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Technical Data Sheet High-Performance, Medical-grade Freezer

Model: HLF105-GX, Horizon Series Laboratory / Undercounter

Application, Rating, & Electrical Data		
Application	High-performance storage of medical and scientific products	
Storage Volume	5.3 cu ft (150 L)	
Temperature Range	-15° to -30°C	
Set-Point	-30°C	
Electrical Power	115V 60Hz 220-240V 50/60Hz	
Maximum Current	4.1A 2.0A	
Facility Supply Rating	Branch circuit with earth ground, meeting plug/cord ratings as well as local electrical safety codes and requirements 1 110-120V AC: 15 A (minimum) 220-240V AC: 10 A (minimum)	
Power Plug/Power Cord Length	NEMA 5-15 hospital-grade 115V 60Hz, 8 to 10 ft (2.4-3.0m) Inquire about additional plug/cord options	
Certification/Agency Listing	QPS (Certified to UL and CSA Standards) IEC/UL61010-2-011: 2016 IEC 61010-1:2010, AMD1:2016	
ADA Compliant	Yes, fits under standard ADA compliant countertop	
Indoor/Outdoor Use	Indoor use only, non-residential	
Application Environment	Non-corrosive, non-flammable, non-explosive	
Ambient Operating Temperature	+15°C to +32°C +59°F to +90°F	
Refrigeration		
Refrigeration System	VCC compressor-based, forced-air hydrocarbon	
Compressor	Hermetic, variable speed (VCC). Rated speed range: 1600-4000 rpm	
Condenser Type	Air-cooled fin and tube, sealed	
Expansion Device	Cap tube	
Evaporator Type	Direct expansion with forced-air fin and tube	
Defrost Method	Automatic	
Refrigerant	R290 , Propane, EPA SNAP compliant	
Controller / Configuration Settings		
User Interface	LED digital display, °C or °F	
Power Switch	On/Off	
Controller Type	Microprocessor with alarm/monitor	
Security	Lockable door, PIN access via optional access control	
Control Sensor	RTD, stainless steel	
Communication Port	Remote alarm contacts	
Power Failure Alarm	Yes	
High/Low Alarms	Yes, fully adjustable	
Door Ajar Alarm	Yes	
Min/Max Temperature	Yes, display and reset	
Temperature Monitoring	Yes, 4 oz bottle with screw cap	
Battery Back-up	Yes, 9 volt, non-rechargeable, lithium	

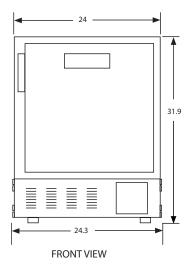
Uniformity °C	+/-2.0
Recovery to -29.5°C after 1 min door opening min	23
Stability °C	8.1
Energy consumption kWh/day	4.82
Noise emission dB	46
Heat rejection BTU/hr	1701
Pull-down time to -30°C min	70

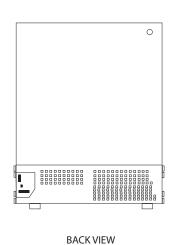
All performance data from 5 cu ft freezer, 25°C ambient, -30.0°C

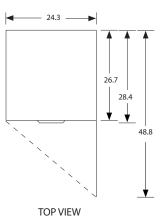


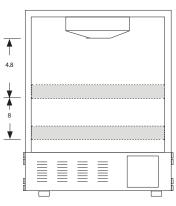
Dimensions and Construction		
Interior (w x h x d)	19.5 x 19.9 x 22.8 in 496 x 505 x 580 mm	
Exterior (w x h x d)	24 x 31.5 x 26.7 in 610 x 798 x 678 mm *Add 2.5" to the height if choosing optional casters.	
Overall Exterior (w x h x d)	24.3 x 31.9 x 28.4 in 617 x 809 x 721 mm *Add 0.3" to width if choosing optional access control *Includes leveling feet, door handle, user interface, and access panels.	
Insulation	Sustainable, US EPA, and SNAP approved foam	
Exterior/Interior Finish	Bacteria-resistant powder-coating	
Door	Solid, field-reversible	
Access Port	Rear Access Port- for external monitoring probe(s) (0.75 in 19 mm diameter)	
Interior Storage (w x d)	2 ventilated, powder coated shelves, adjustable 17.9 x 21.3 in 454 x 541mm, 100 lb 46 kg max capacity/shelf	
Leveling Feet	Yes, adjustable	
Integrated Access Control	Optional - electromagnetic-lock with PIN entry via keypad	
Net Weight	179 lb 82 kg	
Shipping Weight	240 lb 110 kg	
Clearance Requirements	Minimum 3" (76 mm) behind unit for for plug/cord and feature access Front ventilation eliminates the need for top or side clearance	
Options Accessories	Integrated access control, Stainless steel exterior/interior, Chart recorder, Chart paper, Swivel/ Locking casters, Remote alarms, Remote lock adapter kit, Floor and Wall bracket kit, Stacking kit, Pedestal, Ventilated drawer, Storage trays, Left-hinge door, Certificate of Calibration, Temperature validation, Validation guide (IQ/OQ), Extended warranty	
Warranty	Rel.i™ Warranty- 3 years compressor, 2 years parts, 1 year labor Outside US and Canada- Contact your distributor for warranty information	











INTERIOR VERTICAL SPACING



