

BIOMEDICAL FREEZERS & REFRIGERATORS



THE ARCTIKO VISION

At ARCTIKO, our vision is to pioneer innovative solutions that redefine the boundaries of cold storage and environmental sustainability. We are committed to revolutionizing the way organizations preserve and protect their valuable assets, while simultaneously reducing their ecological footprint. Through cutting-edge technology, exceptional quality, and a relentless pursuit of excellence, we aim to empower our customers to achieve their goals while contributing to a greener, more sustainable future for all.

2024

ARCTIKO 
true cooling specialists



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CERTIFICATES

ISO 13485

ISO 13485 is a standard for the design and manufacture of medical equipment. It is an independent standard certification that is generally harmonized with ISO 9001. The standard has been prepared in accordance with the European Commission with a view to the essential requirements of EU directives for medical devices and CE marking.

For ARCTIKO, the ISO 13485 is a quality management system, ensuring that our products meet the EU directive 93/42/EEC for medical devices.



ETL CERTIFICATION

ARCTIKO's products for the US market are approved according to the following standards:

- UL 471 issued: 2010/11/24 Ed.: 10 Rev: 2014/11/17 Commercial Refrigerators and Freezers
- CSA C22.2#120 Issued: 2013/03/01 Ed: 4 Refrigeration Equipment



MEDICAL DEVICES DIRECTIVE

ARCTIKO offers selected products which are approved according to the EU directive 93/42/EEC for medical devices and CE marked as Class II equipment.

CE CERTIFICATION

ARCTIKO's product ranges are CE marked stating that our products meet all legal requirements concerning essential health and machinery safety.

FDA REGISTRATION

ARCTIKO International is FDA registered pursuant to Title 21, 807 et seq. of the United States Code of Federal Regulations.



EXPLANATION OF ICONS



SINGLE COMPRESSOR SYSTEM

The single compressor system consists of one compressor and one cooling cycle. This technology has a unique and simple structure that ensures easy maintenance, less heat dissipation,

low energy consumption and noise reduction. ARCTIKO manufactures a unique range, offering the best solution in the ultra-low temperature market with the single compressor system.



TRUE DUAL™ TECHNOLOGY

With the independent TRUE DUAL™ technology, your samples are protected with double security. The TRUE DUAL™ technology consists of two independent cooling systems that work together.

In the event of a failure on one of the cooling systems, the freezer will maintain the temperature of at least -70°C, meaning your valuable samples always will be stored with the best possible security.



NOISE REDUCTION TECHNOLOGY

Thanks to our newly developed noise reduction technology, we are able to reduce the noise level drastically. This technology helps provide a pleasant

work environment. The noise reduction is achieved by the implementation of our uniquely designed enclosure of the compressor compartment.



VACUUM INSULATED PANELS

ARCTIKO's vacuum insulated panels are of a high-efficient quality that secures the lowest possible energy consumption.

The panels are specially developed to optimize the freezer space and to increase the efficiency and cooling performance.



AIRFLOW CONTROL

Airflow control is a special new construction, which enables controlled airflow around the vital components of the cooling system, securing

maximum levels of performance and the lowest possible energy consumption.



FILTERLESS CONSTRUCTION

Filterless construction prevents complications due to dust in the filter. Dust blocks the air flow through the condenser, which reduces the unit's ability to dissipate heat effectively.

The air that bypasses the clogged air filter carries dirt into the condenser, which increases the energy used in the compressor and generates additional heat for the ambient environment.



DIRECT COOLING

Direct cooling features evaporator coils in each shelf to cool each compartment directly for maximum uniformity and minimal recovery time,

essentially giving you multiple small ULT freezers in one cabinet.



FORCED AIR COOLING

ARCTIKO's forced air cooling provides superior temperature uniformity and stability. Forcing the airflow around the shelves and stored items ensure that all parts of the unit are equally cold

and avoids any cold or hot spots. Distributed by a powerful fan and open air flow areas along the sides, the air is always distributed evenly throughout the fully loaded unit.



ATEX/SPARK FREE UNIT

When handling or storing flammable items in a standard biomedical refrigerator or freezer, there will be a possible ignition risk. Therefore, we at ARCTIKO recommend storing your flammable items in an ARCTIKO ATEX approved

biomedical refrigerator or freezer. The ARCTIKO ATEX biomedical refrigerators and freezers are approved according to EN 60079-15 category 3, zone 2, CE EX 11-3G.



MEDICAL DEVICE CLASS IIA

Depending on the purpose of the medical device and the items that will be stored inside, the classification will cover various risk products, e.g., blood.

ARCTIKO products are certified according to EU directive 93/42/EEC for medical devices and possess CE marking for Class II equipment.

CONTROLLER DESCRIPTION

The customer is always in mind when we are developing new products and technologies. We always strive to focus on user-friendliness, which is reflected in our controllers.

Our controllers come with a wide range of features and offer optional solutions tailored to the customer's needs.

G214 CONTROLLER



The G214 controller is used on most of our units. It has been ARCTIKO's main controller for many years. With regular updates, the G214 controller has stayed ahead of the competition. The controller has all the features needed for safe storage of your valuable samples.

V700 / V500 CONTROLLER



With the new ARCTIKO controller, you will get the most user-friendly controller on the market. The new controller comes as a 7" or 5" touch screen display. The controller is upgraded with the newest technologies on the market and has all the features needed for safe storage of your valuable samples.

MAIN FEATURES ON THE G214 CONTROLLER

- 4.3" LCD display
- USB port for easy upload of software & download of logged data
- Extensive integrated logging capabilities with access to log directly on the display
- Monitoring of multiple alarm conditions
- Integrated memory for up to 20 years of logged data
- Multiple languages available in controller
- Battery backup for alarms, logging and temperature monitoring in case of power failure
- Auto cycle in case of probe failure
- 3 levels of password protection

OPTIONAL FEATURES

* Upon Request

PREPARED FOR:

- Connection of 2 additional probes
- Modbus over RS485
- Connection of GSM alarm module

ALARM FEATURES

- Visual and acoustic alarm
- Adjustable high/low temperature alarm
- Power failure alarm
- Probe failure alarm
- Open door alarm
- Contact for remote alarm
- Shows all alarms

MAIN FEATURES ON THE V700/V500 CONTROLLER

- Large 7" / 5" resistive touch screen display makes it easy to access all the functions
- Self-diagnostic test
- ECO mode - reducing operating costs
- Display can be operated with gloves
- Display is easy to clean - no accidental button presses
- USB port for easy upload of software & download of logged data
- Extensive integrated logging capabilities with access to detailed log directly on the display
- Monitoring of power and multiple alarm conditions
- Integrated memory for 20 years of logged data
- Multiple languages available in controller
- Battery backup for alarms, logging and temperature monitoring in case of power failure
- Auto cycle in case of probe failure
- Advanced service mode
- 3 levels of password protection
- Digital temperature graph

OPTIONAL FEATURES

* Upon Request

PREPARED FOR:

- Connection of one additional probe
- Electronic lock with access via RFID card
- Built-in CO₂ backup function
- Modbus over RS485
- Connection of GSM alarm module

ALARM FEATURES

- Visual and acoustic alarm
- Compressor alarm (TRUE DUAL™)
- Adjustable high/low temperature alarm
- Power failure alarm
- Probe failure alarm
- Open door alarm
- Contact for remote alarm
- Shows all alarms

