

-25°/-86°

ULTRA LOW TEMPERATURE | BENCHTOP / UNDERCOUNTER FREEZER

Perfect for challenging settings that demand strict temperature management, this highly dependable compact ultra-low temperature freezer guarantees the safe and efficient storage of your essential materials.

► RELIABLE FREEZING

ARCTIKO's unique single compressor technology guarantees superior temperature uniformity and exceptional cooling performance, allowing you to concentrate on your research without worry. This compact ultra-low temperature (ULT) freezer not only facilitates easy access to samples but also offers flexible placement options in the workplace.

► GLOBAL COMPATIBILITY

The primary cable of this device is interchangeable, allowing it to be used globally. Switch between Schuko, NEMA, and UK plugs with ease. Additionally, there's no need for a transformer; the product is compatible with any voltage from 110V to 240V. It automatically adjusts its operation based on the voltage input.

► NATURAL REFRIGERANT

This device delivers exceptional cooling performance and is eco-friendly, boasting an ultra-low Global Warming Potential (GWP) of just 4. This excellent rating is achieved through the use of natural refrigerants, underscoring its minimal impact on global warming.

► PROBE & ACCESS PORTS

As standard, the unit is equipped with two temperature probes inside the chamber. One probe monitors the air temperature in the chamber and controls the operation of the compressors, while the other probe monitors the temperature of the stored elements, simulated through the aluminum block.

► SINGLE COMPRESSOR TECHNOLOGY

ARCTIKO's single compressor system features a filterless design, which prevents malfunctions due to dust accumulation in filters. This reduces maintenance requirements for the cooling system and ensures more stable operation.

► VACUUM VALVE AND KEY LOCK

The unit enhances security and stabilizes internal conditions with a vacuum valve and a key lock on the door. The vacuum valve efficiently equalizes pressure inside the unit, allowing for immediate access without lengthy delays.

NATURAL
REFRIGERANT
LOWEST GWP



ULUF P90 MV*



Heated door frame prevents ice build up around the gasket.



This unit includes a well-utilized inner compartment with room for up to 500 samples.



Direct cooling for optimized temperature stability and uniformity, even with multiple door openings.



The ARCTIKO OneGripTM handle is designed and developed for easy and ergonomic use.



SINGLE
COMPRESSOR
SYSTEM



VACUUM
INSULATED
PANELS



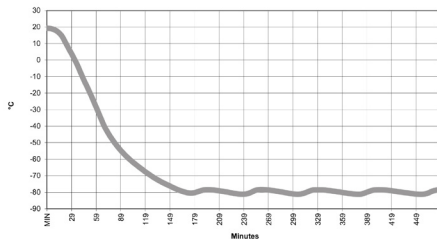
AIRFLOW
CONTROL



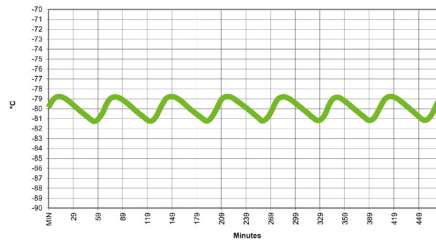
FILTERLESS
CONSTRUCTION



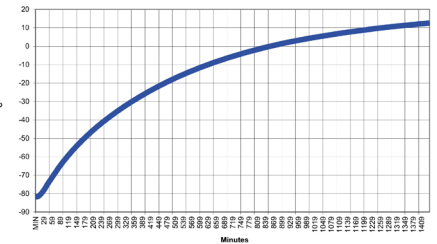
NATURAL
REFRIGERANT



■ Pull-down to -80°C



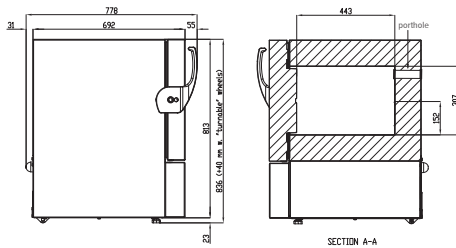
■ Stable -80°C



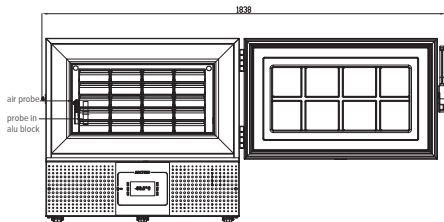
■ Hold over from -80°C

► IMPROVED RECOVERY TIMES

Pull-down times measures how quickly a freezer can reach the correct temperature, the faster the better. Hold over indicates the time the freezer can maintain a safe internal temperature.



SECTION A-A



SECTION B-B

The ARCTIKO Integraline ULUF P90 MV Model supports following optional features:

- Modbus adapter for V500 controller
- Temperature chart recorder (external mounting)
- GSM alarm module
- Racks & boxes
- Cryo gloves



IEC 61010 / EN IEC 61010 / UL 61010 / CSA C22.2 no 61010

MODEL	ULUF P90 MV
Item code	1000003-01
Temperature range (°C/°F)	-25 / -86 (-13 / -122.8)
Max. ambient temperature (°C/°F)	32 (90)
Capacity (L/ft³)	88 (3)
Exterior dimensions WxDxH (mm/in.)	937 x 778 x 836 (37 x 31 x 33)
Interior dimensions WxDxH (mm/in.)	637 x 443 x 307 (25 x 17 x 12)
Weight (kg/lbs)	102 (225)
Insulation (mm/in.)	120 (5)
Cooling technology	Single system / Static Inverter / MV
Controller model / probe type	V500 / PT100
Power supply (V)	110 - 230
Frequency (Hz)	50/60
Power consumption (kWh/24h)	4.67
AMP (A)	3.0 (110V) /1.5A (230V)
Power (Watt)	280
Horsepower (HP)	1
Alarm (displayed as text, not codes)	Yes
Visual / acoustic alarm	Yes / Yes
Power failure alarm	Yes
Adjustable high / low-temperature alarm	Yes / Yes
Open door alarm	Yes
Probe failure alarm	Yes
Low battery alarm	Yes
Compressor failure alarm	No
Battery backup for alarms (approx. hrs.)	72
Voltage-free contact for remote alarm (e.g. GSM alarm module)	Yes
Electronic data logger	Yes
RS 485 port	Optional
USB port for software update & data download	Yes
Temperature chart recorder	Optional (external mounting)
Display type	5" touch screen
Number of optional reference probes	2
Password protection for turning unit on / off	Optional
Temperature graph on display	yes
Automatic defrost	No
Antifreeze function	No
Vacuum release port	Yes
Access port for external probe etc. (int. diameter mm)	20
Light	No
Lock with key	Yes
Castors (total pcs) / castors with brake (pcs)	2 / 0
Fixed feet (pcs) / levelling feet (pcs)	0 / 2
Sub lids / inner doors (pcs)	No
Reversible door(s)	No
Total capacity of 50 mm boxes 9x9 dividers (pcs)	72
Total capacity of 75 mm boxes 9x9 dividers (pcs)	48
Total capacity of 96 mm boxes 9x9 dividers (pcs)	36
Number of compressors	1
Refrigerant	Nature R2
Interior cabinet material	Stainless steel
Exterior cabinet material	Painted steel
Colour (exterior cabinet)	White
Foam type	Polyurethane
VIP vacuum insulated panels	Yes
Shipping weight (kg/lbs)	138 (304)
Shipping dimensions WxDxH (cm/in.)	83 x 103 x 103 (32 x 40 x 40)
Shipping volume (m³)	0,88