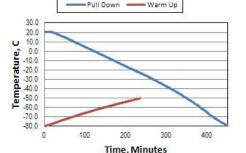


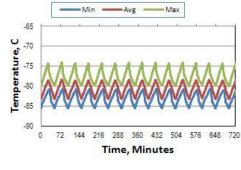
## Technical Data Sheet Revco Ultra-Low Temperature Upright Freezer

MODEL RELEASE - 65

Thermo Fisher Scientific, Asheville, North Carolina

	Model Number           Thermo Scientific Revco UxF40086V WC           Application, Rating and Electrical Data	
Specifications		
Application	Storage of General (non-flammable) Laboratory Materials	
Storage Volume	548 liters / 19.4 cu. ft., 400 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)	
Cooling Water Condition	Inlet Temp: (12C - 25C) / (54F - 77F); Min Flow Rate: 3.8 LPM / 1 GPM; Max Pressure: 6.2 bar / 90 psia	
		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	Brazed Plate Heat Exchanger With Water Cooled / 1	
Expansion Device	Capillary Tube	
Evaporator Type	Cold Wall With Enhanced Heat Transfer Treatment	
Defrost Method	Manual Defrost	
Refrigerant Charge/Flammability		) Mix in 2nd Stage / Non-Flammable
		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 589 W mm (51.2 H x 27 D x 23.2 W in.)	
Exterior Dimensions (H x D x W)	1981 H x 955 D x 820 W mm (78 H x 37.6 D x 32.3 W in.)	
Shipping Dimensions	2111 H x 1086 D x 920 W mm (83.12 H x 42.75 D x 36.23 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: 73.4 kg (165 lbs.)	
All-Direction Casters	Standard with Locks	
Shipping Weight		332 kg / 730 lbs.
Other Options		ess, SMS Text, Chart Recorder, 4 or 5 Inner Doors
	I ypical Performance Chara	acteristics in 20 ° C Ambient
		Test Unit Number: 18870-A-C
PD & WU at 20C, 400V Water-Cooled ULT, 18870-A-C	-80C Cycle at 20C, 400V Water-Cooled ULT, 18870-A-C	Avg Cabinet Temp at -80 C Cycle (C):         -80.8           PV from Setpoint, High Performance (C):         + 5.9 / - 5.7
Pull Down Warm Up	Min Avg Max	PV from Setpoint, High Performance (C): + 5.9 / - 5.7 PV from Setpoint, Energy Saving (C): + 9.7 / - 4.4
20.0		Uniformity at 20C High Berformance (C): 5.7





Test Unit Number:	18870-A-C
Avg Cabinet Temp at -80 C Cycle (C):	-80.8
PV from Setpoint, High Performance (C):	+ 5.9/- 5.7
PV from Setpoint, Energy Saving (C):	+ 9.7/- 4.4
Uniformity at -80C, High Performance (C):	5.7
Stability at -80C, High Performance (C):	5.3
1-min Door Open Recovery to-75C (min)	30
Duty Cycle at -80C, High Performance (%):	57.8%
Cycle (on/off) rate at -80C, High Performance (min	): 29 / 21
Energy Consumption, High Performance (kWH/day)	15.8
Heat rejection at -80C, High Performance (Btu/hr):	786
Energy Consumption, Energy Saving (kWH/day):	14.8
Heat rejection at -80C, Energy Saving (Btu/hr):	740
Pulldown Time to -80C (hrs):	7.6
Warmup Time (-80 to -50 C) (minutes):	235
Water Supply Inlet Temp (C)	18

1) Performance is nominal and individual units may vary.

2) 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.

\* Manufacturer measured compressor capacity taken at standard -23°C/49°C (Evap/Cond) condition.

