

Technical Data Sheet

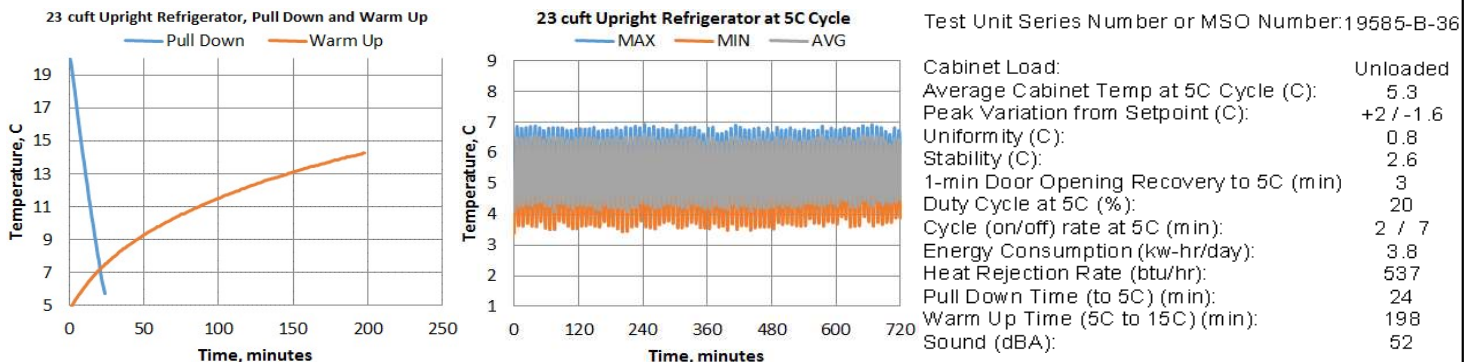
High Performance Chromatography Refrigerator

Revision- 4

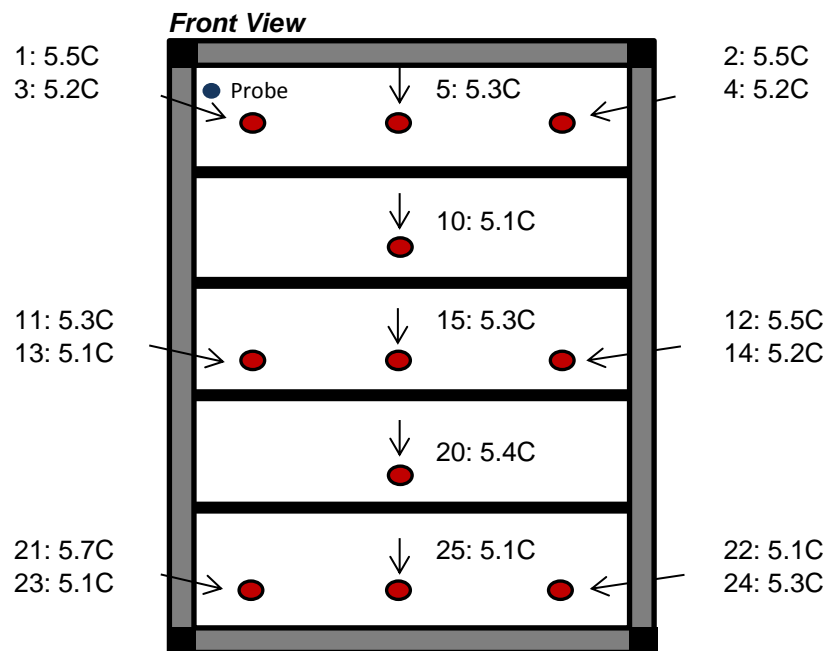
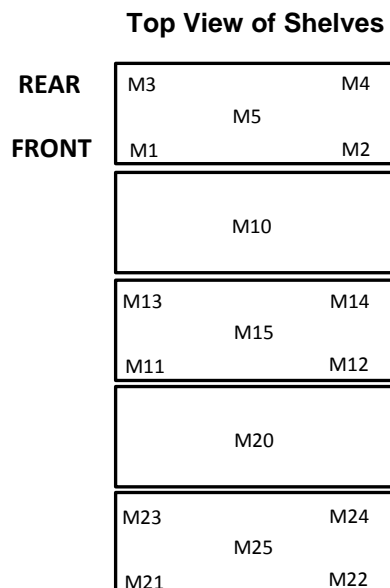
Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Catalog number
	TSX2305CV
Model Number	TSX2305CV - Chroma +5
Application, Rating and Electrical Data	
Application	Chromatography (non-flammable) Refrigerator
Storage Volume	650 Liters / 23.0 Cubic Feet
Factory Set Point	5°C
Set Point Range / Adjustable Increment	3°C to 7°C / 0.1°C
Electrical Power / Rated Current	208-230 V 50/60 Hz 1 Phase / 2.3 A (Unit) / 4 A (Internal Outlet)
Building Supply Rating	15A dedicated grounded non-GFCI circuit. Protected 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	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 / Capacity	Hermetic Variable Capacity Compressor / 1 / 286 W
Condenser Type / Number	Microchannel and Forced-Air Cooled / 1
Expansion Device	Capillary Tube
Evaporator Type / Defrost Method	Forced Air Evaporator Coil / Automatic Defrost
Refrigerant Charge / Flammability	R290, 145 gms, GWP:3 ODP:0 / Flammable
Controller/Electrical System Configuration and Features	
Controller Level	Eye Level
Power Switch	Keyed Off-On - Alarm
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	Fully Adjustable
Power Failure Alarm	Standard
Electronic Chart Recorder	Optional
Dimensions and Construction	
Interior Dimensions (D x W x H)	72.3 cm x 61.0 cm x 147.3 cm (28.5" x 24.0" x 58.0")
Exterior Dimensions (D x W x H)	96.2 cm x 71.1 cm x 199.7 cm (37.8" x 28.0" x 78.6")
Insulation	5.08 cm (2.0") High-Density Water-Blown Polyurethane Foam
Door Perimeter Heater	Yes
Shelves / Load Limit	(2) Adjustable Half Wire Shelves / Max. Cap. per Shelf: 22.5 kg (50 lbs)
All-Direction Casters	Standard With Locks
Shipping Weight	195 kg / 429 lb

Typical Performance Characteristics



- 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 omissions to this specification. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.



