

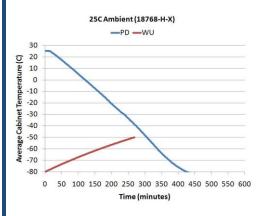
Technical Data Sheet

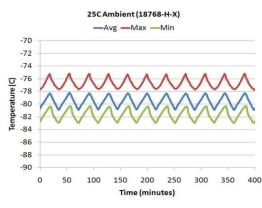
Revco Ultra-Low Temperature Upright Freezer

MODEL RELEASE - 65

Thermo Fisher Scientific, Asheville, North Carolina

Model Number				
Thermo Scientific Revco UxF60086D				
Application, Rating and Electrical Data				
Storage of General (non-flammable) Laboratory Materials				
815 liters / 28.8 cu. ft., 600 Standard 2" Boxes				
-50°C to -86°C				
208-230V, 60 Hz, 1 Phase				
9.0 AMP				
15.0A dedicated grounded circuit. Protected by circuit breaker rated for inductive loads				
NEMA 6-15P for D / IEC Cords, 3.048 Meters (10 Feet)				
UL, cUL				
Indoor Use Only				
Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F)				
Refrigeration Configuration				
Industrial-Rated Two Stage Cascade System				
Hermetic Compressor for Low Temperature Application / 2				
1200 W				
Enhanced Finned-Tube and Forced-Air Cooled / 1				
Capillary Tube				
Cold Wall With Enhanced Heat Transfer Treatment				
Manual Defrost				
R404A in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable				
Controller/Electrical System Configuration and Features				
Тор				
On-Off with Circuit Breaker				
Microprocessor Control with Touch Screen Input and Display. Includes USB System Data Retrieval				
Yes				
High Pressure Cutout Switch/High Temp Cutout Switch/Current protection/Logic protection				
Single RTD (1000 ohm Platinum RTD)				
RS485/4-20mA output				
Fully Adjustable				
Buck/Boost System				
Dimensions and Construction				
1300 H x 686 D x 874 W mm (51.2 H x 27 D x 34.4 W in.)				
1981 H x 955 D x 1107 W mm (78 H x 37.6 D x 43.6 W in.)				
2111 H x 1086 D x 1206 W mm (83.12 H x 42.75 D x 47.48 W in)				
High R-value Vacuum Insulation Panels and High Density Water-Blown Polyurethane Foam				
Silicone-Based High Performance Seal Gasket with Electrical Door Perimeter Heater				
4 Stainless Steel Shelves Adjustable In 25mm (1in) Increments. Max. Cap. per Shelf: 110 kg (245 lbs.)				
Standard with Locks				
Approximately 388 kg / 854 lbs.				
LN2 or CO2 Back Up System, HID Controlled Access, SMS Text, Chart Recorder, 4 or 5 Inner Doors				
Typical Performance Characteristics in 25 ° C Ambient				





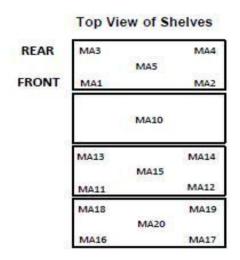
Performance Data Summary (Typical Average Values)

Avg. Cabinet Temp. at -80C Setpoint, High Performance (C):	-79.5
Peak Variation From -80C Setpoint, High Performance (C):	+4.9 / -2.9
Peak Variation From -80C Setpoint, Energy Saving (C):	+9.6 / -0.8
Stability, -80C Setpoint, High Performance (C):	2.5
Uniformity, -80C Setpoint, High Performance (C):	5.2
1 Min. Door Open Recovery to -75C Avg. Cabinet Temp. (min):	33
Cycle Rate, -80C Setpoint, High Performance (on/off, min/min):	19/12
Duty Cycle, -80C Setpoint, High Performance (%):	62
Energy Consumption, -80C Setpoint, High Performance (kWh/day):	21.3
Heat Rejection, -80C Setpoint, High Performance (BTU/hr):	3028
Energy Consumption, -80C Setpoint, Energy Saving (kWh/day):	17.7
Heat Rejection, -80C Setpoint, Energy Saving (BTU/hr):	2516
Pulldown Time to -80C Average Cabinet Temp. (hours)	7.9
Warmup Time, From Average Cabinet Temp. of -80C to -50C (min):	257

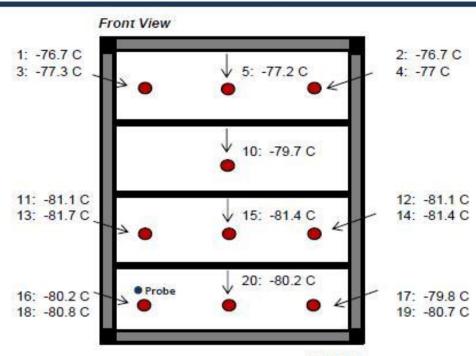
- Performance is nominal and individual units may vary.
- 2) Freezer performance will differ due to product amount, product size and operating conditions.
- 3) Continuous product enhancements may, without notice, result in amendments or ommisions to this specification. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.
- * Manufacturer measured compressor capacity taken at standard -23°C/49°C (Evap/Cond) condition.
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Typical Cabinet Temperature Map 600D ULT, 3 Inner-Shelves + Base, Single Outer Door Temperatures are averages during > 12 hours of cycle after reaching setpoint of -80 C



