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Umsatzsteuer-  
Identifikationsnummer  
:  
DE 143 450 657



## PHC VIP Eco Freezer ultra-low freezer, -86°C, 729 liters

**Price on  
request  
plus VAT &  
Shipping**

### Product Images



## Description

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**The VIP ECO ultra-low temperature freezers** are specially manufactured for efficient and environmentally conscious sample storage, maximizing storage capacity and small footprint. The VIP ECO units have low waste heat and feature low operating costs. The large LCD touch screen allows easy operation, with a comprehensive alarm system and self-diagnostic functions.

Optionally, the VIP ECO freezers can be equipped with **HYBRID water cooling**. The PHCbi HYBRID-Solution not only enables further energy savings, but also flexible air- or water-cooled and, most importantly, uninterrupted operation, e.g., in case of failure of the on-site water-ring infrastructure.

### Inverter technology and uniform sample storage

The VIP ECO ULT freezer MDF-DU702VH contains inverter compressors that maximize cooling capacity under various conditions and reduce the freezer's energy consumption. While conventional freezers use single-speed compressors that cycle on and off, the VIP ECO ULT freezer MDF-DU702VH includes inverter compressors that can run at different speeds to maximize cooling performance under various conditions. Combined with hydrocarbon refrigerants, these compressors provide highly efficient energy use and lower heat dissipation.

While the inverter compressors provide optimal stability, the quality of construction ensures reliability. Ideal for samples sensitive to temperature fluctuations.

### Smart interface and easy data monitoring

Thanks to the EZ handle, accessing stored samples is even easier. A color LCD touchscreen allows full user control even with gloved hands, while a USB port makes transferring logged data to a PC simple and easy. Key information such as instrument temperature, door open times and alarm history are logged for monitoring by GLP applications.

### Efficient and flexible sample storage

The combination of VIP PLUS vacuum insulation and improved cabinet design with insulated outer door ensures optimal temperature consistency while maximizing storage capacity through reduced wall thickness. Multiple shelf configurations allow for a variety of storage options.

### Benefits at a glance:

- Our most energy-efficient 700-liter freezer down to  $-86\text{ }^{\circ}\text{C}$  - 7.7 kWh
- Lower heat generation means air conditioning savings
- Reduced CO<sub>2</sub> footprint
- VIP PLUS insulation
- Flexible shelf arrangement
- Intelligent interface
- Innovative cabinet design
- Class IIa medical device

### Features:

- Natural refrigerant
- EZ-handle
- LCD touch screen
- USB connection
- Inverter compressors
- Improved restart times

Overall dimensions (W x D x H): 1030 x 882 x 1993 mm

Internal dimensions (W x D x H): 870 x 600 x 1400 mm

Volume: 729 l

Net weight (approx.): 278 kg

Max. Capacity 2" boxes: 576

Temperature control range:	-50 to -86 °C
Controller:	Microprocessor, non-volatile memory
Display:	LCD touch screen
Temperature sensor:	Pt-1000
Cooling system:	Cascade
High pressure compressor:	2 x 750 W
Coolant:	HC
Insulation material:	PUF / VIP Plus
Insulation thickness:	80 mm
Outer cladding:	Painted steel
Interior cladding:	Painted steel
Outer door:	1
Outer door lock:	J
Inner door:	2
Shelves:	3
Max. Load - per shelf:	50 kg
Max. Loading - total:	515 kg
Vacuum relief opening:	2 (1 automatic, 1 manual)
Access port:	3
Access port position:	rear x 1, bottom x 2
Access port diameter:	17
Casters:	4 (2 height adjustable feet)
Power failure:	O-A-F
Temperature too high:	O-A-F
Temperature too low:	O-A-F
Filter:	O-A
Door open:	O-A
Power supply:	230 V / 50 Hz
Volume:	52 dB [A]

## Additional Information

No.	PH-0017
Manufacturer (Brand)	PHC
old neoLab article no.	7-6021
EAN	4066292144170
Transport temperature	Room temperature
Material	Steel
Temp MAX	-50 °C
Temp MIN	-86 °C
Wide	882 mm
Width/inside	600 mm
Height	1993 mm
Height inside	1400.0 mm
Length	1030 mm
Depth	1030 mm
Depth inside	870 mm
Operation via	Touchscreen
Weight	278 kg
Refrigerant medium	Refrigerant (closed system)
Refrigerant closed system	HFC mixed
Length inside	870 mm
Voltage	230 V
Type interface	USB
Refrigerators and freezers features	with infinitely variable temperature control with separate inner doors with potential-free contact for remote alarm with integrated data memory with interface with rollers with feed-through option with alarm function
Quantity compressors	2
DM MAX Implementation option	17 mm
Devices self cooling	Air cooling

Interior	Compartments with door
Capacity for 50 boxes	576
Page door suspension	right
Positioning variants	single
Type refrigerator / freezer	Ultra Deep Freezer/ Deep Freezer
Volume freezer / refrigerator	729 l

