



**TPS**  
Thermal Product Solutions

»Blue M »Gruenberg »Lindberg/MPH »Tenney

## Battery Testing Solutions

- Environmental Chambers
- Walk In Rooms
- Industrial Ovens

# PARTNERS IN SAFETY

## We Help Create Your Custom Safety Solution

TPS Thermal Product Solutions uses the most up-to-date technology and engineering to build equipment to test a wide variety of batteries.

- Proprietary Risk Analysis
- Customization for your Application
- NFPA Compliance



## MEETS INDUSTRY TESTING STANDARDS SAFELY

## BATTERY TESTING SOLUTIONS

TPS has the environmental testing products and capabilities for applications including automotive, mobile devices, computers, telecommunications, defense and alternative energy.

What do the telecommunications, automotive, computer, defense, and alternative energy markets have in common? They all need a safe and reliable way to test batteries. And with more

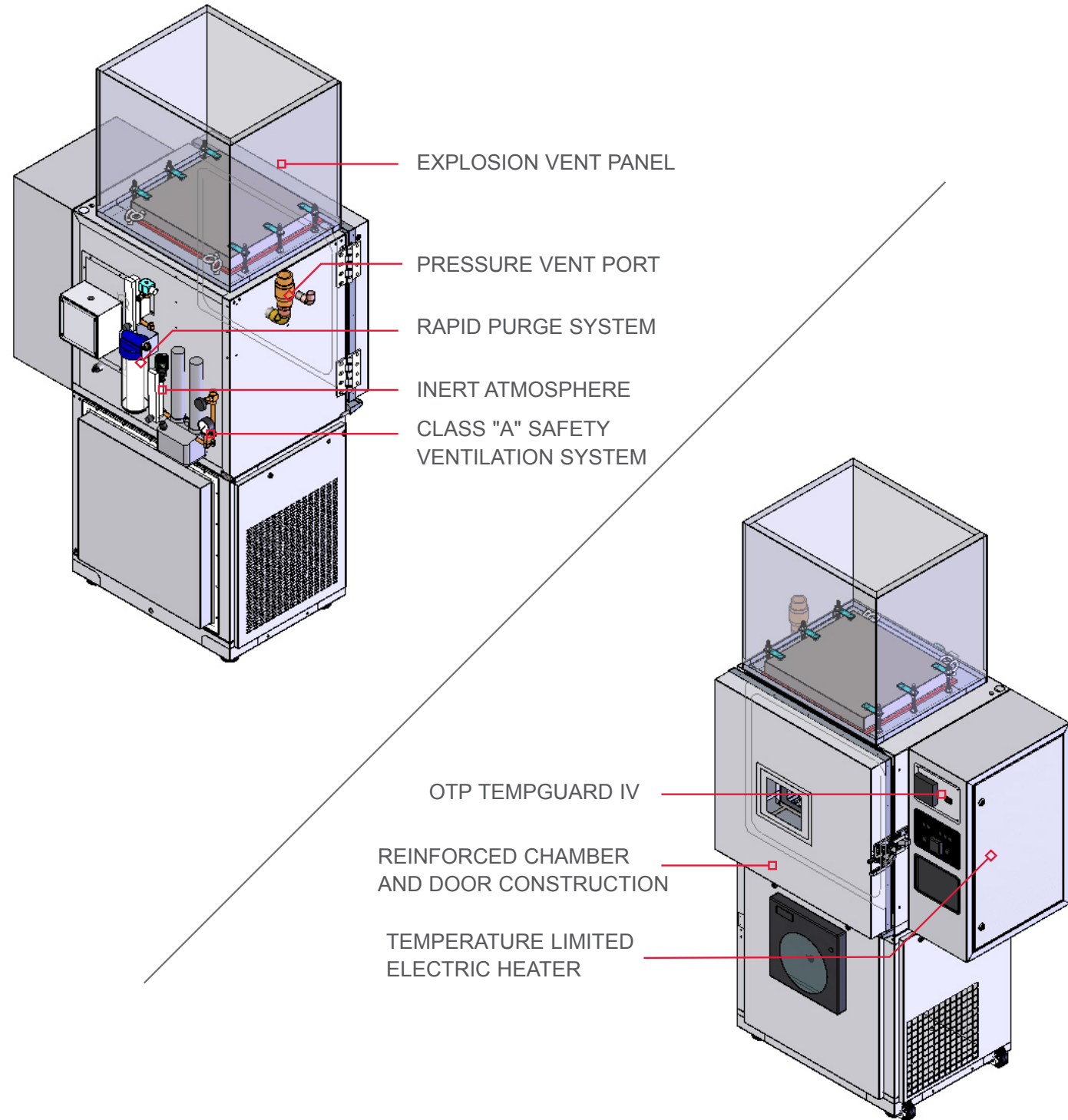
electronic devices being used and electric hybrid vehicles hitting the road every day, the ability to test lithium ion batteries has never been more in demand.