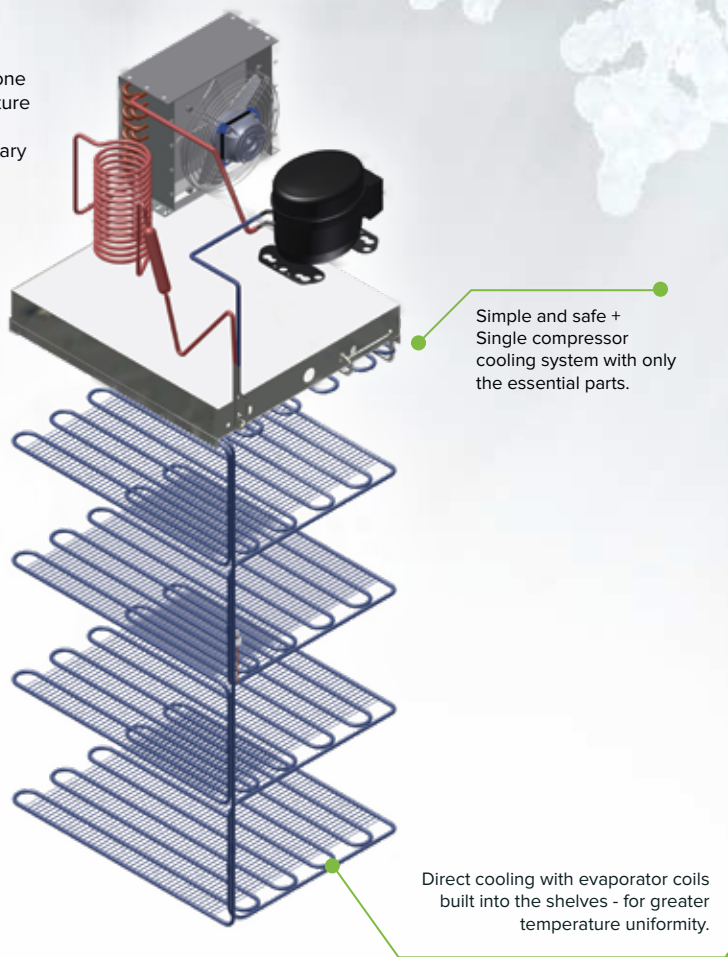
EXCELLENT COOLING PERFORMANCE WITH SINGLE COMPRESSOR SYSTEM

Storing samples at ultra-low temperatures is always a highly sensitive process because the stored items most likely are of high value. ARCTIKO's single compressor system offers one of the best solutions in the ultra-low temperature market. We strive to design products that are easy to use and equipped with all the necessary features.

With our single compressor cooling system, which only uses one compressor and one cooling cycle, ARCTIKO has been able to manufacture a unique range of ultra-low temperature freezers with a reliable and exceptional stable temperature inside.

Our true and original single-stage technology system has a unique and simple structure which impacts on less maintenance, less heat dissipation, low energy consumption and noise reduction.

ARCTIKO's single compressor system consists of fewer parts and has a simplified structure of the cooling system and electrical circuit, which reduces the failure rate. The compressor compartment located in the top of our upright freezers, provides many great advantages, such as easy access for service and maintenance as well as an ergonomically correct design, allowing easy access to each compartment inside.



ADVANTAGES OF ARCTIKO'S SINGLE COMPRESSOR SYSTEM

- Direct cooling in each chamber for greater temperature accuracy
- Low temperature difference from top to bottom
- Two single compressor systems used in our popular **TRUE DUAL™** technology - double security
- Easy maintenance - simple cooling system
- Low noise level
- Less heat generation
- Reduced maintenance of compressor compartment due to filterless construction



WHAT'S YOUR BACK-UP PLAN, IF YOUR FREEZER FAILS?

Do not risk the safety of your samples due to the potential of a freezer breakdown. With ARCTIKO's **TRUE DUAL™** technology, you avoid problems and headaches caused by an unexpected breakdown on your freezer. You should use the time to focus on what is most important: your valuable samples - not worrying about the laboratory equipment. Do not ignore the huge risk of losing many years of valuable research because of poor laboratory equipment.

ARCTIKO's **TRUE DUAL™** technology differs significantly from the conventional cascade refrigeration system in terms of fundamental design and operation. The **TRUE DUAL™** technology consists of two independent cooling cycles. In the unlikely event of an unexpected failure or breakdown on one of the cycles, the other system will serve as a backup, guaranteeing that your samples will be protected and kept at least at -70°C.

The **TRUE DUAL™** technology together with the direct cooling ensures that ARCTIKO's Ultra-Low temperature freezers are known for their reliability and exceptional uniformity.

It is important to invest in the correct quality of laboratory equipment that meets the established regulatory standards. ARCTIKO's quality products will reduce the frequency of costly downtime situations, so that you can focus on the most important: your research.

TRUE DUAL™ TECHNOLOGY

The **TRUE DUAL™** technology consists of two independent cooling cycles. In the unlikely event of an unexpected failure or breakdown on one of the cycles, the other system will serve as backup, guaranteeing that your samples will be protected and kept at least at -70°C.

- Double security for samples
- No stress and problems involved
- No costly downtime situations
- Faster recovery after openings
- No need for backup freezer
- Longer lifespan
- Fast pull down time
- Direct cooling on shelves
- Great temperature uniformity



CASCADE SYSTEMS

In a cascade system, the two compressors depend on each other to reach -80°C. In case of failure on one compressor, the temperature will rise and potentially destroy the samples. Samples should be moved into a backup freezer to be safe.

- No extra security
- Need of backup freezer when the system breaks down
- Extra frustrations
- No direct cooling on each shelf
- Can be costly in the long run





UNIFORM AND STABLE CRYOGENIC FREEZER FOR **LONG TERM STORAGE**

ENVIRONMENTALLY FRIENDLY AND ECONOMIC ALTERNATIVE

ARCTIKO is proud of the innovative cryogenic freezer for long-term preservation of cells, tissues and other scientific samples. In recent years, storage in mechanical cryogenic freezers has replaced cryogenic storage in LN₂ to avoid cross-contamination and to provide a more environmentally friendly, safe and cost-efficient alternative. A cryogenic freezer eliminates the continuous cost of LN₂ storage maintenance and avoids hazardous operating conditions.

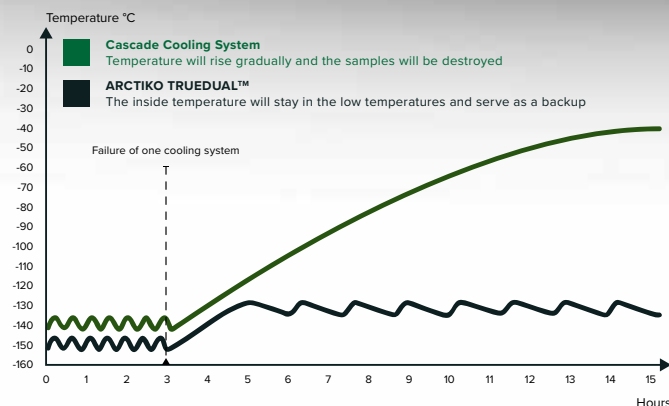
The CRYO freezers are designed for a wide variety of applications, such as research and long-term storage applications for low-temperature scientific experiments, preservation of cells, DNA, bone material, bacteria and similar samples.

