ARCTIKO
true cooling specialists

ULUF P400 MV

-40°/-86°

ULTRA LOW TEMPERATURE | HIGHLY RELIABLE ULT FREEZER WITH NATURAL REFRIGERANT

The freezer comes with the extremely powerful independent **TRUE DUAL™** technology that keeps the samples protected at -70°C if an unexpected failure occurred keeping you worry-free and the samples secured and safely guarded.

The first-class V700 controller is equipped with all necessary alarms and features on top of everything, we developed ECO mode to reduce energy consumption while maintaining optimum uniformity for the stored materials.

GG20

NATURAL REFRIGERANT

▶ RELIABLE FREEZING

This model features a swift pull-down time of about 3 hours[1], showcasing a strong cooling system with robust insulation from a mix of polyurethane and vacuum-insulated panels.

Even with frequent door openings, it quickly reestablishes a uniform temperature, maintaining a reliable environment unaffected by external temperatures, thanks to its excellent temperature recovery capabilities.

[1]See below graph under "Improved recovery time".
Ambient temperature 32°C Freezer with no-load.

▶ ENVIRONMENTALLY FRIENDLY

Our units are completely free of HFCs, HCFCs, CFCs, and PFCs. Additionally, the ODP value is zero, ensuring effective sample protection while fully safeguarding the environment.

These eco-friendly refrigerants also reduce energy consumption, enhancing the cooling system's cost-effectiveness and maintaining high performance through strong thermodynamic properties.

▶ ULTIMATE SAMPLE PROTECTION

This model incorporates advanced technologies and the very best components for exceptional performance.

Our TRUE DUAL™ technology prevents sample loss by keeping the freezer operational in the unlikely event of one compressor failing, maintaining -70°C. This ensures your research or samples are protected around the clock, avoiding the risks associated with inferior laboratory equipment.

▶ MULTI-VOLTAGE

Our multi-voltage freezers operate between 100 to 240 volts, seamlessly integrating into global settings without additional adapters or transformers.

This adaptability also ensures resilience against power fluctuations, providing safe and stable storage for sensitive materials.

▶ EFFICIENT TECHNOLOGY

This device is supplied with inverter technology, enabling variable compressor speed, lower energy consumption and lower noise levels with the additional effects of being very robust against fluctuations on the power grid and differences in supply voltage, no need for voltage stabilizers and/or voltage regulators.

ULUF P400 MV ▲

We designed the model with easily accessible compartments including four removable inner doors that are individually insulated with magnetic catches. This smart function also guarantees easy defrosting and effortless maintenance of the unit.

Our new vacuum valve solution features an automatic pressure equalization port. With fast, reliable pressure equalization, your valuable samples remain protected, while allowing for effortless opening and operation whenever needed.

The modernized shelves in the new Integraline are perforated and easily adjustable, offering the best flexibility for your storage needs. Extra durable shelves with up to 50 kg.
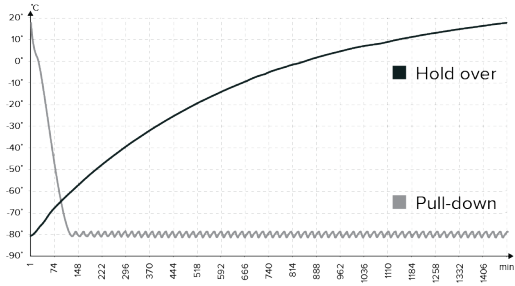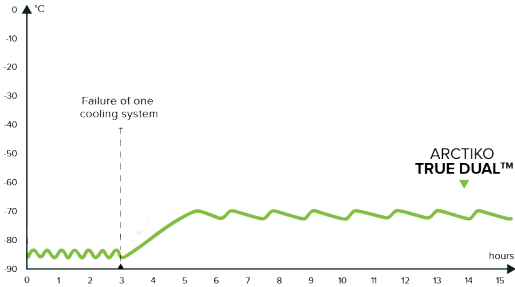

