

Thermo Scientific™ TSX Series -86°C ULT Freezers

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Now available in an expanded range of capacities, Thermo Scientific™ TSX series of ULT freezers are designed to meet the highest standards in reliability, sustainability and temperature management. At the heart of the TSX Series is V-drive technology, designed to adapt to user patterns, substantially reducing energy and HVAC costs without compromising performance. All TSX Series freezers are manufactured in a zero waste facility and are built with natural refrigerants and water blown foam insulation, compliant with sustainability standards.

- No need to worry about where your samples are stored within the freezer, with peak variation less than 5°C, your samples are protected and safely stored throughout the entire cabinet space
- Long warm up time from -80 to -50°C: 5.05 hours
- Quiet enough to reside directly in the laboratory, rather than in the hall. At just 45.5dBA, the TSX series' sound level is comparable to a home refrigerator
- V-drive's adaptive control is designed to detect usage patterns such as door openings when a higher compressor speed is needed and periods of stability where the compressor runs at a lower speed, saving energy without compromising protection
- DeviceLink™ comes embedded in your ULT freezer providing real time monitoring of system status and sample temperature
- Reduced frost with controllable heater



| Code | Capacity, L | Capacity, No. of 2" Cryoboxes | Dims, w x d x h, mm | Energy Consumption, kWh/24hr | Door Opening Recovery, mins | Price |
|----------------|-------------|-------------------------------|---------------------|------------------------------|-----------------------------|-----------|
| FRE1016 | 549 | 400 | 719 x 955 x 1981 | 7.9 | 17 | £17795.00 |
| FRE1018 | 682 | 500 | 864 x 955 x 1981 | 8.3 | 27 | £19179.00 |
| FRE1022 | 816 | 600 | 1006 x 955 x 1981 | 8.7 | 24 | £20540.00 |
| FRE1024 | 949 | 700 | 1148 x 855 x 1981 | 9.5 | 28 | £22134.00 |

Thermo Scientific™ Forma™ FDE Series ULT Freezers

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Part of the Standard Performance (STP) family, Thermo Scientific™ Forma™ FDE -80°C series ULT freezers. The FDE series was specifically designed to provide customers with a sustainable, ergonomic, and reliable freezer. With up to 44% energy savings and low cabinet temperature variation, these three all-natural, hydrocarbon refrigerant based freezers are prepared for the demands of the everyday lab.

- Powered by H-drive's hydrocarbon technology, these systems save up to 25% in energy usage and heat rejection over conventional refrigerant ultra low freezers
- Sound output below 53dBA, enables the freezer to come out of the hallway and into the lab
- Meets ±10°C validation protocols at -80°C with strong peak variation and steady state temperature variation
- All models contain four inner doors allowing for easy sample access without exposing greater freezer content to ambient conditions
- Simple capacitive touch buttons in a 5.6" display
- Manufactured in an award winning, zero waste to landfill facility
- Lower HVAC costs as a result of less heat emission into the environment
- Natural refrigerants and water blown foam insulation, making the series compliant with sustainability standards



| Code | Alt Ref | Capacity, L | Capacity, No. of 2" Cryoboxes | Energy Consumption, kWh/24hr | Dims, w x d x h, mm | Door Opening Recovery, mins | Price |
|----------------|------------|-------------|-------------------------------|------------------------------|---------------------|-----------------------------|-----------|
| FRE1026 | FDE30086FV | 422 | 300 | 11.6 | 584 x 977 x 1981 | 16 | £13145.00 |
| FRE1028 | FDE40086FV | 549 | 400 | 12 | 719 x 977 x 1981 | 17 | £14425.00 |
| FRE1032 | FDE50086FV | 682 | 500 | 12.9 | 864 x 978 x 1981 | 22 | £15708.00 |
| FRE1034 | FDE60086FV | 816 | 600 | 14.6 | 1006 x 977 x 1981 | 24 | £17044.00 |