SUPERIOR COOLING PRECISION

The -150°C cryogenic freezers are among the most energy efficient compared with similar products. At less than 34 kWh/24h, no other -150°C product can come close to such a low energy consumption. The extremely low total ownership cost will with no doubt have a noticeable impact on the running costs.

Due to ARCTIKO's independent TRUE DUAL™ technology, security has never been better. In the unlikely event that one cooling system should fail, the second cooling system will maintain the freezer at a minimum of -130°C. The highly reliable cooling technology results in superior cooling precision and uniformity, even with multiple door openings.

GO WITH TRUE DUAL™ COOLING TECHNOLOGY FOR **EXTRA SECURITY**



CRYOGENIC FREEZERS

BENEFITS



- Designed for long-term cryogenic preservation
- Safer and more convenient than LN₂ Cryotanks
- ARCTIKO's TRUE DUAL™ technology keeps the samples safe at all times
- Low energy consumption, less than 34 kWh/24h
- Security has never been better - with the optional LN₂ backup system the samples are protected against power failures and unexpected problems
- Dramatically improved temperature uniformity compared to LN₂ cryotanks
- Eliminates the need for supply of LN₂ and all the associated stress
- Reduces cost of ownership compared with the LN₂ cryotanks
- Avoid potential cross-contaminations due to improper storage of samples

Maximum storage capacity with up to 14.400 samples in ARCTIKO 10x10 50 mm boxes

-150°



Reaches -150 °C in less than 6 hours!

Smart and easy handle with built in lock for restricted access



TRUE DUAL™ TECHNOLOGY



FILTERLESS CONSTRUCTION



REDUCED NOISE LEVEL*



STORE UP TO 14.400 SAMPLES



REDUCED COST OF OWNERSHIP

MODEL	CRYO 170	CRYO 230
Dimensions exterior WxDxH (mm)	1580 x 960 / 1135** x 1090	1760 x 960 / 1135** x 1090
Capacity (L)	171	233
Temperature range (°C)	-140/-150	-140/-150
Power Consumption (KWH/24)	31.7	33.5
Total capacity of 50 mm boxes (pcs)	108	144
Max. no. of samples (pcs)	10.800	14.400
Controller	TTM-004	TTM-004

* Compared with similar products on the market
 ** Depth of 1135 mm includes distance fittings on back for correct air circulation

Integraline GG

ULT FREEZERS WITH MULTI VOLTAGE DEVELOPED FOR THE MOST CRITICAL USERS

► Our newest line is developed for the most critical users of a wide range of applications. The Integraline multi-voltage range includes four upright cabinet models with a capacity from 381L to 815L and three compact space saving models from 7L to 88L. They include features like noise reduction technology, vacuum isolated panels and our trusted and safe **TRUE DUAL™** technology (upright models).

► APPLICATION

Ultra-low temperature freezers have a wide application range for both biological and biotech storage. Whether you are in the medical field, life sciences, plastics, food or electronic components industry, these freezers are perfect for your application's needs. The Integraline is specially designed for long-term storage.

The Integraline models are perfect for storing such samples as DNA/RNA, plant samples, insect artifacts, autopsy materials, blood, plasma, bones and tissues, chemicals and antibiotics, tissue, bone marrow, cord blood, specimens, stem cells and sperm.

► MAXIMUM SAFETY

When you choose an ARCTIKO product, you receive more than what you might require in terms of security, logging and alarm features. We care about your valuable samples.

In addition to all safety features, the new V700/V500 ARCTIKO controller offers an integrated data logger with memory for 20 years, different interfaces and several alarms to ensure that your requirements for documentation and safety regulations are fulfilled.

Energy consumption has a huge impact on the cost of ownership; therefore, ARCTIKO's newly developed models that can operate in ECO mode and NORMAL mode.

ECO mode is developed to reduce energy consumption while maintaining optimum uniformity for the stored materials.

► VACUUM INSULATED PANELS

The compact space-saving cabinet design offers a reduced footprint due to the use of ARCTIKO's specially developed vacuum insulated panels, which ensure maximum interior volume and the Integraline models comes with one of the market's best storage per m2 ratios.

VIP panels combined with ARCTIKO's state-of-the-art single compressor and TRUE DUAL™ technology provides a safe and high-quality ULT freezer. This model is ideal for the demanding standards that need a precise and uniform temperature environment.

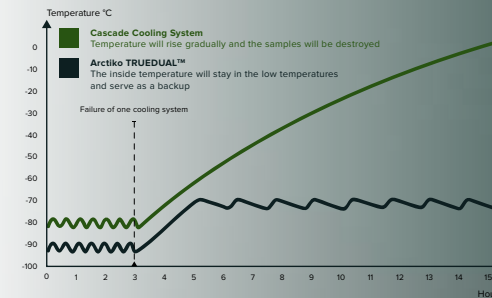
► EASY CLEANING AND MAINTENANCE

The interiors of our freezers are made of robust stainless steel for high sample safety and easy cleaning. The inner doors are detachable ensuring easy cleaning and defrosting.

Our multi-voltage freezers have the innovative capacity to operate across a broad spectrum of power supplies, ranging from 100 to 240 volts. This feature ensures that the multi-voltage freezers can be seamlessly integrated into various settings worldwide without the need for additional power adapters or transformers. The multi-voltage functionality enhances the freezer's adaptability to different electrical standards and significantly increases their resilience to power fluctuations, ensuring the safe and stable storage of sensitive materials.

► RELIABLE AND HIGHLY EFFICIENT TECHNOLOGY FOR ENHANCED SECURITY

No other manufacturer comes close to the performance of the ARCTIKO upright Integraline with the independent **TRUE DUAL™** technology providing the utmost security within ULT freezers worldwide. Not only is the pull-down time less than three hours, but extra security measures have been incorporated.



In the event of any failure with one of the cooling cycles, the other system will still maintain the temperature at a minimum of -70 °C. This means that your samples will not be affected by any challenges caused by an unexpected failure until service is provided.

► OPTIMIZED CABINET DESIGN

The Integraline has a specially designed cabinet that provides high-volume sample storage. It is suitable for most racks and storage solutions and also works with more rack systems and storage containers than offered by other brands.

In addition, the design includes solid door gaskets for greater isolation and minimum heat loss.

The model is designed with easily accessible compartments with four removable inner doors that are individually insulated and with magnetic catch. This ensures better stability and less heat dissipation, which results in lowering the cost of ownership. This smart function also ensures easy defrosting and maintenance of the unit.

Read more on next page ►



ULT FREEZERS WITH MULTI VOLTAGE DEVELOPED FOR THE MOST CRITICAL USERS

► Your valuable samples demands a safe and stable environment leaving no room for temperature fluctuations. Some samples are quite fragile and expensive, so you clearly can't allow unreliable equipment where frequent door openings can completely damage your samples.

The Integraline GG range is characterized by the short pull down time indicating an exceptionally dominant and productive refrigeration system with robust insulation and the potent mixture of polyurethane and vacuum insulated panels.

STORAGE OF SENSITIVE SAMPLES

When storing sensitive samples, the stable temperature inside is essential. Some customers need to monitor the temperature through external devices in line with higher requirements. In our Integraline GG, we have included a premade access port for an easier installation of an external probe or monitoring device. Moreover, the new Integraline GG can be connected to several optional accessories, to get exactly the unit that fulfills the needs in the laboratory, so that you can focus on your valuable research.

