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Thermo Forma Upright Ultra-low Freezer FDE50086FA





24 cu. ft, 120V

Rating: Not Rated Yet
Price
Sales price $7,250.00

Ask a question about this product

ManufacturerThermo Forma

Description

Thermo Forma FDE50086FA is a 24.1 cu. ft. (682 L) upright ultra-low temperature freezer from the TDE Series Standard Performance (STP) family.

Powered by H-drive hydrocarbon technology, it provides reliable sample storage for up to 500 2-inch boxes (50,000 × 2 mL vials) across a temperature range of -50°C to -86°C. It emphasizes energy efficiency, quiet operation, fast recovery, and sample security for laboratory use, operating on 115 V / 60 Hz.

Key features
Capacity and storage — 24.1 cu. ft. (682 L); holds 500 2-inch boxes or 50,000 × 2 mL vials; three shelves with 205 lb (93 kg) capacity each; compatible with most standard racking systems (including Thermo Scientific racks for boxes, microplates, and cryotubes).
Temperature performance — Range of -50°C to -86°C; meets ±10°C validation protocols at -80°C with strong peak variation and steady-state control; long warm-up time (up to ~5 hours from -80°C to -50°C in typical testing).
H-drive hydrocarbon refrigeration — Saves up to 25% in energy usage and heat rejection versus conventional refrigerants; natural refrigerants (R290 first stage, R170 + R290 mix second stage) reduce operating stress for improved reliability.
Fast recovery and efficiency — Recovers cabinet temperature approximately 20% faster after door openings (typical 60-second door-open recovery around 15–20 minutes); designed for frequent daily use.
Quiet operation — Sound output below 53 dBA (around 50 dBA), suitable for placement inside the lab rather than a hallway.
User interface and access — HIC 5.6-inch display with capacitive touch buttons; one outer door plus four inner doors to minimize ambient exposure when accessing samples; ergonomic handle and eye-level display.
Security and connectivity — Setpoint security, alarm settings, and padlock-compatible doors; Smart-Vue and Thermo Scientific DeviceLink Hub compatible for monitoring.
Insulation and construction — Vacuum Insulation Panels (VIP) + water-blown polyurethane foam (SNAP-compliant); manual defrost; cULus listed.
Electrical and dimensions — 115 V, 60 Hz, 12.5/20 A, NEMA 5-20 plug; interior dimensions 28.3 × 28.8 × 51.2 in (71.9 × 73.0 × 130.1 cm); exterior 38.5 × 34.0 × 78 in (97.7 × 86.4 × 198.1 cm); weight approximately 640 lb (shipping ~734 lb).

Comes with our 90-day warranty.

Biotech Equipment Sales, Inc.: based in South San Francisco, the Biotech capital of the world, since 2009. We are dedicated to bringing high-quality pre-owned laboratory instrumentation to our scientific community.

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