

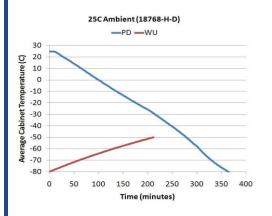
Technical Data Sheet

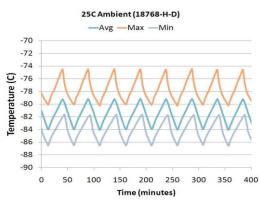
Revco Ultra-Low Temperature Upright Freezer

MODEL RELEASE - 65

Thermo Fisher Scientific, Asheville, North Carolina

Thermo Scientific Revco UxF30086D Application Application Storage of General (non-flammable) Laboratory Materials Storage Volume 421 liters / 14.9 cu. ft., 300 Standard 2" Boxes Temperature Rating Electrical Power 108-230V, 60 Hz, 1 Phase Instrument Rated Current Building Supply Rating Power Plug/Power Cord Length Agency Listings Indoor/Outdoor Usage Application Environment Application Environment Application Environment Refrigeration System Compressor A Number Condenser TypeNumber Expansion Device Evaporator Type Cold Wall With Enhanced Heat Transfer Treatment Defrost Method Refrigerant Charge/Flammability Refore Switch On-Off with Circuit Breaker Controller Level Compressor Sate Guard High Pressure Cutout Switch/High Temp Cutout Switch/Current protection/Logic protection Control Sensor Adjustable Warm/Cold Alarms Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Shipping Dimensions (H x D x W) Shipping Dimensions Power Switch Non-Corrosive, Non-Explosive, Se 64 W mm (83.12 H x 42.75 D x 34 W in) Pagina Pagin Min in, Pagina Pagina Pagin Min in, Pagina Pagina Pagin Min in, Pagina Pagina Pagina Pagin Min in, Pagina Pagina Pagina Pagin Min in, Pagina Pa						
Application, Rating and Electrical Data Application Storage of General (non-flammable) Laboratory Materials Storage volume 421 liters / 14.9 cu. ft., 30 data/a 2" Boxes Temperature Rating 5.50°C to -86°C Electrical Power Electrical Power Instrument Rated Current Building Supply Rating Power Plug/Power Cord Length Agency Listings Indoor/Outdoor Usage Application Environment Non-Corrosive, Non-Flammable, Non-Explosive, Sood Air Ventilation, 15° C - 32° C (59° F - 90° F) Refrigeration System Refrigeration System Refrigeration System Refrigeration System Refrigeration Fovironmer Refrigeration Fovironmer Refrigeration System Refrigeration Fovironmer Refrigeration System Refrigeration Fovironmer Refrigeration System Refrigeration Fovironmer Refrigeration Fovironmer Refrigeration System Refrigeration Configuration Refrigeration Fovironmer Refrigeration System Compressor (Palumber Refrigeration Fovironmer Refrigeration Fovironmer Refrigeration Fovironmer Refrigeration Fovironmer Refrigeration System Compressor Capacity* Condenser TypeeNumber Enhanced Finned-Tipe and Forced-Air Cooled / 1 Expansion Device Capillary Tube Revaluation Fovironment Refrigerant Charge/Flammability Refrigerant Charge/Flam		Model Number				
Application Storage of General (non-flammable) Laboratory Materials Storage Volume 421 liters / 14.9 cu. ft., 300 Standard 2° Boxes Temperature Rating 5.6°C to -86°C Electrical Power 9.208-230V, 60 Hz, 1 Phase Instrument Rated Current 9.0 AMP Building Supply Rating 15.0A dedicated grounded circuit. Protected by circuit breaker rated for inductive loads Power Plug/Power Cord Length NEMA 6-15P for D / IEC Cords, 3.048 Meters (10 Feet) Agency Listings UL, clll Indoor/Outdoor Usage Non-Carplosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F) Refrigeration System Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F) Refrigeration System Industrial-Rated Two Stage Cascade System Compressor / Number Hermetic Compressor for Low Temperature Application / 2 Compressor / Number Hermetic Compressor for Low Temperature Application / 2 Compressor Capacity* 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/Flammablity R404A in 1st Stage / R5088-R290 Mix in 2nd Stage / Non-Flammable 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 Microprocessor Control with Touch Screen Input and Display, Includes USB System Data Retrieval Remote Alam Terminals R84854-20m August Adjustable Warm/Cold Alarms Auto-Voltage Safeguard High Pressure Cutout Switch/High Temp Cutout Switch/Current protection/Logic protection Dimensions and Construction Interior Dimensions (H x D x W) 1300 H x 868 D x 452 W mm (61.2 H x 27 D x 17.8 W in.) Exterior Dimensions (H x D x W) 1390 H x 868 D x 864 W mm (78 H x 37.6 D x 27.1 W in.) Shipping Dimensions 2111 H x 1086 D x 864 W mm (78 H x 37.6 D x 27.1 W in.)	Specifications					
