

# Delfield<sup>®</sup> SCIENTIFIC Scientific Line

Solid Door Single Section Dual Temp Refrigerator/Freezer Reach-Ins

Project \_\_\_\_\_  
Item \_\_\_\_\_  
Quantity \_\_\_\_\_  
CSI Section 11400  
Approved \_\_\_\_\_  
Date \_\_\_\_\_

Scientific Line: Solid Door Single Section Dual Temp Refrigerator/Freezer Reach-Ins

## Models

- LSDTR1-SH Refrigerator top/freezer bottom stainless exterior and interior with half door
- LADTR1-SH Refrigerator top/freezer bottom stainless exterior and aluminum interior with half door
- LMDTR1-SH Refrigerator top/freezer bottom stainless front, aluminum sides and interior with half door



LMDTR1-SH

## Standard Features

- Microprocessor control with RS485 port
- (2) Glycol filled product simulator bottles (one per door)
- Built in door locks with heavy duty strikes
- Recessed door handles
- Expansion valve refrigeration system provides quick recovery after door openings
- (2) L.E.D. digital temperature readout on easy-view front panel
- Four (4) epoxy-coated wire shelves
- Temperature range of 1°C and 10°C (preset at 4°C) (Refrigerator) and -10°C to -28°C (preset at -18°C) (Freezer)
- Illuminated interior for clear visibility
- Durable ABS breaker strips
- High density foamed in place environmentally friendly, Kyoto Protocol Compliant, Non ODP (Ozone Depletion Potential), Non GWP (Global Warming Potential) polyurethane keeps energy costs low
- Four (4) heavy-duty 3" (4" ride height) casters; front casters with brakes and swivel, shipped loose

- Made in the USA
- Adaptive defrost
- +/- 2°C tight tolerance
- 7/8" access port

## Options & Accessories

- Additional epoxy-coated wire shelf
- Stainless steel interior drawer(s), maximum two per section
- Temperature recorder
- Alarm/monitor system
- Recorder charts and pens
- Chart # 1120-061 (-17°C to 38°C)
- Chart # 1120-062 (0°C to -60°C)
- Ink pen set # 1120-025

## Specifications

**Exterior:** LS and LA models shall have corrosion resistant stainless steel exterior cabinet sides, front and shroud. LM models shall have corrosion resistant aluminum on exterior cabinet sides and will have stainless front and shroud.

**Interior:** Cabinet interior shall be corrosion resistant stainless steel (LS models) or heavy gauge aluminum (LA and LM models). Bottom and top surfaces shall be die stamped to provide radius corners and recessed floor. Eight silver freeze epoxy coated wire shelves are provided. Shelves rest on clips which are adjustable on 1" increments on stainless steel pilasters affixed to the cabinet interior. Pilasters are removable without tools for cleaning. Mounted to the interior ceiling of each compartment, the interior incandescent lights are controlled automatically through a switch mounted in the hinge assembly to protect against breakage. Door openings are protected with high impact durable ABS breaker strips. An evaporator shall be mounted to the ceiling assuring low velocity, even air movement throughout the cabinet interior.

**Doors:** Exterior shall be corrosion resistant stainless steel. Interior liner shall be resilient high impact ABS material formed to protrude beyond the door gasket to protect the gasket from tearing. Each door has two edge mount, self closing, cam lift style hinges. Metal door handle shall be recessed into the door for easy grip without impacting aisle space. Keyed door lock is mounted in the door next to the handle. Lock engages into a heavy duty strike mounted to the cabinet face. Door gaskets

are magnetic and mount to the door snapping in place and are removable without tools.

**Refrigeration system:** Each compartment has its own separate refrigeration system. Condensing units are located on top of the cabinet. Evaporator coils are located inside the cabinet mounted to the interior ceiling of each compartment. Defrost is automatic. Condensate travels down a tube in the cabinet side wall to a receptacle mounted to the exterior bottom of the cabinet where it is evaporated with the aid of an electric heater. Each compartment's temperature is individually monitored, controlled, and displayed on the exterior of the cabinet. Refrigerator compartment maintains between 1°C and 10°C (preset at 4°C). Freezer compartment maintains temperature between -10°C to -28°C (preset at -18°C).

