TSCI-450CR-SWS-R-WW-1A

True Scientific – 437.8 Liters (15.46 Cu Ft) Capacity • Chromatography Unit • Refrigerator – Swing Solid Door – Right Door Hinge – White Exterior • White Interior – 115 Voltage • Revision A

2 SHELF OPTIONS
Option 1: Full Depth Sheet Metal Shelves
Option 2: Half Depth Wire Shelves w/ Mast

Project Name	Location	Item #	Quantity	Model #	AIA #	SIS #



*Image shows TSCI-450CR-SWS-R-WW-1A 001-2P1D003 with 5 shelves; actual product includes 7.

Option 1: Full Depth Shelves



TSCI-450CR-SWS-R-WW-1A 001-2P1D003-001-01
Comes with 7 full depth perforated sheet metal shelves.

Option 2: Half Depth Shelves w/ Mast



TSCI-450CR-SWS-R-WW-1A 001-2P1DCM03-002-01
Comes with 7 half depth wire shelves.

FEATURES

- Expertly designed air circulation and refrigeration systems ensure temperature stability and uniformity throughout the cabinet, meeting CDC guidelines and eliminating hot and cold spots that could put your contents at risk.
- Two Shelf Options:
  Option 1: 7 Adjustable perforated and non-peel white coated sheet metal full depth shelves, ideal for storing large containers as well as vials and tubes.
  Option 2: 7 half depth wire shelves with a mast behind the shelves which is ideal for holding chromatography columns and non-rigid containers.
- True Scientific products use R290, a natural refrigerant that is future-proof and sets sustainability standards while providing increased efficiency and reduced operating cost.
- Reliability you can count on with best-in-class warranty – 3 year labor, 5 year parts, 7 year compressor warranty
- Self-Cleaning condenser technology reduces the need for cleaning the condensing coil, reduces energy consumption, and helps maintain the tightest temperatures.
- Battery backed-up digital display of current temperature with alarms for high/low temp, power failure, sensor failure and door ajar.
- Simulated Temperature Monitoring measured in a glycol-filled bottle to simulate actual product temperature.
- Chromatography models have a temperature probe port in the rear of the unit, 2 inch access ports on either side, and an internal duplex outlet.

PERFORMANCE SPECIFICATIONS

Usable Capacity (cu. ft.) (Liters)	15.46	437.8
Temperature Range (min - max)	2°C	10°C
Temperature Set Point	5°C	
Temperature Uniformity	0.4°C	
Temperature Stability	0.6°C	
Energy Star Certified	Yes	
NSF 456 Certified	Yes[1]	
Energy Usage (kWh)	1.74	
Rejected Heat (BTU/Hr)	576	

DIMENSIONS & CONSTRUCTION

External Dimensions W** x D† x H (in.) (mm)	27 x 24 ½ x 81 ⅝ (686 x 622 x 2073)	
Number of Doors	1	
Door Type / Swing or Slide	Solid	Swing
Number of Shelves	7	
Shelf Dimensions (W x D in.) / Shelf Capacity (lbs.)	Full Depth Sheet Metal Shelf	
	22 9⁄16 x 16 15⁄16	77
	Half Depth Wire Shelf	
	22 9⁄16 x 7 11⁄16	30
Probe Port(s) / Diameter (in.)	1	0.625
Access Port(s) / Diameter (in.)	2	2
Internal Outlet	Duplex Outlet 12A Max	
Castors or Leg Levelers	2.5 in. Castors	
Crated Weight (lbs) (kg)	300	136
Refrigerant	R290	

ELECTRICAL DATA

Voltage / Frequency	115V	60Hz
Amperage	1.8A	
Plug Type	NEMA 5-15P	

Specifications subject to change without notice. Chart dimensions rounded up to the nearest ⅛" (millimeters rounded up to next whole number).

[1] Meets NSF 456 performance standards; calibrated probe currently not offered.

**Width does not include ⅞" (23mm) each side for access ports.

† Depth does not include 1⅜" (35 mm) for door handle or ⅝" (16mm) for rear system mechanical components.

APPROVALS	AVAILABLE AT

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STANDARD FEATURES

Refrigeration System
- Refrigeration system specifically designed to maintain cabinet temperatures between 2°C - 10°C (36°F - 50°F).
- Expertly designed airflow system controls temperature uniformity throughout the cabinet within +/- 1°C.
- Self-contained, capillary tube system using environmentally friendly R290 hydrocarbon refrigerant that has zero (0) ozone depletion potential (ODP), & 0.02 global warming potential (GWP).
- Reciprocating hermetic compressor paired with forced air copper tube, aluminum fin condenser.
- Automatic defrost.
- State-of-the-art, electronically communicated evaporator and condensing fan motors. Produces less heat, reduces energy consumption, and provides more efficient airflow.
- Operating conditions: Maximum relative humidity 60% for temperatures from 15°C - 32°C (59°F - 90°F).
- Indoor use only.
- CDC compliant.

