir options include onboard mounting
- Reduces water consumption up to 100%*

* Dependent on options, ambient lab conditions, and test methods



WXView ("Weather" View)

Our new WXView data acquisition program allows users to archive test data or monitor conditions remotely in real time.

- All standard test parameters such as rack temperature, chamber temperature, % RH and irradiance
- Control parameters such as lamp power, fan speed, heater output, and damper position
- Automatic scaling of y-axes
- Convenient options allow user to save, print, or take a snapshot of test data
- Magnify and demagnify functions

