

**THE ENERGY STAR®
COLLECTION**

Ultra-Low Temperature Freezers
Laboratory Refrigerators
Laboratory Freezers



For more than fifty years, the companies that preceded PHC Corporation of North America, including SANYO Biomedical and Panasonic Healthcare, have sustained a commitment to innovation and service to the life science community. Today, we continue that commitment by offering products designed for high performance and dependability marketed as the PHCbi brand.

All products in the ENERGY STAR collection are independently tested for temperature control, uniformity, door open recovery, HVAC impact and energy use in real-world conditions.

All ultra-low temperature freezer energy usage below is per cubic foot. For other products the usage is for the entire unit.



Ultra-Low Temperature Freezers

High Performance Freezers

High Performance Refrigerators

ABOUT ENERGY STAR

ENERGY STAR is the simple choice for energy efficiency. For nearly 25 years, people across America have looked to EPA's ENERGY STAR program for guidance on saving energy, saving money, and protecting the environment.

Behind each blue label is a product, building, or home that is independently certified to use less energy and cause fewer of the emissions that contribute to climate change. Join the millions already making a difference at energystar.gov.

For more information about ENERGY STAR, visit www.energystar.gov.

GLOBAL INITIATIVES

Our commitment to the ENERGY STAR evaluation processes underscores a value added service to the global scientific and laboratory research community.

- Maintains the highest level of collaboration in support of ENERGY STAR
- Assures new high performance refrigerators, freezers and ultra-low temperature freezers are designed to meet ENERGY STAR criteria

INDEPENDENT TESTING AND PROTOCOL

We use independent testing facilities licensed and certified for testing to the ENERGY STAR criteria to validate our laboratory equipment.

ENERGY STAR protocols, widely used in consumer product evaluations, are now being extended to the scientific community where product comparisons have rarely been independently tested for comparative evaluation. As a result, our customers now benefit from verifiable refrigerated product performance metrics.



ADDITIONAL INFORMATION

Our ultra-low temperature freezers and high performance biomedical refrigerators and freezers with ENERGY STAR certification are listed on the United States of America Environmental Protection Agency website.

Visit [ENERGY STAR Certified Ultra-Low Temperature Freezers and Lab Grade Refrigerators and Freezers at www.energystar.gov/productfinder/product/certified-lab-grade-refrigeration/results](https://www.energystar.gov/productfinder/product/certified-lab-grade-refrigeration/results).

ENERGY STAR® Certified Ultra-Low Temperature Freezers and High Performance Biomedical Refrigerators and Freezers



Models (left to right):
MDF-DU703VH-PA, MDF-U731-PA, TSU-4RW-N6*,
and MPR-722-PA. Additional models available.
Visit www.phchd.com/us/biomedical/energy-star.

VIP ECO Ultra-Low Temperature Freezers

PHCbi Model	Specifications	Description	Energy Consumption kWh/day
MDF-DU503VH-PA	18.6 cu.ft. -40°C to -86°C 220V	Upright, 4 Compartments, All Natural Refrigerants	0.27
MDF-DU503VHA-PA	18.6 cu.ft. -40°C to -86°C 115V	Upright, 4 Compartments, All Natural Refrigerants	0.27
MDF-DU502VH-PA	18.6 cu.ft. -40°C to -86°C 220V	Upright, 4 Compartments, All Natural Refrigerants	0.35
MDF-DU502VHA-PA	18.6 cu.ft. -40°C to -86°C 115V	Upright, 4 Compartments, All Natural Refrigerants	0.37
MDF-DU703VH-PA	25.7 cu.ft. -40°C to -86°C 220V	Upright, 4 Compartments, All Natural Refrigerants	0.21
MDF-DU703VHA-PA	25.7 cu.ft. -50°C to -86°C 115V	Upright, 4 Compartments, All Natural Refrigerants	0.21
MDF-DU702VH-PA	25.7 cu.ft. -40°C to -86°C 220V	Upright, 4 Compartments, All Natural Refrigerants	0.31
MDF-DU702VHA-PA	25.7 cu.ft. -50°C to -86°C 115V	Upright, 4 Compartments, All Natural Refrigerants	0.29
MDF-DU901VHA-PA	29.8 cu.ft. -50°C to -86°C 115V	Upright, 4 Compartments, All Natural Refrigerants	0.30

High Performance Freezers

PHCbi Model	Specifications	Description	Energy Consumption kWh/day
PF-L5181W-PA	5.0 cu.ft. -15°C to -25°C 115V	Undercounter Solid Swing Door, Manual Defrost	0.66
MDF-MU339HL-PA	13.0 cu.ft. -20°C to -30°C 115V	Solid Single Swing Door, Manual Defrost	2.03
MDF-U731-PA	22.0 cu.ft. -15°C to -30°C 115V	Solid Single Swing Door, Shelves, Auto Defrost	6.55
MDF-U731M-PA	24.4 cu.ft. -18°C to -30°C 115V	Solid Single Swing Door, Shelves, Manual Defrost	2.89

High Performance Refrigerators

PHCbi Model	Specifications	Description	Energy Consumption kWh/day
TSU-4RW-N6*	3.0 cu.ft. +2°C to +8°C 115V	Undercounter Glass Door	1.40
PR-L5181W-PA	5.0 cu.ft. +2°C to +8°C 115V	Undercounter Solid Swing Door, Cycle Defrost System	0.31
PR-L5181GW-PA	5.0 cu.ft. +2°C to +8°C 115V	Undercounter Glass Swing Door, Cycle Defrost System	0.42
MPR-S300H-PA	12.2 cu.ft. +2°C to +14°C 115V	Sliding Door, Wire Shelves, Auto Defrost	1.49
MPR-S500RH-PA	19.4 cu.ft. +2°C to +14°C 115V	Sliding Door, Wire Shelves, Sliding Drawer Racks, Cycle Defrost System	1.35
MPR-S500H-PA	19.5 cu.ft. +2°C to +14°C 115V	Sliding Door, Wire Shelves, Cycle Defrost System	1.35
MPR-722R-PA	23.7 cu.ft. +2°C to +23°C 115V	Single Swing Door, Combination Wire Shelves and Slide-Out Drawers	7.19
MPR-722-PA	24.2 cu.ft. +2°C to 23°C 115V	Single Swing Door, Wire Shelves	7.19
MPR-1014R-PA	36.3 cu.ft. +2°C to +14°C 115V	Sliding Glass Doors, Combination Wire Shelves and Slide-Out Drawers	9.46
MPR-1014-PA	36.5 cu.ft. +2°C to +14°C 115V	Sliding Glass Doors, Shelves	9.46
MPR-1412R-PA	48.0 cu.ft. +2°C to +14°C 115V	Double Swing Doors, Solid Slide-Out Drawers	10.77
MPR-1412-PA	48.2 cu.ft. +2°C to +14°C 115V	Double Swing Doors, Wire Shelves	10.77



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*TSU4RWN6 | TSU-4RW-N6 is manufactured by Turbo Air Inc. and distributed by PHC Corporation of North America.

Specifications are subject to change without notice.
Performance data herein is based on independent testing at time of publication.

"ENERGY STAR" is a registered trademark of the Environmental Protection Agency.