Cabinet Construction
- **Exterior** - non-peel or chip white powder coated cold rolled steel; durable and permanent. White aluminum back.
- **Interior** - attractive, white aluminum interior liner with a stainless steel floor.
- **Insulation** - entire cabinet structure is foamed-in-place using a high density polyurethane insulation that has zero ozone depletion potential (ODP) and zero global warming potential (GWP).
- 0.625 Inch diameter probe access port in the back of the unit.
- LED interior lighting, provides more even lighting throughout the cabinet.
- Remote alarm contacts.

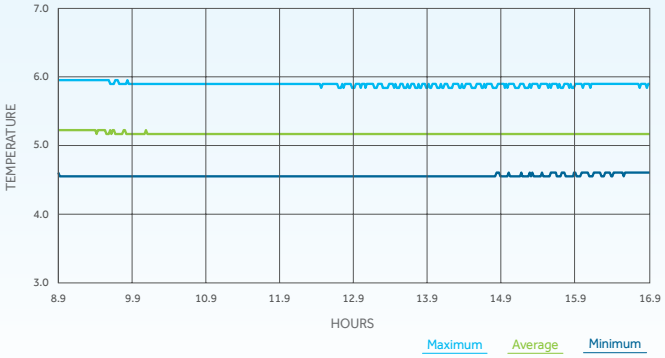
Shelving
- Two Shelf Options:
  Option 1: 7 Adjustable perforated and non-peel white coated sheet metal full depth shelves, ideal for storing large containers as well as vials and tubes.
  Option 2: 7 half depth wire shelves with a mast behind the shelves which is ideal for holding chromatography columns and non-rigid containers.
- Four (4) stainless steel shelf clips are included per shelf.

Door
- Non-peel or chip white powder coated cold rolled solid steel door.
- Self closing doors, positive seal, torsion type closure system.
- Door ajar alarm.
- Door fitted with 12" (305mm) long extruded handle. Advanced technology with built-in antimicrobial properties protecting the handle.
- Door lock included.
- Magnetic door gaskets of one piece construction, removable without tools for ease of cleaning.

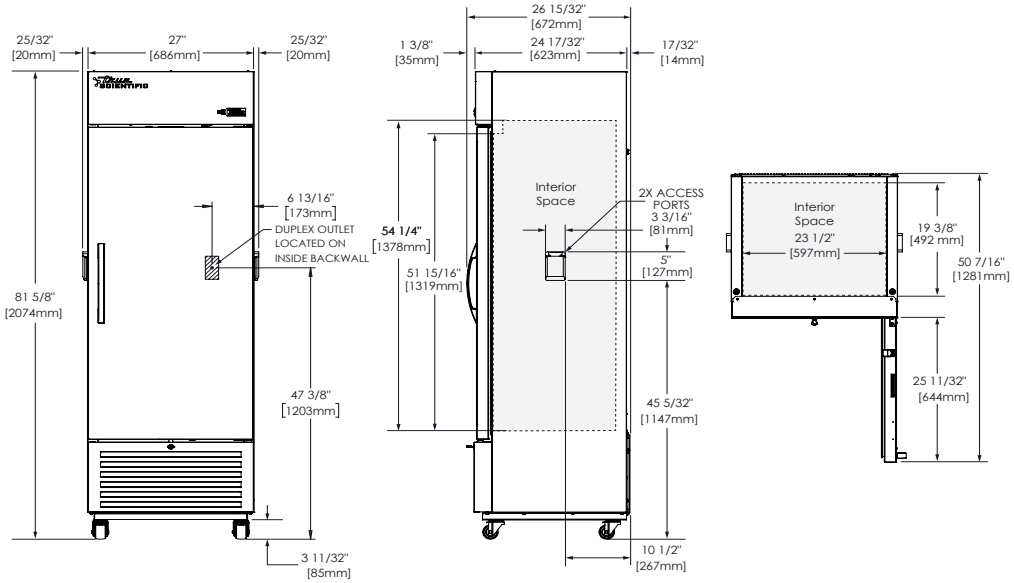
Electrical
- Unit completely pre-wired at factory and ready for final connection to a 115/60/1 phase, 15 amp dedicated outlet. Cord and plug set included.

Optional Features/Accessories (upcharge and lead times may apply)
- Stainless steel interior
- Stainless steel exterior
- Left door swing
- Additional perforated sheet metal shelves
- Full depth wire shelves
- 6" standard legs
- 6" seismic flanged legs
- Half depth wire shelves
- Chromatography mast - Requires half depth wire shelves

UNIFORMITY & STABILITY



PLAN VIEW



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