











UHPC Thermal Chamber

UHPC Thermal Chamber – Accuracy, Stability and Reliability

NOVONIX's Thermal Chambers are optimized for accuracy, stability, and reliability. Paired with Ultra-High Precision Coulometry (UHPC) Channel Modules, these Thermal Chambers complete our turnkey UHPC offering, and enhance your testing programs. Various options are available to meet your test temperature, cell format, and available power supply requirements. Temperature can be controlled remotely on NOVONIX Chambers via UHPC Software.

	16-Position, 2A/10A	4-Position, 20A	8-Position, 20A	16-Position, 2A/10A WRC*	4-Position, 20A WRC*
Front View					
Internal View					
Set Point Temperature Range	10°C to 60°C	10°C to 60°C	10°C to 60°C	-20°C to 60°C	-20°C to 60°C
Accuracy (Stability) at 20°C	±0.2°C (±0.02°C)	±0.5°C (±0.05°C)	±0.2°C (±0.02°C)	±1.0°C (±0.1°C)	±1.0°C (±0.1°C)
Accuracy (Stability) at 0°C	N/A	N/A	N/A	±0.7°C (±0.06°C)	±0.8°C (±0.07°C)
Required Lab Temp Range (Stability)	18°C to 28°C (±1°C)	18°C to 28°C (±1°C)	18°C to 28°C (±1°C)	15°C to 20°C (±1.0°C)	15°C to 20°C (±1.0°C)
Heating Method	Resistive	Resistive	Resistive	Resistive	Resistive
Cooling Method	Peltier	Peltier	Peltier	Compressor	Compressor
Standard Rack Mountable (Size)	Yes (10U)	Yes (10U)	Yes (11U)	Yes (11U)	Yes (11U)
External Depth, inches (mm)	17.5 (445)	21.4 (546)	17.5 (445)	37.8 (961)	37.8 (961)
Internal Dimensions, inches (mm)	14.2 x 11 x 11.25 (360) x (279) x (285)	14.2 x 12.5 x 15 (360) x (317) x (381)	14.2 x 11 x 11.25 (360) x (279) x (285)	14.2 x 11 x 11.25 (360) x (279) x (285)	14.2 x 12.5 x 15 (360) x (317) x (381)

*Wide Range Chamber. NOVONIX recommends WRC for applications that will demand cold temperatures.

For regular applications, use Peltier-style chambers. These chambers, with solid-state coolers, efficiently and responsively cool within 10°C relative to ambient temperature.

Note: NOVONIX UHPC Thermal Chambers can be used with other cyclers available in the market.

Contact us to learn how UHPC technologies can accelerate your battery research, manufacturing, selection and more: bts-sales@novonixgroup.com