

Technical Data Sheet

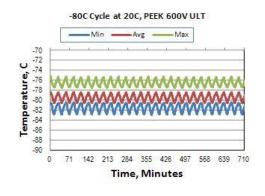
Revco Ultra-Low Temperature Upright Freezer

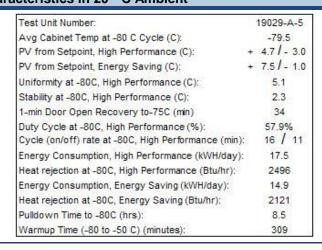
MODEL RELEASE - 65

Thermo Fisher Scientific, Asheville, North Carolina

On a siding tion of	Model Number Thermo Scientific Revco UxF60086V					
Specifications	Application, Rating and Electrical Data					
Application	Storage of General (non-flammable) Laboratory Materials					
Application						
Storage Volume	815 liters / 28.8 cu. ft., 600 Standard 2" Boxes					
Temperature Rating	-50°C to -86°C					
Electrical Power	230V, 50 Hz, 1 Phase					
Instrument Rated Current	9.5 AMP					
Building Supply Rating**	15.0A dedicated grounded circuit. Protected by circuit breaker rated for inductive loads					
Power Plug/Power Cord Length**	Country Dependant plug / IEC Cords, 3.048 Meters (10 Feet)					
Agency Listings	CE					
Indoor/Outdoor Usage	Indoor Use Only					
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F)					
	Refrigeration Configuration					
Refrigeration System	Industrial-Rated Two Stage Cascade System					
Compressor / Number	Hermetic Compressor for Low Temperature Application / 2					
Compressor Capacity*	980 W					
Condenser Type/Number	Enhanced Finned-Tube and Forced-Air Cooled / 1					
Expansion Device	Capillary Tube					
Evaporator Type	Cold Wall With Enhanced Heat Transfer Treatment					
Defrost Method	Manual Defrost					
Refrigerant Charge/Flammability	R404A in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable					
	Controller/Electrical System Configuration and Features					
Controller Level	Тор					
Power Switch	On-Off with Circuit Breaker					
Controller Type	Microprocessor Control with Touch Screen Input and Display. Includes USB System Data Retrieval					
Setpoint Security	Yes					
Compressor Safe Guard	High Pressure Cutout Switch/High Temp Cutout Switch/Current protection/Logic protection					
Control Sensor	Single RTD (1000 ohm Platinum RTD)					
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)	1300 H x 686 D x 874 W mm (51.2 H x 27 D x 34.4 W in.)					
Exterior Dimensions (H x D x W)	1981 H x 960 D x 1102 W mm (78 H x 37.8 D x 43.4 W in.)					
Shipping Dimensions	2111 H x 1086 D x 1206 W mm (83.12 H x 42.75 D x 47.48 W in)					
Insulation	High R-value Vacuum Insulation Panels and High Density Water-Blown Polyurethane Foam					
Door Seal	Silicone-Based High Performance Seal Gasket with Electrical Door Perimeter Heater					
Shelves / Capacity	4 Stainless Steel Shelves Adjustable In 25mm (1in) Increments. Max. Cap. per Shelf: 110 kg (245 lbs.)					
All-Direction Casters	Standard with Locks					
Shipping Weight	Approximately 388 kg / 854 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 20 ° C Ambient					
	VI.					







- 1) 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.
- ** For Australian/New Zealand Units: Due to different wiring regulations in Australia and New Zealand, a 10A dedicated ground circuit, protected by a circuit breaker rated for inductive loads is required for this unit. The power cord is AS/NZS 3112: 10A (2.5m length). Contact your local sales representative for more information.
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Typical Cabinet Temperature Map PEEK 600 Size, 5 Inner-Door Unit Temperatures are averages during > 20 cycles after reaching setpoint of -80 C

