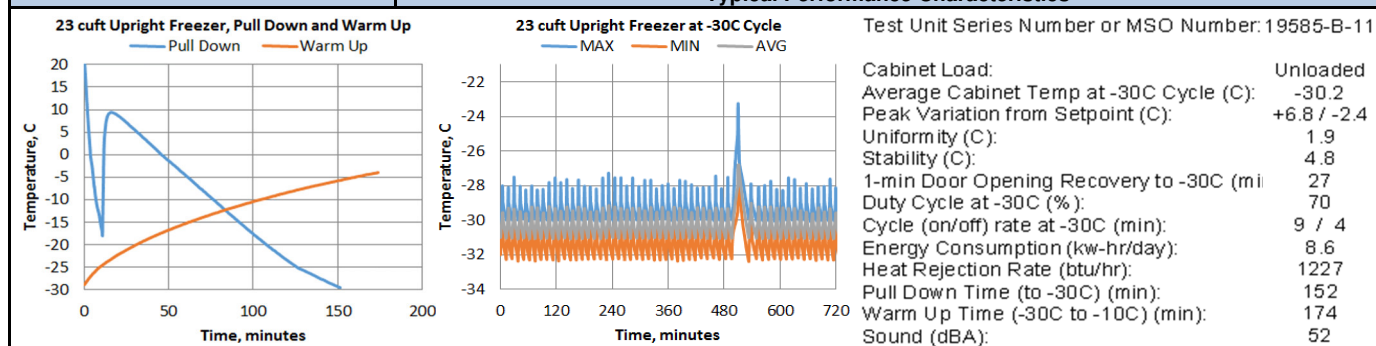


Specifications	Catalog number
	TSX2330LV
	Model Number
	TSX2330LV
Application, Rating and Electrical Data	
Application	Plasma Freezer
Storage Volume	659 Liters / 23.3 Cubic Feet
Factory Set Point	-30°C
Set Point Range/Adjustable Increment	-35°C to -15°C / 0.1°C
Electrical Power / Rated Current	208-230V 50/60 Hz 1 Phase / 3.0A
Building Supply Rating	15A dedicated grounded non-GFCI circuit. Protected by circuit breaker rated for inductive loads
Power Plug/Power Cord Length	16 Amp (CEE 7/7) / 3.048 Meters (10 feet)
Agency Listings	CE,UL, cUL, FDA
Indoor/Outdoor Usage	Indoor Use Only
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation
Ambient Operating Temperature	15°C - 32°C (60°F - 90°F)
Refrigeration Configuration	
Refrigeration System	Vapor compression system
Compressor / Number / Capacity	Hermetic Variable Capacity Compressor / 1 / 525W
Condenser Type/Number	Microchannel and Forced-Air Cooled / 1
Expansion Device	Capillary Tube
Evaporator Type / Defrost Method	Forced Air Evaporator Coil / Automatic Defrost
Refrigerant Charge / Flammability	Environmentally Safe R290 / Flammable
Controller/Electrical System Configuration and Features	
Controller Level	Eye Level
Power Switch	Keyed Off-On - Alarm
Controller Type	IntrLogic Control System: Digital display, Graphic thermometer, Automatic defrost system
Setpoint Security / Programmable	Yes / Yes
Compressor Safe Guard	Current protection
Control Sensor	Single RTD (1000 ohm shielded Platinum RTD)
Remote Alarm Terminals	Standard
Adjustable Warm / Cold Alarms	Fully Adjustable
Power Failure Alarm	Standard
Electronic Chart Recorder	Optional
Dimensions and Construction	
Interior Dimensions (H x D x W)	1473 mm x 723 mm x 610 mm (58.0" x 28.5" x 24.0")
Exterior Dimensions (H x D x W)	1994 mm x 962 mm x 711 mm (78.5" x 37.9" x 28.0")
Insulation	5.08 cm (2.0") High-Density Water-Blown Polyurethane Foam
Door Perimeter heater	Yes
Shelves / Load Limit	(7) Drawers Adjustable In 1" Increments. Max. Cap. per Drawer: 27 kg (60 lbs.)
All-Direction Casters	Locking Casters
Shipping Weight	229 kg / 505 lb



- Performance is nominal and individual units may vary.
- Product performance will differ due to product amount, product size and operating conditions.
- 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.



