

Technical Data Sheet

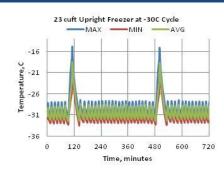
Thermo High Performance General Purpose Freezer

MODEL RELEASE - 1

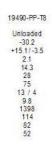
Thermo Fisher Scientific, Asheville, North Carolina

	Model Number					
Specifications	TSX2330FV					
Оросиносию	Application, Rating and Electrical Data					
Application	General Purpose (non-flammable) Freezer					
Storage Volume	659 Liters/23.3 Cubic Feet					
Factory Temperature Setpoint	-30°C					
Temperature Setpoint Range	-35°C to -15°C					
Electrical Power / Rated Current	208-230V 50/60 Hz 1 Phase / 3.0A					
Building Supply Rating	15.0A dedicated non-GFCI grounded 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	UL,cUL,CE					
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 / Quantity / Capacity*	Hermetic Variable Capacity Compressor / 1 / 525W					
Condenser Type/ Quantity	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 H x 725 D x 610 W mm (58 H x 28.6 D x 24 W in.)					
Exterior Dimensions (H x D x W)	1994 H x 945 D x 711 W mm (78.5 H x 37.2 D x 28 W in.)					
Insulation	5.08 cm (2.0") High Density HFC-blown Polyurethane Foam in cabinet					
Door Perimeter Heater	Yes					
Shelves / Capacity	(4) Adjustable Wire Shelves / Max. Cap. per Shelf: 45 kg (100 lbs.)					
All-Direction Casters	Yes					
Ship Weight	189 kg / 416 lb					
	Typical Performance Characteristics in 20° C Ambient					









- 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 -35C/40C(evap./cond.temp) at 4500 rpm condition.

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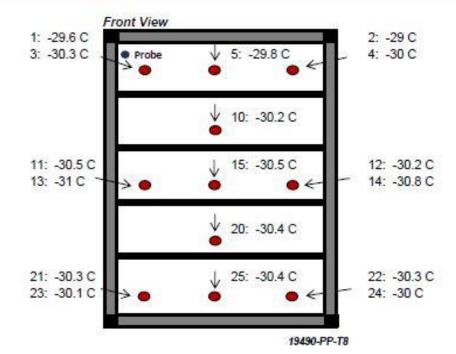
Typical Cabinet Temperature Map Freezer 23 cuft Unit, 4 Inner-Shelves + Base, Single Outer Door

Temperatures are averages during > 12 hours of cycle after reaching setpoint of -30 C

Top View of Shelves

MA4 REAR MA3 MA5 FRONT MA1 MA2 MA10 MA13 MA14 MA15 MA12 MA11 MA20 MA23 MA24 MA25 MA22 MA21

Cabinet Average: -30.2 C Probe Average: -29.5 C Peak Variation: +15.1 C/-3.5 C



	MA1	MA2	MA3	MA4	MA5	MA10	MA11	MA12	MA13
Avg	-29.6	-29.0	-30.3	-30.0	-29.8	-30.2	-30.5	-30.2	-31.0
Max	-15.8	-14.9	-17.2	-17.0	-18.5	-18.8	-18.7	-18.9	-17.6
Min	-32.2	-31.3	-33.0	-32.6	-32.4	-32.5	-32.7	-32.3	-33.5

	MA14	MA15	MA20	MA21	MA22	MA23	MA24	MA25
Avg	-30.8	-30.5	-30.4	-30.3	-30.3	-30.1	-30.0	-30.4
Max	-17.7	-18.9	-19.5	-19.0	-18.6	-19.8	-19.9	-18.7
Min	-33,1	-32.7	-32.5	-32.6	-32.4	-32.0	-31.9	-32.5

