

Technical Data Sheet

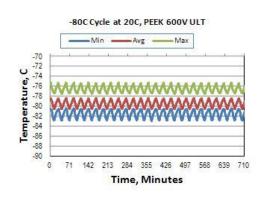
THERMO SCIENTIFIC Ultra-Low Temperature Upright Freezer

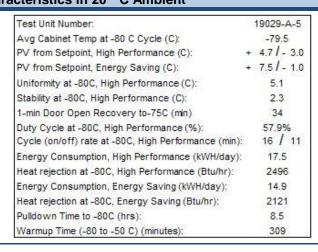
MODEL RELEASE - 65

Thermo Fisher Scientific, Asheville, North Carolina

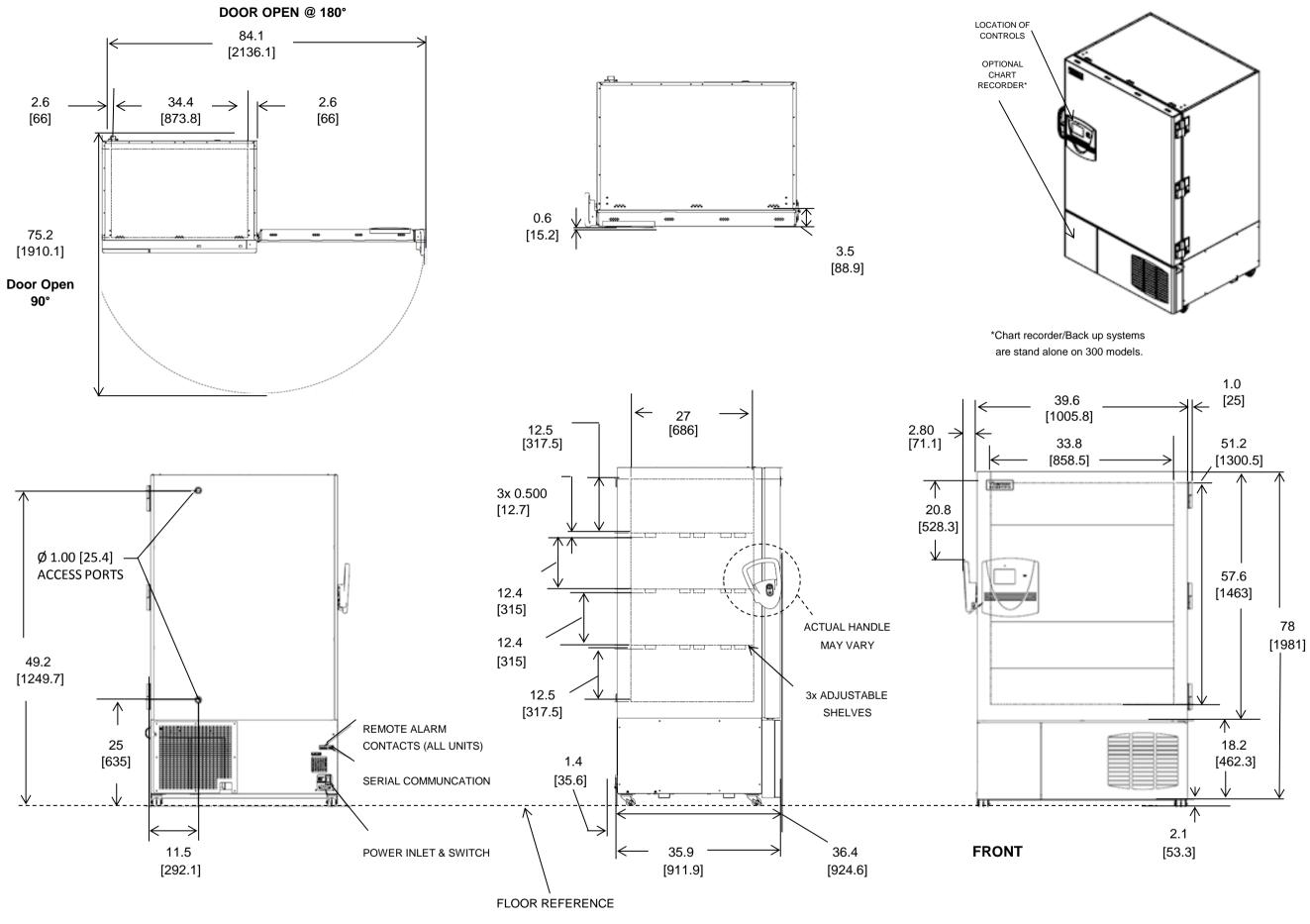
	Model Nombon
Succifications	Model Number Thermo Scientific TSU600V
Specifications	Application, Rating and Electrical Data
Application	Storage of General (non-flammable) Laboratory Materials
Application Storage Volume	815 liters / 28.8 cu. ft., 600 Standard 2" Boxes
•	-50°C to -86°C
Temperature Rating 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	3 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
- Applear - Constitution Conditional - Condi	







- 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.
- © 2012 Thermo Scientific Inc. All trademarks are the property of Thermo Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.



BACK

NOTE: DUAL DIMENSION IS INCH OVER METRIC

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



29 cuft Upright Freezer

4 Inner Doors Single Outer Door Top Mount Controls