thermo scientific

Technical Data Sheet

Thermo Scientific High Performance Refrigerator

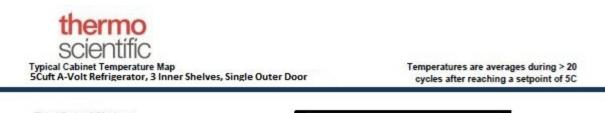
Revision-1

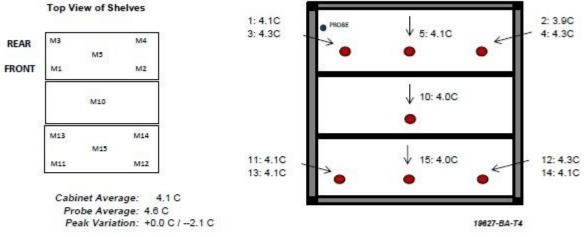
Thermo Fisher Scientific, Asheville, North Carolina

Specifications Catalog Number TSX305CD TSX305CD Production Model Number TSX305CD Application Storage Volume Image Volume Storage Volume Image Volume Storage Volume Storage Volume Image Volume Prover PupPower Col Length Application Ap							
Specifications Production Model Number 15X:056GD Application 5.5cl High Performance Laboratory Refrigerator Storage Volume 5.5cl High Performance Laboratory Refrigerator Temperature Rating +2rC to 8°C Beiderical Power 2300/50Hz Instrument Rated Current 5.5cl High Performance Laboratory Refrigerator Building Supply Rating Breaker 15 Amps Power Plug/Power Cord Length NEMA 6-15P, 1328 Meters (6 Feet) Agenculution CE, Rotis, Reach Indoor/Outdoor Usage Indoor Use Only Application Environment Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation Ambient Operating Temperature 15°C - 32°C (80° F. 90°F) Refrigeration System Thermoelectric Based Refrigeration System Cooling System 125W Thermoelectric Heat Pump Devices Controller Level Automate Power Switch No Controller Level Proced Air Heat-pipe Fin Tube With Water As Refrigerant Power Switch No Power Switch No Power Switch No Data Logger / Chart Recorder Yes, In-Built Oata Logge							
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Dimensions And Construction Interior Dimensions (H x W x D) 23" X 19.5" X 20.5" (58.4 X 49.5 X 52.07 cm) Exterior Dimensions (H x W x D) 31.80" X 23.60" X 27.02" (80.8 X 59.9 X 68.6 cm) Insulation VIP, Polyurethane Foam Door Perimeter heater No Shelves 3 Adjustable Wire Shelves Levelling Legs 4 Leveling legs with 1" Height adjustment Ship Weight 155 lbs Access Port Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics Unloaded Verge Cabinet Load: Unloaded Average Cabinet Temp at 4C Cycle (C): 4.1 Poo -4VG -Mix Average Cabinet Temp at 4C Cycle (C): 4.1 Poo -4VG -4VG Average Cabinet Temp at 4C Cycle (C): 4.1 Peak Variation from Setpoint (C): +0.05 / -2.00 Uniformity (C): 0.45 Stability (C): 1.63 Time, Minutes -50 Dist Cycle at 4C (%): 50 Energy Consumption (kw-hr/day): 31 Het Rejection Rate (btu/h):							
Interior Dimensions (H x W x D) 23" X 19.5" X 20.5" (58.4 X 49.5 X 52.07 cm) Exterior Dimensions (H x W x D) 31.80" X 23.60" X 27.02" (80.8 X 59.9 X 68.6 cm) Insulation VIP, Polyurethane Foam Door Perimeter heater No Shelves 3 Adjustable Wire Shelves Levelling Legs 4 Leveling legs with 1" Height adjustment Ship Weight 155 lbs Access Port Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics South Refrigerator 20C amblet, Pull Down And Warm Up 0 50 South Refrigerator 20C amblet, 52 Code Typical Performance Characteristics South Refrigerator 20C amblet, 52 Code Test Unit Series Number or MSO Number: 19627-BA-Te Unloaded Avg Max Cabinet Load: Unloaded Avg Avg South Refrigerator 20C amblet, 52 Code Test Unit Series Number or MSO Number: 19627-BA-Te Cabinet Load: <	Data Logger / Chart Recorder						
Exterior Dimensions (H x W x D) 31.80" X 23.60" X 27.02" (80.8 X 59.9 X 68.6 cm) Insulation VIP, Polyurethane Foam No Shelves Shelves Levelling Legs Levelling Legs Access Port Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics South Refrigerator 20C ambinet, Pull Down And Warm Up Avg Max Typical Performance Characteristics South Refrigerator 20C ambinet, Pull Down And Warm Up Typical Performance Characteristics South Refrigerator 20C ambinet, SC Cycle Test Unit Series Number or MSO Number: 19627-BA-Te Option (bit (C): Avg Max Cabinet Load: Option (C): #10.057-2.00 Option (bit (bit (hr)) 0.657-2.00 Option (bit (bit (hr)) 0.45 South Refrigerator 20C ambinet, SC Cycle Un							
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Door Perimeter heater No Shelves 3 Adjustable Wire Shelves Levelling Legs 4 Leveling legs with 1" Height adjustment Ship Weight 155 lbs Access Port Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics Scuft Refrigerator 20C ambinet, Pull Down And Warm Up Scuft Refrigerator 20C ambinet, SC Cycle Test Unit Series Number or MSO Number: 19627-BA-TZ Outor Beinet, Pull Down And Warm Up Scuft Refrigerator 20C ambinet, SC Cycle Test Unit Series Number or MSO Number: 19627-BA-TZ Outor Beinet, Pull Down And Warm Up Scuft Refrigerator 20C ambinet, SC Cycle Test Unit Series Number or MSO Number: 19627-BA-TZ Cabinet Load: Average Cabinet Temp at 4C Cycle (C): 4.1 Po Unloaded Average Cabinet Temp at 4C Cycle (C): 4.1 Po Outor 150 0 100 150 200 200 250 Scuft Refrigerator 20C ambinet, 5C Cycle 0 4.1 Test Unit Series Number or MSO Number: 19627-BA-TZ Cabinet Load: New Cycle (C): 4.1 Outor 100 0 0 pening Recover							
