



SPEC SHEET

-86 C Ultra-Low Temp Lab Medical Freezer with Dual Inverter Compressor, Lock and Touch Screen, 25 Cu. Ft.

Model: KM-PHF-25CUL

FEATURES

- **Ultra-Low Temperature Range (-40°C to -86°C):** Engineered for laboratory, pharmaceutical, and research environments requiring stable, long-term ultra-low temperature storage.
- **Dual Cooling System:** Two independent inverter compressors for efficiency, uniform cooling, faster pull-down, and redundancy.
- **25 Cu. Ft. Capacity with 304 Stainless-Steel Interior:** Durable, corrosion-resistant interior built for demanding lab environments.
- **Precision Microprocessor Control ($\pm 0.1^\circ\text{C}$):** Maintains accurate setpoints with minimal fluctuation.
- **10.1-Inch Touchscreen Display:** Real-time monitoring, alarm management, and system control in one interface.
- **Advanced Alarm & Safety System:** Alerts for temperature deviations, door ajar, sensor failure, power loss, and more.
- **Multi-Door Design to Reduce Temperature Fluctuation:** One outer door with four inner compartment doors limits cold air loss during access.
- **Integrated Data Logging with USB Export:** Automatic temperature recording for compliance and documentation.
- **Backup Battery for Alarms & Logging:** Supports alarms and data recording up to 17 hours during power outages.
- **UL & Energy Star Certified:** Certified for safety and energy efficiency; backed by a 1-year warranty.



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Technical Specs

Dimensions & Weight

| | |
|---------------------------------|-----------|
| Length | 39.98 in. |
| Width | 39.98 in. |
| Height | 77.36 in. |
| Weight | 705 lbs. |
| Interior Depth | 28.35 in. |
| Interior Width | 29.13 in. |
| Interior Height | 51.57 in. |
| Shelf Depth | 28.25 in. |
| Shelf Width | 29 in. |
| Depth Excluding Handles | 39.17 in. |
| Depth Including Handles | 39.17 in. |
| Depth Less Door | 34.54 in. |
| Depth With Door Open 90 Degrees | 74.8 in. |
| Height to Top of Door Hinge | 77.95 in. |
| Minimum Back Air Clearance | 12 in. |
| Minimum Side Air Clearance | 12 in. |

Electric & Certifications

| | |
|------------------------------|-------------------------|
| Voltage | 100 |
| Wattage | 1250 |
| Hertz | 60 |
| Amps | 14 |
| Phase | 1 |
| Plug Type | NEMA 5-20P |
| Power Cord Length | 66.94 in. |
| Power Cord Included | Yes |
| Electrical Installation Type | Plug-in |
| Power Failure Alarm | Yes |
| Energy Consumption | 2595.15 kWh/year |
| Certification | UL Certified For Safety |

Capacity

| | |
|---------------------------|-----|
| Net Cubic Feet | 25 |
| Number Of Shelves | 3 |
| Individual Shelf Capacity | 165 |