NATURAL REFRIGERANT

► We have strongly committed ourselves to the responsible use of natural resources and clean technologies by using eco-friendly alternatives.

Our natural refrigerants include extremely low GWP (Global Warming Potential) values and ODP (Zero Ozone Depletion Potential).

Our tried and tested environmentally friendly CFC-free and HCFC-free refrigerants guarantee potent and powerful system securing your valuable samples, but without compromising our Earth's safety in the process. These refrigerants don't produce harmful fumes and they are considered to be the ultimate solution to the environmental contamination produced by synthetic refrigerants.

Even with continuous door openings, it rapidly restores temperature uniformity creating a highly reliable environment that's not being affected by ambient temperature.

Therefore, it is essentially defined by amazing temperature recovery properties. The slower hold over time shows the mighty and well-insulated freezer's capability of keeping the temperature constant and the capacity of immediately restoring temperature uniformity following door openings. The range includes four upright cabinet models with an inner capacity from 385L to 819L.

APPLICATION

Ultra low-temperature freezers have a wide application range for both biological and biotech storage. Whether you are in the medical field, life sciences, plastics, food, or electronic components industry, these freezers are absolutely perfect for your application's needs. The application in the Integraline GG includes biological samples such as DNA/RNA, plant samples, insect artifacts, autopsy materials, blood, plasma, bones and tissues, chemicals and antibiotics, tissue, bone marrow, cord blood, specimens, stem cells, and sperm.

Even though they are environmentally friendly, they consume significantly less energy without compromising the cooling system, environment, and making it cost effective as well. Our environmentally-safe refrigerants share strong thermodynamic properties creating high performance along the way.

V700 CONTROLLER

► The first-class V700 controller is equipped with all necessary alarms and features (see page 10-11). On top of everything, we developed ECO mode to reduce energy consumption while maintaining optimum uniformity for the stored materials.



DETACHABLE INNER DOORS

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



DOUBLE DOOR GASKETS WITH OPTIMAL INSULATION

► Heated door frame, insulated door and specially designed double door gaskets ensuring close tightening and prevents ice from building up.



ONEGRIP™ HANDLE

► Ergonomic door handle enables one-handed door operations. Your security will be doubled thanks to both the integrated lock inside the handle and the RFID smart lock Card Key.



PREMADE ACCESS PORT

► At ARCTIKO, we pay particular attention to the stability of the inside temperature for storing your sensitive samples. Some customers need to monitor the temperature through external devices in line with higher requirements. For that reason, we came up with 6 premade portholes for an easier installation of an external probe or monitoring device.



STRONG AND DURABLE CASTORS

► Our designers at ARCTIKO have designed castors resulting in superior durability and strength. Our castors meet the highest requirements making them matchless on the market.



FLEXIBLE SHELF LAYOUT

► The Integraline GG has multiple shelf configurations. Our middle shelf is equipped with direct cooling. Additionally, organizing the interior to fit your samples is now a piece of cake because of the use of existing racks or ARCTIKO's highly durable stainless steel racks, 10x10 cryoboxes, and vials.



ARCTIKO Integr^aline GG

true cooling specialists

DURABLE AND RELIABLE ULTRA LOW TEMPERATURE FREEZERS UPGRADED MULTI-VOLTAGE DESIGN

The new Integraline is developed to target the most critical users on the market. The Integraline features our independent **TRUE DUAL™** cooling system that consists of two independent systems offering you the best security.

Thereby, your samples will not be affected by any challenge caused by an unexpected system failure, until service is provided. This is possible due to our highly reliable independent **TRUE DUAL™** technology.

In case of an unexpected failure on one of the independent cooling systems, the other will maintain the freezer temperature of at least -70°C.



MODEL	ULUF P400MV	ULUF P510MV	ULUF P620MV	ULUF P830MV
Dimensions exterior WxDxH (mm)	755x859,5/1002*x1999	895x859,5/1002*x1999	1035x859,5/1002*x1999	1285x859,5/1002*x1999
Capacity (L)	381	496	610	815
Temperature range (°C)	-40 / -86	-40 / -86	-40 / -86	-40 / -86
Power consumption (KWH/24)	7.3	8.1	8.4	8.9
Total capacity of 50 mm boxes (pcs)	264	352	440	616
Max. no. of shelves (pcs)	5	5	5	5
Max. no. of samples (pcs)	26.400	35.200	44.000	61.600
Controller	V700	V700	V700	V700

* Depth of 1002 mm includes detachable airflow management and noise reduction system



NATURAL REFRIGERANT



TRUE DUAL™ TECHNOLOGY



VACUUM INSULATED PANELS



NOISE REDUCTION TECHNOLOGY



AIRFLOW CONTROL



FILTERLESS CONSTRUCTION



DIRECT COOLING

ULT COMPACT DESIGN

The new compact Integraline is developed to target the most critical users in the market. The undercounter range will add a new dimension to your laboratory.

The compact space-saving design and low noise level make it a perfect storage solution for your laboratory. The compact Integraline undercounter models are produced with true and original single compressor technology that ensures outstanding cooling performance.



BENEFITS

- Outstanding cooling performance with the true and original single cooling system.
- Compact space saving design makes the undercounter ULT's the perfect storage solution for laboratories with limited space.
- Single Compressor technology with a simple structure ensures easy maintenance, lower heat dissipation, low energy consumption and noise reduction for a pleasant work environment.
- Direct cooling for optimized temperature stability and uniformity, even with multiple door openings.
- Heated door frame prevents ice from building up around the gasket securing a stable and uniform temperature inside the freezer.
- Low energy consumption made possible with ECO mode and ultra-efficient Vacuum Insulated Panels.
- Built-in CO₂ backup controller system for extra security for your valuable samples.
- Self-diagnostic function to ensure that your alarm system is always working correctly.



MODEL	ULUF P10MV	ULUF P50MV	ULUF P90MV
Dimensions exterior WxDxH (mm)	447x709x731	657x778x836	937x778x836
Capacity (L)	7	50	88
Temperature range (°C)	-25/-86	-25/-86	-25/-86
Power consumption (KWH/24)	4.0	5.9	7
Total capacity of 50 mm boxes (pcs)	5	30	60
Max. no. of samples (pcs)	500	3.000	6.000
Controller	V500	V500	V500



SINGLE
COMPRESSOR
SYSTEM



VACUUM
INSULATED
PANELS



NOISE
REDUCTION
TECHNOLOGY



AIRFLOW
CONTROL



FILTERLESS
CONSTRUCTION



DIRECT
COOLING

ULT UPRIGHT FREEZERS

Our ULUF upright freezers feature our single compressor system with direct cooling for higher temperature uniformity and excellent temperature stability. The ULUF -86°C series is the optimal solution for any long-term storage application.

By placing the compressor and other heat and noise generating components on the top of the unit, the heat is distributed upwards and backwards,

preventing the heat from warming up the entire room. This design also means that there is never a compartment, in which it would be difficult to locate your samples nor using fully. This all works to ensure an ergonomically correct unit that is easy and pleasant to use.



-86 °C

ULUF 550-2M

BENEFITS

- Single Compressor Technology with a simple structure ensuring easy maintenance, lower heat dissipation, low energy consumption and noise reduction for a pleasant work environment.
- Direct cooling for optimized temperature stability and uniformity, even with multiple door openings.
- Heated vacuum release valve ensures that the doors can always open, making the unit perfect for an active work environment.
- Insulated inner doors minimize cold loss during door openings.
- Heated door frame preventing ice from building up around the gasket securing a stable and uniform temperature inside the freezer.



