

# FARRAR®

## FARRAR® CYCLONE™



### ENGINEERED FOR PRECISION AND SUSTAINABILITY IN PHARMACEUTICAL OPERATIONS

FARRAR® CYCLONE™ is ideal for applications that require:

- Frequent access to stored material (>2x per day)
- Temperature stability to protect high-value materials from temperature excursions caused by frequent door openings or transient warming
- Short-term freezing and storing
- Flexible chamber set points
- Sustainability and efficiency balanced with performance
- Maximized storage space utilization and footprint

### ENGINEERED TO PROTECT WHAT YOU VALUE MOST

FARRAR® CYCLONE™ is the industry's first forced-air convection freeze/store chamber. Designed with flexible temperature set points (-20°C to -80°C), CYCLONE is purpose-built to meet precision freezing and storage needs, from drug discovery and pre-clinical phases to production-scale manufacturing applications.

FARRAR, a brand of Trane Technologies' Life Science Solutions business unit, has pioneered ultra-cold forced air convection technology for nearly three decades. Our time-tested, innovative technology is trusted to freeze and store irreplaceable, transformative discoveries.

CYCLONE Series chambers are designed for use in pharmaceutical and biopharmaceutical manufacturing, research and development facilities, bio-logistics, biorepositories, and other active laboratories.



### FAST TEMPERATURE RECOVERY AFTER DOOR OPENINGS

Purpose-built for frequent access



### UNMATCHED UNIFORMITY

Validation at any set point with  $\pm 3^{\circ}\text{C}$  across all temperature bands including defrost



### SUSTAINABLE PERFORMANCE

Powered by near-zero GWP refrigerants that are electronically metered to reduce overall energy consumption and boost sustainability



### DUAL PURPOSE FREEZING & STORING

Reduced capital expenses and simplified processing



## ADVANCED COOLING PERFORMANCE FOR CRITICAL STORAGE

FARRAR® CYCLONE™ combines ultra-low energy consumption and sustainable near-zero GWP refrigerants to deliver unmatched cooling performance. Pull-down, door-opening recovery, and temperature uniformity performance reach levels that are unheard of in conventional cold wall freezers, ultra-low temperature freezers, and standard cold storage solutions.



Powerful Performance	Fast Recovery	Leading Sustainability	Simple Serviceability
Temperature recovery of a chest freezer with the convenience of an upright using precise, forced air convection cooling.	Fast temperature recovery enables frequent access, minimizes excursions from door openings, and helps protect sample integrity without transient warming.	Industry-leading energy consumption unheard of in process freezing/storing, plus natural, near-zero GWP hydrocarbon refrigerants (R290/R170) to help meet energy efficiency and sustainability needs.	A packaged, quick-change top-mounted refrigeration system ensures easy access for point-of-use maintenance and minimal downtime.
Essential Flexibility	Automatic Defrost	Integration Ready	Optimal Footprint
The dual-purpose design allows you to freeze and store in one unit and has a wide temperature range for increased flexibility.	Automatic evaporator defrost helps ensure system-level cooling capacity remains at peak performance.	Designed for integrated communications with BMS/BAS systems and easily connects to existing monitoring programs via Modbus TCP/IP and BACnet IP.	Fit more units in the same space without impacting performance. Maximized volume-to-footprint ratio with top-directing heat rejection virtually eliminates footprint clearance requirements.

## FARRAR CYCLONE 900 SPECIFICATIONS

Storage Volume	Interior Dimensions (W x D x H)	Exterior Dimensions (W x D x H)	Energy Consumption	Alarms	Electrical
33 cu. ft. (934 L)	38 x 29.5 x 51 in 965 x 749 x 1295 mm	49.5 x 46.6 x 77.5 in 1258 x 1184 x 1968 mm	World-class, sustainable, low-energy usage	High/low temperature, door ajar, power failure, remote alarm contacts	Global 220-240 VAC 50/60 Hz

## LEAVE NOTHING TO CHANCE

Your work changes the lives of people, families, and communities for the better. Let FARRAR® help you safeguard your precious research and discoveries. Reach out to learn more or request a meeting.

800-B Beaty Street, Davidson, NC 28036  
T: 800.242.7197 | [www.farrarscientific.com](http://www.farrarscientific.com)  
[contactfarrar@tranetechnologies.com](mailto:contactfarrar@tranetechnologies.com)

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LSFU-SLB17-EN  
380955-B 06/2025

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