

ULTRA-LOW TEMPERATURE FREEZER BENEFIT LINEUP



FrostLess

VIP ECO

VIP ECO SMART

TwinGuard

Reliable performance from -40°C to -86°C

Our -86°C ultra-low temperature (ULT) freezers are engineered from the inside out to create, maintain, and restore precise temperatures. PHCbi brand ULTs harness decades of innovation to bring performance, reliability, and energy efficiency. Compare key benefits between our leading ULT lines to select the best models for your specific requirements.

Benefits that meet the highest standards

PHCbi brand ultra low freezers are tested to ensure high performance, uniformity, energy efficiency, and reliability.



| BENEFITS | | | MDF-DU700ZH-PE | MDF-DU702VH-PE | MDF-DU703VH-PE | MDF-DU702VX-PE |
|----------|--|------------|----------------|----------------|----------------|----------------|
| | High Performance and Reliability - Newly Inverter Compressors | | ✓ | | ✓ | |
| | High Performance and Reliability - Inverter Compressors | | | ✓ | | |
| | Environmental Friendly & Energy Savings - Natural Hydrocarbon Refrigerants | | ✓ | ✓ | ✓ | |
| | Reduction on frost built-up on inner doors | | ✓ | | | |
| | Improved Sample Security - Dual Cooling technology | | | | | ✓ |
| | Samples Safety - SMART Control | | | | ✓ | |
| | Automatic Vacuum Relief | | | ✓ | ✓ | ✓ |
| | Filterless Design | | | | | ✓ |
| | Compact Footprint - VIP Insulation Cabinet | | ✓ | ✓ | ✓ | ✓ |
| | Improved Usability - USB Log Download, Touchscreen and EZlatch | | ✓ | ✓ | ✓ | ✓ |
| | STORAGE SOLUTIONS (RACKS) | 2" Boxes | 528 | 576 | 576 | 576 |
| | | 3" Boxes | 336 | 384 | 384 | 384 |
| | ENERGY CONSUMPTION KWh/Day, AT: 23°C / Unloaded 230V / 50 Hz | -80 °C | 6.9 | 7.7 | 5.4 | 15+ |
| | | -70 °C | 6.1 | 5.6 | 4.4 | 11+ |
| | INTERIOR UNIFORMITY Average Steady State | -80 °C | ±3 °C | ±3 °C | ±2 °C | ±3 °C |
| | | -70 °C | ±3 °C | ±3 °C | ±2 °C | ±3 °C |
| | OUTPUT, NOMINAL | Kcal/H | 362 | 469 | 305 | 1040 |
| | Frost Mitigation (Heated By Refrigeration System) | Door Frame | ✓ | ✓ | ✓ | ✓ |
| | | Center Bar | ✓ | | | |
| | PULL DOWN TIME Unloaded conditions / AT: 30°C | -80 °C | 370 min | 360 min | 360 min | 360 min |

PHC Europe

A Member of PHC Group

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