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BIOMEDICAL FREEZERS AND REFRIGERATORS

ULTRA LOW FREEZERS · LABORATORY, PHARMACEUTICAL AND BLOOD BANK REFRIGERATION

⟳ **ARCTIKO AIMS** to be the first and best choice of partner in delivering advanced and customized cooling and freezing solutions primarily to the health care & life science segments globally.

⟳ **FURTHERMORE**, Arctiko is a flexible player and able to deliver high quality environment friendly leading edge customized solutions.

Lars Ole Jensen
Founder & Chairman of the Board

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When engineering new technologies here at Arctiko, we have the customer in mind. The large temperature display and most user-friendly controls on the market show that once again Arctiko has managed to turn simplicity into an art. Arctiko has the smartest controller available with every possible alarm feature, integrated data logger, contact for remote alarm and USB read out. Naturally, all these features are standard on our units produced with the Arctiko controller.

Today the Arctiko controller is not only the premium of controllers worldwide, but has an upload function. This means that when Arctiko makes a software update or adds additional features, you can update your unit on site. We call this a commitment to our partners and end users, and it means that your unit will always be up to date.

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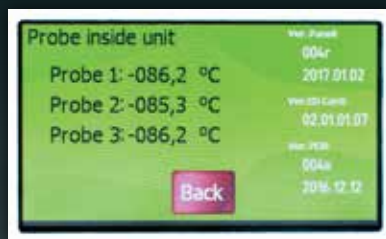
⮂ DATA LOGGING FEATURES

- Integrated data logger
- RS485/RS232 Interface
- Integrated memory for 30 years

⮂ FEATURES

- Micro processor controller with digital display
- Approx. 72 hours battery back up for alarms, loggings and temperature display in case of power cut
- Prepared for GSM alarm
- Prepared for connection of 2 additional probes
- Auto cycle in case of probe failure
- Ambient temperature display
- Direct download of logged data on USB memory stick
- Direct upload of new software via USB memory stick
- 3-level password protected
- Battery level indication
- Display text available in different languages
- Temperature graph

⮂ ALARM FEATURES

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

EXCELLENT COOLING PERFORMANCE

WITH SINGLE COMPRESSOR COOLING SYSTEM

Storing samples at ultra-low temperatures is always a highly sensitive process, because the stored items are most likely high value drugs or irreplaceable samples of DNA, blood, cells, etc.

Patented worldwide, the Arctiko single compressor system offers the best solution in the ultra-low temperature market. With focus on simplicity, we strive to design products that are easy to use and equipped with all 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 -86° C ultra-low temperature freezers. Our true and original single-stage technology system has a unique and simple structure that ensures easy maintenance, less heat dissipation, low energy consumption and noise reduction.

The traditional cascade cooling system that requires two compressors working together has a more complex structure with many parts and a higher failure rate, which will affect the cost of ownership during the lifetime of an ultra-low temperature freezer. Our single compressor system has a more simplified structure of the cooling system and electrical circuit, which reduces the failure rate. A traditional cascade cooling system is built with two cooling cycles working together to achieve -86°C, a high and a low stage cooling cycle. In the event of failure in one of the cycles, both cycles will be out of function, and the more parts, the more risk for failures.

Arctiko's single compressor system is designed as a filterless construction, which prevents problems due to dust build-up on the filter. Dust on the filter will block the air flow through the condenser, which reduces the ability of the ULT to effectively dissipate heat. The air that bypasses the clogged air filter will carry dirt into the condenser, which will increase the energy used in the compressor and generate additional heat for the ambient environment. The single compressor compartment is located in the top of our upright freezers, which 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 the ULT. The first in the world to introduce the single compressor system for ultra-low temperature freezers instead of the cascade system, Arctiko is delighted to see more and more manufacturers starting to implement the single compressor system, which shows that Arctiko has been the true innovative manufacturer worldwide from day one.

DUAL REFRIGERATION SYSTEM

Our dual compressor cooling system with two compressors and two cooling cycles is the solution. Both cycles work independently, which means that in the unlikely event of a failure in one of the cycles, the other system will serve as backup, guaranteeing that your samples will be kept at -86°C; not at -65° C like other brands. The leader in innovative solutions, Arctiko offers you a TRUE DUAL REFRIGERATION system.

ADVANTAGES OF THE ARCTIKO SINGLE COMPRESSOR SYSTEM:

- ⟳ Low energy consumption
- ⟳ Direct cooling in each chamber for greater temperature accuracy (-86°C)
- ⟳ Low temperature difference from top to bottom – excellent temperature stability
- ⟳ Easy maintenance – simple cooling system
- ⟳ Low noise level
- ⟳ Less heat generation
- ⟳ Ergonomically correct design for easy access to all shelves

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VISUALIZATION OF
THE TWO TECHNOLOGIES
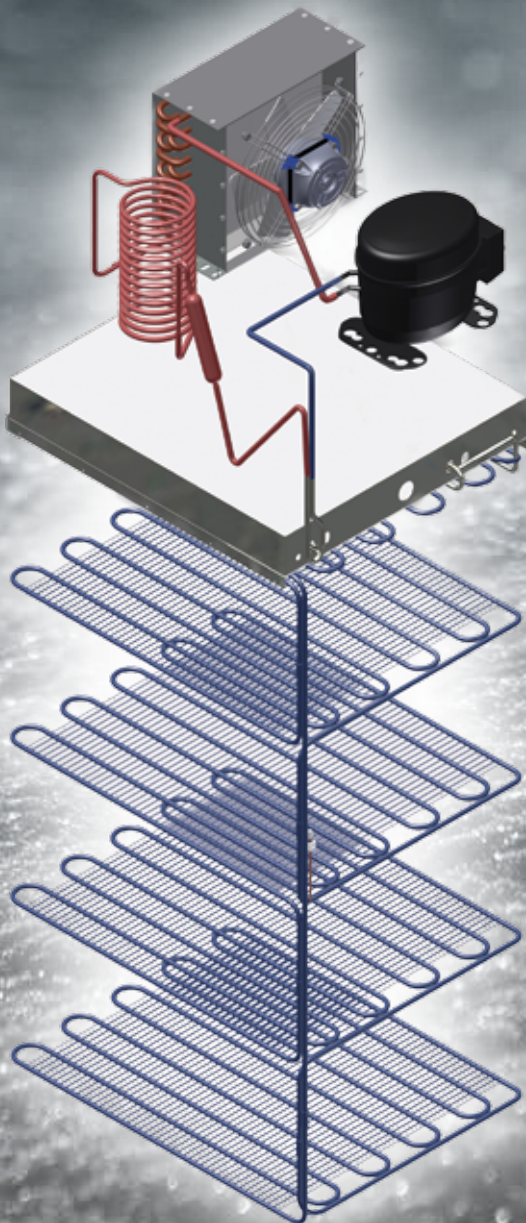
COMPETITOR CASCADE SYSTEM

ARCTIKO SINGLE COMPRESSOR SYSTEM

CRYOGENIC FREEZERS

-150°C

INNOVATION FROM ARCTIKO

Arctiko is proud to present the new innovative cryogenic freezer for long-term preservation of cells and tissues, for example. 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 economic alternative. A cryogenic freezer eliminates the continous cost of LN2 storage maintenance and avoids hazardous operation conditions.

LOWEST ENERGY CONSUMPTION IN THE WORLD

Arctiko has done it again! The new range of -150°C cryogenic freezers has the lowest energy consumption in the world. At less than 34 kwh/24h, no other product can touch this very low energy consumption. This extremely low ownership cost will no doubt have a noticeable impact on your running costs.

SECURITY, NEVER BEEN BETTER

The new range of -150°C cryogenic freezers has our dual refrigeration system that gives you the best security for your samples. If one of the refrigeration systems should fail, the other refrigeration system will keep the temperature at -130°C until service is provided.

CRYO 170

TEMPERATURE °C

AMBIENT: 30°C, 3 PHASES 400V, 50/60HZ
SENSOR POSITION: MIDDLE WITH NO LOAD

Pull-up

Pull-down

TIME

CRYO 230

TEMPERATURE °C

AMBIENT: 30°C, 3 PHASES 400V, 50/60HZ
SENSOR POSITION: MIDDLE WITH NO LOAD

Pull-up

Pull-down

TIME

TEMPERATURE °C

-150°C
Normal
operation

One system is down

USUAL CASCADE SYSTEM
Temperature rises gradually

DOUBLE COOLING SYSTEM
Inside temperature is still kept

TIME

Image of temperature rise when one system is down - Usual cascade system vs. dual cooling system

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![Temperature chart recorder]

Temperature chart recorder

![Castors and levelling feet in the front]

Castors and levelling feet in the front

![Key lock on lid]

Key lock on lid

![Controller]

Controller

![Racks and boxes (optional)]

Racks and boxes (optional)

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Arctiko has expanded the product portfolio with two new cryogenic freezers. The CRYO range features a dual cooling system comprised by two independent systems offering double security. In the unlikely event that one cooling system should fail, the second cooling system will maintain the freezer at -130°C. The cryogenic freezers offer a wide variety of research and long-term storage applications for low temperature scientific experiments, preservation of cells, DNA, bone material, bacteria, etc. With its extreme cooling precision and superior features, the CRYO range is the perfect choice for testing special material, ideal for hospitals, university laboratories, military industry or sanitation stations.

DUAL INDEPENDENT COOLING SYSTEM

LOW ENERGY CONSUMPTION

LN2 BACKUP OPTIONAL

FEATURES ON CRYO 170/230

• Digital display
• Dual cooling system for double security
• Extremely low noise level
• Low energy consumption
• Visual and acoustic alarm
• High and low temperature alarm
• Power failure alarm
• Contact for remote alarm
• Temperature chart recorder
• Battery back up
• Porthole for external temperature probe
• 100 % CFC / HCFC free
• LN2 back up (optional)

CONTROLLER FEATURES

• Micro processor controller
• Acoustic and visual alarm
• Power failure alarm
• Adjustable high/low temperature alarm
• Probe failure alarm
• Contact for remote alarm
• 48 hours battery back up (for acoustic alarm in case of power cut)

MODEL	CRYO 170	CRYO 230
Item code	DAI 0197	DAI 0198
Dimensions exterior W×D×H (mm)	1420x960x1090	1600x960x1090
Capacity (L)	169	230
Temperature range (ºC)	-150/-140	-150/-140
Power supply (V)	3×400	3×400
Frequency (Hz)	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

-86°C

WE CARE ABOUT YOUR SAMPLES AND THE ENVIRONMENT

Therefore, we have created the most innovative and sophisticated solutions for your samples with our range of ultra-low temperature freezers. The family range has been expanded to a total of 20 different models and sizes from a capacity of only 7 litres up to 826 litres to cover your exact need for storage capacity. We can supply exactly what you need in capacity, not more not less, because we also care about the environment. Although we already offer units with the lowest energy consumption worldwide, we can now also give you a wide choice in size to avoid you having an ultra-low temperature freezer of which you only use 20-30% capacity with the rest a waste of energy and an increase in your environmental footprint.

Famous worldwide, the Arctiko single compressor system gives you additional savings in energy and space. Here at Arctiko we are pleased to see more manufacturers use single compressor systems in their -86°C ULT manufacturing. This only shows that Arctiko was right all along about using the single compressor versus cascade system for all the obvious benefits such as energy savings, simple and easy service and lower noise level.

All our -86°C ULT freezers have inner doors to protect against heat entering each compartment. This feature also makes it easier for users to share a freezer with colleagues without interfering with each other's compartments.

All these points have impact on the cost of ownership, which is why with our extended ULUF range, Arctiko is without doubt the leading innovative manufacturer of -86° ULT freezers worldwide.

We care about your samples and their security, which is why all the products in our ULUF and ULTF range have our advanced high-end controller. The controller provides all the features needed for a professional ULT freezer, such as data logger with 30+ years of memory, different interfaces, different password levels, many alarm features, and 72-hour battery backup.

With Arctiko, you get more than required in terms of security, logging, and alarm features. Simply because we care about your valuable samples.

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STANDARD FEATURES:

- ⮌ Single compressor technology
- ⮌ Direct cooling for higher temperature uniformity
- ⮌ Excellent temperature stability
- ⮌ Filterless construction
- ⮌ Low energy consumption
- ⮌ Low noise level
- ⮌ Low heat dissipation
- ⮌ Insulated inner doors
- ⮌ Ergonomical correct height of cabinets
- ⮌ Heated door frame for easy door opening
- ⮌ Controller with various language settings
- ⮌ Heated vacuum valve
- ⮌ Key lock on door
- ⮌ 100 % HCFC / CFC free
- ⮌ Castors

SINGLE COMPRESSOR TECHNOLOGY

Single compressor technology
(Filterless construction)

Arctiko G214 Controller
Read page 4-5

LED lights

Heated door frame

Inner doors

Evaporator freezing shelves

Easy to use door lock

Racks and boxes (optional)
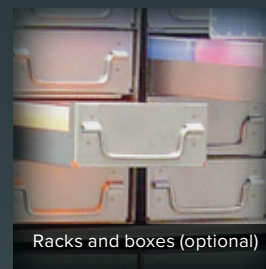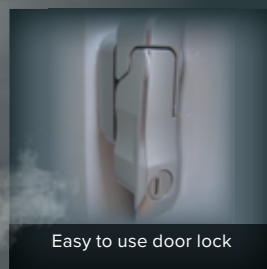
CO2
BACKUP
AVAILABLE

SINGLE
COMPRESSOR
TECHNOLOGY

GSM
ALARM
AVAILABLE

MODEL	ULUF 15	ULUF 65
Item code (white exte rior)	DAI 1390	DAI 1418
Dimensions exterior W×D×H (mm)	400×630×665	600×700×810
Net. Capacity (L)	7	54
Temperature range (°C)	-86/-40	-86/-40
Power supply (V)	230	230
Frequency (Hz)	50/60	50/60

We reserve the right to change specifications without notice.
Subject to confirmation, availability and errors.

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BENCH TOP & UNDER COUNTER FREEZERS

We are passionate about the products in our ULUF -86°C range that offer the best in ultra-low temperature freezing. Once again, we have set new standards with the most user-friendly controller on the market. All features such as alarms and data logging functions are always included as standard. Models in the range starting from a volume of 7 litres all the way up to 826 litres. The ULUF range is now also available with an exterior height of only two meters to facilitate the installation. The ULUF -86°C series is produced with the true and original single compressor technology and offers the greatest temperature stability worldwide!

FEATURES ON ULUF -86°C RANGE

- ARCTIKO Controller G214
- Low energy consumption
- Low noise level
- Low heat dissipation
- Insulated inner doors
- Castors
- Door key lock

- Ergonomic loading
- Heated door frame
- Heated vacuum valve
- 100% HCFC/CFC free
- Porthole for external temperature probes (Ø 12mm)
- Filterless construction

ULUF 15

ULUF 65

ULUF 125

UPRIGHT FREEZERS

ULUF 450

ULUF 550

ULUF 850

MODEL	ULUF 125	ULUF 450	ULUF 450-2M	ULUF 550	ULUF 550-2M	ULUF 750	ULUF 750-2M	ULUF 850	ULUF 850-2M
Item code (white exterior)	DAI 1417	DAI 1408	DAI 1414	DAI 1375	DAI 1377	DAI 1416	DAI 1383	DAI 1411	DAI 1403
Dimensions exterior W×D×H (mm)	950×725×810	720×885×2089	720×885×1990	920×885×2089	920x885x1990	1030×885×2089	1030x885x1990	1492×885×2089	1492×885×1990
Net. Capacity (L)	94	413	393	585	556	680	642	413/413	393/393
Temperature range (°C)	-86/-40	-86/-40	-86/-40	-86/-40	-86/-40	-86/-40	-86/-40	-86/-40	-86/-40
Power supply (V)	230	230	230	230	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60

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ULTRA LOW TEMPERATURE UPRIGHT FREEZERS DOUBLE SECURITY
-90°C

-90°C DUAL REFRIGERATION SYSTEM

No other manufacturer can touch the performance of the Arctiko -90°C ULUF range of dual refrigeration system freezers providing the utmost security within -86°C ULT freezers worldwide. Not only is pull-down time less than three hours, but extra security measures have been incorporated.

Thanks to the superior single compressor system used in the entire Arctiko ULUF range, in the event of any failure with one of the refrigeration systems, the other system will still maintain the temperature at -86°C. Thus your samples will not be affected by any challenge caused by an unexpected failure until service is provided.

IF YOU ADD THE OPTIONAL CO2 BACK-UP SYSTEM, YOU WILL HAVE THE SAFEST ULT FREEZER IN THE WORLD!

In addition to all these safety features, the Arctiko controller offers integrated data logger with memory for 30+ years and different interfaces with several different alarms to ensure that your requirements for documentation and safety regulations are fulfilled to the maximum. Even though the DIN norm only requires a 12-hour back-up battery for the controller, Arctiko has raised the bar by offering a 72-hour back-up battery as standard.

When you choose an Arctiko product, you get more than required from security, logging, and alarm features because we care about your valuable samples.

TEMPERATURE °C

| | -80°C Normal operation | Failure of one cooling system | STANDARD COOLING SYSTEM (Temperature rises gradually) |

0
-10
-20
-30
-40
-50
-60
-70
-80
-90

DUAL COOLING SYSTEM
Inside temperature is still kept around -80°C

TIME

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
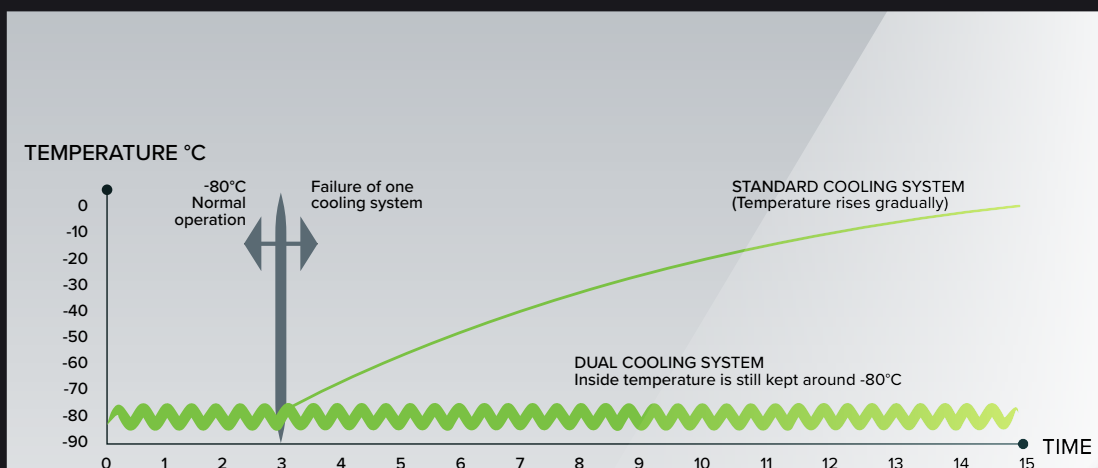
The dual refrigeration -90°C ULUF range has many storage applications, such as for tissue, bone marrow, cord blood, specimens, stem cells and sperm.

