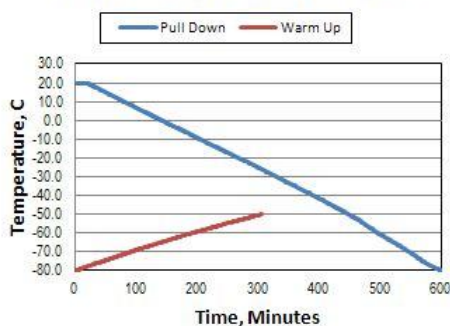


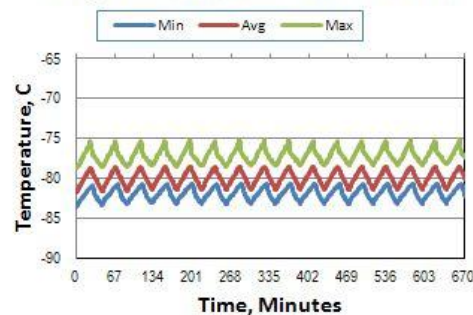
Specifications	Model Number
	Thermo Scientific Revco UxF60086V WC
Application, Rating and Electrical Data	
Application	Storage of General (non-flammable) Laboratory Materials
Storage Volume	815 liters / 28.8 cu. ft., 600 Standard 2" Boxes
Temperature Rating	-50°C to -86°C
Electrical Power	230V, 50 Hz, 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)
Cooling Water Condition	Inlet Temp: (12C - 25C) / (54F - 77F); Min Flow Rate: 3.8 LPM / 1 GPM; Max Pressure: 6.2 bar / 90 psia
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	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	R404A in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable
Controller/Electrical System Configuration and Features	
Controller Level	Top
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 955 D x 1107 W mm (78 H x 37.6 D x 43.6 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

PD & WU at 20C, 600V Water-Cooled ULT, 18870-A-O



-80C Cycle at 20C, 600V Water-Cooled ULT, 18870-A-O



Test Unit Number:	18870-A-O
Avg Cabinet Temp at -80 C Cycle (C):	-80.0
PV from Setpoint, High Performance (C):	+ 4.8 / - 3.6
PV from Setpoint, Energy Saving (C):	+ 8.0 / - 1.4
Uniformity at -80C, High Performance (C):	4.8
Stability at -80C, High Performance (C):	3.5
1-min Door Open Recovery to -75C (min)	27
Duty Cycle at -80C, High Performance (%):	53.7%
Cycle (on/off) rate at -80C, High Performance (min):	23 / 20
Energy Consumption, High Performance (kWh/day):	16.8
Heat rejection at -80C, High Performance (Btu/hr):	836
Energy Consumption, Energy Saving (kWh/day):	15.4
Heat rejection at -80C, Energy Saving (Btu/hr):	769
Pulldown Time to -80C (hrs):	9.2
Warmup Time (-80 to -50 C) (minutes):	306
Water Supply Inlet Temp (C)	18

