

ULT-Freezer Performance Data Sheet



Technical Specifications: CryoCube® F740hi - Air-Cooled (230 V)

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Intended use	> Cold storage of standard		
	laboratory materials		
	> Indoor use only, between 15 and		
	32 °C		
	> Altitude up to 2000 m		
	> Non-corrosive, non-flammable,		
	non-explosive environment		
Environmental conditions	> Good air ventilation required		
	> Maximum relative humidity 80 %		
	for temperatures up to 31 °C		
	> No mains/power supply voltage		
	fluctuations		
Electrical rating (1 phase)	230 V/50 Hz		
Current rating	6.0 A		
Agency listing	> WEEE		
	> ROHS		
	> REACH		
	> All components tested to CE		
	specifications		

Dimensions

Internal dimensions	1390 x 865 x 622 mm
(H x W x D)	(54.7 x 34.1 x 24.5 in)
External dimensions*	1973 x 1099 x 980 mm
$(H \times W \times D)$	(77.7 x 43.3 x 38.6 in)
External packaging	2225 x 1200 x 1045 mm
dimensions (H x W x D)	(87.6 x 47.2 x 41.1 in)
Net weight	315 kg (694 lbs) / 333 kg (734 lbs)
Shipping weight	364 kg (825 lbs) / 382 kg (842 lbs)

^{*}To allow for handles and hinges, add 80 mm to width.

Ca	pac	ity

Storage volume		740 L (26.1 ft ³)	
Number of compartments		3/5	
Racks per shelf		6	
Racks per freezer		18 / 30	
Box	50 mm (2 in) box 576 / 528		
capacity 75 mm (3 in) box		360 / 288	
100 mm (4 in) box		288 / 264	
Sample	50 mm (2 in) box	57,600 / 52,800	
capacity			
Temperature rating		-50 °C to -86 °C	

User Interface

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Alarms	Adjustable high/low temperature, power fail, battery low, filter clean, fault
Password protection (freezer settings)	Yes
Remote alarm port	Standard
RS-485 interface	Standard
Ethernet	Standard
Lock	Electronic / manual
Temperature control	Microprocessor
Cabinet control probe	PT 100

Refrigeration System Specifications

Ken igeration System Specifications		
Refrigeration system	2 stage cascade cooling system	
Compressors	Commercially available, heavy duty	
	compressors	
Defrost method	Manual	
Refrigerant charge	High stage: R290	
	Low stage: R170	
Condensing method	Air-cooled	
Expansion device	Capillary tubes	
Evaporator type	Cold wall	

Construction

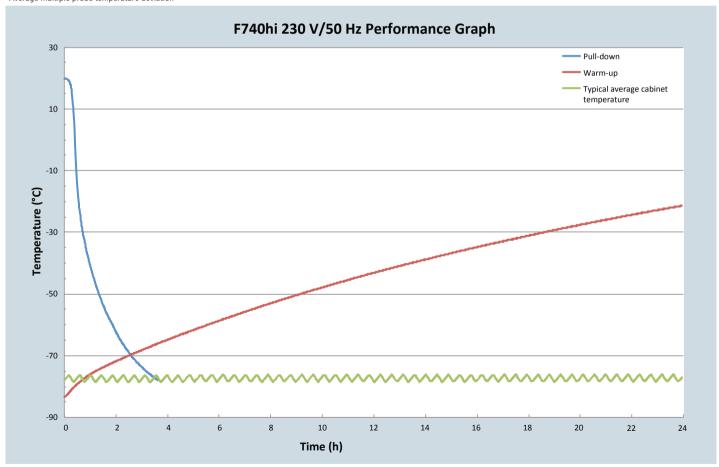
Interior	Stainless steel grade 304 2B	
Exterior	Powder-coated steel	
Insulation	Vacuum insulation panels and polyurethane foam	
Power switch	Secured	
Inner doors	Insulated and sealed	
Casters/level legs	Heavy duty (250 kg each)	



Typical Performance Characteristics at 20 °C +/- 1 (Ambient Temperature)

Pull down time	4 h 10 min			
(freezer empty, from ambient to -80 °C)				
Power consumption	10.5 kWh/day / 7.5 kWh/day			
(freezer set to -80 °C/-70 °C)				
Cabinet uniformity ¹	+4.9 °C/-0.0 °C			
(freezer set to -80 °C)				
Max. heat output	438 W/ 313 W (1494 BTU/h / 1068 BTU/h)			
(freezer set to -80 °C/-70 °C)				
Warm up time	45 h			
(freezer 2/3 full, from -85 °C to 0 °C)				
Noise level (at -80 °C)	41.3 dB			
Door open recovery	120 s	60 s	30 s	15 s
(freezer set to -80 °C)	41 min	27 min	25 min	18 min
Duty cycle (on/off)	13/12 min			
Electric/mains	6.0 A			

¹Average multiple probe temperature deviation



Technical specifications subject to change

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