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Technical Data Sheet High Performance General Purpose Refrigerator

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

	,	, Asneville, North Carolina					
	Catalog number						
	TSX1205GV						
Specifications	Model Number						
	TSX1205GV						
	Application, Rating and Electrical Data						
Application	Storage of General (non-flammable) Laboratory Materials						
Storage Volume	326 Liters / 11.5 Cubic Feet						
Factory Set Point		5°C					
Set Point Range/Adjustable Increment		o 7°C/ 0.1°C					
Electrical Power / Rated Current		208-230V 50 Hz 1 Phase / 3.00A					
Building Supply Rating		rotected 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					
Indoor/Outdoor Usage	Indoo	or Use Only					
Application Environment	Non-Corrosive, Non-Flammable	ble, Non-Explosive, Good Air Ventilation					
Ambient Operating Temperature		C (60° F - 90° F)					
y a superior government		on Configuration					
Refrigeration System		pression system					
Compressor / Number / Capacity		pacity Compressor / 1 / 315W					
Condenser Type/Number		pe and Forced-Air Cooled / 1					
Expansion Device		illary Tube					
Evaporator Type / Defrost Method		or Coil / Automatic Defrost					
Refrigerant Charge / Flammability							
Remgerant Charge / Flammability	R290,110gms,GWP:3 ODP:0 / Flammable Controller/Electrical System Configuration and Features						
Controller Level							
Power Switch	Eye Level Keyed Off-On - Alarm						
<u> </u>							
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)						
Connectivity / Remote Outputs	Remote alarm contacts, RS485 output and 4-20 mA output (optional)						
Adjustable Warm / Cold Alarms		Adjustable					
Power Failure Alarm		tandard					
Electronic Chart Recorder	Optional Dimensions and Construction						
	Dimensions and Construction						
Interior Dimensions (D x W x H)	55.4 cm X 50.8 cm x 133.1 cm (21.8" X 20.0" X 52.4")						
Exterior Dimensions (D x W x H)		35.4 cm (30.5" x 24.0" x 73.0")					
Insulation	5.08 cm (2.0") High-Density	Water-Blown Polyurethane Foam					
Door Perimeter heater		Yes					
Shelves / Load Limit	(4) Adjustable Wire Shel	lves / 45 kg (100 lbs) per Shelf					
All-Direction Casters	Standa	rd with Locks					
Shipping Weight	154	kg / 339 lb					
	Typical Perform	nance Characteristics					
12 cuft Upright Refrigerator, Pull Down and Warm Up	12 cuft Upright Refrigerator at 5C Cycle	Test Unit Series Number or MSO Number: 19758-A-3					
——Pull Down ——Warm Up	9 MAX — MIN — AVG						
19	8	Cabinet Load: Unloaded Average Cabinet Temp at 5C Cycle (C): 5.2					
J 17	J 7	Peak Variation from Setpoint (C): +1.6 / -1.6					
and 11	6 6	Uniformity (C): 0.9 Stability (C): 2.3					
# 13	Temperature 5 6	1-min Door Opening Recovery to 5C (min): 3					
d 11	ud 4	Duty Cycle at 5C (%): 25 Cycle (on/off) rate at 5C (min): 2 / 7					
. 9	3	Energy Consumption (kw-hr/day): 3.2					
7	2	Heat Rejection Rate (btu/hr): 451 Pull Down Time (to 5C) (min): 9					
5	1	Warm Up Time (5C to 15C) (min):					
0 50 100 150 20		Sound (dBA): 52					
Time, minutes	Time, minutes						

- 1) Performance is nominal and individual units may vary.
- 2) Product 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.

Temperatures are averages during > 20 cycles after reaching a setpoint of 5C

19758-A-3

Typical Cabinet Temperature Map Refrigerator 12cuft , 4 Inner-Shelves + Base, Single Outer Door

Top View of Shelves

REAR FRONT M3 M4 M5 M1 M2

M10
M13 M14
M15

M20

M12

M23 M24 M25 M21 M22

Cabinet Average: 5.2 C **Probe Average:** 4.9 C

M11

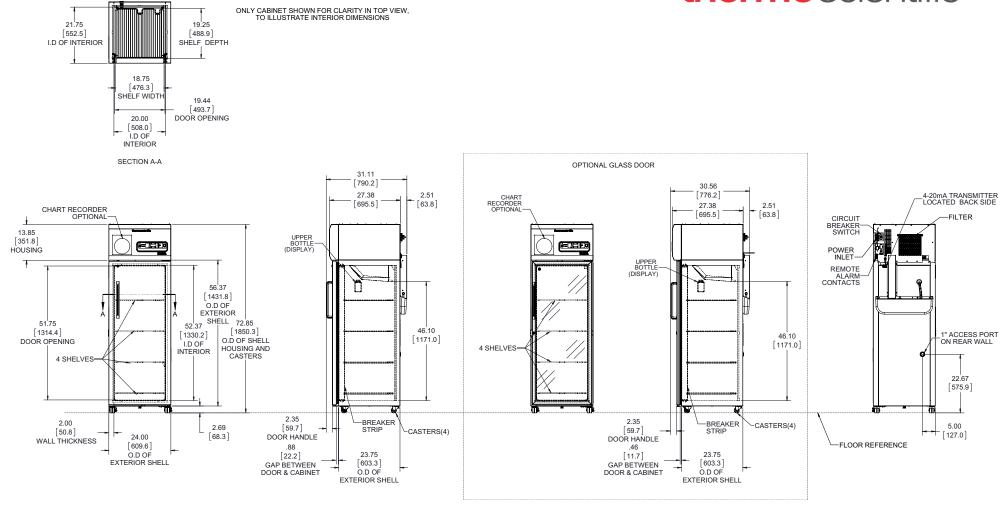
Peak Variation: +1.6 C / -1.6 C

1: 5.6C	Front View		2: 5.4C
3: 5.1C	Probe	5: 5.3C	2: 5:4C 4: 5.1C
		10: 5.2C	
11: 5.2C 13: 5.0C	>	15: 5.1C	12: 5.1C - 14: 4.9C
		20: 5.1C	
21: 5.3C 23: 5.4C	> •	25: 5.2C	22: 4.8C 24: 5.1C

_		M1	M2	M3	M4	M5	M10	M11	M12	M13
	Avg	5.6	5.4	5.1	5.1	5.3	5.2	5.2	5.1	5
Г	Max	6.6	6.4	6.3	6.3	6.4	6.3	6.2	6.2	6.2
	Min	4.4	4.2	3.8	3.7	4	4.1	4.3	4	3.6

	M14	M15	M20	M21	M22	M23	M24	M25
Avg	4.9	5.1	5.1	5.3	4.8	5.4	5.1	5.2
Max	6.1	6.2	6.3	6.3	6	6.2	6.1	6.2
Min	3.6	4	3.7	4.2	3.4	4.5	4.2	4.1

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12 cu.ft. Lab Refrigerator 4 Shelves Single Outer Door Top Mount Controls

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