Shelves 3 Adjustable Wire Shelves Levelling Legs 4 Leveling legs with 1" Height adjustment Ship Weight 155 lbs Access Port Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics Scuft Refrigerator 200 ambinet, Pull Down And Warm Up Scuft Refrigerator 200 ambinet, SC Cycle Total Performance Characteristics Typical Performance Characteristics Scuft Refrigerator 200 ambinet, SC Cycle Total Performance Characteristics Test Unit Series Number or MSO Number: 19627-BA-Tz Output Output Avg Max Test Unit Series Number or MSO Number: 19627-BA-Tz Cabinet Load: Average Cabinet Temp at 4C Cycle (C): Uniformity (C): 4.1 Peak Variation from Setpoint (C): Uniformity (C): 4.05/-2.06 Output: Stability (C): Time, Minutes 163 Time, Minutes 50 Output: Stability (C): Time, Minutes 3.1 Heat Rejection Rate (btu/hr): Duty Cycle at 4C (W) (min): 55 <td< td=""><td></td><td></td><td>ne Foam</td><td></td></td<>			ne Foam				
Levelling Legs 4 Leveling legs with 1" Height adjustment Ship Weight 155 lbs Access Port Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics Scutt Refrigerator 20C ambinet, Pull Down And Warm Up							
Ship Weight 155 lbs Access Port Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics Scutt Refrigerator 200 ambinet, Pull Down And Warm Up Test Unit Series Number or MSO Number: 19627-BA-TZ Cabinet Load: Unloaded Optimized Optimized <thoptimized< th=""> Optimized Opt</thoptimized<>							
Access Port Yes, Rear wall, Accommodates 25mm Probe Typical Performance Characteristics Test Unit Series Number or MSO Number: 19627-BA-T- Cabinet Load: Average Cabinet Temp at 4C Cycle (C): +0.05/-2.06 Unloaded Average Cabinet Temp at 4C Cycle (C): +0.05/-2.06 Unloaded Test Unit Series Number or MSO Number: 19627-BA-T- Cabinet Load: Average Cabinet Temp at 4C Cycle (C): +0.05/-2.06 Unloaded Test Unit Series Number or MSO Number: 19627-BA-T- Cabinet Load: Average Cabinet Temp at 4C Cycle (C): +0.05/-2.06 Unloaded Test Unit Series Number or MSO Number: 19627-BA-T- Cabinet Load: Average Cabinet Temp at 4C Cycle (C): +0.05/-2.06 Unloaded Average Cabinet Temp at 4C Cycle (C): +0.05/-2.06 Unformity (C): 5 Stability (C): 1.63 1-min Door Opening Recovery to 4C (min): 5 Duty Cycle at 4C (%): 50 Energy Consumption (kw-hr/day): 3.1 Heat Rejection Rate (btu/hr): 260.2 Pull Down Time (4C to (C) (min): 55 Warm Uho Time (4C to (C) (min): 55 Warm Uho Time (4C to (C) (min): 55 Warm Uho Time (4C to (S)) Warm Uho Time							
Typical Performance Characteristics Scutt Refrigerator 20C ambinet, Pull Down And Warm Up Test Unit Series Number or MSO Number: 19627-BA-TA O To							
Scuft Refrigerator 20C ambinet, Pull Down And Warm Up	Access Port						
Scutt Refrigerator 20C ambinet, Pull Down And Warm Up		Typical Performance (Characteristics				
Suth terregrado 20 amonet, pull bown and will op			Test Unit Series Number or MSO Number	19627-BA-T4			
2 2 2 2 2 2 2 2 2 2 2 2 2 2							
20 20 20 20 20 50 50 50 50 50 50 50 50 50 5	25						
Image: Degree of the second	20						
o 50 100 150 200 250 0 60 120 180 240 300 360 420 480 540 600 660 720 Pull Down Time (to 4C) (min): 55 Time, Minutes 0 60 120 180 240 300 360 420 480 540 600 660 720 Pull Down Time (to 4C) (min): 55 Varm Uhr Time, 4/Lin to 15/Lin	e 15	g 5	Uniformity (C):	0.45			
o 50 100 150 200 250 0 60 120 180 240 300 360 420 480 540 600 660 720 Pull Down Time (40 ct 0 fc) (min): 55 Time, Minutes 0 60 120 180 240 300 360 420 480 540 600 660 720 Pull Down Time (40 ct 0 fc) (min): 55 Varm Uhr Time (40 ct 10 fc) (min): 53 54 540 600 660 720 Pull Down Time (40 ct 0 fc) (min): 53							
o 50 100 150 200 250 0 60 120 180 240 300 360 420 480 540 600 660 720 Pull Down Time (40 ct 0 fc) (min): 55 Time, Minutes 0 60 120 180 240 300 360 420 480 540 600 660 720 Pull Down Time (40 ct 0 fc) (min): 55 Varm Uhr Time (40 ct 10 fc) (min): 53 54 540 600 660 720 Pull Down Time (40 ct 0 fc) (min): 53			Duty Cycle at 4C (%):				
o 50 100 150 200 250 0 60 120 180 240 300 360 420 480 540 600 660 720 Pull Down Time (40 C (164 C) (min): 55 Time, Minutes 200 60 120 180 240 300 360 420 480 540 600 660 720 Varm Up Time (40 C (15C) (min): 234			Energy Consumption (kw-hr/day):	3.1			
Time, Minutes 0 60 120 180 240 300 360 420 480 540 600 660 720 Turbown Time (4C to (min), 234							
Time, Minutes Training of the toology (time).		0 60 120 180 240 300 360 420 480 540 600 660 720		234			
		Time, Minutes	the second finite	LUT			
) Performance is nominal and individual units may vary.			S.				
) Freezer performance will differ due to product amount, product size and operating conditions.							