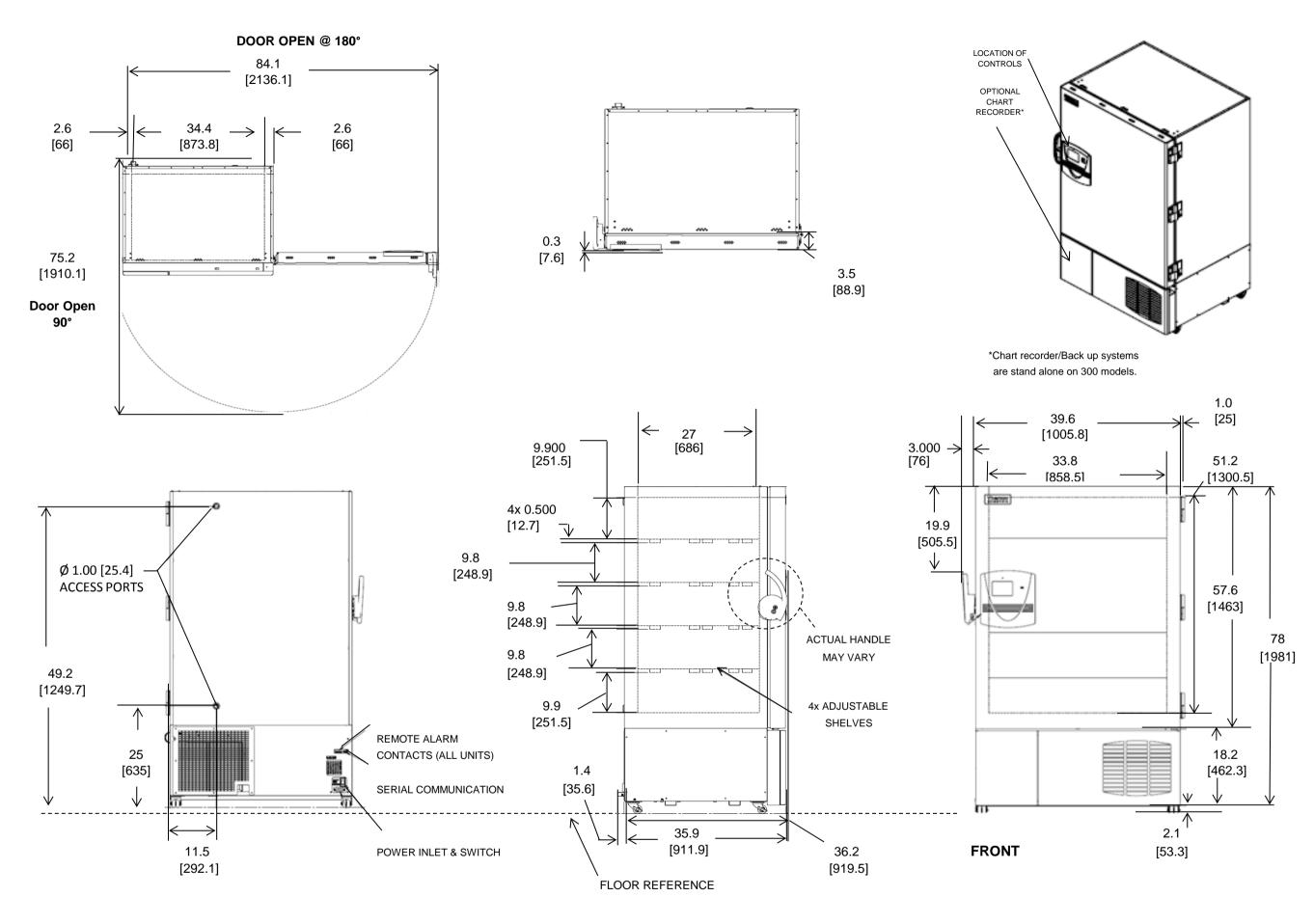
Cabinet Average: -79.6 C Probe Average: -81.3 C Peak Variation: +4.9 C/3 C



18768-H-X

°C	MA1	MA2	MA3	MA4	MA5	MA10	MA11	MA12	MA13
Avg	-76.7	-76.7	-77.3	-77.0	-77.2	-79.7	-81.1	-81.1	-81.7
Max	-75.2	-75.1	-75.6	-75.5	-75.7	-78.1	-79.8	-79.8	-80.3
Min	-77.8	-77.8	-78.6	-78.2	-78.3	-80.9	-82.3	-82.4	-83.0

-8	MA14	MA15	MA16	MA17	MA18	MA19	MA20
Avg	-81.4	-81.4	-80.2	-79.8	-80.8	-80.7	-80.2
Max	-79.9	-80.1	-79.1	-78.5	-79.5	-79.3	-78.9
Min	-82.9	-82.8	-82.0	-81.7	-82.8	-82.6	-82.0



BACK



DO NOT USE FOR ENGINEERING PURPOSES. SUBJECT TO CHANGE WITHOUT NOTICE.



29 cuft Upright Freezer 5 Inner Doors

Single Outer Door
Top Mount Controls