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Power Plug/Power Cord Length Agency Listings Ul., cUL Indoor/Outdoor Usage Application Environment Refrigeration System Compressor / Number Expansion Device Expansion Device Evaporator Type Defrost Method Refrigeratior Charge/Flammability Refrigeratior Charge/Flammability Refrigeratior System Compressor / Number Compressor Capacity' Condenser Type/Number Expansion Device Evaporator Type Cold Wall With Enhanced Heat Transfer Treatment Defrost Method Refrigeratior Charge/Flammability Refrigeratior System Controller Level Power Switch Controller Level Fond Microprocessor Control with Touch Screen Input and Display. Includes USB System Data Retrieval Setpoint Security Compressor Safe Guard Adjustable Warm/Cold Alarms Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Interior Dimensions (H x D x W) Shipping Dimensions PNON-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F) Refrigerator Use, Only Interior Dimensions Refrigeration Evolution Interior Dimensions Power Switch Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F) Refrigeration Use, Only Refrigeration Configuration Refrigeration Configuration Refrigeration System Permeta Compressor Cooled / 1 Capillary Tube Capillary Tube Capillary Tube Renote Alarm Terminals Refrigeration System Configuration and Features Results Alays Alay	Instrument Rated Current					
Agency Listings Indoor/Outdoor Usage Application Environment Refrigeration System Refrigeration System Compressor / Number Compressor / Number Expansion Device Evaporator Type Defrost Method Refrigeration Configuration Refrigeration Evaluation Compressor Capacity Condenser Type/Number Evaporator Type Condenser Type Cold Wall With Enhanced Heat Transfer Treatment Defrost Method Refrigerant Charge/Flammability R404A in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable Controller Level Controller Level 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 Remote Alarm Terminals Adjustable Warm/Cold Alarms Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Dimensions and Construction Interior Dimensions (H x D x W) Shipping Dimensions 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)	Building Supply Rating	15.0A dedicated grounded circuit. Protected by circuit breaker rated for inductive loads				
Indoor/Outdoor Usage Application Environment Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F) Refrigeration System Industrial-Rated Two Stage Cascade System Compressor / Number Compressor / Number Compressor Capacity' Condenser Type/Number Expansion Device Expansion Device Evaporator Type Cold Wall With Enhanced Heat Transfer Treatment Defrost Method Refrigerant Charge/Flammability R404A in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable Controller Level Top Power Switch Controller Type Microprocessor Control with Touch Screen Input and Display. Includes USB System Data Retrieval Setpoint Security Remote Alarm Terminals Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Dimensions (H x D x W) Shipping Dimensions Policy Stem Policy Stem Policy Control Valor D x W) Shipping Dimensions Policy Stem Policy Control Valor D x 32° C (59° F - 90° F) Refrigeration Configuration Refrigeration Configuration Post Tow Stage Cascade System Controller Jupe Conduction Controller Type Microprocessor Controller Jupe Microprocessor Control with Touch Screen Input and Display. Includes USB System Data Retrieval Policy Compressor Safe Guard High Pressure Cutout Switch/High Temp Cutout Switch/Current protection/Logic protection Single RTD (1000 ohm Platinum RTD) Remote Alarm Terminals Refrigeration Control Sensor Buck/Boost System Dimensions and Construction Interior Dimensions (H x D x W) Shipping Dimensions Policy H x 955 D x 688 W mm (78 H x 37.6 D x 27.1 W in.) Shipping Dimensions	Power Plug/Power Cord Length	NEMA 6-15P for D / IEC Cords, 3.048 Meters (10 Feet)				
Application Environment 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 Compressor / Number Compressor Capacity* Condenser Type/Number Enhanced Finned-Tube and Forced-Air Cooled / 1 Expansion Device Evaporator Type Cold Wall With Enhanced Heat Transfer Treatment Defrost Method Refrigeration Capillary Tube Controller Level Refrigeration Device Controller Level Controller Level Controller Level Setpoint Security Microprocessor Control with Touch Screen Input and Display. Includes USB System Data Retrieval Setpoint Security Yes Compressor Safe Guard Control Sensor Remote Alarm Terminals Adjustable Warm/Cold Alarms Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Interior Dimensions (H x D x W) Shipping Dimensions 2111 H x 1086 D x 868 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)	Agency Listings	UL, cUL				
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 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 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 Buck/Boost System Dimensions and Construction Interior 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.) Exterior Dimensions Shipping Dimensions 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)						
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Compressor / Number		Refrigeration Configuration				
Compressor / Number	Refrigeration System	Industrial-Rated Two Stage Cascade System				
Condenser Type/Number Expansion Device Capillary Tube Evaporator Type Cold Wall With Enhanced Heat Transfer Treatment Defrost Method Refrigerant Charge/Flammability Refrigerant Charge/Flamma	Compressor / Number	Hermetic Compressor for Low Temperature Application / 2				