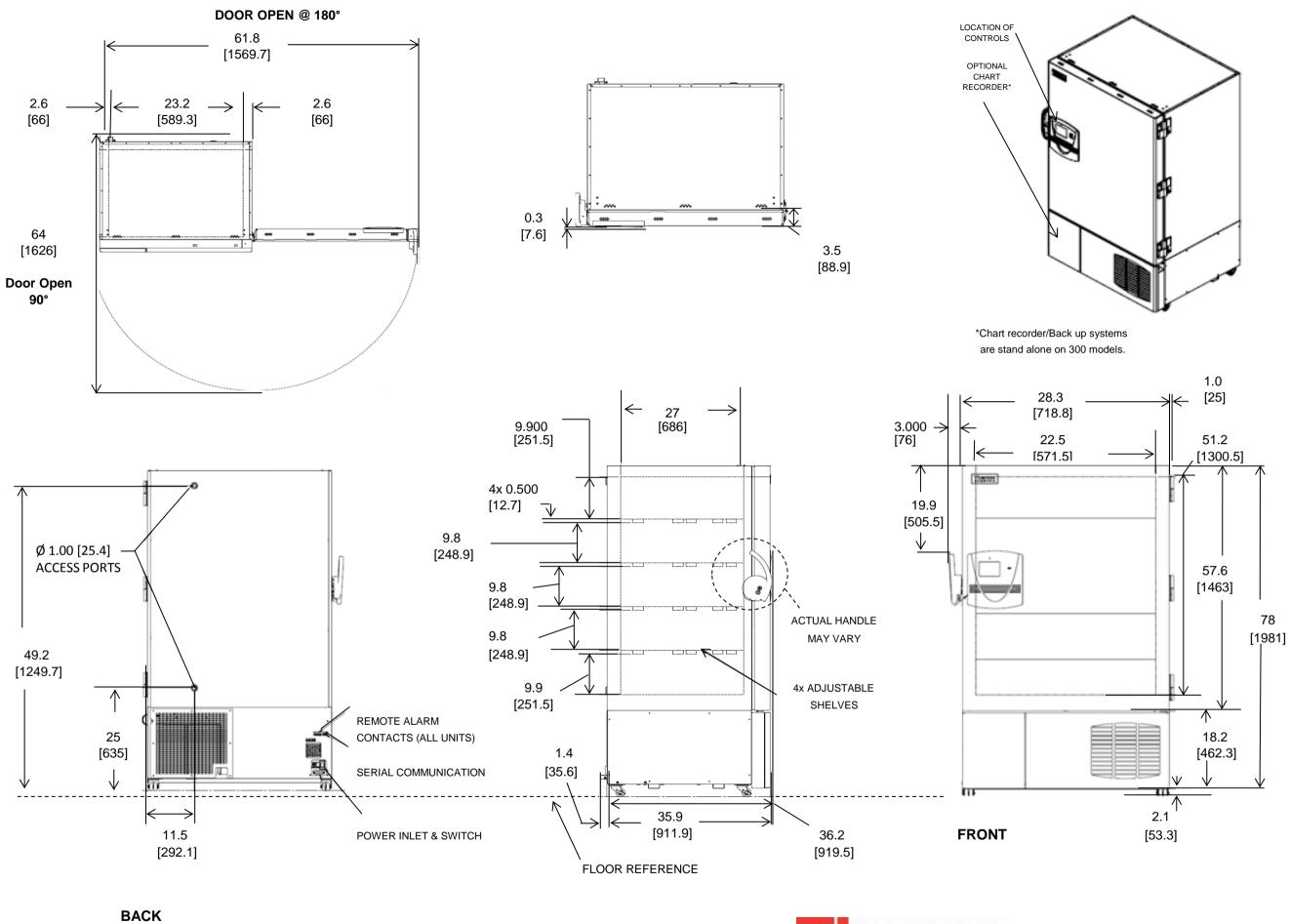
\*\* For Australian/New Zealand Units: Due to different wiring regulations in Australia and New Zealand, a 10A dedicated ground circuit,

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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to change. Not all products are available in all countries. Please consult your local sales representative for details.



NOTE: DUAL DIMENSION IS INCH OVER METRIC

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

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SCIENTIFIC

**19 cuft Upright Freezer** 5 Inner Doors

Single Outer Door **Top Mount Controls**