

Thermo fisher presents Ultra-Low Temperature Freezer

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Thermo Fischer Scientific launches TSX ultra-low temperature freezer which features natural refrigerants for lower environmental impact and higher cooling efficiency.

Due to its intuitive design, the TSX freezer uses up to 50 percent less energy than conventional refrigerant ultra-low freezers and delivers temperature uniformity that continuously adapts to a laboratory's environment.

"Energy efficiency is a feature most lab and biobank managers and sustainability officers look for when making purchasing decisions, but energy savings can come at the expense of sample integrity," said Mr Chris Champlin, vice-president and general manager, Controlled Temperature Technologies at Thermo Fisher Scientific. He added, "The new Thermo Scientific TSX ultra-low temperature freezer delivers unparalleled efficiency, noise reduction, and sample protection. Now, labs and biorepositories can not only reap the benefits of significant energy savings, but also feel confident that their samples are in an environment designed for their protection."

Conventional ultra-low temperature freezers use single-speed compressors that continually cycle on and off, resulting in poor temperature recovery following door openings. The TSX ultra-low temperature freezer comes with the unique V-Drive technology.

When conditions are stable, the V-Drive is designed to operate at a low speed to reduce energy consumption while maintaining a uniform temperature. When dealing with frequent door openings or when samples are added to the freezer, the control system detects the activity and increases the drive speed to bring temperatures quickly back to the set point.

The V-Drive also helps limit sound output to 46 db(A), making the TSX freezer up to 20 times quieter, comparable to a conventional refrigerator. For busy labs and biorepositories, the constant, disruptive noise created by compressors can compromise communications and create a less-than-ideal working environment. What's more, the freezer utilizes water-

blown foam insulation, which eliminates the off-gassing typical of urethane-insulated freezers.

Additional product features include a 600-box sample capacity to maximize storage within a 1.06m² footprint, intuitive touch screen interface for access to vital freezer information, and on-board computer and USB port for data storage and exchange.

The TSX ultra-low temperature freezer, will be displayed at the International Society for Biological and Environmental Repositories (ISBER) 2015 Annual Meeting and Exhibits.