Features & Materials

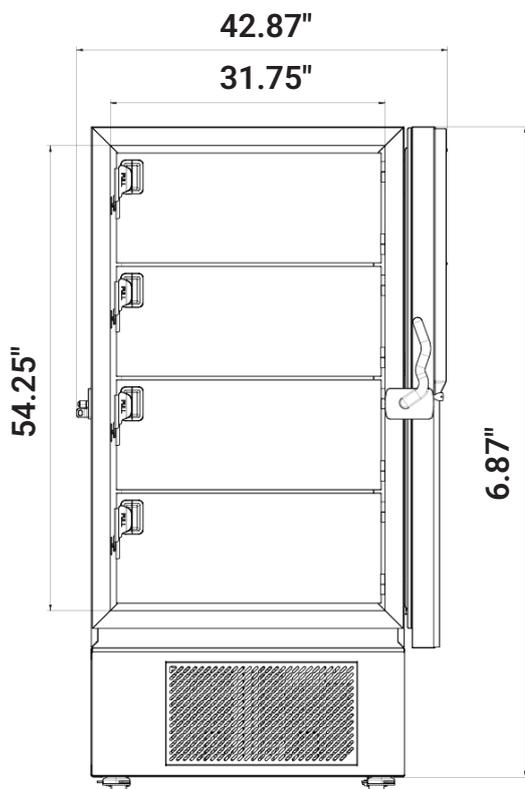
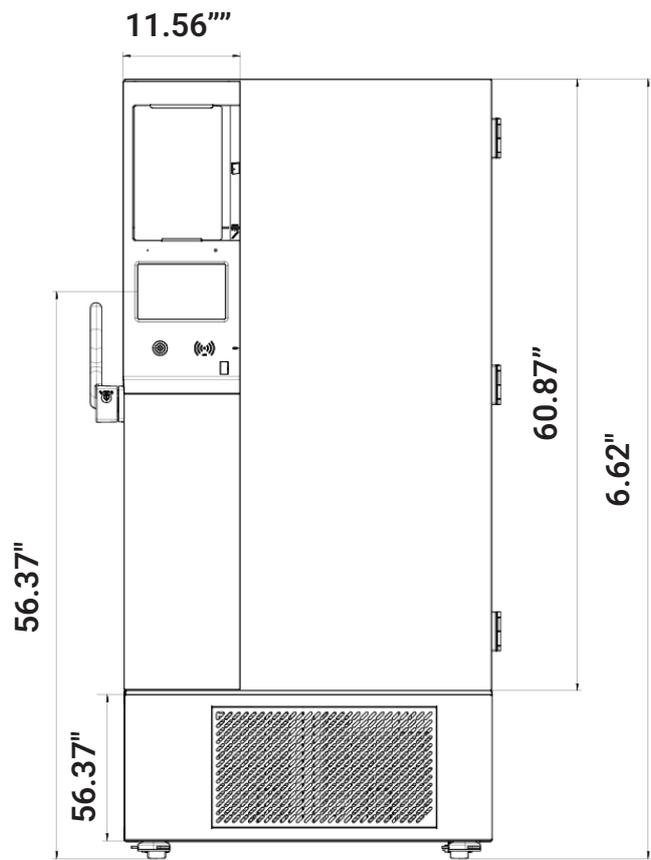
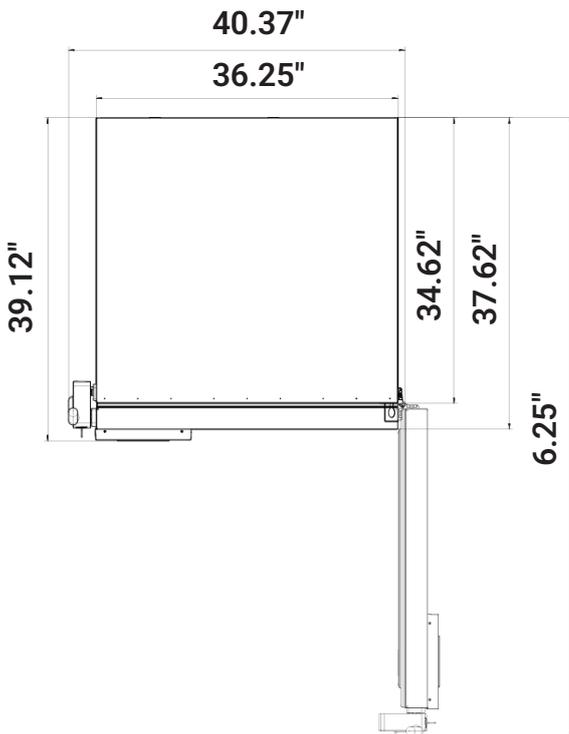
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|-----------------------------|--------------------------------|
| Temperature Range | -40°C to -86°C |
| Ambient Temperature Range | 10–32°C |
| Temperature Control Type | Microprocessor |
| Defrost Type | Manual |
| Refrigerant Type | R600a/60g, R170/15g, R1150/20g |
| Cooling Type | Direct Cooling |
| Horsepower | 1/per Compressor |
| Number of Doors | 1 |
| Door Style | Swing |
| Number of Compartments | 4 |
| Shelf Material Type | Stainless Steel 304 |
| Color | White and Black |
| Handle Color | Black |
| Interior Lighting | No |
| Backup Battery Hours | 17 |
| Backup Battery Type | Lithium |
| Backup Battery Replaceable | Yes |
| Backup Battery Rechargeable | Yes |
| Backup Battery Voltage | 10.8V |
| Backup Battery Capacity | 6.7 Ah |
| Safety Lock | Yes |
| Low Temp Alarm | Yes |
| High Temp Alarm | Yes |
| Ambient Temp Alarm | Yes |
| Power Failure Alarm | Yes |
| Sensor Failure Alarm | Yes |
| Door Ajar Alarm | Yes |
| Remote Alarm | Yes |
| Digital LED Display | Yes |
| Data Logging | Yes |

Technical Specs

Features & Materials

| | |
|-----------------------|--------|
| USB Port | Yes |
| Sensor Count | 7 |
| Build In Air Duct | No |
| Casters | No |
| Noise | 46 dB |
| Compressor Location | Bottom |
| Number of Compressors | 2 |

Plan View



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