

Technical Data Sheet HERAFreeze Ultra-Low Temperature Freezer

Upright Model Release - 81

Thermo Fisher Scientific, Asheville, North Carolina

ENERGY STAR® MDEC

(Maximum Daily Energy Consumption)

0.47 kW-hr/day/cuft



Model Number

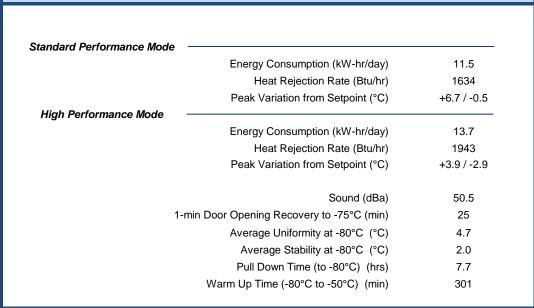
Thermo	Scientific	HERAfreeze	ΗΙ	E600864
111611110			1 1 1	- LUUUUU

I				
Application, Rating and Electrical Data				
Application	Storage of General (non-flammable) Laboratory Materials			
Storage Volume	28.8 cu. ft. (816 liters), 600 Standard 2" Boxes			
Temperature Rating	-50°C to -86°C			
Electrical Power	115V, 60 Hz, 1 Phase			
Instrument Rated Current	12.7 AMP			
Building Supply Rating	20.0A (min) dedicated grounded circuit			
Power Plug / Power Cord	NEMA 5-20 / IEC Cords, 10 ft (3.05 m)			
Agency Listings	UL, cUL			
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive			
Application Environment	Indoor Use Only, Ventilated 15 - 32°C (59 - 90°F)			

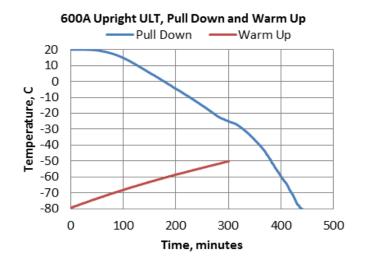
Dimensions and Construction					
Interior Dimensions (H x D x W)	51.2 x 28.3 x 34.4 in. (1300 x 719 x 874 mm)				
Exterior Dimensions (H x D x W)	78 x 39.3 x 39.6 in. (1981 x 998 x 1006 mm)				
Shipping Dimensions	83.12 x 42.75 x 47.48 in. (2111 x 1086 x 1206 mm)				
Shipping Weight / Net Weight	820 lbs. (372 kg) / 709 lbs. (322 kg)				
Insulation	Vacuum Insulation Panels with High-Density Water-Blown Polyurethane Foam				
Door Seal	Silicone-Based Gasket Seal with Electrical Door Perimeter Heater				
Shelves	4 Stainless Steel Adjustable Shelves in 1" (25mm) Increments				
Shelf Capacity	Max. Capacity per Shelf: 245 lbs. (110 kg)				
Interior / Exterior Material	Painted Steel (Stainless Steel Option) / Painted Steel				
All-Direction Casters	Standard with Locks				
Other Options	LN2 or CO2 Back Up System HID Controlled Access, Chart Recorder				

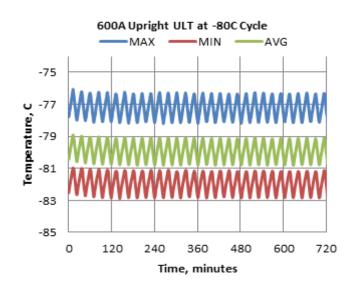
Electrical System Configuration				
Controller Level	Тор			
Power Switch	(Front) Soft-touch / (Rear) Main Circuit Breaker			
Controller Type	Capacitive Touch Screen Input and Display with USB Data Retrieval			
Setpoint Security	Yes			
Compressor Safe Guard	High Temp Cutout Switch, Current, Logic protection			
Control Sensor	Single RTD (1000 ohm Platinum RTD)			
Connectivity / Remote Outputs	Wi-Fi Enabled, RS485/4-20mA output			
Thermo Fisher Cloud	InstrumentConnect™ Remote Monitoring			
Adjustable Warm/Cold Alarms	Fully Adjustable			
Auto-Voltage Safeguard	Buck/Boost System			

Refrigeration Configuration				
Nemigeration Configuration				
Refrigeration System	Two Stage Cascade System			
Compressor/Number	Industrial Rated, Hermetically Sealed / 2			
Compressor Capacity*	509 W			
Condenser Type	Enhanced Micro-Channel and Forced-Air Cooled			
Expansion Device	Capillary Tube			
Evaporator Type	Enhanced Cold Wall Design			
Defrost Method	Manual Defrost			
Refrigerant (1st/2nd Stage)	R290 / R170+R290 Mix			
Environmental Effects	GWP: 3 (R290) / 6 (R170) ODP: 0 (R290); 0 (R170)			
Flammable	Yes			



Typical Performance Characteristics in 20 °C Ambient





¹⁾ Performance is nominal and individual units may vary.

Freezer performance will differ due to product amount, product size and operating conditions.

Treezer performance will differ due to product amount, product size and operating conditions.
 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.

^{*} Manufacturer measured compressor capacity taken at standard -35°C/45°C (Evap/Cond) condition.

^{© 2019} Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change.
Not all products are available in all countries. Please consult your local sales representative for details.