Expansion Device Evaporator Type Cold Wall With Enhanced Heat Transfer Treatment Defrost Method Refrigerant Charge/Flammability R404A in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable Controller Level Power Switch 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 Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Buck/Boost System Dimensions and Construction Interior Dimensions (H x D x W) Shipping Dimensions 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)	Compressor Capacity*	1200 W				
Expansion Device Evaporator Type Cold Wall With Enhanced Heat Transfer Treatment Defrost Method Refrigerant Charge/Flammability R404A in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable Controller Level Top Power Switch 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 Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Buck/Boost System Dimensions and Construction Interior Dimensions (H x D x W) Shipping Dimensions 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)	Condenser Type/Number	Enhanced Finned-Tube and Forced-Air Cooled / 1				
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 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 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)		Capillary Tube				
Defrost Method 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 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 Remote Alarm Terminals Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Interior Dimensions (H x D x W) Exterior Dimensions Shipping Dimensions Sunda 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)	·					
Controller Level Controller Level Fower Switch 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 Auto-Voltage Safeguard Buck/Boost System Dimensions and Construction Interior Dimensions (H x D x W) Shipping Dimensions 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)		Manual Defrost				
Controller Level Controller Level Fower Switch 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 Auto-Voltage Safeguard Buck/Boost System Dimensions and Construction Interior Dimensions (H x D x W) Shipping Dimensions 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)	Refrigerant Charge/Flammability	R404A in 1st Stage / R508B+R290 Mix in 2nd Stage / Non-Flammable				
Power Switch 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) Shipping Dimensions 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)		Controller/Electrical System Configuration and Features				
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)	Controller Level	Тор				
Setpoint SecurityYesCompressor Safe GuardHigh Pressure Cutout Switch/High Temp Cutout Switch/Current protection/Logic protectionControl SensorSingle RTD (1000 ohm Platinum RTD)Remote Alarm TerminalsRS485/4-20mA outputAdjustable Warm/Cold AlarmsFully AdjustableAuto-Voltage SafeguardBuck/Boost SystemDimensions and ConstructionInterior 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 Dimensions2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)	Power Switch	On-Off with Circuit Breaker				
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)	Controller Type	Microprocessor Control with Touch Screen Input and Display. Includes USB System Data Retrieval				
Control Sensor Remote Alarm Terminals Adjustable Warm/Cold Alarms Auto-Voltage Safeguard Interior Dimensions (H x D x W) Exterior Dimensions (H x D x W) Shipping Dimensions Single RTD (1000 ohm Platinum RTD) RS485/4-20mA output Fully Adjustable Buck/Boost System Dimensions and Construction 1300 H x 686 D x 452 W mm (51.2 H x 27 D x 17.8 W in.) 1981 H x 955 D x 688 W mm (78 H x 37.6 D x 27.1 W in.) 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)	Setpoint Security	Yes				
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)	Compressor Safe Guard	High Pressure Cutout Switch/High Temp Cutout Switch/Current protection/Logic protection				
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)	Control Sensor	Single RTD (1000 ohm Platinum RTD)				
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)	Remote Alarm Terminals	RS485/4-20mA output				
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)	Adjustable Warm/Cold Alarms	Fully Adjustable				
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)	Auto-Voltage Safeguard	Buck/Boost System				
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)		Dimensions and Construction				
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)	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.)				
Shipping Dimensions 2111 H x 1086 D x 864 W mm (83.12 H x 42.75 D x 34 W in)						
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Insulation High R-value Vacuum Insulation Panels and High Density Water-Blown Polyurethane Foam	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.)		<u> </u>				
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						
	Caro. Optionio	Typical Performance Characteristics in 25 ° C Ambient				





