

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

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

FARRAR®, a brand of Trane Technologies' Life Science Solutions business unit, has pioneered ultra-cold forced air convection technology since 1996. 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 +/-2°C across full range



SUSTAINABLE PERFORMANCE

Powered by natural low GWP refrigerants that are electronically metered to reduce overall energy consumption and boost sustainability.



DUAL PURPOSE FREEZING & STORING

Reduced capital expenses Simplified processing



ADVANCED COOLING PERFORMANCE FOR CRITICAL STORAGE

FARRAR® CYCLONE™ freezer blends ultra-low energy consumption, sustainable low GWP refrigerants, and unmatched cooling performance, pull-down, door-opening recovery, and temperature uniformity unheard of in conventional cold wall freezers, traditional ultra-low temperature freezers, and standard cold storage solutions.

| Powerful Performance | Fast Recovery | Leading Sustainability | Simple Serviceability |
|--|---|---|--|
| Chest-like temperature recovery in the convenience of an upright with 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 hydrocarbon refrigerants (R290/R170). Low GWP refrigerants and energy efficiency to meet 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 | Connectivity 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 | Expected Top 25% ENERGY STAR® rated* | High/low temperature, door ajar, power failure, remote alarm contacts | Global 208-240VAC 50/60 Hz |

*ENERGY STAR® certification testing is currently underway

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 request a meeting.