



## CDC Mandated lab equipment for PCR Detection of 2019-Novel Coronavirus

Effective February 04, 2020, The Centers for Disease Control and Prevention, Respiratory Viruses Branch, Division of Viral Diseases published *Instructions for Use of RealTime RT PCR Panel for Detection of 2019-Novel Coronavirus*. This document describes the use of rRT-PCR assays for the *in vitro* qualitative detection of the 2019-Novel Coronavirus (2019-nCoV) in respiratory specimens and sera. This document also defines requirements for **BIO SAFETY PRECAUTIONS** for specimen processing and specimen **STORAGE REQUIREMENTS**.

**PHC CORPORATION OF NORTH AMERICA MAINTAINS A ROBUST INVENTORY OF LABORATORY PRODUCTS DESIGNED TO COMPLY WITH BIO SAFETY PRECAUTIONS AND STORAGE REQUIREMENTS IN OUR USA FACILITY.**

The products below conform to CDC mandates are in stock and available for immediate shipment.

[Click here for more information on requirements outlined in Instructions for Use.](#)

### Storage Requirements

The CDC mandates the specimens can be stored at 4°C for up to 72 hours after collection. If a delay in extracted is expected, storage is required at -70°C or lower. Extracted nucleic acids should be stored at -70°C or lower. The Instructions for Use call out for use 4°C refrigerator and non-frost-free freezers specified to -20°C and -70°C

- Residual specimen and nucleic acid extract stored at -70°C
- rRT-PCR aliquot primers/probe stored at 2-8°C in the dark
- Remaining aliquots stored at -20°C in a non-frost-free freezer

### Ultra-Low Temperature Storage Freezers

PHCbi brand -80°C ultra-low temperature freezers are designed to comply with CDC recommendations and other mandates for storage of viral specimens, extracted RNA and cDNA, and other diagnostic outcomes needed for current for future research.

- Cabinet orientations and sizes are consistent with typical industry dimensions to enable quick, easy installation for new or replacement use.
- VIP® Series feature LED displays
- VIP ECO Series feature natural eco-friendly refrigerants, low energy draw, and touch-panel control
- TwinGuard™ Series have redundant refrigeration systems for added confidence
- PHCbi performance record for reliability, fast temperature recovery and long-term stability is documented by years of successful deployment in labs around the world

PHCbi #	Product	Volume	Temp. Range	Description	More Info
MDF-DU502VH-PA	VIP ECO	18.6 cu.ft.	-50°C to -86°C	220V, ENERGY STAR	<a href="#">Learn More</a>
MDF-DU502VHA-PA	VIP ECO	18.6 cu.ft.	-50°C to -86°C	115V, ENERGY STAR	<a href="#">Learn More</a>
MDF-DU702VH-PA	VIP ECO	25.7 cu.ft.	-50°C to -86°C	220V, ENERGY STAR	<a href="#">Learn More</a>
MDF-DU702VHA-PA	VIP ECO	25.7 cu.ft.	-50°C to -86°C	115V, ENERGY STAR	<a href="#">Learn More</a>
MDF-DU901VHA-PA	VIP ECO	29.8 cu.ft.	-50°C to -86°C	115V, ENERGY STAR	<a href="#">Learn More</a>
MDF-DU302VX-PA	TwinGuard	12.7 cu.ft.	-50°C to -86°C	220V, Upright Dual Refrigeration	<a href="#">Learn More</a>
MDF-DU502VXC-PA	TwinGuard	18.6 cu.ft.	-50°C to -86°C	220V, Upright Dual Refrigeration	<a href="#">Learn More</a>
MDF-DU702VXC-PA	TwinGuard	25.7 cu.ft.	-50°C to -86°C	220V, Upright Dual Refrigeration	<a href="#">Learn More</a>
MDF-DC700VXC-PA	TwinGuard	25.3 cu.ft.	-50°C to -86°C	220V, Chest Dual Refrigeration	<a href="#">Learn More</a>
MDF-U76VA-PA	VIP Series	25.7 cu.ft.	-50°C to -86°C	115V, Upright Freezer	<a href="#">Learn More</a>
MDF-U76VC-PA	VIP Series	25.7 cu.ft.	-50°C to -86°C	220V, Upright Freezer	<a href="#">Learn More</a>
MDF-C8V1-PA	VIP Series	3.0 cu.ft.	-60°C to -80°C	220V, Chest Freezer	<a href="#">Learn More</a>

## High Performance Refrigerators and Biomedical Freezers

PHCbi brand laboratory refrigerators and biomedical freezers are specifically engineered and temperature mapped to assure fast recovery after door openings, internal temperature uniformity and stable storage of short-term storage of specimens, aliquots and primers.