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Single compressor technology (Filterless construction)

Arctiko G214 Controller Read page 4-5

LED lights

Heated door frame

Inner doors

Evaporator freezing shelves

Easy to use door lock

Racks and boxes (optional)

Arctiko is proud to present a true dual refrigeration system. With two separate cooling systems, this range will add a new dimension to your security. In the unlikely event that one system should fail, the freezer will still maintain -86°C until the problem is solved.
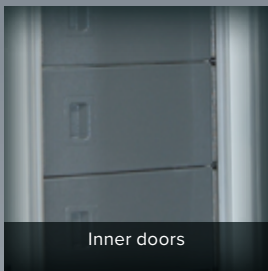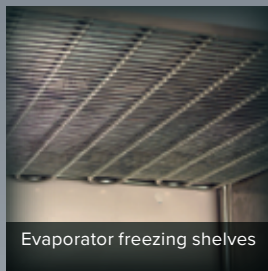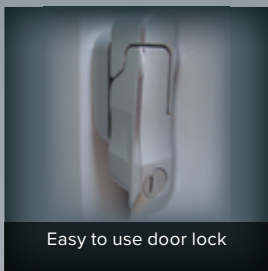
ULUF 490

FEATURES ON ULUF 490/590/890

- Dual refrigeration system
- ARCTIKO Controller G214
- Low energy consumption
- Low noise level
- Low heat dissipation
- Insulated inner doors
- Castors
- Door key lock
- Ergonomic loading
- Heated door frame
- Heated vacuum valve
- 100% HCFC/CFC free
- Porthole for external temperature probes (Ø 12mm)
- Filterless construction

REACHING -90°C IN 3 HOURS!

OPTIONAL WATER COOLING SYSTEM

CO2 BACKUP AVAILABLE

GSM ALARM AVAILABLE

ULUF 890

MODEL	ULUF 490	ULUF 590-2M	ULUF 890
Item code (white exterior)	DAI 1405	DAI 1378	DAI 1415
Dimensions exterior W×D×H (mm)	720×885×2089	920×885×1990	1492×885×2089
Capacity (L)	393	556	393/393
Temperature range (ºC)	-90/-40	-90/-40	-90/-40
Power supply (V)	230	230	230
Frequency (Hz)	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

ULTRA LOW TEMPERATURE CHEST FREEZERS

-86°C

Single compressor technology
(Filterless construction)

Arctiko G214 Controller
Read page 4-5

Key lock on handle

Sub lids

Racks and boxes (optional)

Baskets (optional)

CO2
BACKUP
AVAILABLE

GSM
ALARM
AVAILABLE

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ULTRA LOW TEMPERATURE CHEST FREEZERS

-86°C

The ULTF range shows that high performance freezing with focus on low energy consumption is the future. The range has been updated with our advanced Arctiko controller which ensures that all alarm and data logging features are included as standard. The ULTF range is produced with the true and original single compressor technology which ensures the lowest noise level available.

FEATURES ON ULTF RANGE

- ARCTIKO Controller G214
- Single compressor
- Low energy consumption
- Low noise level (<50dBa)
- Low heat dissipation
- 100% HCFC/CFC free
- Sub lids
- Key lock on lid
- Porthole for external temperature probes (Ø 12mm)
- Contact for remote alarm
- Filterless construction

SINGLE COMPRESSOR TECHNOLOGY

ULTF 420

ULTF 320

ULTF 220

ULTF 80

you save
52%
energy

KW/24H
20
15
10
5

ULTF 80 — Competitor

you save
52%
energy

KW/24H
20
15
10
5

ULTF 320 — Competitor

you save
38%
energy

KW/24H
20
15
10
5

ULTF 420 — Competitor
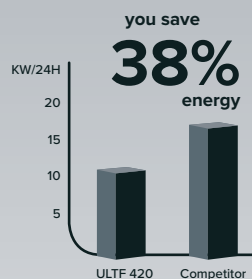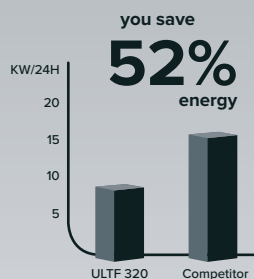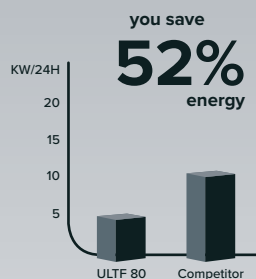
MODEL	ULTF 80	ULTF 220	ULTF 320	ULTF 420
Item code	DAI 0200	DAI 0213	DAI 0205	DAI 0210
Dimensions exterior W×D×H (mm)	552×648×850	920×695×885	1262×698×885	1562×698×885
Capacity (L)	71	189	284	368
Temperature range (°C)	-86/-40	-86/-40	-86/-40	-86/-40
Power supply (V)	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

BENCH TOP / UNDER COUNTER FREEZER

-80°C

The MUF 40 can be used as either a bench-top or undercounter model. The compact design and low noise level make it a perfect storage solution in your laboratory.

MUF 40

- Single compressor
- Low energy consumption
- Low noise level
- Low heat dissipation
- Key lock on door
- Shelf
- Feet
- VIP panels
- Door key lock
- Porthole for external probe

VIP PANELS

CO2 BACK UP AVAILABLE

GSM ALARM AVAILABLE

Adjustable shelf height

Key lock for added security
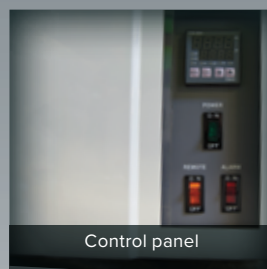
Control panel

MUF 40

CONTROLLER FEATURES

- Digital display
- Approx. 48 hours battery back up (only for acoustic alarm)
- Visual and acoustic alarms
- High/low temp. alarm
- Power failure alarm
- Contact for remote alarm

MODEL	MUF 40
Item code	DAI 1410
Dimensions exterior W×D×H (mm)	495×660×680
Capacity (L)	35
Temperature range (°C)	-80/-60
Power supply (V)	230
Frequency (Hz)	50/60

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PORTABLE -80°C FREEZER

-80°C

Keep your eye on what's important. The DP-80, designed for temporary storage, ensures direct access to the samples at your desk. The Cryo Porter is based on Stirling technology that eliminates compressor and refrigerant, making it the most environmentally safe product of its kind.

Compartment for one aluminum block

Controller with digital display

PORTABLE FREEZER
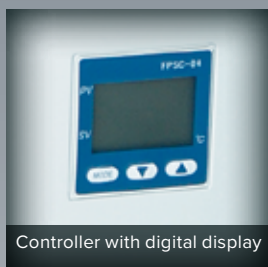
DP-80 cryo porter

REMEMBER THE ALUMINUM BLOCK

ITEM CODE NAME	PRODUCT	DESCRIPTION	DIAMETER OF WELLS
DAI 1421	DPB-0296:	96 wells for PCR-tubes 0,2 ml	Ø: 0,6 mm
DAI 1422	DPB-0548:	48 wells for PCR-tubes 0,5 ml	Ø: 0,8 mm
DAI 1423	DPB-1548:	48 wells for Sample-tubes 1,5 ml	Ø: 11,0 mm
DAI 1424	DPB-1840:	40 wells for Vials, Cryotubes 1,8 ml	Ø: 12,8 mm
DAI 1425	DPB-2040:	40 wells, Cryotubes 2,0 ml	Ø: 10,8 mm
DAI 1427	DPB-0001:	One large compartment	

DP-80 CRYO PORTER

- Aluminium blocks for quick freezing of samples (must be ordered separately)
- Microprocessor controller with digital display
- Simple & easy operation
- Temp. stability +/- 0,2°C
- Safety system for over current and system failure
- AC (230V) and DC (12V) connection cables

DPB-1548

DPB-0001

110 Vac / 230 Vac

12 Vdc

MODEL	DP-80
Item code	DAI 1420
Dimensions exterior W×D×H (mm)	230×262×390
Capacity (L)	1 alu. block
Temperature range (°C)	-80/0
Power supply (V)	12 Vdc / 110 Vac / 230 Vac
Frequency (Hz)	50/60

We reserve the right to change specifications without notice.
Subject to confirmation, availability and errors.
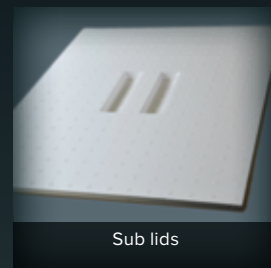
LOW TEMPERATURE CHEST FREEZERS

-60°C

INNOVATION FROM ARCTIKO

Our LTF/LTFE range of low temperature chest freezers provides reliable low temperature freezing and high temperature uniformity to ensure temperature stability and low power consumption.

Even when opened multiple times throughout the day, the LTF/LTFE horizontal freezers will store your samples under optimal conditions. Cold air falls and stays inside the chamber and hot air rises and stays outside the chamber. Consequently, if you need to open the freezers often, the LTF/LTFE range is the best solution for your cold storage.

Digital display, alarms, contact for remote monitoring and baskets are some of the standard features of the LTF/LTFE range. They help provide the security needed for safe sample storage at these temperatures.

The capacity of the LTF/LTFE range extends from 71 to 476 litres.

SINGLE COMPRESSOR

LOW NOISE LEVEL

LOW ENERGY CONSUMPTION
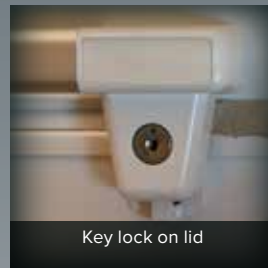
Key lock on lid

Temperature controller

Racks and boxes (optional)

LTF 85

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LOW TEMPERATURE CHEST FREEZERS
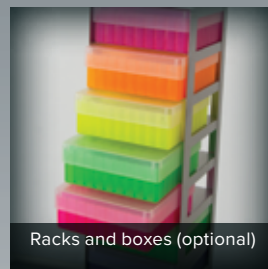
-60°C / -45°C

As a synonym for security, the LTF (-60°c) and LTFE (-45°c) range ensure reliable low temperature freezing and high temperature uniformity. Standard features include digital display, alarms, contact for remote alarm and castors.

CONTROLLER FEATURES

• Digital display
• Visual and acoustic alarm
• Adjustable high/low temperature alarm
• Contact for remote alarm
• Probe failure alarm

FEATURES ON LTF/LTFE RANGE

• Single compressor
• Low energy consumption
• Low noise level
• 100% HCFC/CFC free
• Key lock and baskets
• Eco friendly refrigerant

LTF 535 / LTFE 515

LTF 425 / LTFE 370

LTF 325 / LTFE 290

LTF 225 / LTFE 140

| MODEL	LTF 85	LTF 225	LTF 325	LTF 425	LTF 535	LTFE 140	LTFE 290	LTFE 370	LTFE 515
Item code	DAI 0101	DAI 0126	DAI 0111	DAI 0116	DAI 0121	DAI 1600	DAI 1605	DAI 1610	DAI 1615
Dimensions exterior W×D×H (mm)	552×648×850	720×695×885	1262×698×885	1562×698×885	1662×758×890	720x695x885	1262×698×885	1562×698×885	1662×758×890
Capacity (L)	71	133	284	368	476	133	284	368	476
Temperature range (ºC)	-60/-30	-60/-30	-60/-30	-60/-30	-60/-30	-45/-10	-45/-10	-45/-10	-45/-10
Power supply (V)	230	230	230	230	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

Single compressor technology
(Filterless construction)

Arctiko G214 Controller
Read page 4-5

LED lights

Heated door frame

Inner doors

Evaporator freezing shelves

Easy to use door lock

Racks and boxes (optional)

CO2
BACKUP
AVAILABLE

GSM
ALARM
AVAILABLE

ARCTIKO
true cooling specialists
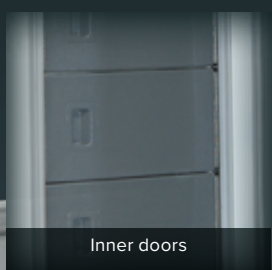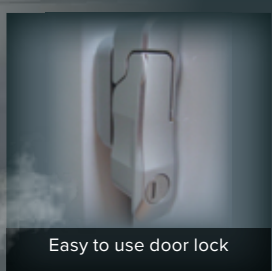
-40°C

BENCHTOP & UNDER COUNTER FREEZERS

We are passionate about our products in the ULUF -40°C range, which offer the best in low temperature freezing. Once again, we set new standards with the most user-friendly controller on the market. Alarms and data logging functions are always included as standard. The Arctiko ULUF -40°C range offers the greatest temperature stability worldwide!

FEATURES ON ULUF -40°C RANGE

• ARCTIKO Controller G214
• Low energy consumption
• Low noise level
• Low heat dissipation
• Insulated inner doors
• Castors
• Door key lock
• Ergonomic loading
• Heated door frame
• Heated vacuum valve
• 100% HCFC/CFC free
• Porthole for external temperature probes
• Filterless construction

ULUF 120

ULUF 60

UPRIGHT FREEZERS

ULUF 500

ULUF 700

ULUF 800

MODEL	ULUF 60	ULUF 120	ULUF 400	ULUF 500	ULUF 700	ULUF 800
Item code (white exterior)	DAI 1419	DAI 1395	DAI 1407	DAI 1370	DAI 1400	DAI 1409
Dimensions exterior W×D×H (mm)	600×700×810	950×725×810	720×885×2089	920×871×2089	1030×885×2089	1492×885×2089
Capacity (L)	54	94	413	585	680	413/413
Temperature range (ºC)	-40/-20	-40/-20	-40/-20	-40/-20	-40/-20	-40/-20
Power supply (V)	230	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

BIOMEDICAL STORAGE SOLUTIONS

Arctiko biomedical freezers and refrigerators store and secure your samples with outstanding cooling reliability and performance. Arctiko has combined the high quality cooling performance created by air-forced cooling circulation 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, need for temperature and alarm surveillance, documentation and validation, making Arctiko's Biomedical range the number one solution for biomedical storage.

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

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

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

The Arctiko Biomedical range is also offered as an ATEX-approved solution for storing flammable material. Petrol and diesel refineries often need to undertake quality testing of petrol and land diesel, and these tests are conducted in an on-site laboratory.

The Arctiko Biomedical range offers a wide variety of solutions from our 94 litre under bench models up to 1361 litres 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.

ARCTIKO
true cooling specialists
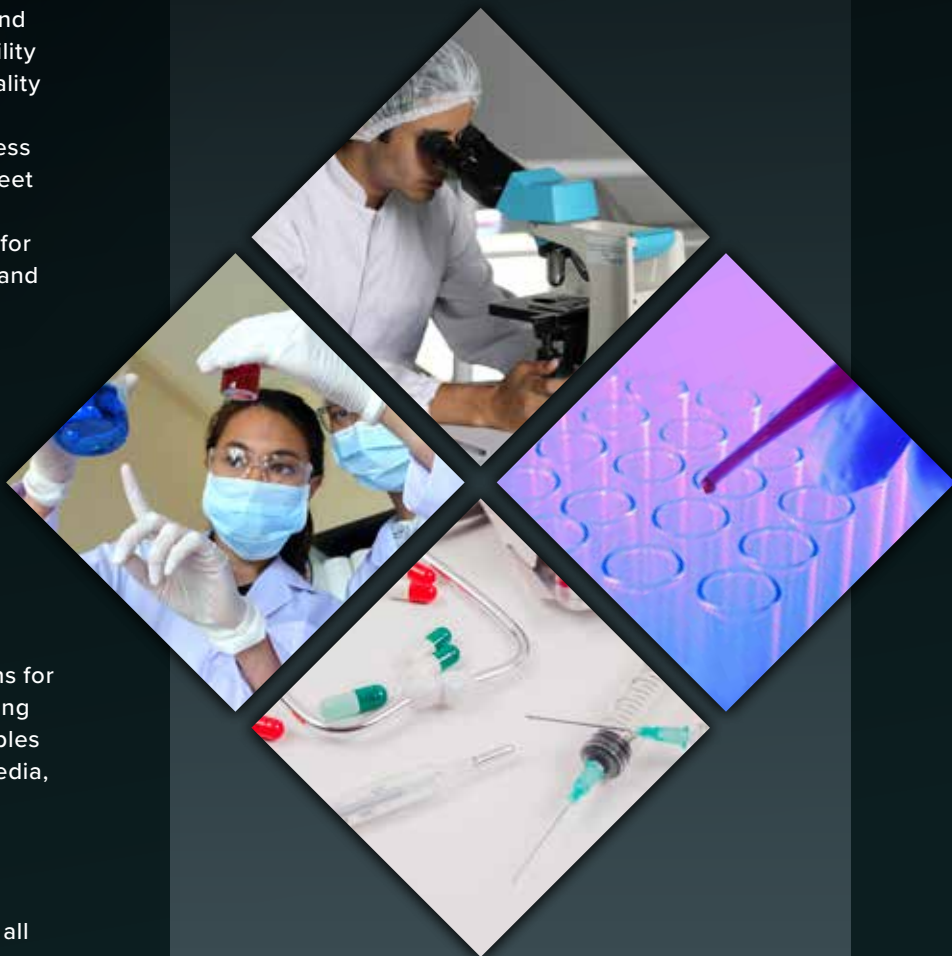
The latest technologies united in one freezer: the Arctiko biomedical range. User friendly and produced with attention to detail, the LF range comes in different sizes and has many features offered as standard. Every product is built according to the same strict guidelines.
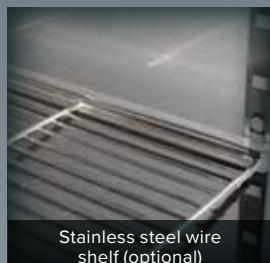
Stainless steel wire shelf (optional)
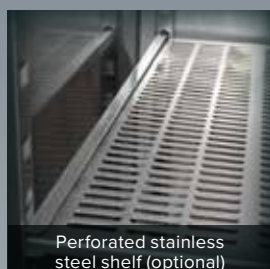
Arctiko G214 Controller Read page 4-5

Perforated stainless steel shelf (optional)

Stainless steel drawer (optional)

Our universal shelf and drawer guides allow you to mix shelves and drawers for flexible storage in each of our biomedical refrigerators and freezers.