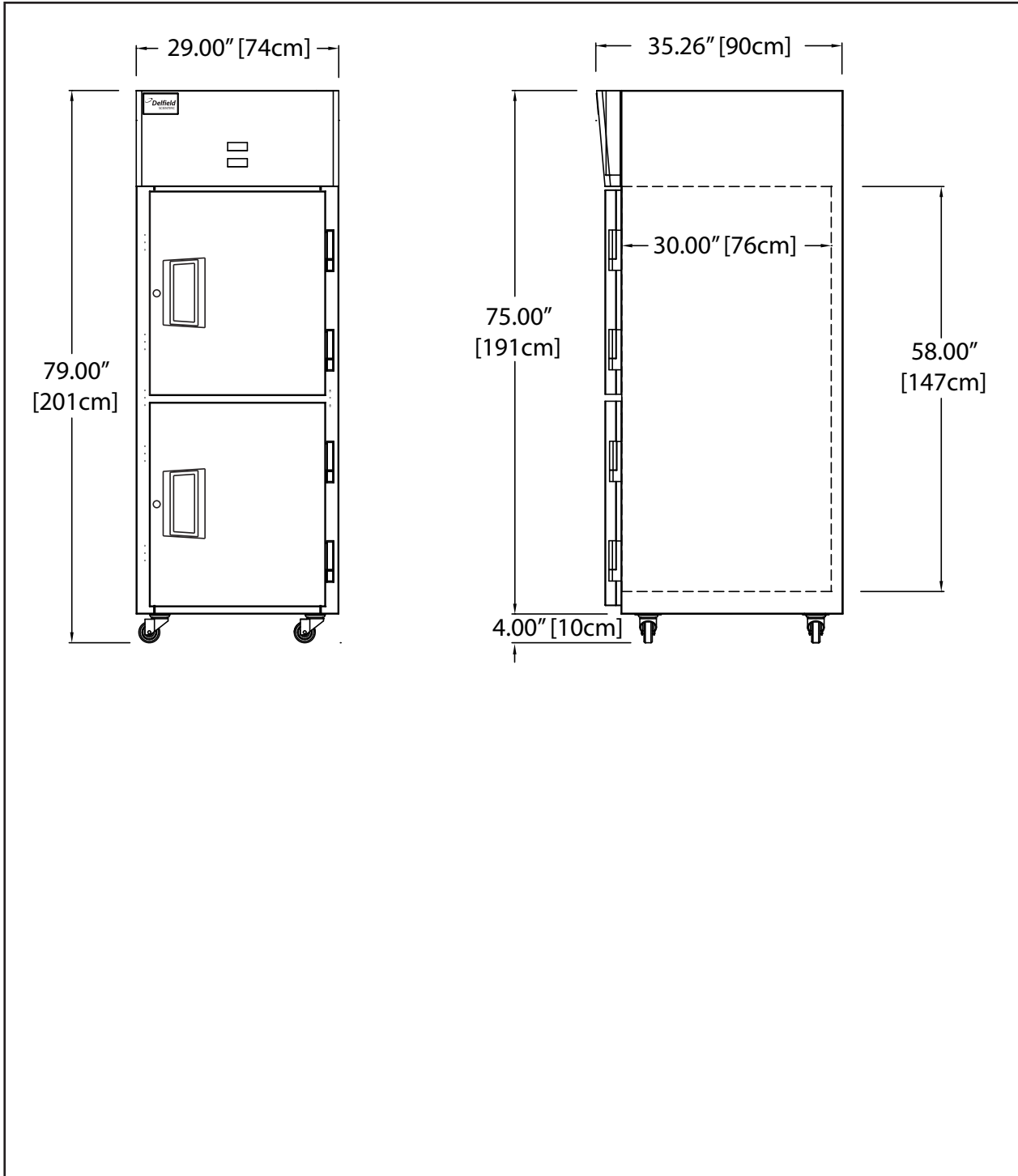
**Electrical:** Standard electrical shall be 115V, 60 Hz single phase. Unit comes with one 10' cord and plug with single point connection to all cabinet and refrigeration system electronics. It is attached to a junction box mounted on the exterior top of the cabinet.

**NOTE:** This equipment is designed for use in locations with heat and air conditioning, where temperature and relative humidity at 21°C and 50% relative humidity.

**Warranty** included is a 2 year parts and labor warranty with an additional 3 years parts warranty on the compressor (5 total years parts on the compressor).



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Specifications											
Models	V/Hz/Ph	Amps	Min. Circuit Amp	NEMA Plug	Ship Weight	Section	# of Shelves	Shelf Ft <sup>2</sup>	Interior Ft <sup>3</sup>	H.P.	BTU/Hr
LSDTR1-SH	115/60/1	12.0	15	5-20P	525lbs 238(kg)	Refrigerator	2	17.08	10.81	1/5	1590
LADTR1-SH						Freezer	2	17.08	10.81	1/4	1040
LMDTR1-SH											

Delfield reserves the right to make changes to the design or specifications without prior notice.