

## Technical Data Sheet

## Thermo Scientific 21 Cuft General Purpose Convertible Refrigerator/Freezer

Revision-2

## Thermo Fisher Scientific, Asheville, North Carolina

	Catalog Number	
	TSV20RPSA/TSV20FPSA	
Specifications	Production Model Number	
	TSV20RPSA/TSV20FPSA	
	Application, Rating And Electrical Data	
Application	21 Cuft General Purpose Convertible Refrigerator/Freezer	
Storage Volume	21 Cuft / 594 Liters	
Temperature Rating	Ref mode: 1°C to 12°C; Frz Mode: -24°C to -12°C	
Electrical Power	115 V / 60 Hz	
Instrument Rated Current	2.2A	
Building Supply Rating	115v± 10%Volt	
Power Plug	Three prong NEMA 5-15P	
Agency Listings	cETLus	
Sound Pressure Level	40.2 dBA	
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	Hermetic Compressor/1	
Condenser Type/Number	Foamed In Condenser	
Expansion Device	Capillary Tube	
Evaporator Type	Finned Tube Heat Exchanger	
Defrost Method	Automatic	
Refrigerant Charge/Flammability	R600a/Flammable	
	Controller/Electrical System Configuration And Features	
Convertible	Yes - Ref/Fz mode through user interface	
Controller Type	Electronic Controls	
Setpoint Security / Programmable	No	
Compressor Safe Guard	High Temp Cutout Switch / Overload Protector	
Control Sensor	NTC Probe	
Remote Alarm Terminals	Not Present	
Power Failure Alarm	Not Present	
Data Logger / Chart Recorder	Not Present	
	Dimensions And Construction	
Interior Dimensions (H x W x D)	69" x 26.5" x 22.5"(175.26 x 67.3 x 57.15 cm)	
Exterior Dimensions (H x W x D)	76.77" x 32.76" x 28.94" (195 x 83.2 x 73.5 cm)	
Insulation	Cyclopentane	
Door Perimeter heater	No	
Shelves / Capacity	(3) Adjustable Shelves / Max 25 kg load	
All-Direction Casters	2 Adjustable Leveling Feet	
Shipping Weight	244 lbs / 110.6 kg	
Access Port / Dia	No No	
	Typical Performance Characteristics	
21 cu.ft General Purpose Convertible unit - Freezer N	tode 21 cu.ft General Purpose Convertible unit - Refrigerator Mode Test unit MSO number	20028-A-12-3
—Fz AVG —Fz Max —Fz Min	—REF AVG —Ref Max —Ref Min Cabinet Load	Unloaded
20	Average Cabinet Temp at 20C ambient at default setting (Ref mode/Fz mode) (C)	3.94/-18.66
15	Peak Variation (Ref mode /Fz mode) (C) Uniformity (Ref mode /Fz mode) (C)	11.06/9.47
10	Stability (Ref mode /Fz mode) (C)	7.82/6.34
5	1-min Door Opening Recovery time (Ref mode /Fz mode) (min)	5/31
0 de 0	Duty Cycle (%) (Ref mode /Fz mode)	13% / 50%
.5	Cycle (On/Off)rate at default setting - Ref mode (min)	19/121
-10	Cycle (On/Off)rate at default setting - Fz mode (min)	34/34
-15	Energy Consumption (Ref mode /Fz mode) (kW-hr/day) Pull Down Time 20c to SC/-20C (Min)	0.38 / 1.29 44/177
-20	Pull bown Time 20c to 5C/-20C (Min)  Warm Up time 5C/-20C to 15C/0C (min)	44/1//
-25 0:00:00 2:24:00 4:48:00 7:12:00 9:36:00 12:00:00 14:24:00 16:48:00 19:1	0:00:00 2:24:00 4:48:00 7:12:00 9:36:00 12:00:00 14:24:00 16:48:00 19:12:00 21:36:00 24:00:00	-6.3
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- 1) Performance is nominal and individual units may vary.
- 2) Refrigerator 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.

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