Performance Data Summary (Typical Average Values)

Avg. Cabinet Temp. at -80C Setpoint, High Performance (C):	-80.5
Peak Variation From -80C Setpoint, High Performance (C):	+6.4 / -5.5
Peak Variation From -80C Setpoint, Energy Saving (C):	+10.1 / -4.0
Stability, -80C Setpoint, High Performance (C):	5.0
Uniformity, -80C Setpoint, High Performance (C):	6.7
1 Min. Door Open Recovery to -75C Avg. Cabinet Temp. (min):	15
Cycle Rate, -80C Setpoint, High Performance (on/off, min/min):	25/25
Duty Cycle, -80C Setpoint, High Performance (%):	50
Energy Consumption, -80C Setpoint, High Performance (kWh/day):	17.0
Heat Rejection, -80C Setpoint, High Performance (BTU/hr):	2417
Energy Consumption, -80C Setpoint, Energy Saving (kWh/day):	15.3
Heat Rejection, -80C Setpoint, Energy Saving (BTU/hr):	2175
Pulldown Time to -80C Average Cabinet Temp. (hours)	6.0
Warmup Time, From Average Cabinet Temp. of -80C to -50C (min):	214

- 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.
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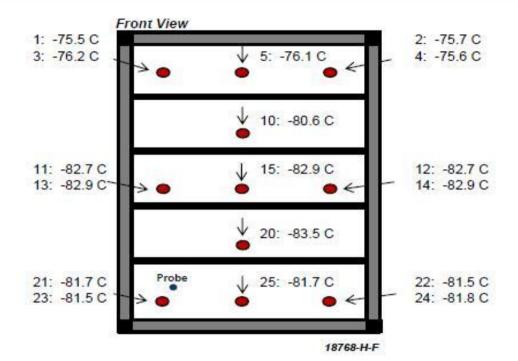
Typical Cabinet Temperature Map 300V ULT, 4 Inner-Shelves + Base, Single Outer Door

Temperatures are averages during > 12 hours of cycle after reaching setpoint of -80 C

