



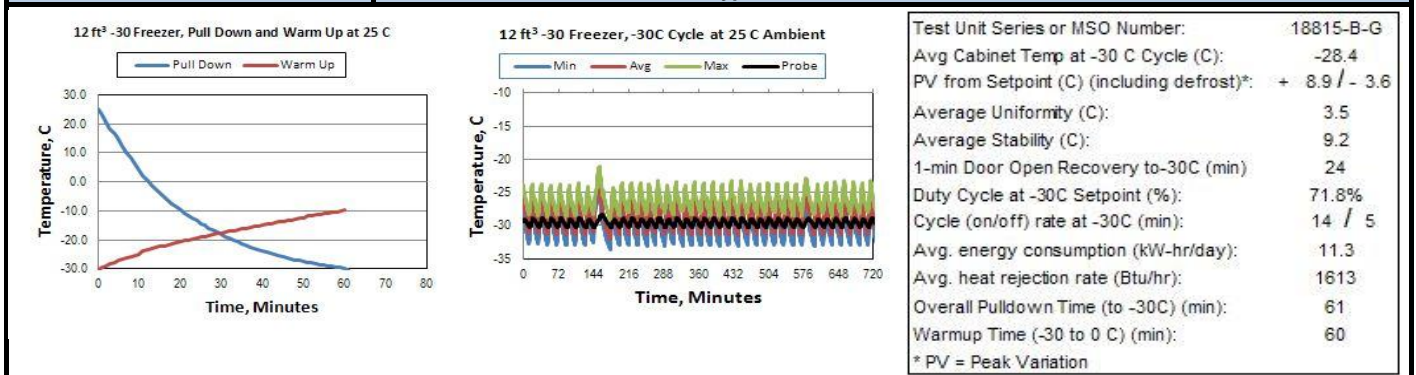
Technical Data Sheet

Thermal Scientific Laboratory Freezer

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Model Number
	1230A Automatic Defrost Laboratory Freezer
	Application, Rating and Electrical Data
Application	Storage of Laboratory Materials
Storage Volume	326 Liters / 11.5 Cubic Feet
Temperature Rating	-30°C @ 32°C (90°F) Ambient
Electrical Power	115 VAC, 60 hz, 1 Phase
Instrument Rated Current	8.0 FLA
Building Supply Rating	Breaker 15 Amps/115v±10 Volt while operating
Power Plug/Power Cord Length	5-15 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	1/2 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)	133.1 x 53.3 x 50.8 cm (52.4 x 21.0 x 20.0 in)
Exterior Dimensions (H x D x W)	186.9 x 76.2 x 61.0 cm (73.6 x 30.0 x 24.0 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 127 kg (280 lbs.)
1" Dia access port	Yes
	Typical Performance Characteristics



- 1) Performance is nominal and individual units may vary.
- 2) Freezer 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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