SINGLE COMPRESSOR SYSTEM



FILTERLESS CONSTRUCTION



DIRECT COOLING

MODEL	ULUF 450-2M	ULUF 550-2M	ULUF 750-2M*
Dimensions exterior WxDxH (mm)	720x885x1990	920x885x1990	1030x885x1990
Capacity (L)	393	556	642
Temperature range (°C)	-40/-86	-40/-86	-40/-86
Power consumption (KWH/24)	14.6	-	19.5
Total capacity of 50 mm boxes (pcs)	240	320	400
Max. no. of shelves (pcs)	4 (fixed)	4 (fixed)	4 (fixed)
Max. no. of samples (pcs)	24.000	32.000	40.000
Controller	G 214	G 214	G 214

With TRUE DUAL™ technology*



ULT COMPACT FREEZERS

The ULUF undercounter compact models will add a new dimension to your laboratory. The compact space-saving design and low noise level make it a perfect storage solution for your laboratory.

The ULUF -86°C series is produced with true and original single compressor technology, which secures outstanding cooling performance with only one compressor.

BENEFITS

- Compact space saving design makes the undercounter ULTs the perfect storage solution for laboratories with limited space.
- Single Compressor Technology with a simple structure that ensures easy maintenance, lower heat dissipation, low energy consumption and noise reduction for a pleasant work environment.
- Direct cooling for optimized temperature stability and uniformity, even with multiple door openings.
- Heated door frame preventing ice from building up around the gasket securing a stable and uniform temperature inside the freezer.
- Perfect for a laboratory or workstation where you want to work uninterrupted without going back and forth to your storage area.



ULUF 65

ULUF 15

-86 °C

ULUF 125

Insulated inner door for better recovery time after door openings and optimal temperature stability



SINGLE COMPRESSOR SYSTEM



FILTERLESS CONSTRUCTION



DIRECT COOLING

MODEL	ULUF 15	ULUF 65	ULUF 125
Dimensions exterior WxDxH (mm)	400x630x665	600x700x810	950x725x810
Capacity (L)	7	54	94
Temperature range (°C)	-40/-86	-40/-86	-40/-86
Power consumption (KWH/24)	6.5	6.9	7.0
Total capacity of 50 mm boxes (pcs)	5	30	48
Max. no. of shelves (pcs)	0	0	1
Max. no. of samples (pcs)	500	3.000	4.800
Controller	G 214	G 214	G 214

* TRUE DUAL™ technology - In case of failure on one cooling cycle, the freezer will maintain an operating temperature of -70°C

ULT CHEST FREEZERS

The ULTF range shows that high performance freezing with focus on low energy consumption is the future. The range features our G214 ARCTIKO controller, which ensures that all alarm and data logging features are included as standard. The ULTF range is produced with true and original single compressor technology, which ensures great temperature stability for the safety of your samples.

The chest freezer will store your samples under optimal conditions even when opening the freezer several times throughout the day. The single compressor technology provides reliable low-temperature freezing and maximum temperature uniformity.

NATURAL REFRIGERANT

BENEFITS

- Single compressor technology with a simple structure that ensures easy maintenance, lower heat dissipation, low energy consumption and noise reduction for a pleasant work environment.
- Insulated sub lids to minimize cold loss during door openings.
- Filterless construction prevents dust from blocking the airflow and minimizes maintenance procedures.



SINGLE COMPRESSOR SYSTEM



FILTERLESS CONSTRUCTION



NOISE REDUCTION TECHNOLOGY

**-80°C
in less than
90 min!**

Optimal storage capacity and overview of the stored samples with the stainless steel front rack storage system

LOW-TEMPERATURE CHEST FREEZERS

The LTF (-60°C) and LTFE (-45°C) ranges ensure reliable low-temperature freezing and high temperature uniformity. Standard features include digital display, alarms, contact for remote alarm and castors.

The chest freezer will store your samples under optimal conditions even when opening the freezer several times throughout the day.

BENEFITS

- Single compressor technology with a simple structure that ensures easy maintenance and has low energy consumption.
- Filterless construction prevents dust from blocking the airflow and minimizes maintenance procedures.
- With the single compressor system, less heat is generated in the work environment, which results in a lower cost of ownership.
- Low heat dissipation ensures a pleasant work environment.
- A Low noise level provides a better work environment.



SINGLE COMPRESSOR SYSTEM



FILTERLESS CONSTRUCTION



NOISE REDUCTION TECHNOLOGY

MODEL	ULTF 80	ULTF 220	ULTF 320	ULTF 420	LTF 85	LTF 225	LTF 325	LTF 425	LTF 535	LTFE 140	LTFE 290	LTFE 370	LTFE 515
Dimensions exterior WxDxH (mm)	556x641x887	925x691x891	1263x691x891	1564x691x891	552x648x850	720x698x890	1262x698x890	1562x698x890	1662x758x932	720x698x890	1262x698x890	1562x698x890	1662x758x932
Capacity (L)	71	189	284	368	71	133	284	368	476	133	284	368	476
Temperature range (°C)	-40/-86	-40/-86	-40/-86	-40/-86	-30 / -60	-30 / -60	-30 / -60	-30 / -60	-30 / -60	-10 / -45	-10 / -45	-10 / -45	-10 / -45
Power consumption (KWH/24)	-	-	-	-	5.1	6.0	6.9	8.3	6.9	-	-	-	-
Total capacity of 50 mm boxes (pcs)	40	117	216	282	40	117	216	282	309	84	216	282	309
Max. no. of shelves (pcs)	-	-	-	-	2	3	12	15	15	3	12	15	15
Max. no. of samples (pcs)	4.000	11.700	21.600	28.200	4.000	11.700	21.600	28.200	30.900	8.400	21.600	28.200	30.900
Controller	G214	G214	G214	G214	Dixell	Dixell	Dixell	Dixell	Dixell	Dixell	Dixell	Dixell	Dixell



BIOMEDICAL STORAGE SOLUTIONS WITH HIGH RELIABILITY

ARCTIKO biomedical freezers and refrigerators store and secure your samples with outstanding cooling reliability and performance. ARCTIKO has combined the highest quality cooling performance created by forced air cooling with the many features and user-friendliness offered by the ARCTIKO controller G214. The results meet the more stringent requirements for lower power consumption, more precise cooling uniformity, the need for temperature and alarm surveillance, documentation and validation, making ARCTIKO's Biomedical range the number one solution for biomedical storage.

The ARCTIKO Biomedical range provides ideal solutions for the research industry and healthcare sector for storing vaccines, diagnostic samples, reagents and samples such as enzymes for genetic research, culture media and temperature testing of electrical components and precision devices.

Lower power consumption
Precise and stable cooling
Temperature and alarm surveillance
Documentation and validation

In several countries, health ministries instruct pharmaceutical companies/pharmacies to document all pharmaceutical drugs that have been stored under a certain temperature. The advantage of choosing an ARCTIKO product is a controller with all needed features. In particular, the data logger with memory and on-screen graphs are extremely important features needed by pharmacies.