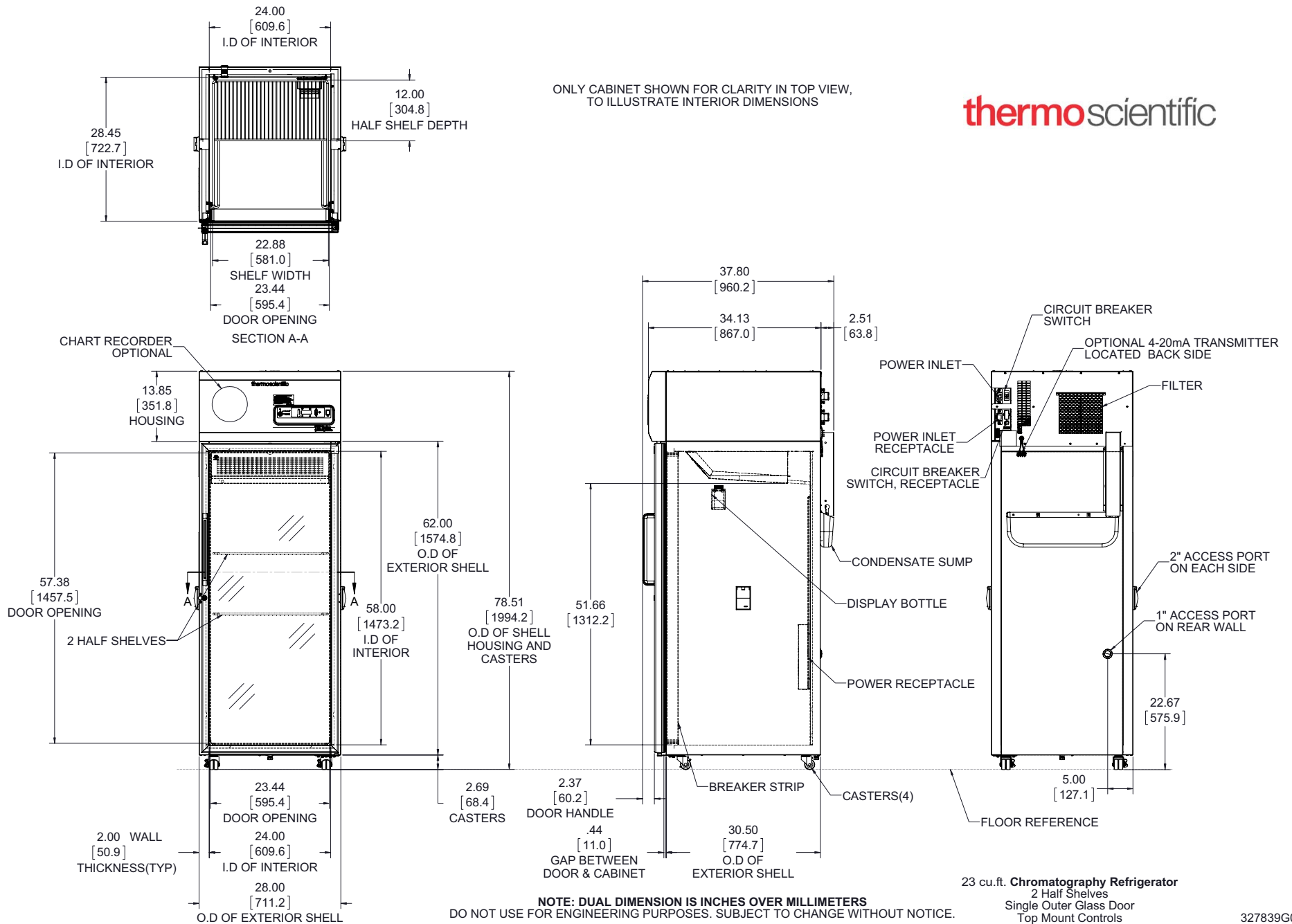
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Cabinet Average: 5.3 C
Probe Average: 5.5 C
Peak Variation: +2.0 C / -1.6 C

	M1	M2	M3	M4	M5	M10	M11	M12	M13
Avg	5.5	5.5	5.2	5.2	5.3	5.1	5.3	5.5	5.1
Max	6.7	6.6	6.6	6.6	6.5	6.7	6.6	6.6	6.7
Min	4.3	4.6	3.9	4	4.2	3.5	4.2	4.4	3.4

	M14	M15	M20	M21	M22	M23	M24	M25
Avg	5.2	5.3	5.4	5.7	5.1	5.1	5.3	5.1
Max	6.7	6.5	6.6	7	6.5	6.4	6.6	6.8
Min	3.7	4.2	4.5	4.4	3.8	3.9	4.2	3.4

ONLY CABINET SHOWN FOR CLARITY IN TOP VIEW,
TO ILLUSTRATE INTERIOR DIMENSIONS



NOTE: DUAL DIMENSION IS INCHES OVER MILLIMETERS
DO NOT USE FOR ENGINEERING PURPOSES. SUBJECT TO CHANGE WITHOUT NOTICE.