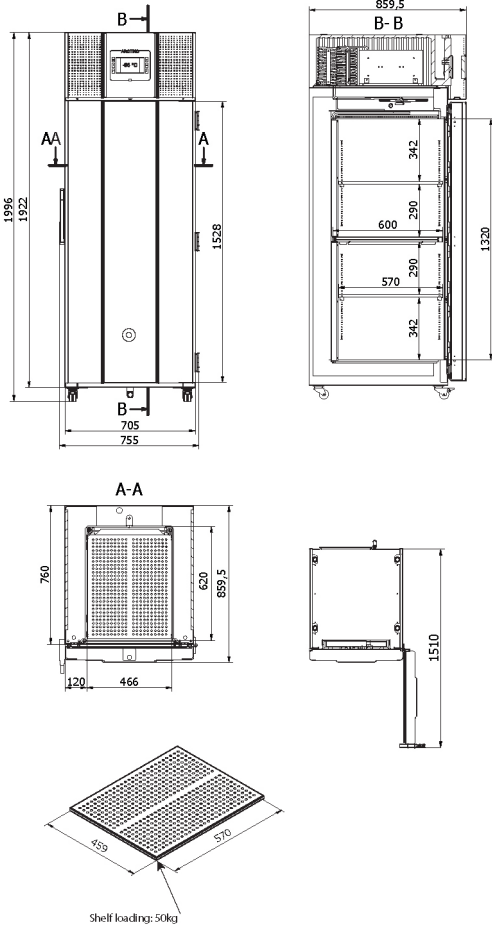TRUE DUAL™ TECHNOLOGY

DIRECT COOLING

VIP
VACUUM INSULATED PANELS

ARCTIKO ULUF P400 MV
true cooling specialists

◄ **ARCTIKO TRUE DUAL™ System**

ARCTIKO's true dual cooling system provides a reliable backup, maintaining consistently low internal temperatures. This advanced system ensures additional safety, high performance, and fast temperature recovery, with the capability of maintaining a stable -70°C, offering unmatched protection for your valuable samples.

Maintains -86°C — Normal operation

Maintains -70°C or lower — Unexpected trouble on system A or B

Failure of one cooling system

ARCTIKO **TRUE DUAL™**
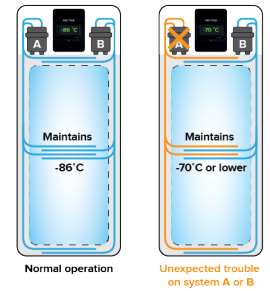
■ Hold over

■ Pull-down

▲ **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.

Shelf loading: 50kg

MODEL	ULUF P400 MV
Main specifications	
Item code	1000047
Temperature range (˚C)	-40 / -86
Max. ambient temperature (˚C)	32
Capacity (L)	381
Exterior dimensions WxDxH (mm)	755x859x1999
Interior dimensions WxDxH (mm)	466x620x1320
Weight (KG)	217
Insulation (mm)	120
Cooling technology	dual system / static
Controller model / probe type	V700 / PT100
Power	
Power supply (V)	100 to 240
Frequency (Hz)	50/60
Power consumption (kWh/24h)	7,3
AMP (A)	-
Power (Watt)	-
Horsepower (HP)	-
Alarm functions	
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	Yes
Battery backup for alarms (approx. hrs.)	72
Data logging & external connection	
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
Display features	
Display type	7'' touch screen
Number of optional reference probes	0 (1 included)
Password protection for turning unit on / off	yes
Temperature graph on display	yes
Other features	
Vacuum release port	yes
Access port for external probe etc. (int. diameter mm)	12
Light	yes
Lock with key	Yes
Castors (total pcs) / castors with brake (pcs)	4 / 2
Sub lids / inner doors (pcs)	4
Fixed shelves (pcs) / adjustable shelves (pcs)	1 / 2
Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)	5 / 5
Max. load per shelf (kg)	50
Total capacity of 50 mm boxes 9x9 dividers (pcs)	264
Total capacity of 75 mm boxes 9x9 dividers (pcs)	168
Total capacity of 96 mm boxes 9x9 dividers (pcs)	120
Max. capacity of samples in Arctiko 10x10 boxes (pcs)	26.400
Refrigeration & cabinet	
Number of compressors	2
Refrigerant	GG20
Interior cabinet material	Stainless steel
Exterior cabinet material	Painted steel
Colour (exterior cabinet)	White
Foam type	Polyurethane
VIP vacuum insulated panels	Yes
Shipping	
Shipping weight (kg)	343
Shipping dimensions WxDxH (cm)	87x127x225
Shipping volume (m³)	2,49

ISO 9001:2015 Certificate No: 33037

ISO 13485:2016 Certificate No: 0000320341-PA-NA-NOR

CE

TÜVRheinland

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

Arctiko A/S ■ Lillebæltsvej 90 6715 Esbjerg N Denmark
Phone: +45 7020 0328 ■ info@arctiko.com ■ arctiko.com