The ARCTIKO Biomedical range offers a wide variety of solutions from our 55 liter undercounter models up to 1381 liters of effective capacity. Each freezer/refrigerator is pre-programmed from the factory to provide controller settings and cooling parameters for optimal, user-friendly solutions.

All products in ARCTIKO's biomedical range have a flexible interior so that we can meet all requirements for storage solutions! You can choose from a variety of shelf and drawer options or devise your own combination.

SPARK FREE INTERIOR

FLAMMABLE LIQUIDS WILL BE STORED SAFELY WITH AN ARCTIKO ATEX APPROVED REFRIGERATOR OR FREEZER

► When handling or storing flammable samples in a standard biomedical refrigerator or freezer, there will be a possible ignition risk. Therefore, we at ARCTIKO recommend storing your flammable samples in an ARCTIKO ATEX approved biomedical refrigerator or freezer.

The ARCTIKO ATEX biomedical refrigerators and freezers are approved according to EN 60079-15 category 3, zone 2, CE EX 11-/3G. This means that the inside of the unit is approved to store flammable, explosive or otherwise volatile substances.

Stored substances should always be kept in airtight containers, this to prevent the vapor or particles of the substances from escaping their container and ignition of non spark free items.



AVAILABLE IN ATEX

ATEX APPROVAL IS AVAILABLE AS AN OPTION ON:

LF Range (Biomedical Freezers)	-10/-30°C
LFF Range (Biomedical Combi)	+1/+10°C / -10/-30°C
LFFG Range (Biomedical Combi)	+1/+10°C / -10/-30°C
LR Range (Biomedical Refrigerator)	+1/+10°C
PR Range (Biomedical Refrigerator)	+1/+10°C



PRE BIOMEDICAL REFRIGERATORS

The Flexaline series of PRE refrigerators has been intricately engineered to fulfill the vital criteria demanded by biomedical applications, while still ensuring an exceptional level of competitiveness in pricing.

This glass door range offers a variety of storage capacities, enabling you to find the perfect model for your needs.

With precise temperature controls and advanced technologies, these refrigerators play a crucial role in preserving the efficacy of medical supplies and contributing to scientific advancements.

ARCTIKO's Flexaline range is unique in this field with an integrated data logger for extra security.



BENEFITS

- Our Products are Energy Star certified, guaranteeing exceptional energy efficiency and reduced environmental impact.
- A built-in data logger, provides accurate monitoring of temperature conditions.
- Equipped with a secure key lock, to provide an added layer of protection for valuable contents and preventing unauthorized access.
- ARCTIKO refrigerators utilize refrigerants that are fully compliant with the Environmental Protection Agency (EPA) and the Significant New Alternatives Policy (SNAP) regulations.



DATA LOGGER



USB PORT



FORCED AIR COOLING



ADJUSTABLE SHELVES



DATA LOGGER



USB PORT



FORCED AIR COOLING



ADJUSTABLE SHELVES

MODEL	PRE 60	PRE 125	PRE 285	PRE 380	PRE 490
Dimensions exterior WxDxH (mm)	518x598x654	608x610x805	608x610x1525	608x698x1840	780x710x1950
Capacity (L)	60 / 60	121 / 109	285 / 265	400 / 395	503 / 488
Temperature range (°C)	+2 / +8	+2/+8	+2 / +8	+2 / +8	+2 / +8
Power consumption (KWH/24)	1.5	2.0	2.4	3.0	3.2
Max. no. of shelves (pcs)	2 / 2	3 / 3	6 / 6	7 / 7	7 / 7
Max. load per shelf (kg)	15	20	20	24	31
Controller	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC

LFE BIOMEDICAL FREEZERS

The Flexaline series of LFE freezers has been thoughtfully crafted to meet the essential requirements for biomedical applications, all while offering extremely competitive pricing.

This range offers a variety of storage capacities, enabling you to find the perfect model for your needs.

With precise temperature controls and advanced technologies, these freezers play a crucial role in preserving the efficacy of medical supplies and laboratory samples.

ARCTIKO's Flexaline is unique in this field with an integrated data logger for extra security.

LRE BIOMEDICAL REFRIGERATORS

NEW PRODUCT RANGE

Within the Flexaline family, LRE refrigerators have been carefully designed to meet the critical specifications necessary for biomedical applications, all the while maintaining a highly competitive price point.

This solid door range offers a variety of storage capacities, enabling you to find the perfect model for your needs.

With precise temperature controls and advanced technologies, these refrigerators play a crucial role in preserving the efficacy of medical supplies and contributing to scientific advancements.

ARCTIKO's Flexaline is unique in this field with an integrated data logger for extra security.

BENEFITS

- Our products are Energy Star certified, guaranteeing exceptional energy efficiency and reduced environmental impact while maintaining superior performance in temperature-sensitive storage applications.
- Our units come with a built-in data logger, providing precise monitoring of temperature conditions.
- Our products are equipped with a secure key lock, adding an extra layer of protection for valuable contents and preventing unauthorized access.
- ARCTIKO freezers utilize refrigerants that fully comply with Environmental Protection Agency (EPA) and Significant New Alternatives Policy (SNAP) regulations.
- Connect your mobile device to the unit's display via bluetooth to access settings, alarms, temperature graphs, and more.



DATA LOGGER



USB PORT



STATIC COOLING



ADJUSTABLE SHELVES



BENEFITS

- Connect your phone to the unit's display to access settings, alarms, temperature graphs, and more.
- Our ARCTIKO freezers use refrigerants that fully comply with EPA and SNAP regulations.
- Equipped with a secure key lock, our products offer an additional layer of protection for valuable contents, preventing unauthorized access.
- With a built-in data logger, our units provide accurate temperature monitoring, allowing for precise data recording and analysis.
- Our products are Energy Star certified, guaranteeing exceptional energy efficiency and reduced environmental impact.



DATA LOGGER



USB PORT



FORCED AIR COOLING



ADJUSTABLE SHELVES

MODEL	LFE 60	LFE 125	LFE 285	LFE 380	LFE 490	LRE 60	LRE 125	LRE 285	LRE 380	LRE 490
Dimensions exterior WxDxH (mm)	518x598x654	608x610x805	608x610x1525	608x698x1840	780x710x1950	518x598x654	608x610x805	608x610x805	608x698x1840	780x710x1950
Capacity (L)	65 / 65	118 / 118	285 / 285	400 / 400	520 / 491	60 / 60	121 / 109	285 / 265	400 / 395	503 / 488
Temperature range (°C)	-25 to -10	-25 to -10	-25 to -10	-25 to -10	-25 to -10	+2 / +8	+2 / +8	+2 / +8	+2 / +8	+2 / +8
Power consumption (KWH/24)	1.4	1.9	2.3	2.7	3.1	1.4	1.9	2.3	2.7	3.1
Max. no. of shelves (pcs)	2 / 2	3 / 3	6 / 6	7 / 7	7 / 7	2 / 2	3 / 3	6 / 6	7 / 7	7 / 7
Max. load per shelf (kg)	15	20	20	24	31	24	31	15	24	31
Controller	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC	Honker / NTC

BLOOD BANK REFRIGERATORS

Our Blood Bank refrigerators are the best choice for safe storage of blood due to their exceptional temperature uniformity and reliable technology. The double pane glass door offers an optimal overview of the interior and with the telescopic drawers, the blood bags are easily accessible.