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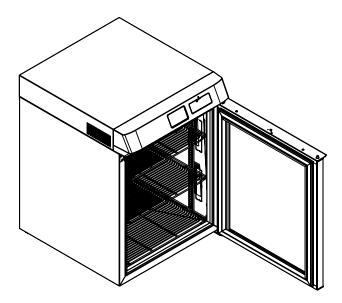




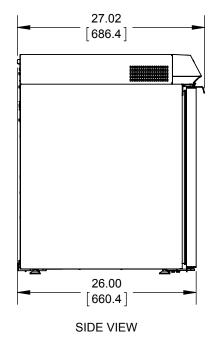
	M1	M2	M3	M4	M5	M10
Avg	4.1	3.9	4.3	4.3	4.1	4
Max	5	5	5	5	4.9	4.9
Min	3.2	2.9	3.6	3.6	3.4	3.2

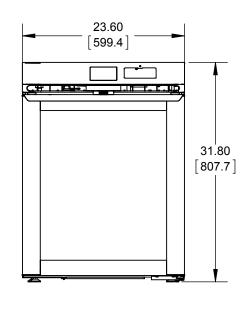
	M11	M12	M13	M14	M15
Avg	4.1	4.3	4.1	4.1	4
Max	5	5	5	4.9	4.9
Min	3.3	3.6	3.4	3.3	3.1

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