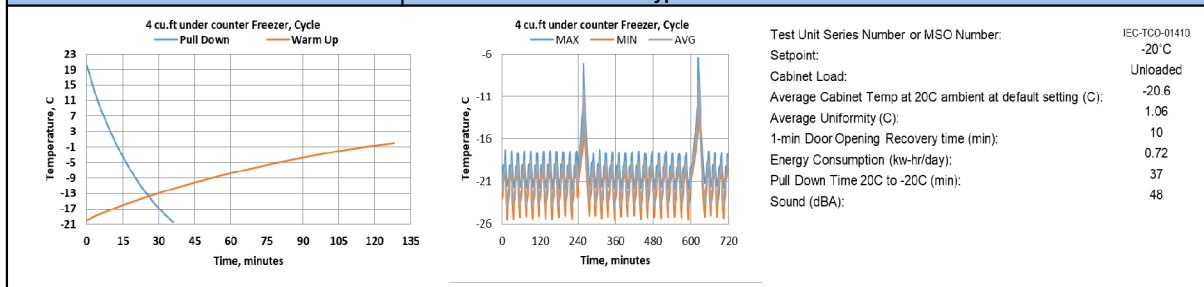




Technical Data Sheet
Thermo Scientific General Purpose Freezer
 Revision-A
 Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Catalog number	TSE0420FV
	Model Number	TSE0420FV
	Application, Rating and Electrical Data	General Purpose Undercounter Laboratory Grade Freezer
Application	General Purpose Undercounter Laboratory Grade Freezer	
Storage Volume / Gross Volume	2.72cu.ft. (77.1Liters) / 4.34 cu.ft (123 Liters)	
Set Point Range/Adjustable in Increments of	-15°C to -25°C / 0.1 (5°F to -13°F)	
Factory setpoint	-20°C	
Storage Temperature	-15°C to -25°C (5°F to -13°F)	
Electrical Power	230 V / 50 Hz, 1ph	
Instrument Rated Current	0.9A	
Building Supply Rating	230 VAC ± 10% of Normal Rated Line volt while operating	
Agency Listings	CE	
Power Plug/Power Cord Length	EU Plug Type / 3 Meters (9.84 Feet)	
Indoor / Outdoor Usage	Indoor Use Only	
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation	
Ambient Operating Temperature	16° C - 32° C (60.8° F - 90° F)	
	Refrigeration Configuration	
Refrigeration System	Vapour Compression System	
Compressor / Number	Hermetic Compressor / 1	
Condenser Type / Number	Wire and Tube type	
Expansion Device	Capillary Tube	
Evaporator Type	Forced cooled Evaporator	
Defrost Method	Electric Heater	
Refrigerant Charge / Flammability	R600a, 34g / Flammable	
	Controller / Electrical System Configuration And Features	
Power Switch	Yes (Push button type)	
Controller Type	EVCO Digital Controller	
Setpoint Security / Programmable	Yes (Adjustable)	
Control Sensor	(1) NTC Probe	
LED lamp	Not Present	
Alarms	Warm temp, Cold temp and Door Open (Visual alarms only)	
Door Switch	Yes	
Power Failure Alarm	Not Present	
Data Logger / Chart Recorder	Not present	
	Dimensions And Construction	
Interior Dimensions (H x W x D)	620 mm x 483 mm x 490 mm (24.4" x 19.01" x 19.29")	
Exterior Dimensions (H x W x D)	833 mm x 595 mm x 645 mm (32.79" x 23.42" x 25.29")	
Insulation	HFC-free Polyurethane Foam	
Door Perimeter heater	Not Present	
Key Lock	Yes	
Shelves / Capacity	(2) Adjustable Shelves,(1 shorter shelf) / Max. 40kg (88 lbs) per shelf	
Levelling Legs	(2) Adjustable Feet In Front, (2) Fixed two roller wheels at rear side	
Ship Weight / Net Weight	52 kg (114.6 lbs) / 43 kg (94.7 lbs)	
Access Port / Dia	Yes, at the bottom-rear side/ 23.5mm	



1) Data is representative of performance and not published product specifications. Technical data sheet test results should not be referenced in developing any regulatory parameters for specific customer usage.

2) Freezer performance will vary based on customer product volume, storage format, operating conditions, test methodology and performing recommended maintenance.

3) Continuous product enhancements may, without notice, result in amendments or omissions to this technical data sheet. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.

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