The valuable blood is well protected and monitored in our Blood Bank refrigerators, ensuring the high quality of your blood bags at all times. The BBR models come with an advanced controller, an integrated non-manipulative data logger with USB read-out and a chart recorder as standard.

WHAT'S YOUR BACK-UP PLAN, IF YOUR BLOOD BANK REFRIGERATOR FAILS?

Blood is an important resource and the safety of it should not be put at risk. Avoid the problems and headaches caused by an unexpected breakdown of your Blood Bank refrigerator and spend your time on what's more important, your research and treatment of humans.

ARCTIKO has added additional security in the form of a TRUE DUAL™ technology to the BBR-D range, so that the temperature will be maintained even in the event of an unexpected failure.

OPTIMUM SAFETY WHEN STORING BLOOD

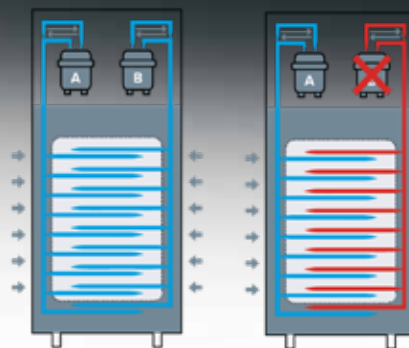
TRUE DUAL™ technology with two separate and independent cooling systems in combination with the advanced ARCTIKO controller, provides extreme security where needed. All important controller features, such as a data logger and alarms, are included as standard.

If one of the independent cooling cycles unexpectedly fails, the other system maintains a stable temperature of +4°C and the blood will stay protected.

It is important to invest in the correct quality equipment also to meet the established regulatory standards. ARCTIKO's quality equipment will reduce the frequency of costly downtime situations.

BENEFITS ON BBR/BBR-D RANGE

- Medical device approved
- TRUE DUAL™ technology (-D range)
- 3-level protection (Dixel, G214 and temperature chart recorder)
- Automatic door closing and door lock
- Forced air cooling
- Telescopic drawers
- Right hand hinged reversible door
- Stainless steel interior
- White exteriorback and forth to your storage area.



COMPLIANT WITH REGULATORY REQUIREMENTS

- Medical device Class IIA according to MDD 93/42/EEC



+4 °C



FORCED AIR COOLING



MEDICAL DEVICE CLASS IIA



AVAILABLE WITH TRUE DUAL™ TECHNOLOGY

MODEL	BBR 100 / -D	BBR 300 / -D	BBR 500 / -D	BBR 700 / -D	BBR 1400 / -D
Dimensions exterior WxDxH (mm)	610x659x790	520x690x1997	620x860x1997	720x860x1997	1440x860x1997
Capacity (L)	94	352	523	628	1381
Temperature range (°C)	+4	+4	+4	+4	+4
Power Consumption (KWH/24)	4.3	6.4	7.7	8.5	10.5
Max. no. of adjustable drawers (pcs)	2	8	8	8	16
Max. load per adjustable drawer (kg)	30	30	30	30	30
Max. no. of blood bags - by standard no. of adj. drawers (pcs)	72	150	240	300	600
Max. no. of blood bags - by max. no. of adj. drawers (pcs)	72	240	384	480	960

AUTOMATED TEMPERATURE MONITORING FOR COLD STORAGE MANAGEMENT

ARCTIKO has collaborated with EasyLog, renowned for its expertise in automated temperature monitoring solutions, to offer meticulously tailored temperature monitoring solutions designed to safeguard temperature-sensitive materials within ARCTIKO's refrigerators and freezers.

EasyLog specializes in providing critical monitoring systems vital for ensuring the safety and integrity of sensitive

materials, including vaccines and medications. EasyLog's IoT temperature monitoring devices continuously gather data, promptly sending out email or SMS alerts for any temperature deviations and offering comprehensive historical reports, assisting organizations striving to meet the stringent quality and safety standards of today's regulatory environment.

AUTOMATED TEMPERATURE MONITORING

For the enhanced safety and preservation of temperature-sensitive materials, the adoption of data loggers, together with the existing temperature monitoring solutions from ARCTIKO in cold storage units, is a recommended practice.

Introducing supplementary devices such as the EL-ARC-01 and EL-ARC-02, adds an extra layer of protection, further enhancing the reliability and safety of your stored items. While the built-in systems found in refrigerators and freezers play a vital role in temperature control, introducing independent data logging solutions adds an extra level

of security. Allowing you to stay in-line with regulatory standards.

Data logging devices are designed to swiftly detect even the slightest temperature fluctuations, ensuring that any deviations are promptly addressed minimizing potential inventory damage. By adopting this dual-layered approach to temperature monitoring, you reinforce both the security and quality control within your cold storage.

EASYLOG MONITORING SOLUTIONS

The EL-ARC-01 and EL-ARC-02 monitoring solutions are designed to elevate the security and reliability of ARCTIKO's refrigeration and freezer units, offering a range of exceptional benefits for users.

The EL-ARC-01 is designed for Low Temperature environments, perfectly suited for temperatures down to -40°C, whereas the EL-ARC-02 excels in Ultra Low Temperature settings, capable of monitoring environments as cold as -150°C. These high-accuracy wireless devices both feature crystal clear LCD screens displaying current,

minimum, and maximum temperatures and come equipped with an alert system including sounder, visual alarm and alarm warning light (included in the EL-ARC-01) to make sure you never miss a temperature breach.

Additionally, these devices are easily calibrated to maintain precise temperature measurement, ensuring accuracy in critical storage environments. Data from these devices is uploaded periodically using a 2.4GHz WiFi network to the EasyLog Cloud.

IOT MONITORING SYSTEMS

The EasyLog Cloud is an invaluable asset for users of EasyLog's wireless data loggers, including the EL-ARC-01 and EL-ARC-02.

This powerful platform enables remote access to critical temperature data and monitoring insights from any location, granting users real-time visibility and control over their temperature-sensitive inventory. Instant email or SMS notifications from the Cloud ensure proactive management

and protection of your inventory. The detailed audit trail functionality further enhances precision to monitoring activity and events.

EasyLog Cloud transforms data management into a streamlined, efficient, and highly accessible process. Users gain a critical advantage in ensuring the integrity of their temperature-controlled environments, enhancing quality assurance and operational efficiency.



EL-ARC-01



COMPATIBLE WITH:

- 10/-40°C Biomedical freezers
- 30/+10°C Combi fridge/freezers
- +1/+10°C Pharmaceutical & Biomedical refrigerators
- +4°C Blood bank refrigerators



EL-ARC-02



COMPATIBLE WITH:

- 150°C Cryogenic freezers
- 86°C Ultra-low temperature freezers
- 86°C Ultra-low temperature freezers (True Dual)
- 30/-60°C Low temperature freezers



BENEFITS

Automated Monitoring: Streamline temperature monitoring processes with automated systems, reducing manual efforts and ensuring consistent oversight.

Notifications and Alerts: Stay informed in real-time with instant email or SMS notifications and alerts, enabling timely response to temperature deviations and potential risks.

Protection of Vaccines and Assets: Safeguard valuable vaccines and assets by maintaining optimal temperature conditions, preserving their efficacy and integrity.

Regulatory Compliance: Meet regulatory requirements effortlessly with comprehensive temperature data logging and reporting capabilities, facilitating adherence to strict industry standards and compliance mandates.

The EL-ARC-01 device comes with a buffer block, perfect for imitating inventory temperatures inside your refrigerator or freezer.