FEATURES ON LF RANGE

- ARCTIKO Controller G214
- White or stainless steel exterior
- Stainless steel interior
- Automatic door closing
- Air forced cooling
- Adjustable shelves
- Castors
- Key lock
- Reversible door
- Automatic defrost

AVAILABLE WITH STAINLESS STEEL EXTERIOR

OPTIONAL SPARK FREE INTERIOR ATEX approved according to EN 60079-15 category 3, zone 2. CE EX 11-/3 G

UNDER COUNTER MODEL

LF 100

LF 660-2

LF 700 / LAF 700

LF 1400

LF 300

MODEL	LF 100	LF 300	LF 500	LF 660-2	LF 700	LAF 700	LF 1400
Item code (white exterior)	DAI 0285	DAI 0225	DAI 0245	DAI 0295	DAI 0255	DAI 0290	DAI 0275
Item code (stainless steel exterior)	DAI 0286	DAI 0226	DAI 0246	DAI 0296	DAI 0256	DAI 0291	DAI 0276
Item code (spark free interior – ATEX)	DAI 0285/AT	DAI 0225/AT	DAI 0245/AT	DAI 0295/AT	-	DAI 0290/AT	DAI 0275/AT
Dimensions exterior W×D×H (mm)	610×659×790	520×700×1997	620×860×1997	720×860×1997	720×860×1997	740×870×2017	1440×860×1997
Capacity (L)	94	346	515	288/288	618	618	1361
Temperature range (°C)	-30/-10	-30/-10	-30/-10	-30/-10	-30/-10	-40/-10	-30/-10
Power supply (V)	230	230	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.
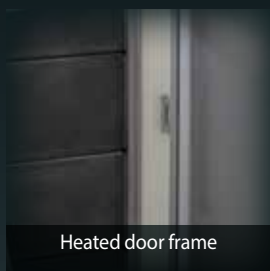
BIOMEDICAL GLASS DOOR FREEZERS

-23/-10°C

Offering outstanding cooling performance, glass door freezers from Arctiko allow the best overview of the inside of the units. The advanced Arctiko controller ensures reliable temperatures and comes equipped with many alarms as standard.

Our universal shelf and drawer guides allow you to mix shelves and drawers for flexible storage in each of our biomedical refrigerators and freezers.

Stainless steel wire shelf (optional)

Arctiko G214 Controller Read page 4-5

FEATURES ON PF RANGE

- ARCTIKO Controller G214
- White or stainless steel exterior
- Stainless steel interior
- Automatic door closing
- Air forced cooling
- Adjustable shelves
- Castors
- Key lock
- Reversible door
- Glass door
- LED Light
- Automatic defrost

AVAILABLE WITH STAINLESS STEEL EXTERIOR

OPTIONAL SPARK FREE INTERIOR ATEX approved according to EN 60079-15 category 3, zone 2. CE EX II-/3 G
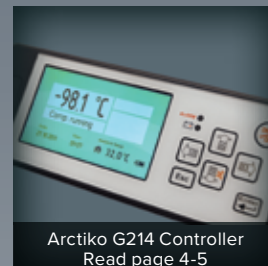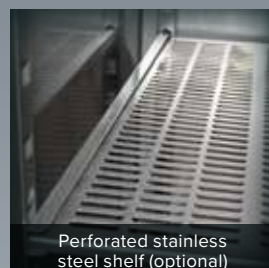
Perforated stainless steel shelf (optional)

Stainless steel drawer (optional)

UNDER COUNTER MODEL

PF 100

PF 1400

PF 500

PF 700

MODEL	PF 100	PF 300	PF 500	PF 700	PF 1400
Item code (white exterior)	DAI 0900	DAI 0890	DAI 0857	DAI 0865	DAI 0875
Item code (stainless steel exterior)	DAI 0901	DAI 0891	DAI 0856	DAI 0866	DAI 0876
Item code (spark free interior - ATEX)	DAI 0900/AT	DAI 0890/AT	DAI 0857/AT	DAI 0865/AT	DAI 0875/AT
Dimensions exterior W×D×H (mm)	610×659×790	520×690×1997	620×860×1997	720×860×1997	1440×860×1997
Capacity (L)	94	352	523	628	1381
Temperature range (°C)	-23/-10	-23/-10	-23/-10	-23/-10	-23/-10
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

The LFF and LFFG fridge/freezer ranges offer flexible storage at both positive and negative temperatures. All products in both ranges are equipped with our advanced Arctiko controller designed with focus on details and user friendliness, with all necessary features provided as standard. The LFFG models are designed with a glass door on the fridge section for a quick overview of the stored items.

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BIOMEDICAL COMBI FRIDGE/FREEZERS

+1/+10°C
-30/-10°C
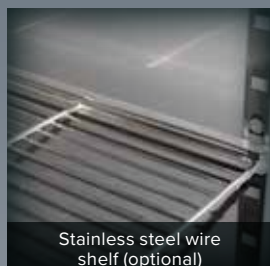
27

Stainless steel wire shelf (optional)

Arctiko G214 Controller Read page 4-5
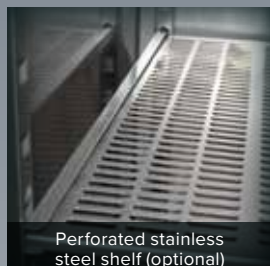
Perforated stainless steel shelf (optional)
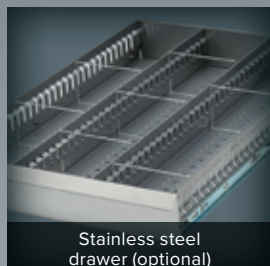
Stainless steel drawer (optional)

OPTIONAL SPARK FREE INTERIOR ATEX approved according to EN 60079-15 category 3, zone 2. CE EX 11-/3 G

AVAILABLE WITH STAINLESS STEEL EXTERIOR

Our universal shelf and drawer guides allow you to mix shelves and drawers for flexible storage in each of our biomedical refrigerators and freezers.

FEATURES ON LFF/LFFG RANGE

• ARCTIKO Controller G214
• White or stainless steel exterior
• Stainless steel interior
• Automatic door closing
• Air forced cooling
• Adjustable shelves
• Castors
• Door key lock
• Reversible door
• Automatic defrost

LFF 270

LFF 660

LFFG 660

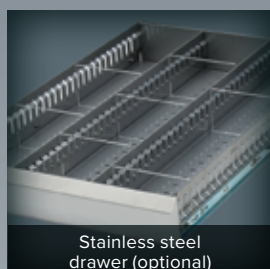| MODEL	LFF 270	LFF 660	LFFG 270	LFFG 660
Item code (white exterior)	DAI 0235	DAI 0265	DAI 0325	DAI 0330
Item code (stainless steel exterior)	DAI 0236	DAI 0266	DAI 0326	DAI 0331
Item code (spark free interior – ATEX)	DAI 0235/AT	DAI 0265/AT	DAI 0325/AT	DAI 0330/AT
Dimensions exterior WxDxH (mm)	520x700x1997	720x860x1997	520x700x1997	720x860x1997
Capacity (L)	161 / 161	288 / 288	161 / 161	288 / 288
Temperature range (°C)	+1/+10 -30/-10	+1/+10 -30/-10	+1/+10 -30/-10	+1/+10 -30/-10
Power supply (V)	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

BIOMEDICAL REFRIGERATORS

+1/+10°C

Our LR range offers high temperature uniformity and stability and is produced with attention to detail as well as user-friendly features. Products are available with different capacities and offer you the best in technology and reliability.

FEATURES ON LR RANGE

• ARCTIKO Controller G214
• White or stainless steel exterior
• Stainless steel interior
• Automatic door closing
• Air forced cooling
• Adjustable shelves
• Castors
• Key lock
• Reversible door

Stainless steel wire shelf (optional)

Arctiko G214 Controller Read page 4-5

Perforated stainless steel shelf (optional)

Stainless steel drawer (optional)

Our universal shelf and drawer guides allow you to mix shelves and drawers for flexible storage in each of our biomedical refrigerators and freezers.

AVAILABLE WITH STAINLESS STEEL EXTERIOR

OPTIONAL SPARK FREE INTERIOR ATEX approved according to EN 60079-15 category 3, zone 2. CE EX 11-/3 G

UNDER COUNTER MODEL

LR 100

LR 1400

LR 660-2

LR 300

MODEL	LR 100	LR 270-2	LR 300	LR 500	LR 660-2	LR 700	LR 1400
Item code (white exterior)	DAI 0280	DAI 0230	DAI 0220	DAI 0240	DAI 0260	DAI 0250	DAI 0270
Item code (stainless steel exterior)	DAI 0281	DAI 0231	DAI 0221	DAI 0241	DAI 0261	DAI 0251	DAI 0271
Item code (spark free interior – ATEX)	DAI 0280/AT	DAI 0230/AT	DAI 0220/AT	DAI 0240/AT	DAI 0260/AT	DAI 0250/AT	DAI 0270/AT
Dimensions exterior W×D×H (mm)	610×659×790	520×700×1997	520×700×1997	620×860×1997	720×860×1997	720×860×1997	1440×860×1997
Capacity (L)	94	161/161	346	515	288/288	618	1361
Temperature range (ºC)	+1/+10	+1/+10	+1/+10	+1/+10	+1/+10	+1/+10	+1/+10
Power supply (V)	230	161 / 161	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.
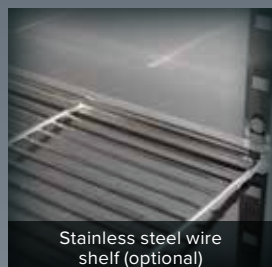
Stainless steel wire shelf (optional)

Arctiko G214 Controller Read page 4-5
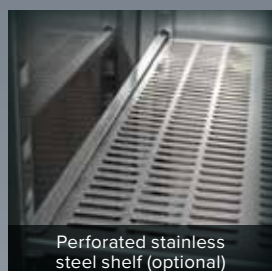
Perforated stainless steel shelf (optional)

Stainless steel drawer (optional)

Our universal shelf and drawer guides allow you to mix shelves and drawers for flexible storage in each of our biomedical refrigerators and freezers.

Offering outstanding cooling performance, glass door freezers from Arctiko allow the best overview of the inside of the units. The advanced Arctiko controller ensures reliable temperatures and comes equipped with many alarms as standard.

FEATURES ON PR RANGE

- ARCTIKO Controller G214
- White or stainless steel exterior
- Stainless steel interior
- Automatic door closing
- Air forced cooling
- Adjustable shelves
- Castors
- Key lock on door
- Reversible door
- Glass door
- LED light

AVAILABLE WITH STAINLESS STEEL EXTERIOR

Ex

OPTIONAL SPARK FREE INTERIOR ATEX approved according to EN 60079-15 category 3, zone 2. CE EX 11-/3 G

UNDER COUNTER MODEL

PR 500

PR 1400

PR 700

PR 100

| MODEL	PR 100	PR 300	PR 500	PR 700	PR 1400
Item code (white exterior)	DAI 0895	DAI 0885	DAI 0850	DAI 0860	DAI 0870
Item code (stainless steel exterior)	DAI 0896	DAI 0886	DAI 0851	DAI 0861	DAI 0871
Item code (spark free interior - ATEX)	DAI 0895/AT	DAI 0885/AT	DAI 0850/AT	DAI 0860/AT	DAI 0870/AT
Dimensions exterior W×D×H (mm)	610×659×790	520×690×1997	620×860×1997	720×860×1997	1440×860×1997
Capacity (L)	94	352	523	628	1381
Temperature range (°C)	+1/+10	+1/+10	+1/+10	+1/+10	+1/+10
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

BLOOD BANK REFRIGERATORS

Cold storage of blood is crucial in light of continuing advancements in medical science. The value of blood and blood bank components coupled with stringent storage requirements make the Arctiko blood bank refrigerators a major component in facilitating management and reducing risk.

The importance of correct blood storage cannot be questioned today, with the medical industry investing millions of euro each year in laboratory procedures involving blood donation, testing, matching, preparation and so on. Many of the current medical practises around the world would not be possible without blood. Every collection, identification and transfusion of blood must follow a protocol, so that blood transfusion remains safe for patients, donors and medical technicians. If blood is not stored properly, all this effort and expense could be lost, which is why choosing Arctiko blood bank refrigerators is so important. Blood storage requires specially designed equipment to meet international standards.

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true cooling specialists

Blood must be stored at a consistent and stable temperature for the best results. The well designed Arctiko blood bank refrigerators are the optimal choice. Features include uniform fan cooling that circulates the air around the stored blood. Polyurethane (CFC-free) insulation in cabinet walls together with double layer glass doors to reduce heat and promote temperature uniformity in the cabinets. Glass doors and open drawer design for easy access to and identification of blood, which reduces the time doors stand open. The Arctiko controller with state-of-the-art electronics to maintain temperature uniformity and stability. Standard features of the Arctiko controller include back-up battery, power failure alarms, high/low temperature alarms, probe failure alarm, instrument failure alarm, contact for remote alarm, integrated data logger with memory for 30+ years, interface RS 485/232 and USB read out/download. In addition, Arctiko has added additional security in the form of a dual refrigeration system in the new range, so that temperature will be maintained even in the event of failure, until service can be provided.

MDD
93/42/EEC
CE 2460
CLASS IIA

THE RECOMMENDED TEMPERATURES:

• Whole blood and liquid red cells	• 2°C to 6°C
• Frozen Plasma	• -30°C
• Red blood cells frozen in 40% glycerol	• -65°C

EXPIRATION DATES:

• Whole blood in acid citrade solution	• 21 days
• Whole blood in citrate phosphase dexrose acenine solution	• 35 days
• Whole blood in heparin	• 48 hours
• Red blood cells	• Same as appropriate for the whole blood from which cells were taken
• Frozen red blood cells	• 10 years
• Leukocyte-reduced red blood cells	• Same as appropriate for the whole blood from which cells were taken
• Fresh frozen plasma	• 12 months

We disclaim responsibility for the accuracy of the above tables.

As an conclusion, you can see it is very important to store blood in the correct manner, both for the health of the community and also to avoid wasting precious resources of life.
Therefore, it is important to invest in the correct quality equipment also to meet the established regulation standards. Arctiko quality equipment will reduce the frequency of costly downtime situations. Arctiko sales teams are always ready to help you make the right choice of Arctiko blood bank equipment.

Chart recorder

Arctiko G214 Controller
Read page 4-5

LED lights

Key lock

Stainless steel drawer

Reference container for temperature
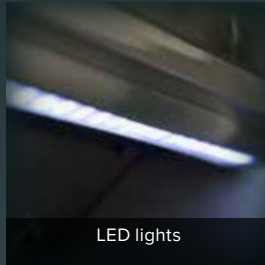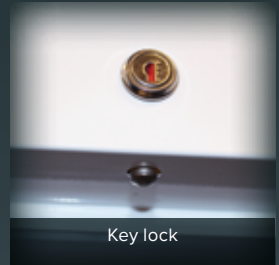
ARCTIKO
true cooling specialists
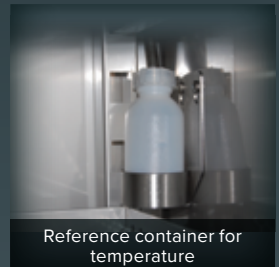
ARCTIKO
true cooling specialists

+4°C

The Arctiko BBR range is a perfect combination of unique temperature uniformity and reliable technology. The BBR models come with advanced controller, integrated non-manipulative data logger with USB read-out and chart recorder as standard.

FEATURES ON BBR RANGE

- Medical device approved
- Stainless steel interior
- White exterior
- Automatic door closing and key lock
- Air forced cooling
- Telescopic drawers
- Right hand hinged reversible door
- Castors
- Temperature chart recorder
- Key lock

MDD 93/42/EEC CE 2460 CLASS IIA

ISO 13485:2012 MEDICAL DEVICE

UNDER COUNTER MODEL

BBR 100

BBR 300

BBR 500

BBR 1400

MODEL	BBR 100	BBR 300	BBR 500	BBR 700	BBR 1400
Item code	DAI 1110	DAI 1115	DAI 1120	DAI 1125	DAI 1130
Dimensions exterior W×D×H (mm)	610×659×790	520×690×1997	620×860×1997	720×860×1997	1440×860×1997
Capacity (L)	94	352	523	628	1381
Temperature range (°C)	+4	+4	+4	+4	+4
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. quantity of blood bags with standard no. of drawers	72	160	240	300	600
Max. quantity of blood bags with max. no. of drawers	72	256	384	480	960

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

Chart recorder

Arctiko G214 Controller
Read page 4-5

LED lights

Key lock

Stainless steel drawer

Reference container for temperature

ARCTIKO
true cooling specialists

Dual refrigeration with two separate and independent cooling systems in combination with the advanced Arctiko controller provide extreme security where needed. All important controller features such as data logger and alarms are included as standard. If one cooling system should fail, the refrigerator will still operate at the set temperature until service is provided.

FEATURES ON BBR-D RANGE

- Medical device approved
- Dual refrigeration system
- Stainless steel interior
- White exterior
- Automatic door closing and key lock
- Air forced cooling
- Telescopic drawers
- Right hand hinged reversible door
- Castors
- Temperature chart recorder
- Key lock on door

MDD 93/42/EEC
CE 2460
CLASS IIA

ISO 13485:2012 MEDICAL DEVICE

DUAL COOLING SYSTEM

UNDER COUNTER MODEL

BBR 100-D

BBR 500-D

BBR 1400-D

MODEL	BBR 100-D	BBR 300-D	BBR 500-D	BBR 700-D	BBR 1400-D
Item code	DAI 1135	DAI 1140	DAI 1145	DAI 1150	DAI 1155
Dimensions exterior W×D×H (mm)	610×659×790	520×700×1997	620×860×1997	720×860×1997	1440×860×1997
Capacity (L)	94	352	523	628	1381
Temperature range (°C)	+4	+4	+4	+4	+4
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. quantity of blood bags	72	160	240	300	600
Max. quantity of blood bags with max. no. of drawers	72	256	384	480	960

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

DRAWER SYSTEM

The new Arctiko multi-purpose drawer system is a great way to keep your samples in order. Designed for easy access and overview, the system also makes it easy to divide up the freezer for several users. The drawer system can be used in our ULUF range.