- IEC 62660-2 for abuse testing of automotive batteries
- SAE J2464 for automotive rechargeable batteries (RESS systems)
- IEC 60086-4 Safety of lithium batteries
- UL 1642 for lithium ion batteries
- UN/DOT 38.3 for testing lithium ion batteries
- IEC 61960 for portable lithium cells and batteries
- IEC 62133 for portable battery cells
- UL 2054 for consumer and commercial batteries
- IEEE 1625 Laptop Rechargeable batteries
- IEEE 1725 Phone rechargeable batteries

Safely test to all major standards including IEC, SAE, UL, UN/DOT, & IEEE  
(Safety options available for all Eucar Listings)

# BATTERY CHAMBER



## Baseline Capabilities Chambers and Walk In Rooms

- Temperatures Range from -73°C to 200°C (-100°F to 392°F)
- Humidity Range from 10% to 98%

**Wide Variety of Internal Dimensions to Accommodate your Testing Needs**

**Easy to Use Touchscreen Control System**

**NFPA Compliant Systems Tailored to your Specific Requirements**





# SAFETY OPTIONS

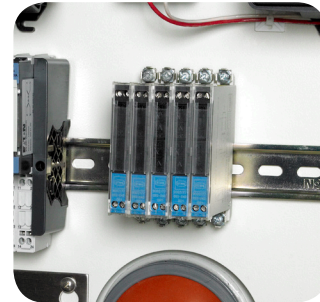
TPS offers a wide range of safety features and options to allow you to meet your testing needs while complying to NFPA safety requirements.

TPS Engineers are available to partner with you to create the chamber you need—size, features, safety, atmospheres, controllers, exhausts and more.

Put us to the test & test with the best.



Chamber Pressure Alarm (Standard)



Intrinsic Safety Barriers



NFPA Class A Ventilation System



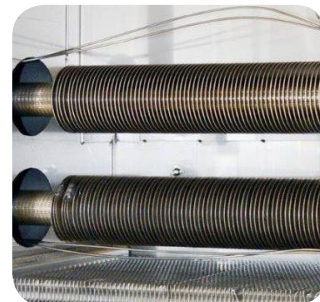
Inert Atmosphere (NFPA Compliant)



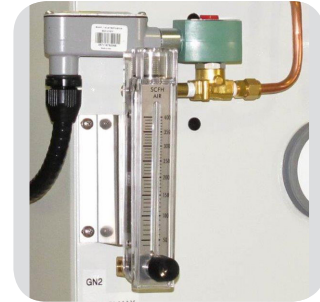
Solvent Monitor



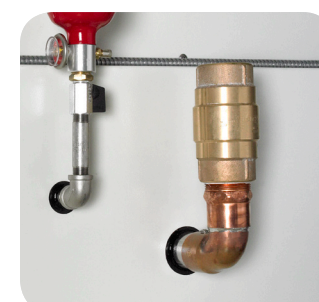
Gas Analyzers (H<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub>, CO)



Temperature Limited Electric Heaters



Rapid Purge System



Pressure Relief Ports (Standard)



NFPA Compliant Explosion Venting (Standard)



Remote Shutdown



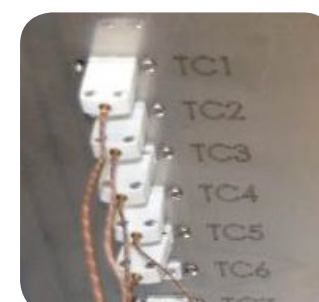
Automatic Door Locks



Emergency Stop Control



Heater Surface Temperature Limiters



Product Monitoring Thermocouples



Rapid Cryogenic Cooling



Fire Suppression (Water, Halon, CO<sub>2</sub>, LN<sub>2</sub>)



Alarms (Audible, Visual, Output Contacts)



Redundant Process Temperature High Limit (Standard)

# ABOUT TPS

Thermal Product Solutions (“TPS”), is a leading American manufacturer of industrial ovens, furnaces, pharmaceutical sterilizers, and environmental temperature cycling and stability test chambers. The TPS family of brands includes Baker Furnace, Blue M, Gruenberg, Tenney, Lindberg, Lunaire, MPH, and Wisconsin Oven.

[www.thermalproductsolutions.com](http://www.thermalproductsolutions.com)



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## Thermal Product Solutions

Baker Furnace, Blue M, Gruenberg, Tenney, Lindberg, Lunaire, MPH, and Wisconsin Oven

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Specifications and Product Information are subject to change without notice.