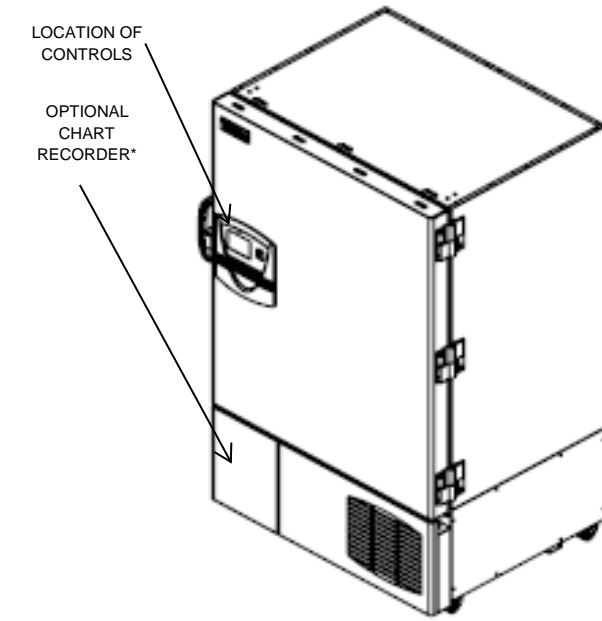
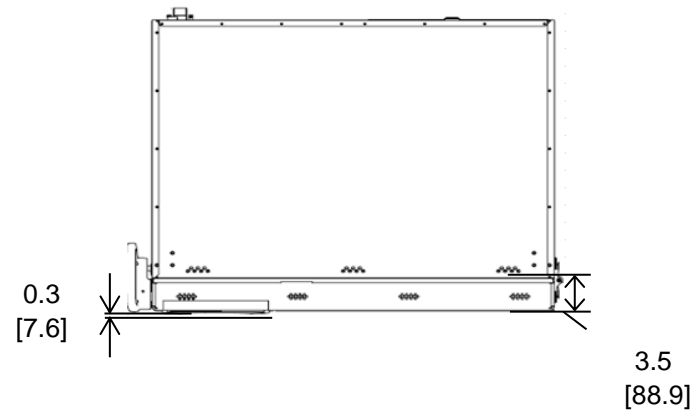
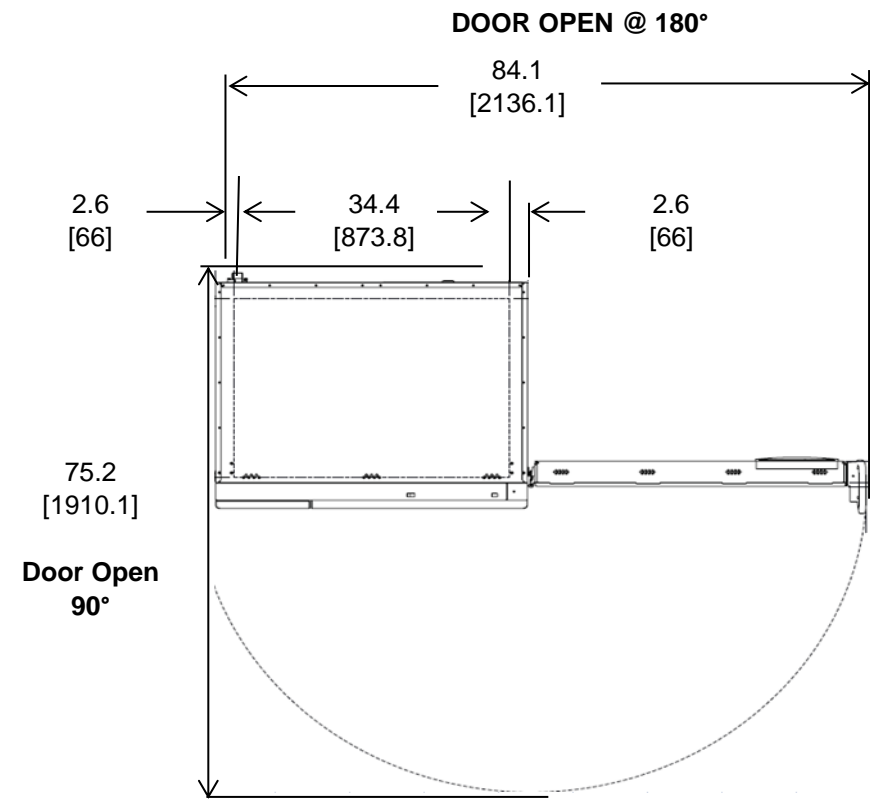
- 1) Performance is nominal and individual units may vary.
- 2) Freezer performance will differ due to product amount, product size and operating conditions.
- 3) Continuous product enhancements may, without notice, result in amendments or omissions to this specification. Thermo Scientific cannot accept 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.