CO2 / LN2 BACKUP

A number of Arctiko products can be supplemented by a CO2/LN2 backup system for optimized safety. The backup system is supplied with a heavy-duty internal battery injection indicator and digital display with alarm functions. It injects CO2/LN2 in the event that the temperature inside a freezer rises above a preset temperature value.

TEMPERATURE CHART RECORDER

A chart recorder is the optimal solution for documenting temperature conditions over a certain period of time. A replaceable pen continuously documents the temperature on a chart that circulates on either a 7- day or 24-hour basis. The chart recorder can be built in as an option in many Arctiko products.

GSM ALARM MODULE

A GSM alarm module can be connected to the majority of our products. The module sends a text message to one or several coded telephone numbers in the event that the temperature of the freezer exceeds the fixed range. A simple, effective and reliable alternative that provides increased safety, the GSM alarm can be connected to a group of freezers if needed.

CRYO GLOVES

Our water resistant cryo gloves protect your hands and prevent frostbite while you are handling frozen products in ultra-cold environments down to -160°C. The gloves have multi layers of insulation from finger tip to mid-forearm, and can also be used in very high temperatures up to 123°C. Available in different models and sizes.

APPROVALS:
EN 420:2003
EN 388
EN 511

ARCTIKO
true cooling specialists

VOLTAGE STABILIZERS

FEATURES

- Microprocessor controlled stabilizer
- Very wide input voltage range
- Excellent output voltage stability
- Includes surge and spike suppression
- Extremely fast response
- Incorporates over voltage and under voltage disconnect
- Incorporates TimeSave feature

MODEL	ITEM CODE	AMPS	VA@240V	FREQUENCY (HZ)	SOCKET	WEIGHT (KG)	DIMS. EXTERIOR (MM)
SVS04-22 (240 V)	DAI 0941	4	960	50/60	Schuko	3	240×178×150
SVS08-22 (240 V)	DAI 0942	8	1920	50/60	Schuko	5	270×387×160

SVS08-22

The SVS voltage stabilizers monitor the mains voltage continuosly. If the voltage rises or drops, the SVS will stabilize the output to ensure the voltage reaching your equipment remains constant at 230V (+/-6%), within the operating range of the unit. If the voltage falls below 142V or rises above 295V, the SVS will disconnect the output, thereby protecting the load. Once the main voltage returns again within acceptable limits, the SVS will reconnect the output following a start up delay.
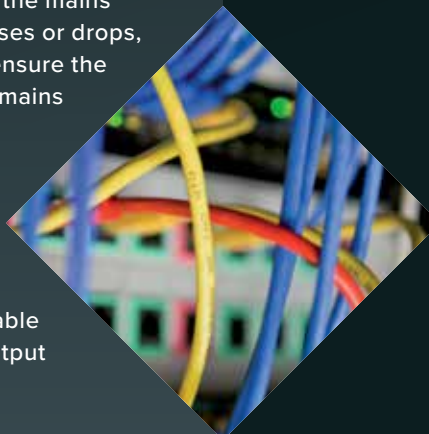
The SVS will ensure that your equipment will receive normal, stabilized power which is essential for refrigeration equipment in unsteady power areas to ensure long service operation without damage and ensure that the contents of the refrigeration is kept at the optimal temperature.

VOLTAGE CONVERTERS

RV voltage converters can be used to transform 220V into 110V and the other way around. Please contact Arctiko and we will help you choose the correct converter for your Arctiko product.

MODEL	INPUT	OUTPUT	EFFECT	WEIGHT (KG)	DIMS. EXTERIOR (CM) W×D×H
1000W	110V (60Hz) / 220 V (50Hz)	220V (60Hz) / 110V (50Hz)	1000 W	9	22,86×20,32×25,40
2000W	110V (60Hz) / 220 V (50Hz)	220V (60Hz) / 110V (50Hz)	2000 W	13	22,86×20,32×25,40
3000W	110V (60Hz) / 220 V (50Hz)	220V (60Hz) / 110V (50Hz)	3000 W	17	18,30×15,24×27,90

BOXES FROM ARCTIKO

There are many different plastic boxes on the market. The manufacturer we selected has focus on quality and many years of experience in making strong, easy-to-use storage boxes with customers in mind.

Each box is equipped with a standard 9x9 divider providing storage capacity for 81 samples.

MODEL	BOX SIZE (HEIGHT MM)	DIVIDERS	TOTAL NO. OF VIALS*	MATERIAL	COLOR	DIMENSIONS W×D×H (MM)
PB50	50	9×9	81 pcs.	Polypropylene	Transparent	133×133×50
PB75	75	9×9	81 pcs.	Polypropylene	Transparent	133×133×75
PB96	96	9×9	81 pcs.	Polypropylene	Transparent	133×133×96

*Can hold vials with a max. Ø of 12,5 mm.
We reserve the right to change specifications without notice.
Subject to confirmation, availability and errors.

RACKS FROM ARCTIKO

We offer a large variety of racks for our freezers. The racks are made of high quality stainless steel and help you organize the samples in your freezer. Our range consists of racks for chest freezers and upright freezers, either with drawers or with compartments for introducing the box from the side.

USR50-44

In order to help you understand the meaning of the codes, here's an example:

Upright
Side
Rack
50mm boxes
No. of boxes (depth)
No. of boxes (height)

ARCTIKO
true cooling specialists

CFR - CHEST FRONT RACK

OTHER RACKS CAN BE DELIVERED UPON REQUEST

On this model, the box is removed from the front, which ensures a good overview for the person taking the racks from the freezer. Racks are made of strong stainless steel.

Freezer model	Box size (height mm)	Rack model and total quantity	No. of boxes per rack	Total no. of boxes	Exterior dimensions of rack (WxDxH mm)
ULTF 80 / LTF 85	50	5 x CFR50-08	8	40	140 x 140 x 445
LTFE 140 / LTF 225	50	6 x CFR50-11 + 3 x CFR50-06 (= 9 racks)	11 6	66 + 18 (= 84 boxes)	140 x 140 x 610 140 x 140 x 335
ULTF 220	50	9 x CFR50-11 + 3 x CFR50-06 (= 12 racks)	11 6	99 + 18 (= 117 boxes)	140 x 140 x 610 140 x 140 x 335
ULTF 320 / LTF 325 / LTFE 290	50	18 x CFR50-11 + 3 x CFR50-06 (= 21 racks)	11 6	198 + 18 (= 216 boxes)	140 x 140 x 610 140 x 140 x 335
ULTF 420 / LTF 425 / LTFE 370	50	24 x CFR50-11 + 3 x CFR50-06 (= 27 racks)	11 6	18 + 264 (= 282 boxes)	140 x 140 x 610 140 x 140 x 335
LTF 535 / LTFE 515	50	24 x CFR50-12 + 3 x CFR50-07 (= 27 racks)	12 7	288 + 21 (= 309 boxes)	140 x 140 x 665 140 x 140 x 390
CRYO 170	50	9 x CFR50-12	12	108	140 x 140 x 665
CRYO 230	50	12 x CFR50-12	12	144	140 x 140 x 665
ULTF 80 / LTF 85	75	5 x CFR75-05	5	25	140 x 140 x 406
LTFE 140 / LTF 225	75	6 x CFR75-08 + 3 x CFR75-04 (= 9 racks)	8 4	48 + 12 (= 60 boxes)	140 x 140 x 629 140 x 140 x 326
ULTF 220	75	9 x CFR75-08 + 3 x CFR75-04 (= 12 racks)	8 4	72 + 12 (= 84 boxes)	140 x 140 x 629 140 x 140 x 326
ULTF 320 / LTF 325 / LTFE 290	75	18 x CFR75-08 + 3 x CFR75-04 (= 21 racks)	8 4	144 + 12 (= 156 boxes)	140 x 140 x 629 140 x 140 x 326
ULTF 420 / LTF 425 / LTFE 370	75	24 x CFR75-08 + 3 x CFR75-04 (= 27 racks)	8 4	192 + 12 (= 204 boxes)	140 x 140 x 629 140 x 140 x 326
LTF 535 / LTFE 515	75	24 x CFR75-08 + 3 x CFR75-05 (= 27 racks)	8 5	192 + 15 (= 207 boxes)	140 x 140 x 629 140 x 140 x 406
CRYO 170	75	9 x CFR75-08	8	72	140 x 140 x 629
CRYO 230	75	12 x CFR75-08	8	96	140 x 140 x 629
ULTF 80 / LTF 85	100	5 x CFR100-04	4	20	140 x 140 x 425
LTFE 140 / LTF 225	100	6 x CFR100-05 + 3 x CFR100-03 (= 9 racks)	5 3	30 + 9 (= 39 boxes)	140 x 140 x 530 140 x 140 x 320
ULTF 220	100	9 x CFR100-05 + 3 x CFR100-03 (= 12 racks)	5 3	45 + 9 (= 54 boxes)	140 x 140 x 530 140 x 140 x 320
ULTF 320 / LTF 325 / LTFE 290	100	18 x CFR100-05 + 3 x CFR100-03 (= 21 racks)	5 3	90 + 9 (= 99 boxes)	140 x 140 x 530 140 x 140 x 320
ULTF 420 / LTF 425 / LTFE 370	100	24 x CFR100-05 + 3 x CFR100-03 (= 27 racks)	5 3	120 + 9 (= 129 boxes)	140 x 140 x 530 140 x 140 x 320
LTF 535 / LTFE 515	100	24 x CFR100-06 + 3 x CFR100-03 (= 27 racks)	6 3	144 + 9 (= 153 boxes)	140 x 140 x 635 140 x 140 x 320
CRYO 170	100	9 x CFR100-06	6	45	140 x 140 x 635
CRYO 230	100	12 x CFR100-06	6	72	140 x 140 x 635

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

UDR - UPRIGHT DRAWER RACK

Strong stainless steel racks with drawers for easy and practical access to your boxes of samples.

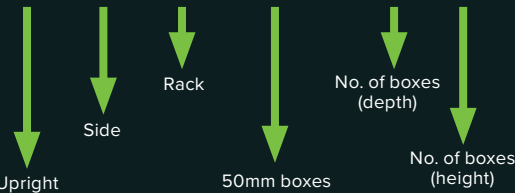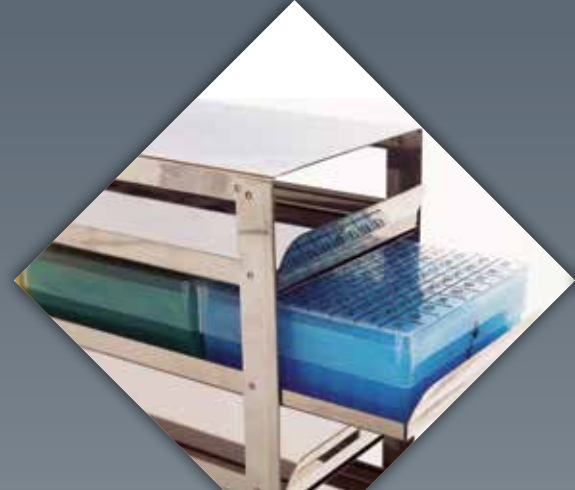| Freezer model	Box size (height mm)	Rack model and total quantity	No. of boxes per rack (depth x height)	Total no. of boxes	Exterior dimensions of rack (WxDxHmm)
MUF 40	50	2 x UDR50-25	2 x 5	20	140 x 284 x 285
ULUF 60 / 65	50	2 x UDR50-35	3 x 5	30	140 x 421 x 285
ULUF 120 / 125	50	4 x UDR50-34	3 x 4	48	140 x 421 x 228
ULUF 400 / 450 / 490	50	12 x UDR50-44 + 3 x UDR50-45 (= 15 racks)	4 x 4 4 x 5	192 + 60 (= 252 boxes)	140 x 558 x 228 140 x 558 x 285
ULUF 450-2M	50	15 x UDR50-44	4 x 4	240	140 x 558 x 228
ULUF 500 / 550	50	16 x UDR50-44 + 4 x UDR50-45 (= 20 racks)	4 x 4 4 x 5	256 + 80 (= 336 boxes)	140 x 558 x 228 140 x 558 x 285
ULUF 700 / 750	50	20 x UDR50-44 + 5 x UDR50-45 (= 25 racks)	4 x 4 4 x 5	320 + 100 (= 420 boxes)	140 x 558 x 228 140 x 558 x 285
ULUF 800 / 850 / 890	50	24 x UDR50-44 + 6 x UDR50-45 (= 30 racks)	4 x 4 4 x 5	384 + 120 (= 504 boxes)	140 x 558 x 228 140 x 558 x 285
ULUF 850-2M	50	30 x UDR50-44	4 x 4	480	140 x 558 x 228
MUF 40	75	2 x UDR75-23	2 x 3	12	140 x 284 x 246
ULUF 60/65	75	2 x UDR75-33	3 x 3	18	140 x 421 x 246
ULUF 120/125	75	4 x UDR75-33	3 x 3	36	140 x 421 x 246
ULUF 400 / 450	75	12 x UDR75-43 + 3 x UDR75-44 (= 15 racks)	4 x 3 4 x 4	144 + 48 (= 192 boxes)	140 x 558 x 246 140 x 558 x 328
ULUF 450-2M	75	15 x UDR75-33	3 x 3	180	140 x 421 x 244
ULUF 490	75	12 x UDR75-42 + 3 x UDR75-43 (= 15 racks)	4 x 2 4 x 3	96 + 36 (= 132 boxes)	140 x 558 x 164 140 x 558 x 246
ULUF 500 / 550	75	16 x UDR75-43 + 4 x UDR75-44 (= 20 racks)	4 x 3 4 x 4	192 + 64 (= 256 boxes)	140 x 558 x 246 140 x 558 x 328
ULUF 700	75	20 x UDR75-43 + 5 x UDR75-44 (= 25 racks)	4 x 3 4 x 4	240 + 80 (= 320 boxes)	140 x 558 x 246 140 x 558 x 328
ULUF 750	75	20 x UDR75-42 + 5 x UDR75-43 (= 25 racks)	4 x 2 4 x 3	160 + 60 (= 220 boxes)	140 x 558 x 164 140 x 558 x 246
ULUF 800 / 850	75	24 x UDR75-43 + 6 x UDR75-44 (= 30 racks)	4 x 3 4 x 4	288 + 96 (= 384 boxes)	140 x 558 x 246 140 x 558 x 328
ULUF 850-2M	75	30 x UDR75-43	4 x 3	360	140 x 558 x 246
ULUF 890	75	24 x UDR75-42 + 6 x UDR75-43 (= 30 racks)	4 x 2 4 x 3	192 + 72 (= 264 boxes)	140 x 558 x 164 140 x 558 x 246
MUF 40	100	2 x UDR100-22	2 x 2	8	140 x 284 x 214
ULUF 60/65	100	2 x UDR100-32	3 x 2	12	140 x 421 x 214
ULUF 120/125	100	4 x UDR100-32	3 x 2	32	140 x 414 x 214
ULUF 400 / 450	100	12 x UDR100-42 + 3 x UDR100-43 (= 15 racks)	4 x 2 4 x 3	96 + 36 (= 132 boxes)	140 x 558 x 214 140 x 558 x 315
ULUF 450-2M	100	15 x UDR100-42	4 x 2	120	140 x 558 x 214
ULUF 490	100	15 x UDR100-42	4 x 2	120	140 x 558 x 214
ULUF 500 / 550	100	16 x UDR100-42 + 4 x UDR100-43 (= 20 racks)	4 x 2 4 x 3	128 + 48 (= 176 boxes)	140 x 558 x 214 140 x 558 x 315
ULUF 700	100	20 x UDR100-42 + 5 x UDR100-43 (= 25 racks)	4 x 2 4 x 3	160 + 60 (= 220 boxes)	140 x 558 x 214 140 x 558 x 315
ULUF 750	100	25 x UDR100-42	4 x 2	200	140 x 558 x 214
ULUF 800 / 850	100	24 x UDR100-42 + 6 x UDR100-43 (= 30 racks)	4 x 2 4 x 3	192 + 72 (= 264 boxes)	140 x 558 x 214 140 x 558 x 315
ULUF 850-2M	100	30 x UDR100-42	4 x 2	240	140 x 558 x 214
ULUF 890	100	30 x UDR100-42	4 x 2	240	140 x 558 x 214

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

USR
- UPRIGHT
SIDE RACK

Our USR racks have individual compartments for each box and are very strong and solid. The box is introduced from the side.

