

# Technical Data Sheet

## Thermal Scientific Laboratory Freezer

Specifications	Model Number
	2330A Automatic Defrost Laboratory Freezer
	Application, Rating and Electrical Data
Application	Storage of Laboratory Materials
Storage Volume	659 Liters / 23.3 Cubic Feet
Temperature Rating	-30°C @ 32°C (90°F) Ambient
Electrical Power	115 VAC, 60 Hz, 1 Phase
Instrument Rated Current	16.0 FLA
Building Supply Rating	Breaker 20 Amps/115v±10 Volt while operating
Power Plug/Power Cord Length	5-20 P/ 10 feet
Agency Listings	UL, cUL, FDA
Indoor/Outdoor Usage	Indoor Use Only
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 15° C - 32° C (59° F - 90° F)
	Refrigeration Configuration
Refrigeration System	Vapor Compression System with Automatic Defrost
Compressor / Number	1 hp Reciprocating Compressor / 1
Condenser Type/Number	Enhanced Finned-Tube and Forced-Air Cooled / 1
Expansion Device	Capillary Tube
Evaporator Type	Forced Air Evaporator Coil
Defrost Method	Automatic Defrost
Refrigerant Charge/Flammability	Non-Flammable, CFC/HCFC-Free Environmentally Safe Refrigerant Mixtures
	Controller/Electrical System Configuration and Features
Controller Level	Eye Level
Power Switch	Keyed Off-On - Alarm
Controller Type	Microprocessor-Based IntrLogic™ Control
Setpoint Security / Programmable	Standard / Standard
Compressor Safe Guard	High Pressure Cutout Switch/High Temp Cutout Switch/Current protection
Control Sensor	Stainless Steel Shielded RTD in Air
Remote Alarm Terminals	Standard
Door Open, Probe Failure Alarms	Standard
Adjustable Warm/Cold Alarms	Standard
Power Failure Alarm	Standard
Standard Electronic chart Recorder	Optional
	Dimensions and Construction
Interior Dimensions (H x D x W)	147.3 x 73.7 x 61.0 cm (58.0 x 29.0 x 24.0 in)
Exterior Dimensions (H x D x W)	201.2 x 94.5 x 71.1 cm (79.2 x 37.2 x 28.0 in)
Insulation	5.08 cm (2 in.) High Density HFC-blown Polyurethane Foam (R=42)
Door Perimeter heater	Electric
Shelves / Capacity	(4) Adjustable Wire Shelves. Max. Cap. per Shelf: 45 kg (100 lbs.)
All-Direction Casters	Standard with Two Locking and Two Regular
Ship Weight	Approximately 168 kg (370 lbs.)
1" Dia access port	Yes