ACCESSORIES



CO₂ / LN₂ BACKUP

VOLTAGE STABILIZERS



CHART RECORDER

CRYO GLOVES



GSM ALARM MODULE

DATALOGGER



VOLTAGE CONVERTERS

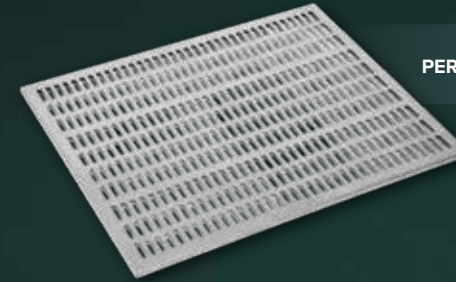


STACKING KIT

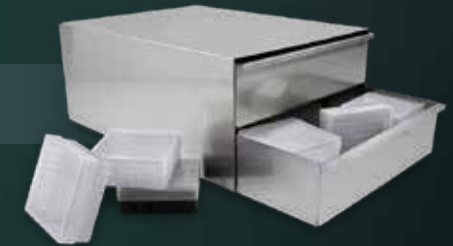


SHELVES & DRAWERS

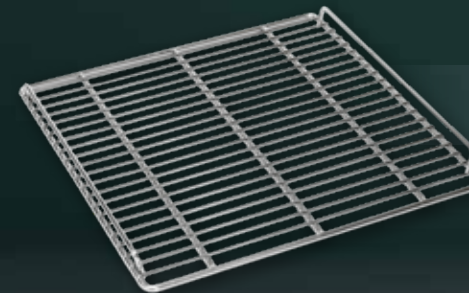
PERFORATED STAINLESS STEEL SHELVES



DRAWER SYSTEM



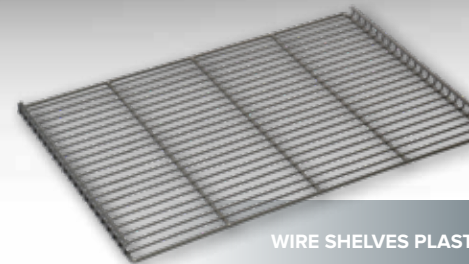
WIRE SHELVES STAINLESS STEEL



WIRE BASKETS FOR CHEST FREEZERS



WIRE SHELVES PLASTIC COATED



STAINLESS STEEL DRAWERS



RACKS, CRYOVIALS & BOXES

ARCTIKO

true cooling specialists

cutting-edge, cooling, and freezing solutions.

Our committed teams personalise services to meet global customer demands, from specification to delivery. We ensure outstanding performance, flexible customer service, and attention to detail.

To learn more about our medical fridges or refrigeration and freezer storage solutions, contact us today. We serve over 100 countries with fast worldwide deliveries from warehouses in Asia, Europe, and the US. The ARCTIKO Team is here to help!

ARCTIKO, a global corporation with offices in the United Kingdom, United States, and Denmark, leads in cooling technology innovation.

With over two decades of cooling technology expertise, we are recognised as professionals in Ultra Low-Temperature freezers, Biomedical freezers and refrigerators, Cryogenic freezers, Blood bank refrigerators, and pharmaceutical solutions.

ARCTIKO is the unrivalled leader in innovative cooling and freezing solutions in healthcare and life sciences. Our dedication to perfection has made us renowned for

For any information on ARCTIKO International, please contact us at: sales@arctiko.com

UPRIGHT SIDE RACK - USR



CHEST FRONT RACK - CFR



UPRIGHT DRAWER RACK - UDR



ARCTIKO BOXES



ARCTIKO SLIM CRYOVIALS



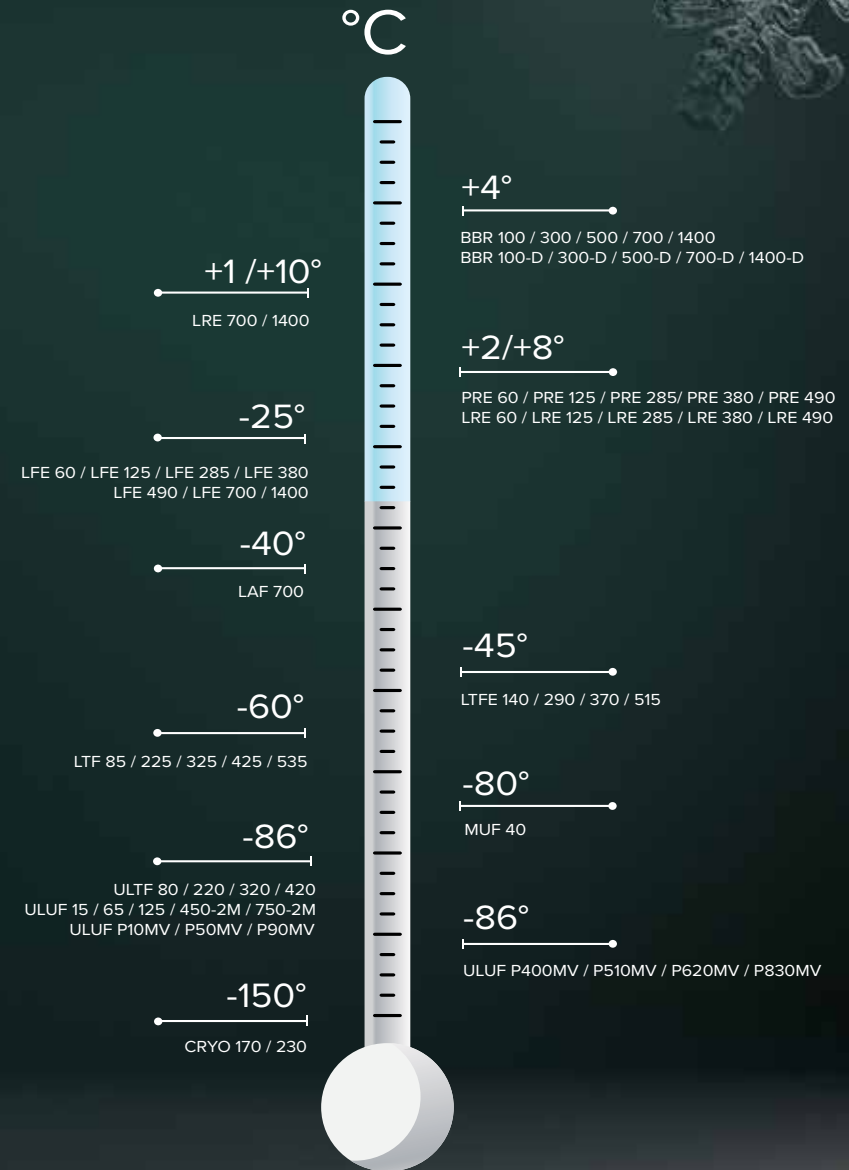
SERVICE & SUPPORT

Our service team has more than 40 years of experience and knowledge in cooling technology and controls. We are able to answer any kind of inquiries you may have regarding:

- ▶ Spare parts ordering/delivering/pricing
- ▶ Product maintenance and servicing
- ▶ Technical and after sales support
- ▶ User and service manual
- ▶ Service training sessions for dealers



PRODUCT OVERVIEW



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arctiko.com

We reserve the right to change specifications without notice.
Subject to confirmation, availability and errors. Check our website for further technical information.