Freezer model	Box size (height mm)	Rack model and total quantity	No. of boxes per rack (depth x height)	Total no. of boxes	Exterior dimensions of rack (WxDxH mm)
MUF 40	50	2 x USR50-25	2 x 5	20	139 x 280 x 276
ULUF 60 / 65	50	2 x USR50-35	3 x 5	30	139 x 419 x 276
ULUF 120 / 125	50	4 x USR50-34	3 x 4	48	139 x 419 x 221
ULUF 400 / 450 / 490	50	12 x USR50-44 + 3 x USR50-45 (= 15 racks)	4 x 4 4 x 5	192 + 60 (= 252 boxes)	139 x 558 x 221 139 x 558 x 276
ULUF 450-2M	50	15 x USR50-44	4 x 4	240	139 x 558 x 221
ULUF 500 / 550	50	16 x USR50-44 + 4 x USR50-45 (= 20 racks)	4 x 4 4 x 5	256 + 80 (= 336 boxes)	139 x 558 x 221 139 x 558 x 276
ULUF 700 / 750	50	20 x USR50-44 + 5 x USR50-45 (= 25 racks)	4 x 4 4 x 5	320 + 100 (= 420 boxes)	139 x 558 x 221 139 x 558 x 276
ULUF 800 / 850 / 890	50	24 x USR50-44 + 6 x USR50-45 (= 30 racks)	4 x 4 4 x 5	384 + 120 (= 504 boxes)	139 x 558 x 221 139 x 558 x 276
ULUF 850-2M	50	15 x USR50-44	4 x 4	480	139 x 558 x 221
MUF 40	75	2 x USR75-23	2 x 3	12	139 x 280 x 240
ULUF 60/65	75	2 x USR75-33	3 x 3	18	139 x 419 x 240
ULUF 120/125	75	4 x USR75-33	3 x 3	36	139 x 419 x 240
ULUF 400 / 450	75	12 x USR75-43 + 3 x USR75-44 (= 15 racks)	4 x 3 4 x 4	144 + 48 (= 192 boxes)	139 x 558 x 240 139 x 558 x 320
ULUF 450-2M	75	15 x USR75-43	4 x 3	180	139 x 558 x 240
ULUF 490	75	12 x USR75-42 3 x USR75-43 (= 15 racks)	4 x 2 4 x 3	96 + 36 (= 132 boxes)	139 x 558 x 160 139 x 558 x 240
ULUF 500 / 550	75	16 x USR75-43 + 4 x USR75-44 (= 20 racks)	4 x 3 4 x 4	192 + 64 (= 256 boxes)	139 x 558 x 240 139 x 558 x 320
ULUF 700	75	20 x USR75-43 + 5 x USR75-44 (= 25 racks)	4 x 3 4 x 4	240 + 80 (= 320 boxes)	139 x 558 x 240 139 x 558 x 320
ULUF 750	75	20 x USR75-42 5 x USR75-43 (= 25 racks)	4 x 2 4 x 3	160 + 60 (= 220 boxes)	139 x 558 x 160 139 x 558 x 240
ULUF 800 / 850	75	24 x USR75-43 + 6 x USR75-44 (= 30 racks)	4 x 3 4 x 4	288 + 96 (= 384 boxes)	139 x 558 x 240 139 x 558 x 320
ULUF 850-2M	75	30 x USR75-43	4 x 3	360	139 x 558 x 240
ULUF 890	75	24 x USR75-42 6 x USR75-43 (= 15 racks)	4 x 2 4 x 3	192 + 72 (= 264 boxes)	139 x 558 x 160 139 x 558 x 240
MUF 40	100	2 x USR100-22	2 x 2	8	139 x 280 x 210
ULUF 60/65	100	2 x USR100-32	3 x 2	12	139 x 419 x 210
ULUF 120/125	100	4 x USR100-32	3 x 2	32	139 x 414 x 214
ULUF 400 / 450	100	12 x USR100-42 + 3 x USR100-43 (= 15 racks)	4 x 2 4 x 3	96 + 36 (= 132 boxes)	139 x 558 x 210 139 x 558 x 315
ULUF 450-2M	100	15 x USR100-42	4 x 2	120	139 x 558 x 210
ULUF 490	100	15 x USR100-42	4 x 2	120	139 x 558 x 210
ULUF 500 / 550	100	16 x USR100-42 + 4 x USR100-43 (= 20 racks)	4 x 2 4 x 3	128 + 48 (= 176 boxes)	139 x 558 x 210 139 x 558 x 315
ULUF 700	100	20 x USR100-42 + 5 x USR100-43 (=25 Racks)	4 x 2 4 x 3	160 60 (= 220 boxes)	139 x 558 x 210 139 x 558 x 315
ULUF 750	100	25 x USR100-42	4 x 2	200	139 x 558 x 210
ULUF 800 / 850	100	24 x USR100-42 + 6 x USR100-43 (= 30 racks)	4 x 2 4 x 3	192 + 72 (= 264 boxes)	139 x 558 x 210 139 x 558 x 315
ULUF 850-2M	100	30 x USR100-42	4 x 2	240	139 x 558 x 210
ULUF 890	100	30 x USR100-42	4 x 2	240	139 x 558 x 210

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

Arctiko
International

ARCTIKO INT

true cooling specialists

We offer day to day deliveries of ETL-approved freezers from our US facilities. We have organized a well established service network covering all of North America.

For any information on Arctiko International, please contact us at: Info@arctiko.com

ARCTIKO INT
true cooling specialists

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.

ISO 9001

ISO 9001 is the most widely used International standard in the world. It streamlines and documents Arctiko's working processes and ensures that production always meets the high quality expectations of Arctiko's partners.

MEDICAL DEVICES DIRECTIVE

Again Arctiko has raised the bargain and achieved the EU directive 93/42/EEC for medical devices & CE marking for Class II equipment. $C\epsilon$ 2460

FDA

Arctiko is registered and has listed the following medical device with the U.S. Food and Drug Administration for FY 2016 Pursuant to Title 21, 807 et seq. of the United States Code of Federal Regulations.

ETL

Arctiko products are approved according to following standard(s): 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
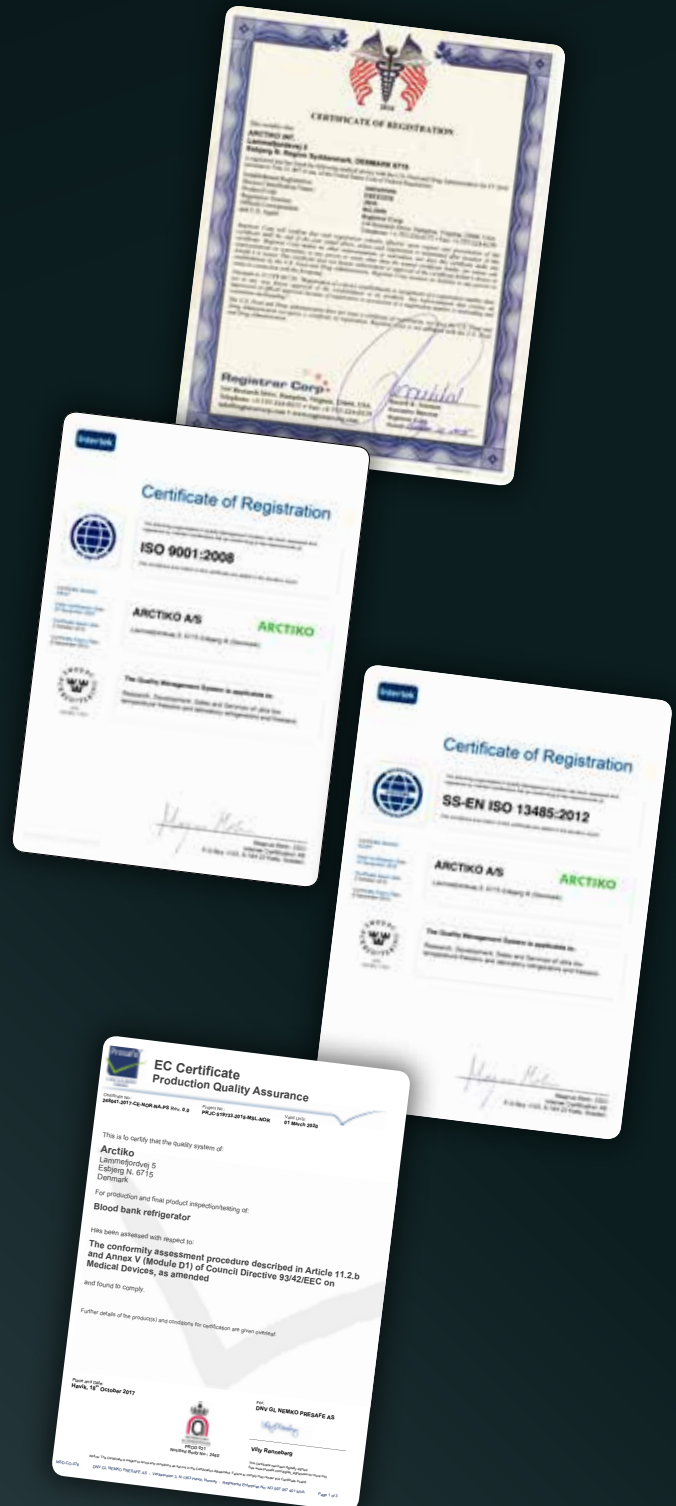
Arctiko engineering

PROJECT ENGINEERING OF COLD STORAGE ROOMS

Our customers often have specific requirements. It is important for us to meet the requirements and provide the best possible solution at a fair and competitive price. We are very strong in the temperature range from -40° to -80° C in both storage and blast freezers. We can even provide a modular and flexible solution with three freezers in one unit -40°/-80° C and blast to -80° C.

We are able to design and build the exact solution you require and need. Our production facility is located in Denmark. Products are 90% finished when they leave our factory, ready for installation and commission on site.

Our products are quick and easy to install, which means less disturbance at your production facility, so that you can focus your time and energy on daily business. We are able to install our products all over the world in cooperation with our partners. Arctiko can be part of every step from consultancy to quotes and project management.

Arctiko has been involved with cold storage solutions for nearly two decades. We provide simple storage solutions for medicine or vaccines at +2°/+8° C, and high-end GMP validated storage/blast freezer solutions in the temperature range -40° to -80° C. We can count some of the world's largest pharmaceutical, medical and biotechnical companies among our customers.

Our main focus is reliability, temperature uniformity, redundancy, sustainability and GMP documentation for the pharmaceutical and biotechnical industries. We are familiar with the strict and often complicated requirements from the pharmaceutical industry. We support the industry with:

- In-house consulting
- Project management
- GMP validation
- Automation specialists
- Mechanical engineering
- 3D drawings
- Certifications

ARCTIKO ENGINEERING
true cooling specialists

-40°C, -60°C, -70°C AND -80°C SOLUTIONS

PHARMACEUTICAL INDUSTRY
BIOMEDICAL INDUSTRY

SERVICE AND SUPPORT

Our service team has more than 40 years of experience and knowledge in cooling techno-logy and controls. We are able to answer any kind of enquiries 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

The most common questions can be found directly on our website www.arctikoservice.com after the distributor login. As a distributor you can use the service website to find almost any request you may have, to perform service on Arctiko units.

CONTACT DETAILS

service@arctiko.com
+45 75 17 13 34
www.arctikoservice.com

MODEL	CRYO 170	CRYO 230	ULUF 490	ULUF 590-2M	ULUF 890
Unit Information					
Item code	DAI 0197	DAI 0198	DAI 1405	DAI 1378	DAI 1415
Dimensions exterior WxDxH (mm)	1420x960x1090*	1600x960x1090*	720x885x2089	920x885x1990	1492x885x2089
Capacity (L)	169	230	393	556	413 / 413
Dimensions interior WxDxH (mm)	500x500x675	680x500x675	480x608x1415	680x608x1345	2 x (480x608x1415)
Insulation (mm)	170	170	120	120	120
Temperature range (°C)	-150 / -140	-150 / -140	-90 / -40	-90 / -40	-90 / -40
Max. ambient temperature (°C)	30	30	25	25	25
Power					
Power supply (V)	3 x 400	3 x 400	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	31,7	33,5	15,8	17,1	28,3
AMP (A)	4,8	4,7	8,3	8,2	17,0
Power (Watt)	1929	2021	1266	1500	2454
Horse power (HP)	2 x 1,5	2 x 1,5	2 x 3/4	2 x 3/4	4 x 3/4
Battery backup for alarms and temperature display in the event of power cut (approx hours)	48 hours (only for acoustic alarm)		72 hours	72 hours	72 hours
Alarm					
Alarm display as text - not codes	no	no	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes	yes	yes
Power failure alarm	yes	yes	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes	yes
Open door alarm	no	no	yes	yes	yes
Probe failure alarm	yes	yes	yes	yes	yes
Low battery alarm	no	no	yes	yes	yes
Compressor alarm	no	no	yes	yes	yes
Logger and external connection					
Contact for remote alarm	yes	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes	yes
Data logger	no	no	yes	yes	yes
RS485 Interface	no	no	yes	yes	yes
USB for software upload	no	no	yes	yes	yes
USB readout for logged data	no	no	yes	yes	yes
Chart recorder	yes	yes	optional	optional	optional
Other display information					
Digital display	yes	yes	yes	yes	yes
Defrost manual / auto	manual	manual	manual	manual	manual
2 extra probes can be mounted inside	no	no	yes	yes	yes
Password protection for turning unit on/off	no	no	yes	yes	yes
Temperature graph on display	no	no	yes	yes	yes
Other equipment					
Porthole for external probe etc.	yes	yes	yes	yes	yes
Lighting	no	no	yes	yes	yes
Key lock / Card lock	yes / no	yes / no	yes / optional	yes / optional	yes / optional
Castors / with break in front	4 pcs. / 2 pcs. levelling feet at the front		yes / yes	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	no	no	4 / no	4 / no	8 / no
Adjustable shelves (pcs.) / drawers (pcs.)	no	no	no	no	no
Basket (pcs.)	no	no	no	no	no
Sub lids / sub doors (pcs.)	1 / no	2 / no	no / 5	no / 5	no / 10
Reversible doors (pcs.)	no	no	no	no	no
Refrigeration & cabinet					
No. of compressors	2	2	2	2	2 x 2
Refrigerant	Mix	Mix	EP88	EP88	EP88
Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Cabinet material	electro galv. steel	electro galv. steel	varnished steel	varnished steel	varnished steel
Colour (exterior)	ivory	ivory	white	white	white
Foam agent	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information					
Weight (KG)	374	391	220	242	490
Shipping weight (KG)	538	563	276	342	652
Shipping dimensions WxDxH (cm)	192x122x140	210x122x140	84x104x231	103x108x231	161x108x231
Shipping m3	2,94	3,25	2,02	2,57	4,02

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.
Individual ULUF units may vary and power consumption depends on loading and operating conditions. Freezer set point -80°C, ambient temp. 20-23°C, unloaded, 230V 50Hz power supply.
*Depth including distance fittings on back for correct air circulation

ARC70921-14-GB

ULTRA LOW TEMPERATURE UPRIGHT FREEZERS

-86°C

MODEL	ULUF 15	ULUF 65	ULUF 125	ULUF 450	ULUF 450-2M
Unit Information					
Item code	DAI 1390	DAI 1418	DAI 1417	DAI 1408	DAI 1414
Dimensions exterior WxDxH (mm)	400x630x665	600x700x810	950x725x810	720x885x2089	720x885x1990
Capacity (L)	7	54	94	413	393
Dimensions interior WxDxH (mm)	150x143x310	360x468x320	360x493x530	480x608x1415	480x608x1345
Insulation (mm)	120	120	120	120	120
Temperature range (°C)	-86 / -40	-86 / -40	-86 / -40	-86 / -40	-86 / -40
Max. ambient temperature (°C)	25	25	25	25	25
Power					
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	6,5	6,9	7,0	14,2	14,6
AMP (A)	2,8	3,5	3,3	4,4	4,4
Power (Watt)	467	521	484	728	773
Horse power (HP)	3/8	5/8	5/8	3/4	3/4
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours	72 hours
Alarm					
Alarm display as text - not codes	yes	yes	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes	yes	yes
Power failure alarm	yes	yes	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes	yes
Open door alarm	yes	yes	yes	yes	yes
Probe failure alarm	yes	yes	yes	yes	yes
Low battery alarm	yes	yes	yes	yes	yes
Compressor alarm	yes	yes	yes	yes	yes
Logger and external connection					
Contact for remote alarm	yes	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes	yes
Data logger	yes	yes	yes	yes	yes
RS485 Interface	yes	yes	yes	yes	yes
USB for software upload	yes	yes	yes	yes	yes
USB readout for logged data	yes	yes	yes	yes	yes
Chart recorder	optional	optional	optional	optional	optional
Other display information					
Digital display	yes	yes	yes	yes	yes
Defrost manual / auto	manual	manual	manual	manual	manual
2 extra probes can be mounted inside	yes	yes	yes	yes	yes
Password protection for turning unit on/off	yes	yes	yes	yes	yes
Temperature graph on display	yes	yes	yes	yes	yes
Other equipment					
Porthole for external probe etc.	yes	yes	yes	yes	yes
Lighting	no	no	no	yes	yes
Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional
Castors / with break in front	no / no	2 small in the back	2 small in the back	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	no	no	1 / no	4 / no	4 / no
Adjustable shelves (pcs.) / drawers (pcs.)	no	no	no	no	no
Basket (pcs.)	no	no	no	no	no
Sub lids / sub doors (pcs.)	no / 1	no / 1	no / 2	no / 5	no / 5
Reversible doors (pcs.)	no	no	no	no	no
Refrigeration & cabinet					
No. of compressors	1	1	1	1	1
Refrigerant	EP88	EP88	EP88	EP88	EP88
Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Cabinet material	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel
Colour (exterior)	white	white	white	white	white
Foam agent	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information					
Weight (KG)	38	77	98	193	175
Shipping weight (KG)	54	99	129	250	244
Shipping dimensions WxDxH (cm)	77x48x89	81x69x103	103x81x103	84x104x231	84x104x231
Shipping m3	0,33	0,58	0,86	2,02	2,02

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Individual ULUF units may vary and power consumption depends on loading and operating conditions. Freezer set point -80°C, ambient temp. 20-23°C, unloaded, 230V 50Hz power supply.