Top View of Shelves

REAR

FRONT

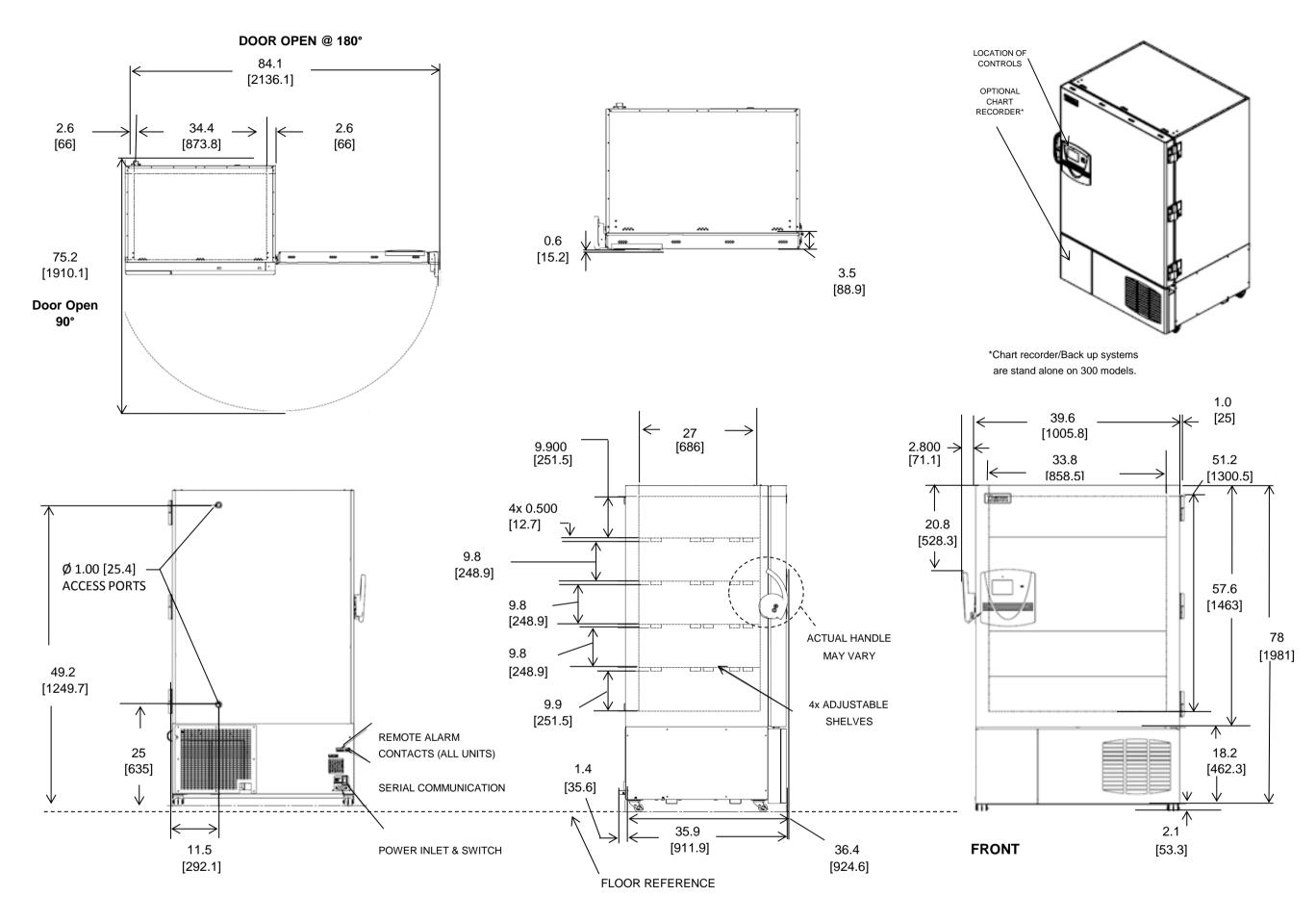
MA3 MA4 MA5 MA1 MA2 MA10 MA13 MA14 MA15 MA12 MA11 MA20 MA23 MA24 MA25 MA22

Cabinet Average: -79.5 C Probe Average: -81.5 C Peak Variation: +4.7 / -3.0 C

1: -76.6 C 3: -77.3 C	Front View	↓ 5: -77.4 C ←	1	2: n/a 4: -76.6 C
		10: -79.0 C	1	
11: -80.2 C 13: -80.8 C	->•	↓ 15: -80.7 C	-	12: -80.3 C 14: -80.6 C
		V 20: -81.6 C		
21: -80.0 C 23: -80.4 C	Probe	↓ 25: -80.0 C • ←	1	22: -79.5 C 24: -80.4 C
		19029-	A-5	

	MA1	MA2	MA3	MA4	MA5	MA10	MA11	MA12	MA13
Avg	-76.6	n/a	-77.3	-76.6	-77.4	-79.0	-80.2	-80.3	-80.8
Max	-75.5	n/a	-76.0	-75.3	-76.1	-77.7	-79.1	-79.2	-79.7
Min	-77.5	n/a	-78.3	-77.9	-78.4	-80.0	-81.2	-81.3	-81.9

	MA14	MA15	MA20	MA21	MA22	MA23	MA24	MA25
Avg	-80.6	-80.7	-81.6	-80.0	-79.5	-80.4	-80.4	-80.0
Max	-79.4	-79.6	-80.5	-79.2	-78.8	-79.4	-79.1	-79.0
Min	-81.6	-81.7	-83.0	-81.2	-81.0	-82.1	-82.2	-81.5



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