

Technical Data Sheet

Thermo High Performance General Purpose Refrigerator

MODEL RELEASE - 1

Thermo Fisher Scientific, Asheville, North Carolina

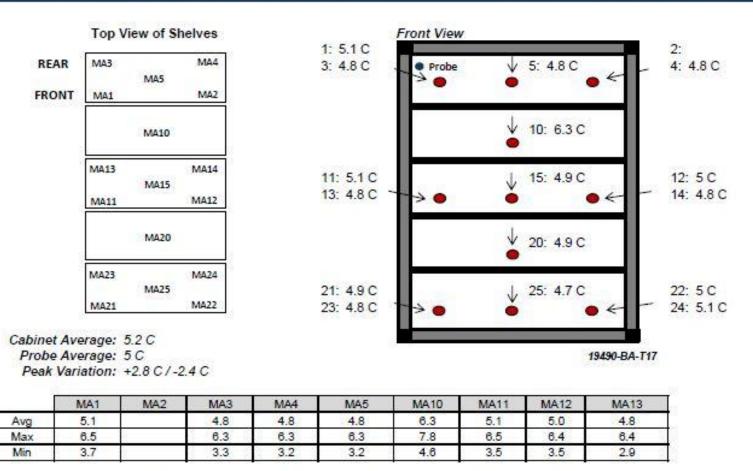
Onesitientiene	Model Number						
Specifications	TSX2305SV Application, Rating and Electrical Data						
Application	General Purpose (non-flammable) Refrigerator						
Storage Volume	650 Liters/23 Cubic Feet						
Factory Temperature Setpoint	5°C						
Temperature Setpoint Range	3°C to 7°C						
Electrical Power / Rated Current	208-230V 50/60 Hz 1 Phase / 2.3A						
Building Supply Rating	15.0A dedicated non-GFCI grounded circuit. Protected by circuit breaker rated for inductive load						
Power Plug/Power Cord Length	16 Amp (CEE 7/7) / 3.048 Meters (10 feet)						
Agency Listings	UL,cUL,CE						
Indoor/Outdoor Usage Application Environment	Indoor Use Only Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation						
Ambient Operating Temperature	15° C - 32° C	(60° F - 90° F)					
	Refrigeration						
Refrigeration System	Vapor compre						
Compressor / Quantity / Capacity*	Hermetic Variable Capacity Compressor / 1 / 286W						
Condenser Type/ Quantity	Microchannel and Forced-Air Cooled / 1						
Expansion Device	Capillar						
Evaporator Type / Defrost Method	Forced Air Evaporator Coil / Automatic Defrost						
Refrigerant Charge/Flammability	Environmentally Saf						
	Controller/Electrical System						
Controller Level	Eye l						
Power Switch	Keyed Off-On - Alarm						
Controller Type Setpoint Security / Programmable	IntrLogic Control System: Digital display, Graphic thermometer, Automatic defrost system Yes / Yes						
Compressor Safe Guard		Current Protection					
Control Sensor	Single RTD (1000 ohm s						
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 Door Perimeter Heater	5.08 cm (2.0") High Density HFC-blown Polyurethane Foam in cabinet Yes						
Shelves / Capacity	(4) Adjustable Wire Shelves / Max						
All-Direction Casters	(i) / lajuolable / line enervee / lia/						
Ship Weight	192 kg						
	Typical Performance Characteristics in 20° C Ambient						
1796 develo kontraducies teor encontro (10260) do	20 202 W2 W2						
23 cuft Upright Refrigerator, Pull Down and Warm Up	23 cuft Upright Refrigerator at 5C Cycle	Test Unit Series Number or MSO Number:	19490-BA-T1				
	10	Cabinet Load	Unloaded				
17	9	Average Cabinet Temp at 5C C ycle (C):	5.2				
		Peak Variation from Setpoint(C): Uniformity(C):	+2.8/-2.4 1.7				
15 13		Stability (C): 1-min Door Opening Recovery to 5C (min):	3.1				
		Duty Cycle at 5C (%): Cycle (on/off) rate at 5C (min):	23 3 / 10				
<u>a</u> 9		Energy Consumption (kw-hr/day):	3.8				
7	2	Heat Rejection Rate (btu/hr): Pull Down Time (to 5C) (min):	537 27				
5	1	Warm Up Time (5C to 15C) (min): Sound (dBA):	219 52				
0 50 100 150 200 25 Time, minutes	0 0 120 240 360 480 600 720 Time, minutes		JE				
9/3/2224/7/6/2020/2020/2020/2020/2020/2020/2020/	Sale and Sale and Sale						
Performance is nominal and individual unit	s may vary.						
	luct amount, product size and operating conditions.						
	vithout notice, result in amendments or ommisions to this s	•					
	jury loss or expenses resulting from misapplication of the	information herein.					
	jury, loss of expenses resulting non-misapplication of the						
cannot accept responsibility for damage, ir							
cannot accept responsibility for damage, ir	en at -35C/40C(evap./cond.temp) at 4500 rpm condition.						
cannot accept responsibility for damage, ir anufacturer measured compressor capacity take		ubsidiaries. Specifications, terms and pricing are	subject				



Typical Cabinet Temperature Map

Refrigerator 23 cuft Unit, 4 Inner-Shelves + Base, Single Outer Door

Temperatures are averages during > 12 hours of cycle after reaching setpoint of 5 C



	MA14	MA15	MA20	MA21	MA22	MA23	MA24	MA25
Avg	4.8	4.9	4.9	4.9	5.0	4.8	5.1	4.7
Max	6.4	6.3	6.3	6.5	6.5	6.4	6.4	6.5
Min	2.9	3.5	3.3	3.1	3.3	3.1	3.7	2.6

