



#### **ULTRA LOW TEMPERATURE I** BENCHTOP / UNDERCOUNTER FREEZER

Highly reliable compact ULT freezer with a space-saving design and low GWP due to natural refrigerant.

# ▶ RELIABLE FREEZING

The single compressor technology provides reliable low-temperature freezing and high temperature

The freezer can reach -86 °C with only one compressor because of the absolutely unique single compressor technology. With the direct cooling, maximum temperature uniformity and minimum recovery time.

All in all, outstanding cooling performance and ultra low GWP (Global Warming potential) due to the . Natural Refrigerant.

## **ONE OF A KIND**

This compact ULUF P90 undercounter/benchtop model is the ideal solution for the smaller lab with limited floor space. It can store up to 500 samples, still maintaining a small footprint and reduced energy consumption, which saves money in operational costs.

The models are developed for demanding standards that need a precise and uniform temperature environment - ideal freezers for storage of DNA, RNA and other biological samples.

## ENERGY EFFICIENCY

The compact space-saving cabinet design guarantees a reduced footprint because of the Arctiko's specifically developed vacuum insulated panels, optimizing the freezer to increase energy efficiency and cooling performance.

The vacuum insulated panels are of a high-efficient quality that secures the lowest possible energy consumption. VIP panels combined with Arctiko's state-of-the-art single compressor technology provide a safe and high-quality ULT freezer.





COMPRESSOR

REDUCTION TECHNOLOGY

FILTERI ESS CONSTRUCTION

> NATURAI REFRIGERANT



It includes a well-utilized inner compartment with room for up to 6000 samples. Its interior is made of the highly durable and robust stainless steel type AISI 304 for high sample safety and easy cleaning.



The unit is equipped with our brand new userfriendly 5" V500 controller that comes with the self-diagnostic test and ECO-mode reducing energy consumption while maintaining optimum temperature uniformity for the stored materials.



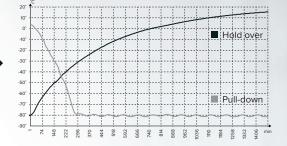
The Arctiko OneGrip™ handle is designed and developed for easy and ergonomic use. Daily operational routines can be performed with a smooth and easy one-handed door opening and closing experience.

\* The pictures shown are for reference only, actual product size may vary. Please read the dimensions of the product in the specifications.

**OPTIONAL FEATURES** 

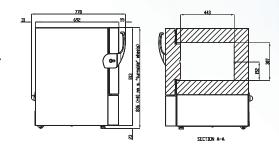
CERTIFICATES

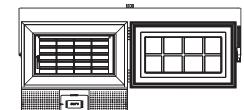


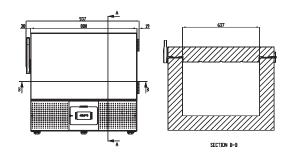


#### IMPROVED RECOVERY TIMES

Pull-down times measures the time taken for temperature to rise, the faster the better. Hold over indication the freezers ability to keep the samples safe.



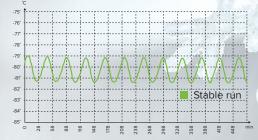




The ARCTIKO Integraline ULUF P90 Model supports following optional features:

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





Model:         Dotation           Image: A procession of the second of		MODEL	ULUF P90
Image         Second Secon	Main specifications		
Max.ambient temperature (C)         25           Generity (L)         88           Coperity (L)         88           Interior dimensions WuDM (mm)         937/788.83           Interior dimensions WuDM (mm)         100           Interior dimensions WuDM (mm)         100           Insolation (mm)         120           Controller model / probe type         Vision (Mm)           Power consumption (Wh/24h)         5060           APP (A)         5			
Page 1         Second Seco			
Induition (mm)         120           Coling translety (M)         Scion (M)           Coling translety (M)         Scion (M)           Parse scipp (M)         Scion (M) <td></td> <td></td>			
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Cooling technology         Single system / static           Controller model / probe type         V500 / PT00           Power suppl (V)         230           Prover (Stel)         506           Power (Stel)         506           AMP (A)         4.0           Power (Wath)         50           Visual / acoustic alarm         9e5 / 9e5           Visual / acoustic alarm         9e5 / 9e5           Visual / acoustic alarm         9e5 / 9e5           Pobe failure alarm         9e5 / 9e5           Open door alarm         9e5 / 9e5           Pobe failure alarm         9e5 / 9e5           Pobe failure alarm         9e5           Battery backup for alarms (apport, http:)         72           Pobe failure alarm         9e5           Battery backup for alarms (apport, http:)         9e5           Battery backup for alarms (apport, http:)         72           Visit of optional reference probes         9e5           Pattery backup for olations (apport, http:)         9e5           Battery backup for olations (apport, http:)         9e5           Visit of optional reference probes         9e5           Pattery backup for olations (apport, http:)         9e5           Visit of optional reference probes			
Procession         VSO/ PTIO0           230         230           Frequency (Hz)         50/60           Power consumption (WW1/24h)         7.0           Power (Watt)         55.0           Power (Watt)         55.0           Power (Watt)         56.0           Power (Matt)         57.0           Power (Matt)         57.0           Power (Matt)         95.1           Power failure alarm         95.7 yes           Open door alarm         95.1 yes           Power failure alarm         95.1 yes           Valida free contact for remote alarm (e.g. 65M alarm module)         95.1 yes           Validas free contact for remote alarm (e.g. 65M alarm module)         95.1 yes           Validas free contact for remote alarm (e.g. 65M alarm module)         95.1 yes           Validas free contact for remote alarm (e.g. 65M alarm module)         95.1 yes           Validas free contact for remote alarm (e.g. 65M alarm module)         95.1 yes           Validas free contact for remote alarm (e.g. 65M alarm module)         95.1 yes			
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Bigger         yes           R 485 port         optional           K 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         1           Password protection for turning unit on / off         yes           Temperature graph on display         yes           Automatic defrost         no           Automatic defrost         no           Access port for external probe etc. (int. diameter mm)         12           Lock with key         yes           Castors (total pcs) / castors with brake (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / algustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Total capacity of 96 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)			
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Automatic defrost         no           Antifreeze function         no           Antifreeze function         no           Vacuum release port         yes           Access port for external probe etc. (int. diameter mm)         12           Light         no           Lock with key         yes           Castors (total pcs) / castors with brake (pcs)         2 rollers / optional           Fixed feet (pcs) / levelling feet (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes	fe		
Antifreeze function         no           Vacuum release port         yes           Access port for external probe etc. (int. diameter mm)         12           Light         no           Lock with key         yes           Castors (total pcs) / castors with brake (pcs)         2 rollers / optional           Fixed teet (pcs) / levelling feet (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83xt03xt03			
Vacuum release port         yes           Access port for external probe etc. (int. diameter mm)         12           Light         no           Lock with key         yes           Castors (total pcs) / castors with brake (pcs)         2 rollers / optional           Fixed feet (pcs) / levelling feet (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 95 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet]         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Access port for external probe etc. (int. diameter mm)         12           Light         no           Lock with key         yes           Castors (total pcs) / castors with brake (pcs)         2 rollers / optional           Fixed feet (pcs) / levelling feet (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyuethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Identify         no           Light         no           Lock with key         yes           Castors (total pcs) / castors with brake (pcs)         2 rollers / optional           Fixed feet (pcs) / levelling feet (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 75 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Used         Lock with key         yes           Castors (total pcs) / castors with brake (pcs)         2 rollers / optional           Fixed feet (pcs) / levelling feet (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 75 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Total capacity of 50 mm boxes 9x9 didviders (pcs)         2 rollers / optional           Fixed feet (pcs) / castors with brake (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         60           Total capacity of 75 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Total capacity of 50 mm boxes 9x9 didviders (pcs)         0 / 2           Sub lids / inner doors (pcs)         no           Reversible door(s)         no           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         60           Total capacity of 75 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103	Other features		
Neteriorization         Inter-           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         60           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping wight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Neteriorization         Inter-           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         60           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping wight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Neteriorization         Inter-           Fixed shelves (pcs) / adjustable shelves (pcs)         0 / 0           Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         60           Total capacity of 50 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping wight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)         0 / 0           Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         60           Total capacity of 75 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			
Max. load per shelf (kg)         0 / 0           Total capacity of 50 mm boxes 9x9 didviders (pcs)         60           Total capacity of 75 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103		Fixed shelves (pcs) / adjustable shelves (pcs)	0/0
Total capacity of 50 mm boxes 9x9 didviders (pcs)         60           Total capacity of 75 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103		Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs)	0/0
Total capacity of 75 mm boxes 9x9 didviders (pcs)         36           Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103			0/0
Total capacity of 96 mm boxes 9x9 didviders (pcs)         24           Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WXDxH (cm)         83x103x103		Total capacity of 50 mm boxes 9x9 didviders (pcs)	60
Number of compressors         1           Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping dimensions WxDxH (cm)         83x103x103		Total capacity of 75 mm boxes 9x9 didviders (pcs)	36
Refrigerant         Nature R           Interior cabinet material         stainless steel           Exterior cabinet material         electrogalvanized steel           Colour (exterior cabinet)         white           Foam type         polyurethane           VIP vacuum insulated panels         yes           Shipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103		Total capacity of 96 mm boxes 9x9 didviders (pcs)	
VIP vacuum insulated panels         yes           Bipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103	Refrigeration & cabinet	Number of compressors	1
VIP vacuum insulated panels         yes           Bipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103		Refrigerant	Nature R
VIP vacuum insulated panels         yes           Bipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103		Interior cabinet material	stainless steel
VIP vacuum insulated panels         yes           Bipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103		Exterior cabinet material	electrogalvanized steel
VIP vacuum insulated panels         yes           Bipping weight (KG)         137           Shipping dimensions WxDxH (cm)         83x103x103		Colour (exterior cabinet)	white
Shipping weight (KG) 137 Shipping dimensions WxDxH (cm) 83x103x103		Foam type	polyurethane
Shipping dimensions WxDxH (cm) 83x103x103		VIP vacuum insulated panels	yes
B         Shipping dimensions WxDxH (cm)         83x103x103           Shipping volume (m³)         0,88	Shipping	Shipping weight (KG)	137
ο Shipping volume (m <sup>3</sup> ) 0,88		Shipping dimensions WxDxH (cm)	83x103x103
		Shipping volume (m <sup>3</sup> )	0,88

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