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	MODEL	ULUF 550	ULUF 550-2M	ULUF 750	ULUF 750-2M	ULUF 850	ULUF 850-2M
Unit Information	Item code	DAI 1375	DAI 1377	DAI 1416	DAI 1383	DAI 1411	DAI 1403
	Dimensions exterior WxDxH (mm)	920x885x2089	920x885x1990	1030x885x2089	1030x885x1990	1492x885x2089	1492x885x1990
	Capacity (L)	585	556	680	642	413 / 413	393 / 393
	Dimensions interior WxDxH (mm)	680x608x1415	680x608x1345	790x608x1415	790x608x1345	2x (480x608x1415)	2x (480x608x1345)
	Insulation (mm)	120	120	120	120	120	120
	Temperature range (°C)	-86 / -40	-86 / -40	-86 / -40	-86 / -40	-86 / -40	-86 / -40
	Max. ambient temperature (°C)	25	25	25	25	25	25
Power	Power supply (V)	230	230	230	230	230	230
	Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
	Power consumption (KWH/24H)	16,3	16,3	19,7	19,5	28,8	27,1
	AMP (A)	4,2	4,2	8,7	8,7	8,3	8,4
	Power (Watt)	768	768	1351	1359	1523	1459
	Horse power (HP)	3/4	3/4	3/4	3/4	2 x 3/4	2 x 3/4
	Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours	72 hours	72 hours
Alarm	Alarm display as text - not codes	yes	yes	yes	yes	yes	yes
	Visual / Acoustic alarm	yes	yes	yes	yes	yes	yes
	Power failure alarm	yes	yes	yes	yes	yes	yes
	Adjustable high/low temperature alarm	yes	yes	yes	yes	yes	yes
	Open door alarm	yes	yes	yes	yes	yes	yes
	Probe failure alarm	yes	yes	yes	yes	yes	yes
	Low battery alarm	yes	yes	yes	yes	yes	yes
	Compressor alarm	yes	yes	yes	yes	yes	yes
Logger and external connection	Contact for remote alarm	yes	yes	yes	yes	yes	yes
	Prepared for GSM alarm module	yes	yes	yes	yes	yes	yes
	Data logger	yes	yes	yes	yes	yes	yes
	RS485 Interface	yes	yes	yes	yes	yes	yes
	USB for software upload	yes	yes	yes	yes	yes	yes
	USB readout for logged data	yes	yes	yes	yes	yes	yes
	Chart recorder	optional	optional	optional	optional	optional	optional
Other display information	Digital display	yes	yes	yes	yes	yes	yes
	Defrost manual / auto	manual	manual	manual	manual	manual	manual
	2 extra probes can be mounted inside	yes	yes	yes	yes	yes	yes
	Password protection for turning unit on/off	yes	yes	yes	yes	yes	yes
	Temperature graph on display	yes	yes	yes	yes	yes	yes
Other equipment	Porthole for external probe etc.	yes	yes	yes	yes	yes	yes
	Lighting	yes	yes	yes	yes	yes	yes
	Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional
	Castors / with break in front	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes
	Shelves (pcs.) / drawers (pcs.)	4 / no	4 / no	4 / no	4 / no	8 / no	8 / no
	Adjustable shelves (pcs.) / drawers (pcs.)	no	no	no	no	no	no
	Basket (pcs.)	no	no	no	no	no	no
	Sub lids / sub doors (pcs.)	no / 5	no / 5	no / 5	no / 5	no / 10	no / 10
	Reversible doors (pcs.)	no	no	no	no	no	no
Refrigeration & cabinet	No. of compressors	1	1	2	2	2	2
	Refrigerant	EP88	EP88	EP88	EP88	EP88	EP88
	Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
	Cabinet material	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel
	Colour (exterior)	white	white	white	white	white	white
	Foam agent	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information	Weight (KG)	215	203	254	242	376	350
	Shipping weight (KG)	345	333	400	388	528	512
	Shipping dimensions WxDxH (cm)	103x108x231	103x108x231	114x108x231	114x108x231	161x108x231	161x108x231
	Shipping m3	2,57	2,57	2,84	2,84	4,02	4,02

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Individual ULUF units may vary and power consumption depends on loading and operating conditions. Freezer set point -80°C, ambient temp. 20-23°C, unloaded, 230V 50Hz power supply.

ULTRA LOW TEMPERATURE CHEST FREEZERS

-86°C

BENCH TOP AND PORTABLE ULTRA LOW TEMPERATURE FREEZERS

-80°C

MODEL	ULTF 80	ULTF 220	ULTF 320	ULTF 420	CRYO PORTER DP-80	MUF 40
Unit Information						
Item code	DAI 0200	DAI 0213	DAI 0205	DAI 0210	DAI 1420	DAI 1410
Dimensions exterior WxDxH (mm)	552x648x850	920x695x885	1262x698x885	1562x698x885	230x262x390	495x660x680
Capacity (L)	71	189	284	368	1 x alu. block	35
Dimensions interior WxDxH (mm)	390x390x450	760x440x630	1100x440x630	1400x440x630	135x135x80	336x356x295
Insulation (mm)	80	80	80	80	–	100
Temperature range (°C)	-86 / -40	-86 / -40	-86 / -40	-86 / -40	-80 / 0	-80 / -60
Max. ambient temperature (°C)	25	25	20	20	25	25
Power						
Power supply (V)	230	230	230	230	12Vdc / 110/230Vac	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	5,5	5,9	7,5	8,5	1,1	5,2
AMP (A)	2,7	2,7	2,5	2,6	0,3	1,6
Power (Watt)	366	353	466	490	46	318
Horse power (HP)	1/2	3/4	3/4	3/4	–	1/3
Battery backup for alarms and temperature display in the event of power cut (ap prox hours)	72 hours	72 hours	72 hours	72 hours	no	48 hours (only for acoustic alarm)
Alarm						
Alarm display as text - not codes	yes	yes	yes	yes	no	no
Visual / Acoustic alarm	yes	yes	yes	yes	no	yes
Power failure alarm	yes	yes	yes	yes	no	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes	no	yes
Open door alarm	yes	yes	yes	yes	no	no
Probe failure alarm	yes	yes	yes	yes	no	yes
Low battery alarm	yes	yes	yes	yes	no	no
Compressor alarm	yes	yes	yes	yes	no	no
Logger and external connection						
Contact for remote alarm	yes	yes	yes	yes	no	yes
Prepared for GSM alarm module	yes	yes	yes	yes	no	yes
Data logger	yes	yes	yes	yes	no	no
RS485 Interface	yes	yes	yes	yes	no	no
USB for software upload	yes	yes	yes	yes	no	no
USB readout for logged data	yes	yes	yes	yes	no	no
Chart recorder	optional	optional	optional	optional	no	optional
Other display information						
Digital display	yes	yes	yes	yes	yes	yes
Defrost manual / auto	manual	manual	manual	manual	manual	manual
2 extra probes can be mounted inside	yes	yes	yes	yes	no	no
Password protection for turning unit on/off	yes	yes	yes	yes	no	no
Temperature graph on display	yes	yes	yes	yes	no	no
Other equipment						
Porthole for external probe etc.	yes	yes	yes	yes	no	yes
Lighting	no	no	no	no	no	no
Key lock / Card lock	yes	yes	yes	yes	no	yes
Castors / with break in front	no / no	yes / no	yes / no	yes / no	no / no	optional
Shelves (pcs.) / drawers (pcs.)	no	no	no	no	no	1 / no
Adjustable shelves (pcs.) / drawers (pcs.)	no	no	no	no	no	1 / no
Basket (pcs.)	no	no	no	no	no	no
Sub lids / sub doors (pcs.)	1 / no	3 / no	3 / no	4 / no	1 / no	no
Reversible doors (pcs.)	–	–	–	–	–	–
Refrigeration & cabinet						
No. of compressors	1	1	1	1	no	1
Refrigerant	EP88	EP88	EP88	EP88	no	EP88
Inner liner material	varnished steel	varnished steel	varnished steel	varnished steel	no	stainless steel
Cabinet material	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel
Colour (exterior)	white	white	white	white	grey	white
Foam agent	cyclopenthane	cyclopenthane	cyclopenthane	cyclopenthane	polyethylene	polyurethane
Shipping information						
Weight (KG)	53	64	76	88	10	60
Shipping weight (KG)	83	104	114	132	11	72
Shipping dimensions WxDxH (cm)	68x64x116	102x76x106	136x76x106	166x76x106	37x48x52	80x60x88
Shipping m3	0,51	0,82	1,10	1,34	0,09	0,42

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MODEL	LTF 85	LTF 225	LTF 325	LTF 425	LTF 535
Unit Information					
Item code	DAI 0101	DAI 0126	DAI 0111	DAI 0116	DAI 0121
Dimensions exterior WxDxH (mm)	552x648x850	720x695x885	1262x698x885	1562x698x885	1662x758x890
Capacity (L)	71	133	284	368	476
Dimensions interior WxDxH (mm)	390x390x465	560x440x635	1100x440x635	1400x440x635	1500x500x675
Insulation (mm)	80	80	80	80	80
Temperature range (°C)	-60 / -30	-60 / -30	-60 / -30	-60 / -30	-60 / -30
Max. ambient temperature (°C)	25	25	25	25	25
Power					
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	5,1	6,0	6,9	8,3	6,9
AMP (A)	2,0	1,9	2,8	2,8	2,5
Power (Watt)	297	281	375	434	438
Horse power (HP)	1/2	1/2	3/4	3/4	3/4
Battery backup for alarms and temperature display in the event of power cut (approx hours)	no	no	no	no	no
Alarm					
Alarm display as text - not codes	no	no	no	no	no
Visual / Acoustic alarm	yes	yes	yes	yes	yes
Power failure alarm	no	no	no	no	no
Adjustable high/low temperature alarm	yes	yes	yes	yes	yes
Open door alarm	no	no	no	no	no
Probe failure alarm	yes	yes	yes	yes	yes
Low battery alarm	no	no	no	no	no
Compressor alarm	no	no	no	no	no
Logger and external connection					
Contact for remote alarm	yes	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes	yes
Data logger	no	no	no	no	no
RS485 Interface	no	no	no	no	no
USB for software upload	no	no	no	no	no
USB readout for logged data	no	no	no	no	no
Chart recorder	optional	optional	optional	optional	optional
Other display information					
Digital display	yes	yes	yes	yes	yes
Defrost manual / auto	manual	manual	manual	manual	manual
2 extra probes can be mounted inside	no	no	no	no	no
Password protection for turning unit on/off	no	no	no	no	no
Temperature graph on display	no	no	no	no	no
Other equipment					
Porthole for external probe etc.	yes	yes	yes	yes	yes
Lighting	no	no	no	no	no
Key lock / Card lock	yes	yes	yes	yes	yes
Castors / with break in front	no	yes	yes	yes	no
Shelves (pcs.) / drawers (pcs.)	no	no	no	no	no
Adjustable shelves (pcs.) / drawers (pcs.)	no	no	no	no	no
Basket (pcs.)	1	1	3	4	3
Sub lids / sub doors (pcs.)	no	no	no	no	no
Reversible doors (pcs.)	–	–	–	–	–
Refrigeration & cabinet					
No. of compressors	1	1	1	1	1
Refrigerant	HC	HC	HC	HC	HC
Inner liner material	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel
Cabinet material	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel
Colour (exterior)	white	white	white	white	white
Foam agent	cyclopenthane	cyclopenthane	cyclopenthane	cyclopenthane	cyclopenthane
Shipping information					
Weight (KG)	53	55	76	88	107
Shipping weight (KG)	76	85	114	132	131
Shipping dimensions WxDxH (cm)	68x64x116	81x76x109	136x76x106	166x76x106	172x80x115
Shipping m3	0,51	0,82	1,10	1,34	1,58

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LOW TEMPERATURE CHEST FREEZERS

-45°C

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MODEL	LTFE 140	LTFE 290	LTFE 370	LTFE 515
Unit Information				
Item code	DAI 1600	DAI 1605	DAI 1610	DAI 1615
Dimensions exterior WxDxH (mm)	720x695x885	1262x698x885	1562x698x885	1662x758x890
Capacity (L)	133	284	368	476
Dimensions interior WxDxH (mm)	560x440x635	1100x440x635	1400x440x635	1500x500x675
Insulation (mm)	80	80	80	80
Temperature range (°C)	-45 / -10	-45 / -10	-45 / -10	-45 / -10
Max. ambient temperature (°C)	25	25	25	25
Power				
Power supply (V)	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	2,5	4,7	5,6	6,4
AMP (A)	1,9	2,8	3,2	3,1
Power (Watt)	187	276	307	325
Horse power (HP)	1/2	3/4	3/4	3/4
Battery backup for alarms and temperature display in the event of power cut (approx hours)	no	no	no	no
Alarm				
Alarm display as text - not codes	no	no	no	no
Visual / Acoustic alarm	yes	yes	yes	yes
Power failure alarm	no	no	no	no
Adjustable high/low temperature alarm	yes	yes	yes	yes
Open door alarm	no	no	no	no
Probe failure alarm	yes	yes	yes	yes
Low battery alarm	no	no	no	no
Compressor alarm	no	no	no	no
Logger and external connection				
Contact for remote alarm	yes	yes	yes	yes
Prepared for GSM alarm module	no	no	no	no
Data logger	no	no	no	no
RS485 Interface	no	no	no	no
USB for software upload	no	no	no	no
USB readout for logged data	no	no	no	no
Chart recorder	optional	optional	optional	optional
Other display information				
Digital display	yes	yes	yes	yes
Defrost manual / auto	manual	manual	manual	manual
2 extra probes can be mounted inside	no	no	no	no
Password protection for turning unit on/off	no	no	no	no
Temperature graph on display	no	no	no	no
Other equipment				
Porthole for external probe etc.	yes	yes	yes	yes
Lighting	no	no	no	no
Key lock / Card lock	yes	yes	yes	yes
Castors / with break in front	yes	yes	yes	no
Shelves (pcs.) / drawers (pcs.)	no	no	no	no
Adjustable shelves (pcs.) / drawers (pcs.)	no	no	no	no
Basket (pcs.)	1	1	1	3
Sub lids / sub doors (pcs.)	no	no	no	no
Reversible doors (pcs.)	–	–	–	–
Refrigeration & cabinet				
No. of compressors	1	1	1	1
Refrigerant	R290	R290	R290	R290
Inner liner material	varnished steel	varnished steel	varnished steel	varnished steel
Cabinet material	varnished steel	varnished steel	varnished steel	varnished steel
Colour (exterior)	white	white	white	white
Foam agent	cyclopenthane	cyclopenthane	cyclopenthane	cyclopenthane
Shipping information				
Weight (KG)	55	76	88	107
Shipping weight (KG)	85	116	136	131
Shipping dimensions WxDxH (cm)	81x76x109	136x76x106	166x76x106	172x80x115
Shipping m3	0,67	1,10	1,34	1,58

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LOW TEMPERATURE UPRIGHT FREEZERS

-86°C

MODEL	ULUF 60	ULUF 120	ULUF 400	ULUF 500	ULUF 700	ULUF 800
Unit Information						
Item code	DAI 1419	DAI 1395	DAI 1407	DAI 1370	DAI 1400	DAI 1409
Dimensions exterior WxDxH (mm)	600x700x810	950x725x810	720x885x2089	920x871x2089	1030x885x2089	1492x885x2089
Capacity (L)	54	94	413	585	680	413 / 413
Dimensions interior WxDxH (mm)	360x468x320	360x493x530	480x608x1415	680x608x1415	790x608x1415	2x(480x608x1415)
Insulation (mm)	120	120	120	120	120	120
Temperature range (°C)	-40 / -20	-40 / -20	-40 / -20	-40 / -20	-40 / -20	-40 / -20
Max. ambient temperature (°C)	25	25	25	25	25	25
Power						
Power supply (V)	230	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	7,4	7,6	8,5	9,8	10,5	2 x 8,5
AMP (A)	3,5	3,7	3,4	3,3	3,3	2 x 3,4
Power (Watt)	342	378	472	484	510	2 x 472
Horse power (HP)	5/8	5/8	3/8	3/8	3/8	3/8
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours	72 hours	72 hours
Alarm						
Alarm display as text - not codes	yes	yes	yes	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes	yes	yes	yes
Power failure alarm	yes	yes	yes	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes	yes	yes
Open door alarm	yes	yes	yes	yes	yes	yes
Probe failure alarm	yes	yes	yes	yes	yes	yes
Low battery alarm	yes	yes	yes	yes	yes	yes
Compressor alarm	yes	yes	yes	yes	yes	yes
Logger and external connection						
Contact for remote alarm	yes	yes	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes	yes	yes
Data logger	yes	yes	yes	yes	yes	yes
RS485 Interface	yes	yes	yes	yes	yes	yes
USB for software upload	yes	yes	yes	yes	yes	yes
USB readout for logged data	yes	yes	yes	yes	yes	yes
Chart recorder	optional	optional	optional	optional	optional	optional
Other display information						
Digital display	yes	yes	yes	yes	yes	yes
Defrost manual / auto	manual	manual	manual	manual	manual	manual
2 extra probes can be mounted inside	yes	yes	yes	yes	yes	yes
Password protection for turning unit on/off	yes	yes	yes	yes	yes	yes
Temperature graph on display	yes	yes	yes	yes	yes	yes
Other equipment						
Porthole for external probe etc.	yes	yes	yes	yes	yes	yes
Lighting	no	no	yes	yes	yes	yes
Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional
Castors / with break in front	2 small in the back	2 small in the back	yes / yes	yes / yes	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	no	1 / no	4 / no	4 / no	4 / no	8 / no
Adjustable shelves (pcs.) / drawers (pcs.)	no	no	no	no	no	no
Basket (pcs.)	no	no	no	no	no	no
Sub lids / sub doors (pcs.)	no / 1	no / 2	no / 5	no / 5	no / 5	no / 10
Reversible doors (pcs.)	no	no	no	no	no	no
Refrigeration & cabinet						
No. of compressors	1	1	1	1	1	2
Refrigerant	R404a	R404a	R404a	R404a	R404a	R404a
Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Cabinet material	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel
Colour (exterior)	white	white	white	white	white	white
Foam agent	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information						
Weight (KG)	77	98	193	215	254	376
Shipping weight (KG)	99	129	250	345	400	528
Shipping dimensions WxDxH (cm)	81x69x103	103x81x103	84x104x231	103x108x231	114x108x231	161x108x231
Shipping m3	0,58	0,86	2,02	2,57	2,84	4,02

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BIOMEDICAL FREEZERS

-30°C

	MODEL	LF 100 / LF 100-ST	LF 300 / LF 300-ST	LF 500 / LF 500-ST
Unit Information	Item code	DAI 0285 / DAI 0286	DAI 0225 / DAI 0226	DAI 0245 / DAI 0246
	Dimensions exterior WxDxH (mm)	610x659x790	520x700x1997	620x860x1997
	Capacity (L)	94	346	515
	Dimensions interior WxDxH (mm)	490x440x434	400x575x1505	500x685x1505
	Insulation (mm)	60	60	60
	Temperature range (°C)	-30 / -10	-30 / -10	-30 / -10
	Max. ambient temperature (°C)	25	25	25
Power	Power supply (V)	230*	230*	230*
	Frequency (Hz)	50/60	50/60	50/60
	Power consumption (KWH/24H)	10,1	8,4	9,6
	AMP (A)	3,7	3,7	4,2
	Power (Watt)	559	562	577
	Horse power (HP)	3/8	1/2	3/4
	Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours
Alarm	Alarm display as text - not codes	yes	yes	yes
	Visual / Acoustic alarm	yes	yes	yes
	Power failure alarm	yes	yes	yes
	Adjustable high/low temperature alarm	yes	yes	yes
	Open door alarm	yes	yes	yes
	Probe failure alarm	yes	yes	yes
	Low battery alarm	yes	yes	yes
	Compressor alarm	yes	yes	yes
Logger and external connection	Contact for remote alarm	yes	yes	yes
	Prepared for GSM alarm module	yes	yes	yes
	Data logger	yes	yes	yes
	RS485 Interface	yes	yes	yes
	USB for software upload	yes	yes	yes
	USB readout for logged data	yes	yes	yes
	Chart recorder	optional	optional	optional
Other display information	Digital display	yes	yes	yes
	Defrost manual / auto	yes	yes	yes
	2 extra probes can be mounted inside	yes	yes	yes
	Password protection for turning unit on/off	yes	yes	yes
	Temperature graph on display	yes	yes	yes
Other equipment	Porthole for external probe etc.	no	no	no
	Lighting	no	no	no
	Key lock / Card lock	yes / optional	yes / optional	yes / optional
	Castors / with break in front	2 small in the back	yes / yes	yes / yes
	Shelves (pcs.) / drawers (pcs.)	2 / optional	3 / optional	3 / optional
	Adjustable shelves (pcs.) / drawers (pcs.)	2 / optional	3 / optional	3 / optional
	Basket (pcs.)	no	no	no
	Sub lids / sub doors (pcs.)	no	no	no
	Reversible doors (pcs.)	yes	yes	yes
Refrigeration & cabinet	No. of compressors	1	1	1
	Refrigerant	R404a	R404a	R404a
	Inner liner material	stainless steel	stainless steel	stainless steel
	Cabinet material	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel
	Colour (exterior)	white / stainless steel	white / stainless steel	white / stainless steel
	Foam agent	polyurethane	polyurethane	polyurethane
Shipping information	Weight (KG)	65	103	132
	Shipping weight (KG)	87	143	181
	Shipping dimensions WxDxH (cm)	81x69x103	83x67x220	101x74x220
	Shipping m3	0,58	1,22	1,64

We reserve the right to change specifications without notice. Subject to confirmation, availability and errors.

