

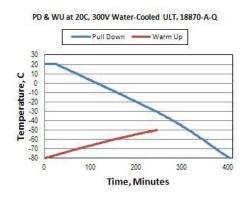
Technical Data Sheet

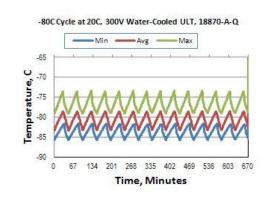
Revco Ultra-Low Temperature Upright Freezer

MODEL RELEASE - 65

Thermo Fisher Scientific, Asheville, North Carolina

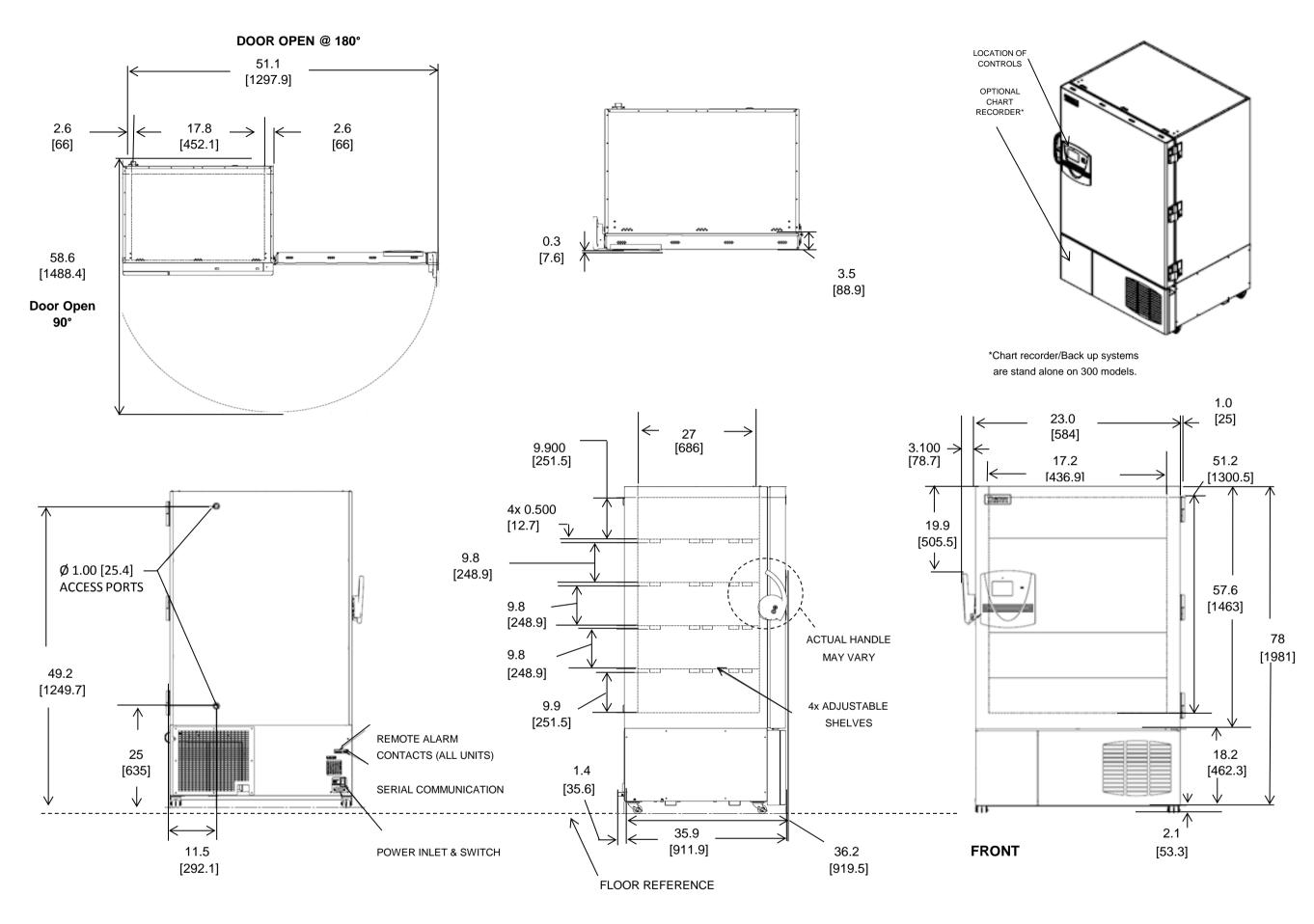
	Model Number
Specifications	Thermo Scientific Revco UxF30086A WC
Opecifications	Application, Rating and Electrical Data
Application	Storage of General (non-flammable) Laboratory Materials
Storage Volume	421 liters / 14.9 cu. ft., 300 Standard 2" Boxes
Temperature Rating	-50°C to -86°C
Electrical Power	
	120V, 60 Hz, 1 Phase
Instrument Rated Current	16.0 AMP
Building Supply Rating	20.0A dedicated grounded circuit. Protected by circuit breaker rated for inductive loads
Power Plug/Power Cord Length	NEMA 5-20P / IEC Cords, 3.048 Meters (10 Feet)
Agency Listings	UL, cUL
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*	1200 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	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 452 W mm (51.2 H x 27 D x 17.8 W in.)
Exterior Dimensions (H x D x W)	1981 H x 955 D x 688 W mm (78 H x 37.6 D x 27.1 W in.)
Shipping Dimensions	2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 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: 56.8 kg (125 lbs.)
All-Direction Casters	Standard with Locks
Shipping 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 20 ° C Ambient





Test Unit Number:	18870-A-Q
Avg Cabinet Temp at -80 C Cycle (C):	-80.9
PV from Setpoint, High Performance (C):	+ 6.6 / - 5.8
PV from Setpoint, Energy Saving (C):	+ 11.4 / - 4.4
Uniformity at -80C, High Performance (C):	7.1
Stability at -80C, High Performance (C):	5.4
1-min Door Open Recovery to-75C (min)	11
Duty Cycle at -80C, High Performance (%):	43.6%
Cycle (on/off) rate at -80C, High Performance (min): 21 / 27
Energy Consumption, High Performance (kWH/day	13.2
Heat rejection at -80C, High Performance (Btu/hr):	658
Energy Consumption, Energy Saving (kWH/day):	12.4
Heat rejection at -80C, Energy Saving (Btu/hr):	617
Pulldown Time to -80C (hrs):	6.8
Warmup Time (-80 to -50 C) (minutes):	245
Water Supply Inlet Temperature (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.
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BACK



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



15 cuft Upright Freezer 5 Inner Doors

5 Inner Doors Single Outer Door Top Mount Controls