

Technical Data Sheet Thermo Scientific Revco Ultra-Low Temperature Upright Freezer

Thermo Fisher Scientific, Asheville, North Carolina

| | Model Number | |
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| | Thermo Scientific Revco UxF30086A | |
| Specifications | Application, Rating and Electrical Data | |
| Application | Storage of General (non-flammable) Laboratory Materials | |
| Storage Volume | 421 liters / 14.9 cu. ft., 300 Standard 2" Boxes | |
| Temperature Rating | -50°C to -85°C @ 32 °C(90°F) Ambient | |
| Electrical Power | 120V, 60 Hz, 1 Phase | |
| Instrument Rated Current | 16.0 FLA | |
| Building Supply Rating | 20.0A dedicated grounded circuit. Protected by circuit breaker rated for inductive loads | |
| Power Plug/Power Cord Length | NEMA 5-20P, 10 Feet or 3.0 Meters | |
| Agency Listings | UL, cUL | |
| Application Environment | Indoor Use Only; Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15C - 32C (59F - 90F) | |
| Cooling Water Condition | N/A | |
| Lifetime of Product | 10 years | |
| | Refrigeration Configuration | |
| Refrigeration System | Industrial-Rated Two Stage Cascade System | |
| Compressor / Number | 1 HP Hermetic Compressor for Low Temperature Application / 2 | |
| Condenser Type/Number | Enhanced Finned-Tube and Forced-Air Cooled / 1 | |
| Expansion Device | Capillary Tube On Both Cascade Stages | |
| Evaporator Type | Cold Wall With Enhanced Heat Transfer Treatment | |
| Defrost Method | Manual Defrost | |
| Refrigerant Charge/Flammability | CFC/HCFC-Free Enviromentally Safe Refrigerant Mixtures / Non-Flammable in both stages | |
| | Controller/Electrical System Configuration and Features | |
| Controller Level | Eye Level | |
| Power Switch | | f with Circuit Breaker |
| Controller Type | Microprocessor Control with Touch Screen Input and Display. Includes USB System Data Retreival | |
| Setpoint Security | Yes | |
| Compressor Safe Guard | High Temperature Warning/Current and Temperature Protection/Logic Protection | |
| Control Sensor | Single RTD (1000 ohm Platinum RTD) | |
| RS232/Remote Alarm Terminals | RS485/4-20mA output | |
| Adjustable Warm/Cold Alarms | Fully Adjustable | |
| Auto-Voltage Safeguard | Buck/Boost System | |
| | Dimensions and Construction | |
| Interior Dimensions (H x D x W) | 1.30 x 0.72 x 0.45 m (51.2 x 28.3 x 17.8 in.) | |
| Exterior Dimensions (H x D x W) | 1.98 x 0.96 x 0.69 m (78.0 x 37.6 x 27.0 in.) | |
| Insulation | High R-value Vacuum Insulation Panels and High Density Water-Blown Polyurethane Foam | |
| Perimeter Heater | Silicone-Based High Performance Seal Gasket with Electrical Door Perimeter Heater | |
| Shelves / Capacity | 3 or 4 Stainless Steel Shelves Adjustable In 1" Increments. Max. Cap. per Shelf: 56.8 kg (125 lbs.) | |
| All-Direction Casters | Standard with Locks | |
| Ship Weight | Approximately 303 kg (667 lbs.) | |
| Other Options | LN2 or CO2 Back Up System, HID Controlled Access, SMS Text, Chart Recorder, 4 or 5 Inner Doors | |
| | Typical Performance Characteristics in Normal Ambient Condition | |
| 25C Ambient (18768-H-D) —PD —WU | 25C Ambient (18768-H-D) ——Avg ——Max ——Min | Performance Data Summary (Typical Average Values) |
| 30 30 30 30 30 30 30 30 30 30 30 30 30 3 | -70 -72 -74 -75 -86 -88 -90 -90 -90 -90 -90 -90 -90 -90 -90 -90 | Avg. Cabinet Temp. at -80C Setpoint, High Performance (C): Peak Variation From -80C Setpoint, Energy Saving (C): Peak Variation From -80C Setpoint, Energy Saving (C): Peak Variation From -80C Setpoint, Energy Saving (C): Stability, -80C Setpoint, High Performance (C): Informity, -80C Setpoint, High Performance (C): Min. Door Open Recovery to -75C Avg. Cabinet Temp. (min): Cycle Rate, -80C Setpoint, High Performance (on/off, min/min): Duty Cycle, -80C Setpoint, High Performance (%): Energy Consumption, -80C Setpoint, High Performance (kWh/day): Heat Rejection, -80C Setpoint, High Performance (BTU/hr): Energy Consumption, -80C Setpoint, Energy Saving (kWh/day): Heat Rejection, -80C Setpoint, Energy Saving (BTU/hr): Pulldown Time to -80C Average Cabinet Temp. (hours) Warmup Time, From Average Cabinet Temp. of -80C to -50C (min): |

1) Performance is nominal and individual units may vary.

- Freezer performance will differ due to product amount, product size and operating conditions.
- Continuous product enhancements may, without notice, result in amendments or ommisions to this specification. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.

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