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MODEL	LF 660-2 / LF 660-2-ST	LF 700 / LF 700-ST	LAF 700 / LAF 700-ST	LF 1400 / LF 1400-ST
Unit Information				
Item code	DAI 0295 / DAI 0296	DAI 0255 / DAI 0256	DAI 0290 / DAI 0291	DAI 0275 / DAI 0276
Dimensions exterior WxDxH (mm)	720x860x1997	720x860x1997	740x870x2017	1440x860x1997
Capacity (L)	288 / 288	618	618	1361
Dimensions interior WxDxH (mm)	2x(600x685x700)	600x685x1505	600x685x1505	1320x685x1505
Insulation (mm)	60	60	70	60
Temperature range (°C)	-30 / -10	-30 / -10	-40 / -10	-30 / -10
Max. ambient temperature (°C)	25	25	25	25
Power				
Power supply (V)	230*	230*	230*	230*
Frequency (Hz)	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	18,3	9,8	14,9	18,1
AMP (A)	5,1	4,0	4,1	4,9
Power (Watt)	830	550	735	964
Horse power (HP)	1/3 / 1/2	5/8	1	1 1/4
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours
Alarm				
Alarm display as text - not codes	yes	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes	yes
Power failure alarm	yes	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes
Open door alarm	yes	yes	yes	yes
Probe failure alarm	yes	yes	yes	yes
Low battery alarm	yes	yes	yes	yes
Compressor alarm	yes	yes	yes	yes
Logger and external connection				
Contact for remote alarm	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes
Data logger	yes	yes	yes	yes
RS485 Interface	yes	yes	yes	yes
USB for software upload	yes	yes	yes	yes
USB readout for logged data	yes	yes	yes	yes
Chart recorder	optional	optional	optional	optional
Other display information				
Digital display	yes	yes	yes	yes
Defrost manual / auto	yes	yes	yes	yes
2 extra probes can be mounted inside	yes	yes	yes	yes
Password protection for turning unit on/off	yes	yes	yes	yes
Temperature graph on display	yes	yes	yes	yes
Other equipment				
Porthole for external probe etc.	no	no	no	no
Lighting	no	no	no	no
Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional
Castors / with break in front	yes / yes	yes / yes	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	4 / optional	3 / optional	3 / optional	6 / optional
Adjustable shelves (pcs.) / drawers (pcs.)	4 / optional	3 / optional	3 / optional	6 / optional
Basket (pcs.)	no	no	no	no
Sub lids / sub doors (pcs.)	no	no	no	no
Reversible doors (pcs.)	yes	yes	yes	yes
Refrigeration & cabinet				
No. of compressors	2	1	1	1
Refrigerant	R404a	R404a	R404a	R404a
Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel
Cabinet material	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel
Colour (exterior)	white / stainless steel	white / stainless steel	white / stainless steel	white / stainless steel
Foam agent	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information				
Weight (KG)	163	131	138	195
Shipping weight (KG)	228	196	208	278
Shipping dimensions WxDxH (cm)	102x84x220	102x84x220	102x84x220	160x84x220
Shipping m3	1,88	1,88	1,88	2,96

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BIOMEDICAL GLASS DOOR FREEZERS

-23°C

MODEL		PF 100 / PF 100-ST	PF 300 / PF 300-ST	PF 500 / PF 500-ST	PF 700 / PF 700-ST	PF 1400 / PF 1400-ST
Unit Information	Item code	DAI 0900 / DAI 0901	DAI 0890 / DAI 0891	DAI 0857 / DAI 0856	DAI 0865 / DAI 0866	DAI 0875 / DAI 0876
	Dimensions exterior WxDxH (mm)	610x659x790	520x690x1997	620x860x1997	720x860x1997	1440x860x1997
	Capacity (L)	94	352	523	628	1381
	Dimensions interior WxDxH (mm)	490x440x440	400x585x1505	500x695x1505	600x695x1505	1320x695x1505
	Insulation (mm)	60	60	60	60	60
	Temperature range (°C)	-23 / -10	-23 / -10	-23 / -10	-23 / -10	-23 / -10
	Max. ambient temperature (°C)	25	25	25	25	25
Power	Power supply (V)	230*	230*	230*	230*	230*
	Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
	Power consumption (KWH/24H)	11,1	11,9	9,9	11	20
	AMP (A)	4,0	4,0	4,2	4,1	4,9
	Power (Watt)	616	613	570	693	964
	Horse power (HP)	3/8	1/2	3/8	3/4	1/2
	Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours	72 hours
Alarm	Alarm display as text - not codes	yes	yes	yes	yes	yes
	Visual / Acoustic alarm	yes	yes	yes	yes	yes
	Power failure alarm	yes	yes	yes	yes	yes
	Adjustable high/low temperature alarm	yes	yes	yes	yes	yes
	Open door alarm	yes	yes	yes	yes	yes
	Probe failure alarm	yes	yes	yes	yes	yes
	Low battery alarm	yes	yes	yes	yes	yes
	Compressor alarm	yes	yes	yes	yes	yes
Logger and external connection	Contact for remote alarm	yes	yes	yes	yes	yes
	Prepared for GSM alarm module	yes	yes	yes	yes	yes
	Data logger	yes	yes	yes	yes	yes
	RS485 Interface	yes	yes	yes	yes	yes
	USB for software upload	yes	yes	yes	yes	yes
	USB readout for logged data	yes	yes	yes	yes	yes
	Chart recorder	optional	optional	optional	optional	optional
Other display information	Digital display	yes	yes	yes	yes	yes
	Defrost manual / auto	yes	yes	yes	yes	yes
	2 extra probes can be mounted inside	yes	yes	yes	yes	yes
	Password protection for turning unit on/off	yes	yes	yes	yes	yes
	Temperature graph on display	yes	yes	yes	yes	yes
Other equipment	Porthole for external probe etc.	no	no	no	no	no
	Lighting	yes	yes	yes	yes	yes
	Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional
	Castors / with break in front	2 small in the back	yes / yes	yes / yes	yes / yes	yes / yes
	Shelves (pcs.) / drawers (pcs.)	2 / optional	3 / optional	3 / optional	3 / optional	6 / optional
	Adjustable shelves (pcs.) / drawers (pcs.)	2 / optional	3 / optional	3 / optional	3 / optional	6 / optional
	Basket (pcs.)	no	no	no	no	no
	Sub lids / sub doors (pcs.)	no	no	no	no	no
	Reversible doors (pcs.)	yes	yes	yes	yes	yes
Refrigeration & cabinet	No. of compressors	1	1	1	1	1
	Refrigerant	R404a	R404a	R404a	R404a	R404a
	Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
	Cabinet material	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel
	Colour (exterior)	white / stainless steel	white / stainless steel	white / stainless steel	white / stainless steel	white / stainless steel
	Foam agent	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information	Weight (KG)	65	103	135	138	209
	Shipping weight (KG)	87	160	184	203	292
	Shipping dimensions WxDxH (cm)	81x69x103	83x67x220	101x74x220	102x84x220	160x84x220
	Shipping m3	0,58	1,22	1,64	1,88	2,96

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BIOMEDICAL REFRIGERATORS

+1 / +10°C

MODEL	LR 100 / LR 100-ST	LR 270-2 / LR 270-2-ST	LR 300 / LR 300-ST	LR 500 / LR 500-ST
Unit Information				
Item code	DAI 0280 / DAI 0281	DAI 0230 / DAI 0231	DAI 0220 / DAI 0221	DAI 0240 / DAI 0241
Dimensions exterior WxDxH (mm)	610x659x790	520x700x1997	520x700x1997	620x860x1997
Capacity (L)	94	161 / 161	346	515
Dimensions interior WxDxH (mm)	490x440x434	2x(400x575x700)	400x575x1505	500x685x1505
Insulation (mm)	60	60	60	60
Temperature range (°C)	+1 / +10	+1 / +10	+1 / +10	+1 / +10
Max. ambient temperature (°C)	43	43	43	43
Power				
Power supply (V)	230*	230*	230*	230*
Frequency (Hz)	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	2,0	5,9	2,3	2,7
AMP (A)	1,4	2,9	1,4	1,9
Power (Watt)	206	421	199	325
Horse power (HP)	1/8	2 x 1/8	1/8	1/3
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours
Alarm				
Alarm display as text - not codes	yes	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes	yes
Power failure alarm	yes	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes
Open door alarm	yes	yes	yes	yes
Probe failure alarm	yes	yes	yes	yes
Low battery alarm	yes	yes	yes	yes
Compressor alarm	yes	yes	yes	yes
Logger and external connection				
Contact for remote alarm	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes
Data logger	yes	yes	yes	yes
RS485 Interface	yes	yes	yes	yes
USB for software upload	yes	yes	yes	yes
USB readout for logged data	yes	yes	yes	yes
Chart recorder	optional	optional	optional	optional
Other display information				
Digital display	yes	yes	yes	yes
Defrost manual / auto	yes	yes	yes	yes
2 extra probes can be mounted inside	yes	yes	yes	yes
Password protection for turning unit on/off	yes	yes	yes	yes
Temperature graph on display	yes	yes	yes	yes
Other equipment				
Porthole for external probe etc.	no	no	no	no
Lighting	no	no	no	no
Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional
Castors / with break in front	2 small in the back	yes / yes	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	2 / optional	4 / optional	3 / optional	3 / optional
Adjustable shelves (pcs.) / drawers (pcs.)	2 / optional	4 / optional	3 / optional	3 / optional
Basket (pcs.)	no	no	no	no
Sub lids / sub doors (pcs.)	no	no	no	no
Reversible doors (pcs.)	yes	yes	yes	yes
Refrigeration & cabinet				
No. of compressors	1	2	1	1
Refrigerant	R134a	R134a	R134a	R134a
Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel
Cabinet material	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel
Colour (exterior)	white / stainless steel	white / stainless steel	white / stainless steel	white / stainless steel
Foam agent	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information				
Weight (KG)	61	120	98	132
Shipping weight (KG)	83	175	143	181
Shipping dimensions WxDxH (cm)	81x69x103	83x67x220	83x67x220	101x74x220
Shipping m3	0,58	1,22	1,22	1,64

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MODEL	LR 660-2 / LR 660-2-ST	LR 700 / LR 700-ST	LR 1400 / LR 1400-ST
Unit Information			
Item code	DAI 0260 / DAI 0261	DAI 0250 / DAI 0251	DAI 0270 / DAI 0271
Dimensions exterior WxDxH (mm)	720x860x1997	720x860x1997	1440x860x1997
Capacity (L)	288 / 288	618	1361
Dimensions interior WxDxH (mm)	2x(600x685x700)	600x685x1505	1320x685x1505
Insulation (mm)	60	60	60
Temperature range (°C)	+1 / +10	+1 / +10	+1 / +10
Max. ambient temperature (°C)	43	43	43
Power			
Power supply (V)	230*	230*	230*
Frequency (Hz)	50/60	50/60	50/60
Power consumption (KWH/24H)	2 x 2,6	2,6	6,5
AMP (A)	2,0	2,0	3,9
Power (Watt)	311	311	653
Horse power (HP)	2 x 1/3	1/3	1/2
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours
Alarm			
Alarm display as text - not codes	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes
Power failure alarm	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes
Open door alarm	yes	yes	yes
Probe failure alarm	yes	yes	yes
Low battery alarm	yes	yes	yes
Compressor alarm	yes	yes	yes
Logger and external connection			
Contact for remote alarm	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes
Data logger	yes	yes	yes
RS485 Interface	yes	yes	yes
USB for software upload	yes	yes	yes
USB readout for logged data	yes	yes	yes
Chart recorder	optional	optional	optional
Other display information			
Digital display	yes	yes	yes
Defrost manual / auto	yes	yes	yes
2 extra probes can be mounted inside	yes	yes	yes
Password protection for turning unit on/off	yes	yes	yes
Temperature graph on display	yes	yes	yes
Other equipment			
Porthole for external probe etc.	no	no	no
Lighting	no	no	no
Key lock / Card lock	yes / optional	yes / optional	yes / optional
Castors / with break in front	yes / yes	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	4 / optional	3 / optional	6 / optional
Adjustable shelves (pcs.) / drawers (pcs.)	4 / optional	3 / optional	6 / optional
Basket (pcs.)	no	no	no
Sub lids / sub doors (pcs.)	no	no	no
Reversible doors (pcs.)	yes	yes	yes
Refrigeration & cabinet			
No. of compressors	2	1	1
Refrigerant	R134a	R134a	R404a
Inner liner material	stainless steel	stainless steel	stainless steel
Cabinet material	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel
Colour (exterior)	white / stainless steel	white / stainless steel	white / stainless steel
Foam agent	polyurethane	polyurethane	polyurethane
Shipping information			
Weight (KG)	143	131	195
Shipping weight (KG)	229	196	278
Shipping dimensions WxDxH (cm)	102x84x220	102x84x220	160x84x220
Shipping m3	1,88	1,88	2,96

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BIOMEDICAL GLASS DOOR REFRIGERATORS

+1 / +10°C

MODEL	PR 100 / PR 100-ST	PR 300 / PR 300-ST	PR 500 / PR 500-ST	PR 700 / PR 700-ST	PR 1400 / PR 1400-ST
Unit Information					
Item code	DAI 0895 / DAI 0896	DAI 0885 / DAI 0886	DAI 0850 / DAI 0851	DAI 0860 / DAI 0861	DAI 0870 / DAI 0871
Dimensions exterior WxDxH (mm)	610x659x790	520x690x1997	620x860x1997	720x860x1997	1440x860x1997
Capacity (L)	94	352	523	628	1381
Dimensions interior WxDxH (mm)	490x440x434	400x585x1505	500x695x1505	600x695x1505	1320x695x1505
Insulation (mm)	60	60	60	60	60
Temperature range (°C)	+1 / +10	+1 / +10	+1 / +10	+1 / +10	+1 / +10
Max. ambient temperature (°C)	32	32	32	32	32
Power					
Power supply (V)	230*	230*	230*	230*	230*
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	4,2	3,4	3,6	4,1	8,1
AMP (A)	1,6	1,4	2,4	1,9	3,8
Power (Watt)	254	228	326	318	618
Horse power (HP)	1/8	1/8	1/3	1/3	1/3
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours	72 hours
Alarm					
Alarm display as text - not codes	yes	yes	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes	yes	yes
Power failure alarm	yes	yes	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes	yes
Open door alarm	yes	yes	yes	yes	yes
Probe failure alarm	yes	yes	yes	yes	yes
Low battery alarm	yes	yes	yes	yes	yes
Compressor alarm	yes	yes	yes	yes	yes
Logger and external connection					
Contact for remote alarm	yes	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes	yes
Data logger	yes	yes	yes	yes	yes
RS485 Interface	yes	yes	yes	yes	yes
USB for software upload	yes	yes	yes	yes	yes
USB readout for logged data	yes	yes	yes	yes	yes
Chart recorder	optional	optional	optional	optional	optional
Other display information					
Digital display	yes	yes	yes	yes	yes
Defrost manual / auto	yes	yes	yes	yes	yes
2 extra probes can be mounted inside	yes	yes	yes	yes	yes
Password protection for turning unit on/off	yes	yes	yes	yes	yes
Temperature graph on display	yes	yes	yes	yes	yes
Other equipment					
Porthole for external probe etc.	no	no	no	no	no
Lighting	yes	yes	yes	yes	yes
Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional
Castors / with break in front	2 small in the back	yes / yes	yes / yes	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	2 / optional	3 / optional	3 / optional	3 / optional	6 / optional
Adjustable shelves (pcs.) / drawers (pcs.)	2 / optional	3 / optional	3 / optional	3 / optional	6 / optional
Basket (pcs.)	no	no	no	no	no
Sub lids / sub doors (pcs.)	no	no	no	no	no
Reversible doors (pcs.)	yes	yes	yes	yes	yes
Refrigeration & cabinet					
No. of compressors	1	1	1	1	1
Refrigerant	R134a	R134a	R134a	R134a	R404a
Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Cabinet material	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel
Colour (exterior)	white / stainless steel	white / stainless steel	white / stainless steel	white / stainless steel	white / stainless steel
Foam agent	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information					
Weight (KG)	61	103	135	138	209
Shipping weight (KG)	83	160	184	203	292
Shipping dimensions WxDxH (cm)	81x69x103	83x67x220	101x74x220	102x84x220	160x84x220
Shipping m3	0,58	1,22	1,64	1,88	2,96

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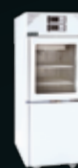
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-30 / +10°C

