

THERMAL CHAMBERS - ACCURACY, STABILITY AND RELIABILITY

NOVONIX's line of thermal chambers are optimized for accuracy, stability, and reliability. Paired with UHPC channels, these thermal chambers complete our turnkey UHPC offering, and keep your testing programs on track. Various chamber options are available to meet your test temperature, cell format, and available power supply requirements.

Contact us to learn more about how UHPC technologies can improve your materials development and battery testing programs: sales@novonix.ca

16 POSITION, 2A CHAMBER

Performance Features:

Accuracy At 20°C: ±0.2°C Accuracy At 0°C: N/A Point Stability At 20°C: ±0.02°C Point Stability At 0°C: N/A Set Point Resolution: 0.0

Min. Temp. Set Point: 10°C Below Ambient Max. Temp. Set Point: 80°C Required Lab Temp Range: 18°C to 28°C Required Lab Temp Stability: ±1°C

Max. Power Draw (VA): 690 Power Supply Options: 100V, 120V and 230V

Heating Method: Resistive Cooling Method: Peltier Cooler Set Point Temperature Range: 10°C to 80°C

Part Numbers: TCA-PLS-10-56 | TCA-PLS-12-56 | TCA-PLS-23-56

Internal View





Physical Features:

Weight (Lbs): 65

External Dimensions WxHxD (In): 17.1" x 17.5" x 17.5" Internal Dimensions WxHxD (In): 14.2" x 11" x 11.25" Bench and Rack Mountable? Yes

Rack Space (U): 10U Integrated Cell Holders? No External Connector: 208131-1 Internal Connector: 443000800

8 POSITION, 20A CHAMBER

Performance Features:

Set Point Resolution: 0.0

Accuracy At 20°C: ±0.2°C Accuracy At 0°C: N/A Point Stability At 20°C: ±0.02°C Point Stability At 0°C: N/A

Min. Temp. Set Point: 10°C Below Ambient Max. Temp. Set Point: 80°C Required Lab Temp Range: 18°C to 28°C Required Lab Temp Stability: ±1°C

Max. Power Draw (VA): 690 Power Supply Options: 100V, 120V and 230V

Heating Method: Resistive

Cooling Method: Peltier Cooler Set Point Temperature Range: 10°C to 80°C

4 POSITION, 20A CHAMBER

Part Numbers: TCA-PHL-10-56 | TCA-PHL-12-56 | TCA-PHL-23-56

Accuracy At 20°C: ±0.5°C Accuracy At 0°C: N/A Point Stability At 20°C: ±0.05°C Point Stability At 0°C: N/A Set Point Resolution: 0.0

Min. Temp. Set Point: 10°C Below Ambient Max. Temp. Set Point: 80°C

Required Lab Temp Stability: ±1°C Max. Power Draw (VA): 690

Heating Method: Resistive Cooling Method: Peltier Cooler

Accuracy At 20°C: ±1.0°C Accuracy At 0°C: ±0.7°C Point Stability At 20°C: ±0.1°C Point Stability At 0°C: ±0.06°C Set Point Resolution: 0.0 Min. Temp. Set Point: (-20)°C Max. Temp. Set Point: 80°C

Required Lab Temp Range: 15°C to 20°C Required Lab Temp Stability: ±1°C

Max. Power Draw (VA): 1265

230V (50Hz) and 230V (60Hz) Heating Method: Resistive

Cooling Method: Condensing Unit (R-404A)

Set Point Temperature Range: -20°C to 80°C

Part Numbers: TCA-PHC-10-56 | TCA-PHC-12-56 | TCA-PHC-23-56

Internal View





Physical Features:

Weight (Lbs): 65

External Dimensions WxHxD (In): 17.1" x 17.5" x 17.5" Internal Dimensions WxHxD (In): 14.2" x 11" x 11.25" Bench and Rack Mountable? Yes

Rack Space (U): 10U Integrated Cell Holders? Yes External Connector: 213893-2 Internal Connector: Cylindrical

Performance Features:

Required Lab Temp Range: 18°C to 28°C

Power Supply Options: 100V, 120V and 230V

Set Point Temperature Range: 10°C to 80°C

Physical Features:

External View



Weight (Lbs): 90

External Dimensions WxHxD (In): 17.1" x 14.5" x 21.4" Internal Dimensions WxHxD (In): 14.2" x 12.5" x 15"

Bench and Rack Mountable? Yes Rack Space (U): 10U Integrated Cell Holders? No External Connector: 213893-2 Internal Connector: 213893-2

16 POSITION, 2A WRC

Performance Features:

Power Supply Options: 100V (50Hz), 120V (60Hz),

Part Numbers: TCA-WLS-10-50 | TCA-WLS-12-60 | TCA-WLS-23-50 | TCA-WLS-23-60



Physical Features:

Weight (Lbs): 135

External Dimensions WxHxD (In): 17.1" x 17.5" x 37.8" Internal Dimensions WxHxD (In): 14.2" x 11" x 11.25"

Bench and Rack Mountable? Yes Rack Space (U): 10U Integrated Cell Holders? No External Connector: 208131-1 Internal Connector: 443000800

4 POSITION, 20A WRC

Performance Features:

Accuracy At 20°C: ±1.0°C Accuracy At 0°C: ±0.8°C Point Stability At 20°C: ±0.1°C Point Stability At 0°C: ±0.07°C Set Point Resolution: 0.0 Min. Temp. Set Point: (-20)°C Max. Temp. Set Point: 80°C Required Lab Temp Range: 15°C to 20°C

Required Lab Temp Stability: ±1°C Max. Power Draw (VA): 1265

Power Supply Options: 100V (50Hz), 120V (60Hz), 230V (50Hz) and 230V (60Hz) Heating Method: Resistive

Cooling Method: Condensing Unit (R-404A) Set Point Temperature Range: -20°C to 80°C

Part Numbers: TCA-WHL-10-50 | TCA-WHL-12-60 | TCA-WHL-23-50 | TCA-WHL-23-60



PHYSICAL FEATURES:

Weiaht (Lbs): 155 External Dimensions WxHxD (In): 17.1" x 17.5" x 37.8" Internal Dimensions WxHxD (In): 14.2" x 12.5" x 15"

Bench and Rack Mountable? Yes Rack Space (U): 10U Integrated Cell Holders? No External Connector: 213893-2 Internal Connector: 213893-2

Common Safety Questions

1. Is the chamber airtight?

We chose not to design our chamber to be airtight, however, they are very well sealed and have excellent temperature accuracy and stability specification.

2. Do the chambers have safety certifications?

All our chambers are CE (Conformité Européenne) certified. If you have specific chamber safety requirements, we can assist in sourcing the right option for your needs.

3. How does the door fasten shut?

NOVONIX's chambers have their hinges on the left-hand side, swing outward, and use a Compression door latch (A7-10-301-20).

4. Do they have an automatic shut-off?

Our chambers have an automatic shut-off triggered at 85°C, five degrees above their maximum set-point.

5. Are there other safety features?

Our UHPC cyclers and their software have various additional safety features. Please see UHPC specifications for more detail on how these products work together.