

COVID-19 Vaccine Development is Evolving

## PHCbi Has The Cold Chain Storage You Need



New vaccines are emerging in response to the COVID-19 pandemic. Early evidence suggests novel vaccine storage temperatures may require a wider range of the cold chain spectrum. Some vaccines may require multiple temperature storage points prior to administration. Are you prepared for emerging COVID-19 vaccine storage? PHCbi brand products can help.<sup>i</sup>

PHCbi Pharmaceutical  
Refrigerators and Freezers

PHCbi brand pharmaceutical refrigerators and biomedical freezers offer a comprehensive selection of storage solutions for high-value vaccines and other biologics. These cabinets are based on high performance refrigeration platforms engineered for reliability, temperature uniformity, fast temperature recovery and tolerance for real-world conditions.

Learn more about [PHCbi refrigerators](#) and [freezer lineup](#) at ESBE Scientific.

<sup>i</sup> Proposed vaccine storage temperatures are based on initial data from various sources in the public domain at time of publication. Actual storage temperatures will be approved by the FDA and regulated by the CDC. Government agencies and individual vaccine manufacturers will mandate required product storage temperatures.

PHCbi pharmaceutical refrigerators and freezers satisfy any storage protocol or space requirement. Robust refrigeration systems and cabinet designs assure temperature uniformity, reliability and energy efficiency. All are engineered to maintain required temperatures for product viability and to achieve rapid temperature recovery after multiple door openings.

Diagram illustrating various sizes of storage lockers with their capacities in cubic feet (cu. ft.):

- 3.0 cu. ft.
- 18.6 cu. ft.
- 25.7 cu. ft.
- 25.7 cu. ft.
- 29.8 cu. ft.
- 12.7 cu. ft.
- 18.6 cu. ft.
- 25.7 cu. ft.
- 25.3 cu. ft.

16.9 cu.ft.

25.7 cu.ft.

Four diagrams of different cabinet configurations are shown, each with its storage capacity listed below it:

- Diagram 1: A single cabinet with two drawers at the bottom and a large open compartment above. Capacity: 6.2 cu. ft.
- Diagram 2: A cabinet with two drawers at the bottom, two smaller open compartments above them, and a large open compartment at the top. Capacity: 11.5 cu. ft.
- Diagram 3: A cabinet with two drawers at the bottom, two smaller open compartments above them, and a large open compartment at the top. Capacity: 11.5 cu. ft.
- Diagram 4: A cabinet with two drawers at the bottom, two smaller open compartments above them, and a large open compartment at the top. Capacity: 14.7 cu. ft.

2.7 cu ft      5.7 cu ft      12.2 cu ft      17.3 cu ft      36.5 cu ft      24.3 cu ft      48.2 cu ft

**Specifications are subject to change without notice.**  
For latest specification information contact PHC Corporation  
of North America at [info@us.phcd.com](mailto:info@us.phcd.com).

- PAN-MDFC8V1PA
- PAN-MDFDU702VHAPA
- PAN-MDFDU302VXPA
- PAN-MDFDU502VHAPA
- PAN-MDFU76VAPA
- PAN-MDFDU502VXCPC
- PAN-MDFDU502VHAPA
- PAN-MDFU76VCPA
- PAN-MDFDU702VXCPC
- PAN-MDFDU702VHAPA
- PAN-MDFDU901VHAPA
- PAN-MDFDC700VXCPC

- PAN-MDFMU549DHLPA
- PAN-MDFDU702VHPA, -40° to -80°

- PAN-MDFMU339HLP
- PAN-MDFU731PA
- PAN-MDFMU539HLP
- PAN-MDFU731MPA

- PAN-MPR215FPA
- PAN-MPRN450FHSA
- PAN-MPRN450FHSA
- PAN-MPR715FPA

- PAN-TSU4RWN6
- PAN-MPRS300HPA
- PAN-MPR514PA
- PAN-MPR514RPA
- PAN-MPR1014PA
- PAN-MPR1014RPA
- PAN-MPR722PA
- PAN-MPR722RPA
- PAN-MPR1412PA
- PAN-MPR1412RPA

Contact your local ESBE Representative for more information.



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We have earned ENERGY STAR certification for a selection of high performance biomedical refrigerators and freezers that operate over a temperature range of 10°C to -40°C. ENERGY STAR products are third-party certified based on testing in EPA-recognized laboratories. For the latest information on our ENERGY STAR products visit [www.phchd.com/us/biomedical/energy-star](http://www.phchd.com/us/biomedical/energy-star).



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