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MODEL	LFF 270 / LFF 270-ST	LFF 660 / LFF 660-ST	LFFG 270 / LFFG 270-ST	LFFG 660 / LFFG 660-ST
Unit Information				
Item code	DAI 0235 / DAI 0236	DAI 0265 / DAI 0266	DAI 0325 / DAI 326	DAI 0330 / DAI 0331
Dimensions exterior WxDxH (mm)	520x700x1997	720x860x1997	520x700x1997	720x860x1997
Capacity (L)	161 / 161	288 / 288	161 / 161	288 / 288
Dimensions interior WxDxH (mm)	2x(400x575x700)	2x(600x685x700)	2x(400x575x700)	2x(600x685x700)
Insulation (mm)	60	60	60	60
Temperature range (°C)	+1 / +10 -30 / -10	+1 / +10 -30 / -10	+1 / +10 -30 / -10	+1 / +10 -30 / -10
Max. ambient temperature (°C)	32	32	32	32
Power				
Power supply (V)	230*	230*	230*	230*
Frequency (Hz)	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	11,4	11,3	14,7	12,7
AMP (A)	5,8	5,1	5,7	5,4
Power (Watt)	728	749	814	809
Horse power (HP)	1/10 1/8	1/3 1/2	1/3 1/2	1/3 1/2
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours
Alarm				
Alarm display as text - not codes	yes	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes	yes
Power failure alarm	yes	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes
Open door alarm	yes	yes	yes	yes
Probe failure alarm	yes	yes	yes	yes
Low battery alarm	yes	yes	yes	yes
Compressor alarm	yes	yes	yes	yes
Logger and external connection				
Contact for remote alarm	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes
Data logger	yes	yes	yes	yes
RS485 Interface	yes	yes	yes	yes
USB for software upload	yes	yes	yes	yes
USB readout for logged data	yes	yes	yes	yes
Chart recorder	optional	optional	optional	optional
Other display information				
Digital display	yes	yes	yes	yes
Defrost manual / auto	yes	yes	yes	yes
2 extra probes can be mounted inside	yes	yes	yes	yes
Password protection for turning unit on/off	yes	yes	yes	yes
Temperature graph on display	yes	yes	yes	yes
Other equipment				
Porthole for external probe etc.	no	no	no	no
Lighting	no	no	no	no
Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional
Castors / with break in front	yes / yes	yes / yes	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	4 / optional	4 / optional	4 / optional	4 / optional
Adjustable shelves (pcs.) / drawers (pcs.)	4 / optional	4 / optional	4 / optional	4 / optional
Basket (pcs.)	no	no	no	no
Sub lids / sub doors (pcs.)	no	no	no	no
Reversible doors (pcs.)	yes	yes	yes	yes
Refrigeration & cabinet				
No. of compressors	2	2	2	2
Refrigerant	R134a / R404a	R134a / R404a	R134a / R404a	R134a / R404a
Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel
Cabinet material	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel	varnished steel / stainless steel
Colour (exterior)	white / stainless steel	white / stainless steel	white / stainless steel	white / stainless steel
Foam agent	polyurethane	polyurethane	polyurethane	polyurethane
Shipping Information				
Weight (KG)	120	163	120	163
Shipping weight (KG)	175	218	175	218
Shipping dimensions WxDxH (cm)	83x67x220	102x84x220	83x67x220	102x84x220
Shipping m3	1,22	1,88	1,22	1,88

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MODEL	BBR 100	BBR 300	BBR 500	BBR 700	BBR 1400
Unit Information					
Item code	DAI 1110	DAI 1115	DAI 1120	DAI 1125	DAI 1130
Dimensions exterior WxDxH (mm)	610x659x790	520x690x1997	620x860x1997	720x860x1997	1440x860x1997
Capacity (L)	94	352	523	628	1381
Dimensions interior WxDxH (mm)	490x440x434	400x585x1505	500x695x1505	600x695x1505	1320x695x1505
Insulation (mm)	60	60	60	60	60
Temperature range (°C)	+4	+4	+4	+4	+4
Max. ambient temperature (°C)	32	32	32	32	32
Power					
Power supply (V)	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Power consumption (KWH/24H)	4,4	5,2	6,2	5,8	11,6
AMP (A)	1,9	2,0	2,4	2,4	4,6
Power (Watt)	307	382	401	413	826
Horse power (HP)	1/10	1/8	1/4	1/4	1/2
Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours	72 hours
Alarm					
Alarm display as text - not codes	yes	yes	yes	yes	yes
Visual / Acoustic alarm	yes	yes	yes	yes	yes
Power failure alarm	yes	yes	yes	yes	yes
Adjustable high/low temperature alarm	yes	yes	yes	yes	yes
Open door alarm	yes	yes	yes	yes	yes
Probe failure alarm	yes	yes	yes	yes	yes
Low battery alarm	yes	yes	yes	yes	yes
Compressor alarm	yes	yes	yes	yes	yes
Logger and external connection					
Contact for remote alarm	yes	yes	yes	yes	yes
Prepared for GSM alarm module	yes	yes	yes	yes	yes
Data logger	yes	yes	yes	yes	yes
RS485 Interface	yes	yes	yes	yes	yes
USB for software upload	yes	yes	yes	yes	yes
USB readout for logged data	yes	yes	yes	yes	yes
Chart recorder	yes	yes	yes	yes	yes
Other display information					
Digital display	yes	yes	yes	yes	yes
Defrost manual / auto	yes	yes	yes	yes	yes
2 extra probes can be mounted inside	yes	yes	yes	yes	yes
Password protection for turning unit on/off	yes	yes	yes	yes	yes
Temperature graph on display	yes	yes	yes	yes	yes
Other equipment					
Porthole for external probe etc.	no	no	no	no	no
Lighting	yes	yes	yes	yes	yes
Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional
Castors / with break in front	2 small in the back	yes / yes	yes / yes	yes / yes	yes / yes
Shelves (pcs.) / drawers (pcs.)	no / 2	no / 5	no / 5	no / 5	no / 10
Adjustable shelves (pcs.) / drawers (pcs.)	no / 2	no / 5	no / 5	no / 5	no / 10
Basket (pcs.)	no	no	no	no	no
Sub lids / sub doors (pcs.)	no	no	no	no	no
Reversible doors (pcs.)	yes	yes	yes	yes	yes
Refrigeration & cabinet					
No. of compressors	1	1	1	1	1
Refrigerant	R134a	R134a	R134a	R134a	R404a
Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Cabinet material	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel
Colour (exterior)	white	white	white	white	white
Foam agent	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information					
Weight (KG)	71	133	148	163	198
Shipping weight (KG)	93	202	228	250	324
Shipping dimensions WxDxH (cm)	81x69x103	74x83x220	106x74x220	109x84x220	156x108x220
Shipping m3	0,58	1,35	1,73	2,01	3,71

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BLOOD BANK REFRIGERATORS DOUBLE SECURITY
+4°C

ARCTIKO
true cooling specialists

	MODEL	BBR 100-D	BBR 300-D	BBR 500-D	BBR 700-D	BBR 1400-D
Unit Information	Item code	DAI 1135	DAI 1140	DAI 1145	DAI 1150	DAI 1155
	Dimensions exterior WxDxH (mm)	610x659x790	520x690x1997	620x860x1997	720x860x1997	1440x860x1997
	Capacity (L)	94	352	523	628	1381
	Dimensions interior WxDxH (mm)	490x440x434	400x585x1505	500x695x1505	600x695x1505	1320x695x1505
	Insulation (mm)	60	60	60	60	60
	Temperature range (°C)	+4	+4	+4	+4	+4
	Max. ambient temperature (°C)	32	32	32	32	32
Power	Power supply (V)	230	230	230	230	230
	Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
	Power consumption (KWH/24H)	4,3	6,4	7,7	8,5	10,5
	AMP (A)	1,7	2,3	2,6	4,2	4,4
	Power (Watt)	264	376	468	474	751
	Horse power (HP)	2 x 1/10	2 x 1/8	2 x 1/4	2 x 1/4	2 x 1/2
	Battery backup for alarms and temperature display in the event of power cut (approx hours)	72 hours	72 hours	72 hours	72 hours	72 hours
Alarm	Alarm display as text - not codes	yes	yes	yes	yes	yes
	Visual / Acoustic alarm	yes	yes	yes	yes	yes
	Power failure alarm	yes	yes	yes	yes	yes
	Adjustable high/low temperature alarm	yes	yes	yes	yes	yes
	Open door alarm	yes	yes	yes	yes	yes
	Probe failure alarm	yes	yes	yes	yes	yes
	Low battery alarm	yes	yes	yes	yes	yes
	Compressor alarm	yes	yes	yes	yes	yes
Logger and external connection	Contact for remote alarm	yes	yes	yes	yes	yes
	Prepared for GSM alarm module	yes	yes	yes	yes	yes
	Data logger	yes	yes	yes	yes	yes
	RS485 Interface	yes	yes	yes	yes	yes
	USB for software upload	yes	yes	yes	yes	yes
	USB readout for logged data	yes	yes	yes	yes	yes
	Chart recorder	yes	yes	yes	yes	yes
Other display information	Digital display	yes	yes	yes	yes	yes
	Defrost manual / auto	yes	yes	yes	yes	yes
	2 extra probes can be mounted inside	yes	yes	yes	yes	yes
	Password protection for turning unit on/off	yes	yes	yes	yes	yes
	Temperature graph on display	yes	yes	yes	yes	yes
Other equipment	Porthole for external probe etc.	no	no	no	no	no
	Lighting	yes	yes	yes	yes	yes
	Key lock / Card lock	yes / optional	yes / optional	yes / optional	yes / optional	yes / optional
	Castors / with break in front	2 small in the back	yes / yes	yes / yes	yes / yes	yes / yes
	Shelves (pcs.) / drawers (pcs.)	no / 2	no / 5	no / 5	no / 5	no / 10
	Adjustable shelves (pcs.) / drawers (pcs.)	no / 2	no / 5	no / 5	no / 5	no / 10
	Basket (pcs.)	no	no	no	no	no
	Sub lids / sub doors (pcs.)	no	no	no	no	no
	Reversible doors (pcs.)	yes	yes	yes	yes	yes
Refrigeration & cabinet	No. of compressors	2	2	2	2	2
	Refrigerant	R134a	R134a	R134a	R134a	R404a
	Inner liner material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
	Cabinet material	varnished steel	varnished steel	varnished steel	varnished steel	varnished steel
	Colour (exterior)	white	white	white	white	white
	Foam agent	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Shipping information	Weight (KG)	86	148	163	178	213
	Shipping weight (KG)	108	217	243	265	340
	Shipping dimensions WxDxH (cm)	81x69x103	83x74x220	106x74x220	109x84x220	156x108x220
	Shipping m3	0,58	1,35	1,73	2,01	3,71

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REFERENCES

LABORATORIES State Serum Institute, Copenhagen, Denmark · Max Planck Institute, Heidelberg, Germany · Laboratory SZU, Prague, Czech Republic · Biotest, Pardubice, Czech Republic · FNKV, Prague, Czech Republic · Vidia, Prague, Czech Republic · Endokrinologie, Prague, Czech Republic · FN Brno, Czech Republic · National Cancer Cell Research Institute, Japan · National Institute for Environmental · Studies, Japan · National Institute of Health Sciences, Japan · National Institute of Neuroscience, Japan · Research Institute International Medical Centre of, Japan · National Institute of Infection, Japan · Ministry of Agriculture, Forestry and Fisheries, Japan

HOSPITALS Roskilde Hospital, Denmark · Copenhagen Hospital, Denmark · Atatürk University Hospital, Turkey · Tokyo University Hospital, Japan · Hospital NsP Na Homolce, Prague, Czech Republic · Sharite Medical Hospital, University of Berlin, Germany · University Hospital Center of Annaba, Algeria · University Hospital Center of Tlemecen, Algeria

UNIVERSITIES Aalborg University, Denmark · University of Copenhagen, Denmark · Cambridge University, United Kingdom · Ondokuzmayis University, Turkey · Ege University, Turkey · The University of Tokyo, Japan · Osaka University, Japan · Kyoto University, Japan · Hoddaido University, Japan · The University of Tokushima, Japan · Kumamoto University, Japan · Nippon Medical School, Japan · Tokyo Medical University, Japan · Tokyo Medical and Dental University, Japan
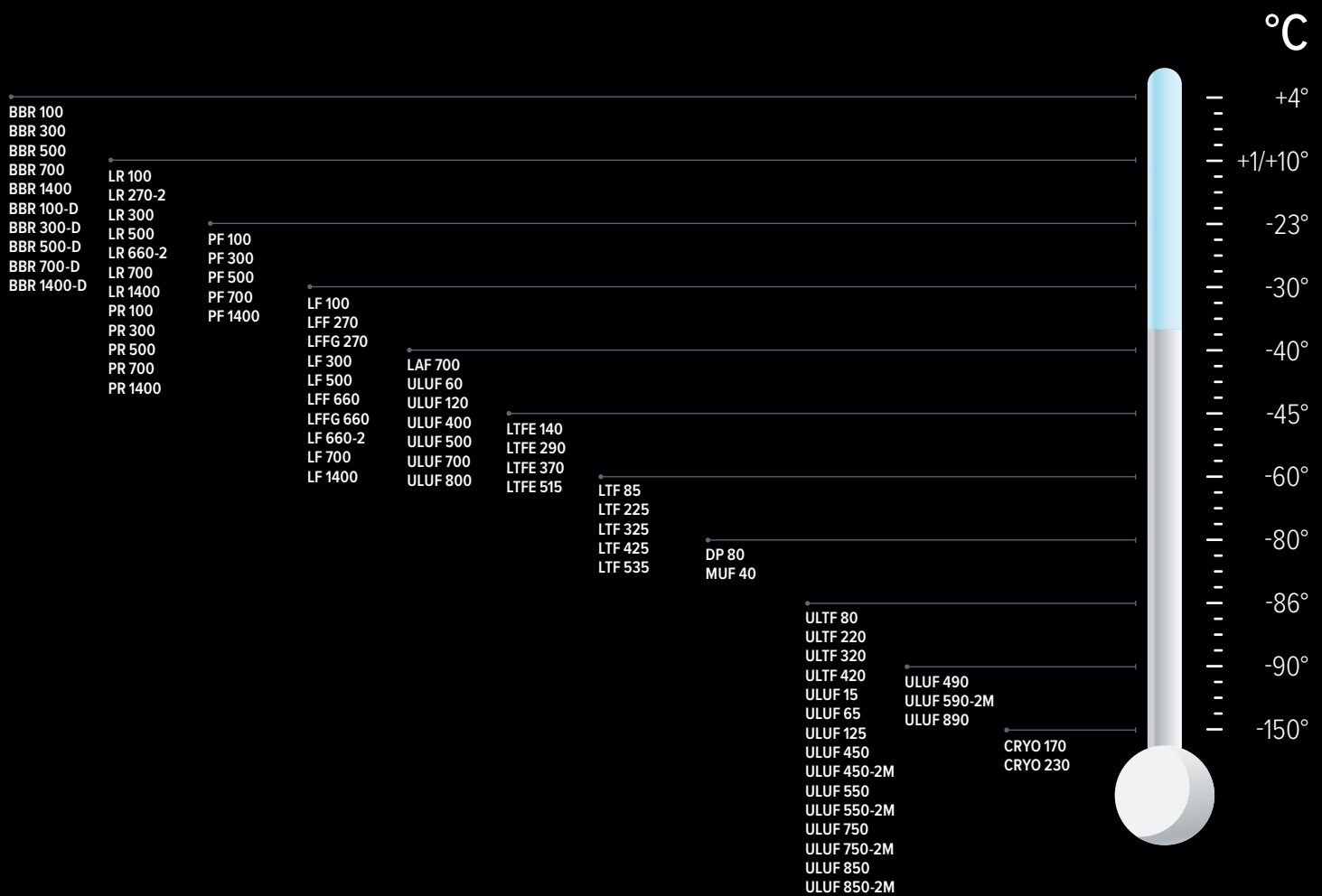
INSTITUTES Statens Serum Institut, Denmark

BIOMEDICAL SECTOR Vejle Hospital, Denmark · Holbaek Hospital, Denmark · Naestved Hospital, Denmark · Herlev Hospital, Denmark · Glostrup Hospital, Denmark · Biomedical Sector, Nove Mesto na Morave, Czech Republic · Biomedical Sector, Jilemnice, Czech Republic · Biomedical Sector, Hradec Kralove, Czech Republic

PRIVATE SECTOR Novo Nordisk, Denmark · Statens Serum Institut, Denmark · H. Lundbeck A/S, Denmark · Orion Pharmaceutical Company, Finland · Mono jo (Antibody production), Jordan · Abot Japan Co., Japan · Kissei Pharmaceutical Co., Japan · Dai-Ichi Pharmaceutical Co., Japan · Chugai Pharmaceutical Co., Japan · Nissui Pharmaceutical Co., Japan · Banyu Pharmaceutical Co., Japan · Mitsubishi Pharma Corporation, Japan · Yamanouchi Pharmaceutical Co., Japan · Asahi Breweries, Japan

And much more...

PRODUCT OVERVIEW

°C

+4°
+1/+10°
-23°
-30°
-40°
-45°
-60°
-80°
-86°
-90°
-150°

BBR 100
BBR 300
BBR 500
BBR 700
BBR 1400
BBR 100-D
BBR 300-D
BBR 500-D
BBR 700-D
BBR 1400-D

LR 100
LR 270-2
LR 300
LR 500
LR 660-2
LR 700
LR 1400
PR 100
PR 300
PR 500
PR 700
PR 1400

PF 100
PF 300
PF 500
PF 700
PF 1400

LF 100
LFF 270
LFFG 270
LF 300
LF 500
LFF 660
LFFG 660
LF 660-2
LF 700
LF 1400

LAF 700
ULUF 60
ULUF 120
ULUF 400
ULUF 500
ULUF 700
ULUF 800

LTFE 140
LTFE 290
LTFE 370
LTFE 515

LTF 85
LTF 225
LTF 325
LTF 425
LTF 535

DP 80
MUF 40

ULTF 80
ULTF 220
ULTF 320
ULTF 420
ULUF 15
ULUF 65
ULUF 125
ULUF 450
ULUF 450-2M
ULUF 550
ULUF 550-2M
ULUF 750
ULUF 750-2M
ULUF 850
ULUF 850-2M

ULUF 490
ULUF 590-2M
ULUF 890

CRYO 170
CRYO 230

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MISENA.DK / ARC70921-14-GB / 2017