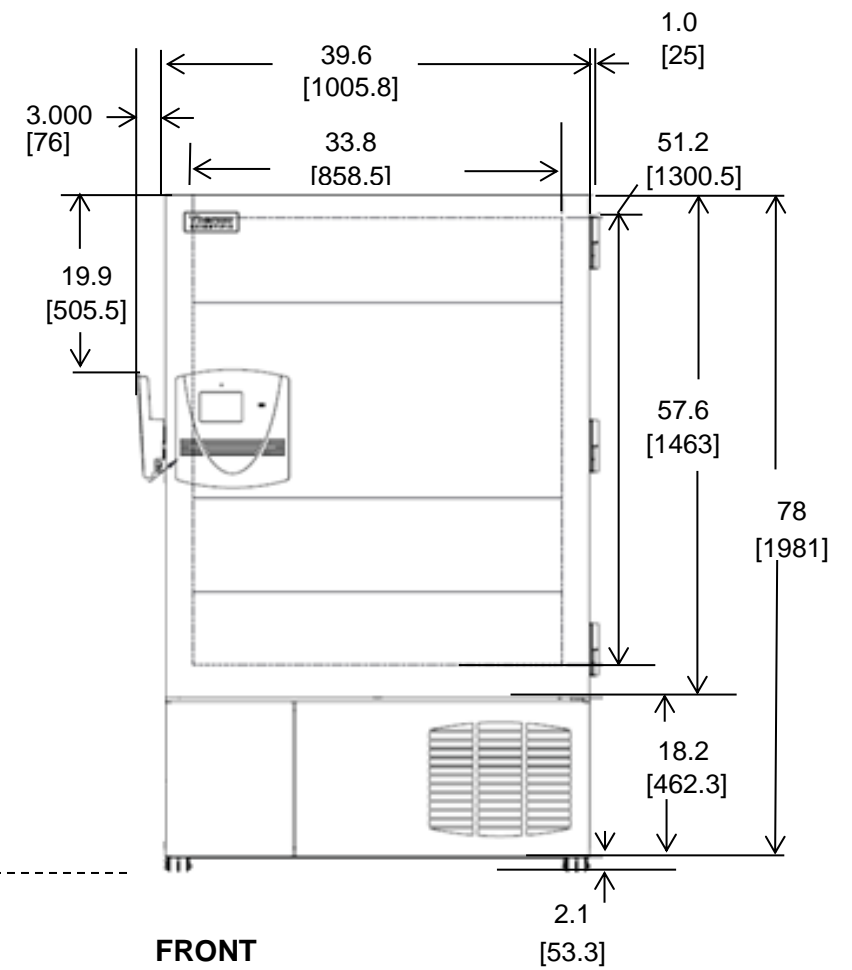
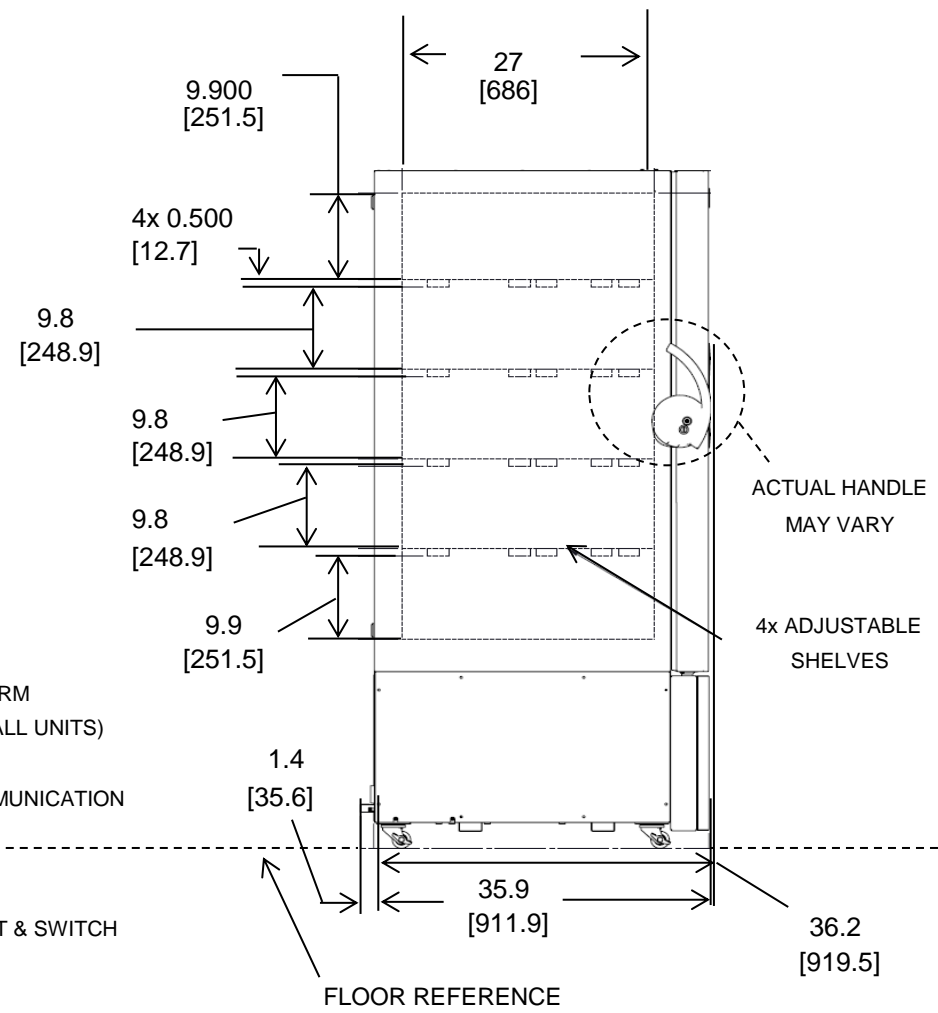
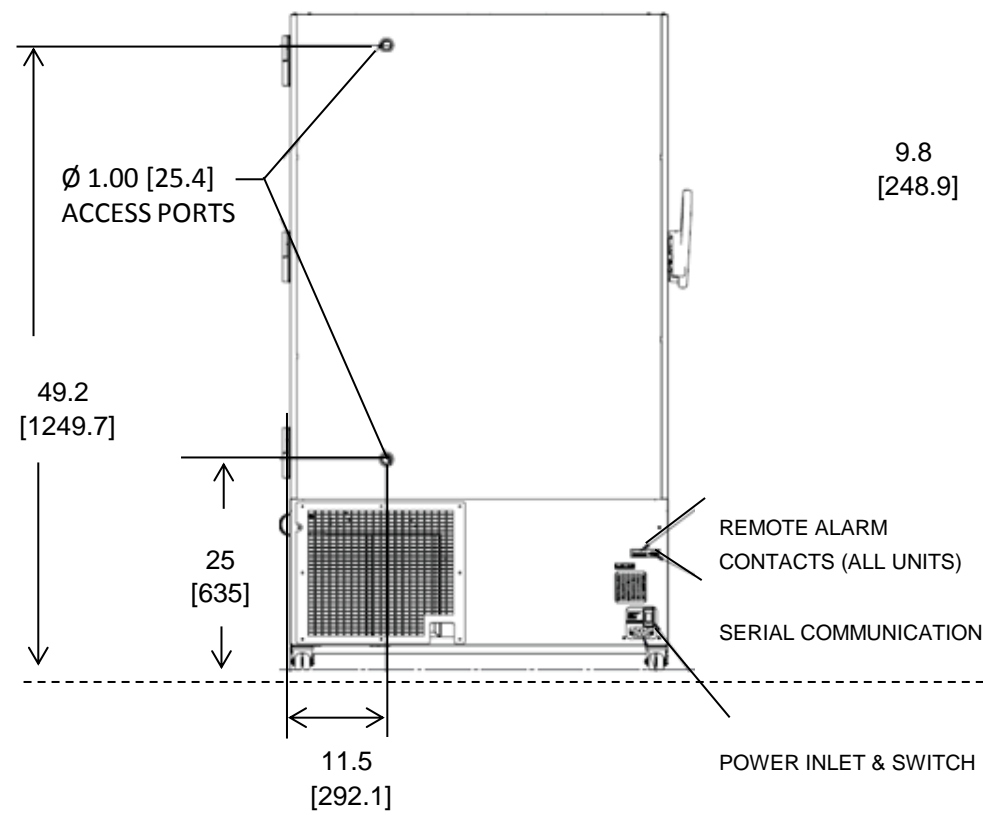
** For Australian/New Zealand Units: Due to different wiring regulations in Australia and New Zealand, a 10A dedicated ground circuit, protected by a circuit breaker rated for inductive loads is required for this unit. The power cord is AS/NZS 3112: 10A (2.5m length). Contact your local sales representative 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.



*Chart recorder/Back up systems are stand alone on 300 models.



BACK

NOTE: DUAL DIMENSION IS INCH OVER METRIC

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

Thermo
SCIENTIFIC

29 cuft Upright Freezer
5 Inner Doors
Single Outer Door
Top Mount Controls