



QCT Condensation Tester

QCT Overview

The QCT® condensation tester is based on the Cleveland Condensing Humidity Cabinet, originally designed by the Cleveland Society for Paint Technology. The QCT tester simulates rain and dew by condensing liquid water directly onto the test specimen. The QCT condensation tester has an automatic dry-off system, which works by blowing heated air into the test chamber.

The QCT can perform standards like ISO 6270-1 that produce continuous, single-sided condensation with specimen backs exposed to cool laboratory air. Using a special accessory, the QCT can meet standards like ISO 6270-2 with enclosed condensing humidity. Customized cycles of wet and dry periods can be programmed using the full-color touchscreen display (available in 17 languages). The QCT tester is shipped completely wired and assembled.

Features

| | |
|-----------------------------|--|
| Specimen Capacity: | 64 Panels 75 × 150 mm (3 × 6 in) or 48 panels 100 × 150 mm (4 × 6 in) |
| Specimen Angle: | 60° from horizontal |
| Weight Capacity: | 45 kg (100 lbs) evenly distributed when using the Humidity Enclosure |
| Internal Dimensions: | |
| (w × d × h) max, bottom | 120 × 48 × 25 cm (47 × 19 × 10 in) |
| (w × d × h) min, top | 120 × 15 × 25 cm (47 × 6 × 10 in) |
| External Dimensions: | |
| (w × d × h) | 137 × 53 × 135 cm (54 × 21 × 53 in) |
| Weight: | Equipment weight - 80 kg (175 lbs); Shipping weight - 125 kg (275 lbs) |

Temperature

Temperature ranges from room temperature up to 72 °C (162 °F). Heater is 1500 W. Thermostat is adjustable from 27-72 °C (80-162 °F).

Construction

Corrosion-resistant anodized aluminum construction. Water pan is stainless steel.

Electrical

120 V ± 10%, 1-Phase, 60 Hz, 14 A -or-
 230 V ± 10%, 1-Phase, 50 Hz, 7 A -or-
 230 V ± 10%, 1-Phase, 60 Hz, 7 A
 Transformer kits available for 100 V or 200 V operation.

Water System

Automatic water feed connects to ¼ in (6 mm) plastic tubing. Water consumption approximately 2 liters of tap water per day.

Lab Recommendations

Temperature (°C): 23 ± 5 °C (73 ± 5 °F)
Relative Humidity (%): 50 ± 25%

Operating outside these conditions can result in temperature, humidity, or other faults. Never operate in laboratory ambient conditions > 36 °C or > 80% RH. Achievable test conditions, including maximum and minimum setpoints and transitions between steps, are influenced by laboratory ambient conditions and interdependencies between test parameters.

Warranty

For important warranty information, visit [Q-Lab.com/Warranty](https://www.q-lab.com/Warranty).



For sales, technical, or repair support, please visit:

Q-Lab.com/support

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