Top View of Shelves

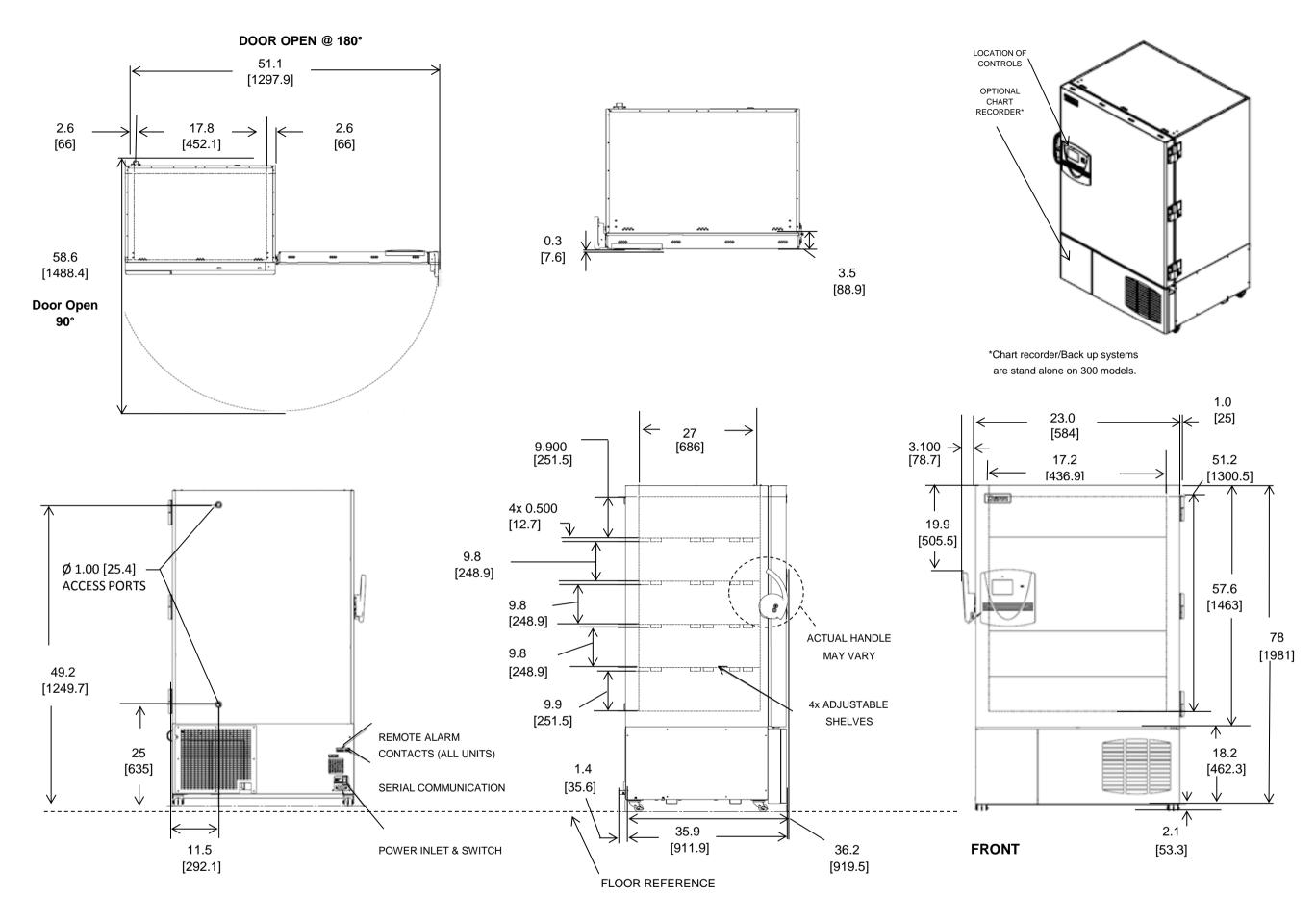
REAR	МАЗ		MA4
	Supplement of the supplement o	MA5	
FRONT	MA1		MA2
		MA10	
	MA13	MA15	MA14
	MA11	mas	MA12
		MA20	
	MA23	7/2/2023	MA24
	MA21	MA25	MA22

Cabinet Average: -80.3 C Probe Average: -82 C Peak Variation: +6.6 C / -4.8 C



	MA1	MA2	MA3	MA4	MA5	MA10	MA11	MA12	MA13
Avg	-75.5	-75.7	-76.2	-75.6	-76.1	-80.6	-82.7	-82.7	-82.9
Max	-73.4	-73.8	-74.1	-73.5	-74.0	-78.6	-80.6	-80.6	-80.7
Min	-77.1	-77.0	-77.7	-76.9	-77.7	-82.0	-84.6	-84.5	-84.8

	MA14	MA15	MA20	MA21	MA22	MA23	MA24	MA25
Avg	-82.9	-82.9	-83.5	-81.7	-81.5	-81.5	-81.8	-81.7
Max	-80.8	-81.1	-82.1	-80.1	-80.2	-79.5	-79.8	-80.0
Min	-84.7	-84.4	-84.8	-83.4	-83.1	-84.2	-84.4	-83.9



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