Typical Cabinet Temperature Map
Freezer 23cuft , 7 Drawers, Single Outer Door

Temperatures are averages during > 20 cycles after reaching a setpoint of -30C

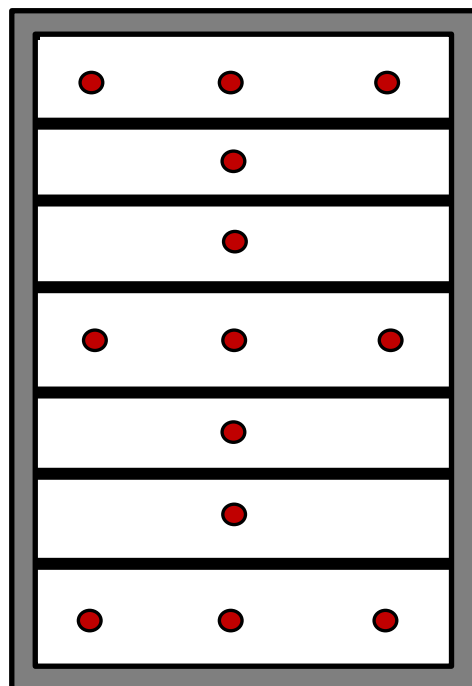
Top View of Shelves

M3	M5	M4
M1		M2
M10		
M15		
M18	M20	M19
M16		M17
M25		
M30		
M33	M35	M34
M31		M32

REAR

FRONT

Front View



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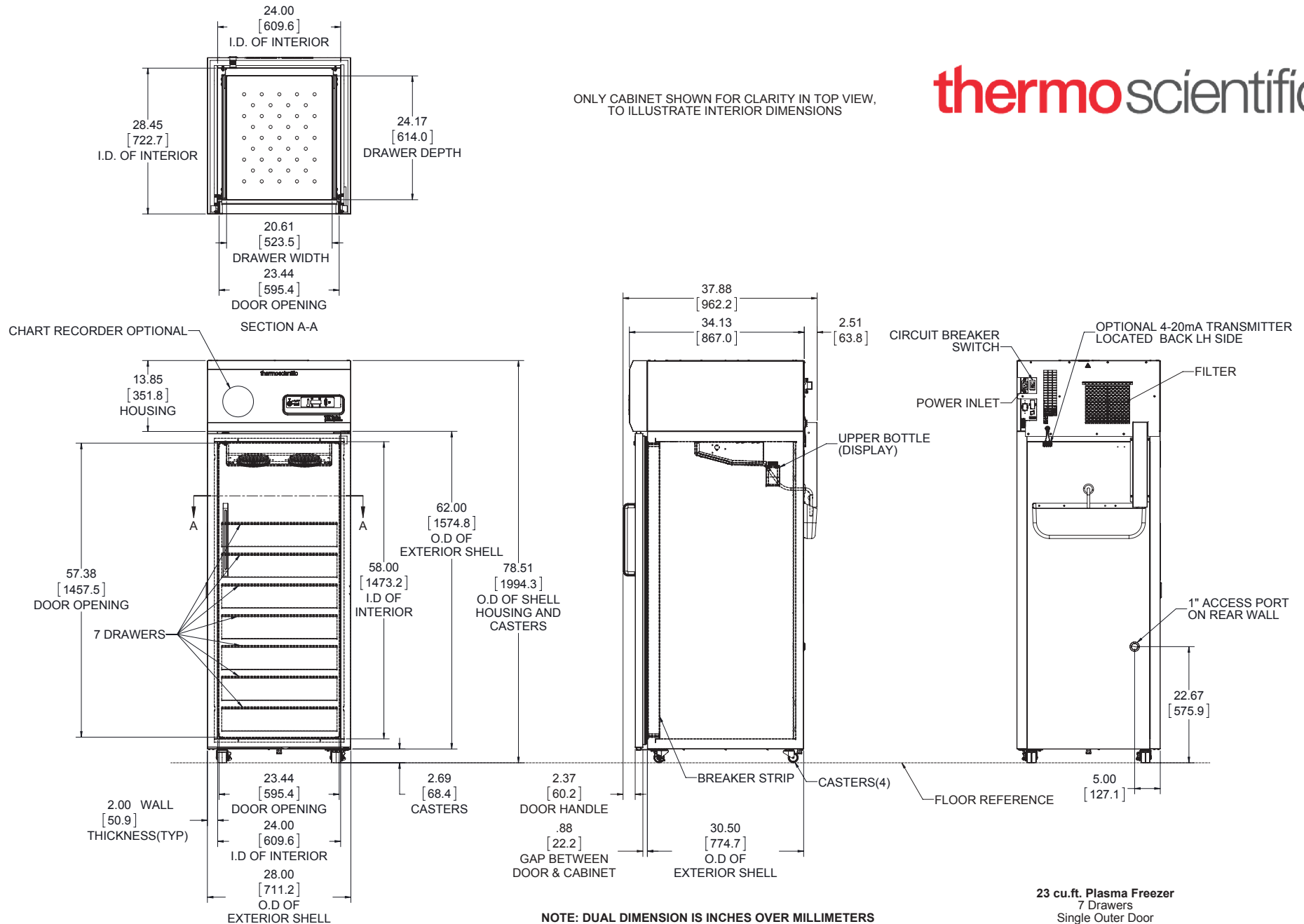
	M1	M2	M3	M4	M5
Avg	-30.6	-30.7	-31.1	-31	-30.8
Max	-27.1	-24.7	-23.7	-23.2	-23.7
Min	-31.2	-31.9	-32.4	-32.3	-32
	M10	M15			
Avg	-30.8	-31			
Max	-26.8	-23.9			
Min	-31.5	-32.2			
	M16	M17	M18	M19	M20
Avg	-29.9	-30.1	-30.4	-30.7	-30.4
Max	-27.6	-27.8	-27.6	-27.7	-27.7
Min	-30.3	-30.5	-30.9	-31.4	-30.9
	M25	M30			
Avg	-30.4	-30.4			
Max	-27.8	-27.1			
Min	-31	-31			
	M31	M32	M33	M34	M35
Avg	-29.5	-29.8	-29.8	-30.2	-29.8
Max	-26.9	-27.1	-26.7	-26.9	-27.2
Min	-30	-30.4	-30.5	-30.9	-30.3

Cabinet Average: -30.2 C

Probe Average: -29.5 C

Peak Variation: +6.8 C / -2.4 C

ONLY CABINET SHOWN FOR CLARITY IN TOP VIEW,
TO ILLUSTRATE INTERIOR DIMENSIONS



23 cu.ft. Plasma Freezer
7 Drawers
Single Outer Door
Top Mount Controls