PHCbi #	Product	Volume	Temp. Range	Description	More Info
MPR-722-PA	Pharmacy Refrigerator	24.2 cu.ft.	+2°C to +23°C	Wire Shelves	<a href="#">Learn More</a>
MPR-722R-PA	Pharmacy Refrigerator	23.7 cu.ft.	+2°C to +23°C	Pull-Out Drawers	<a href="#">Learn More</a>
MPR-514-PA	Vaccine Refrigerator	17.3 cu.ft.	+2°C to +14°C	Wire Shelves, ENERGY STAR	<a href="#">Learn More</a>
MPR-514R-PA	Vaccine Refrigerator	17.2 cu.ft.	+2°C to +14°C	Wire Shelves, ENERGY STAR	<a href="#">Learn More</a>
MPR-1014-PA	Vaccine Refrigerator	36.4 cu.ft.	+2°C to +14°C	Wire Shelves, ENERGY STAR	<a href="#">Learn More</a>
MDF-MU339HL-PA	-30°C ECO Freezer	13.0 cu.ft.	-20°C to -30°C	Manual Defrost	<a href="#">Learn More</a>
MDF-MU539HL-PA	-30°C ECO Freezer	17.8 cu.ft.	-20°C to -30°C	Manual Defrost	<a href="#">Learn More</a>
MDF-U731-PA	-30°C Biomedical Freezer	22.0 cu.ft.	-15°C to -30°C	Manual Defrost, ENERGY STAR	<a href="#">Learn More</a>
MDF-U731M-PA	-30°C Biomedical Freezer	24.4 cu.ft.	-18°C to -30°C	Manual Defrost, ENERGY STAR	<a href="#">Learn More</a>
MPR-215F-PA	Combo Refrigerator/Freezer	6.2 cu.ft. Ref 1.4 cu.ft. Frz	+2°C to +14°C Ref -20°C to -30°C Frz	Wire Shelves	<a href="#">Learn More</a>
MPR-N450FSH-PA	Combo Refrigerator/Freezer	11.5 cu.ft. Ref 4.8 cu.ft. Frz	+2°C to +14°C Ref -20°C to -30°C Frz	Glass Shelves, Solid Door	<a href="#">Learn More</a>
MPR-715F-PA	Combo Refrigerator/Freezer	14.7 cu.ft. Ref 6.2 cu.ft. Frz	+2°C to +14°C Ref -20°C to -30°C Frz	Wire Shelves	<a href="#">Learn More</a>

## CO<sub>2</sub> and Multi-gas CO<sub>2</sub>/O<sub>2</sub> Incubators for ongoing Vaccine Research

PHCbi brand laboratory and cell culture incubators have been developed to maintain a contaminant-free controlled environment essential for healthy high-yield cell culture growth. Precise temperature, humidity and pH is managed by intuitive microprocessor controllers.

- For specialized protocols, our Multi-gas CO<sub>2</sub>/O<sub>2</sub> model provides the ability to establish the most accurate *in vitro* models of the *in vivo* condition
- All incubators include inCusaFe® copper-enriched stainless steel germicidal interior surfaces
- High-heat and H<sub>2</sub>O<sub>2</sub> decontamination methods are available for complete, rapid decontamination

PHCbi #	Product	Volume	Description	More Info
MCO-170ACL-PA	CytoGrow CO <sub>2</sub>	5.8 cu.ft.	Thermal Conductivity CO <sub>2</sub> Control	<a href="#">Learn More</a>
MCO-170AICUVDL-PA	High Heat Sterilization CO <sub>2</sub>	5.8 cu.ft.	Infrared CO <sub>2</sub> Control, High Heat Decontamination	<a href="#">Learn More</a>
MCO-170AICUVL-PA	Cell-IQ CO <sub>2</sub>	5.8 cu.ft.	Infrared CO <sub>2</sub> Control, Optional H <sub>2</sub> O <sub>2</sub> Decontamination	<a href="#">Learn More</a>
MCO-170AICUVHL-PA	Cell-IQ CO <sub>2</sub>	5.8 cu.ft.	Infrared CO <sub>2</sub> Control, H <sub>2</sub> O <sub>2</sub> Decontamination	<a href="#">Learn More</a>
MCO-230AICUVL-PA	Cell-IQ CO <sub>2</sub>	8.1 cu.ft.	Infrared CO <sub>2</sub> Control	<a href="#">Learn More</a>
MCO-170MP-PA	Cell-IQ CO <sub>2</sub> /O <sub>2</sub>	5.7 cu.ft.	Infrared CO <sub>2</sub> Control, Zirconia O <sub>2</sub> Control	<a href="#">Learn More</a>