

# BIOMEDICAL FREEZERS & REFRIGERATORS



# CERTIFICATES

### **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 our products always meets the expectations of our partners concerning high quality.



## ISO 13485

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

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



## **ETL CERTIFICATION**

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

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





## MEDICAL DEVICES DIRECTIVE

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

C E 2460

### **CE CERTIFICATION**

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

CE

### **FDA REGISTRATION**

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







## BIOMEDICAL STORAGE SOLUTIONS

## WITH HIGH RELIABILITY

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

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

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

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

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

- Lower power consumption
   Precise and stable cooling
   Temperature and alarm surveillance

# SPARK FREE INTERIOR

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

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

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

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



AVAILABLE IN ATEX

#### ATEX APPROVAL IS AVAILABLE AS AN OPTION ON:

F Range (Biomedical Combi) +1/+10°C / -10/

FG Range (Biomedical Combi) +1/+10°C / -10/-30°

R Range (Biomedical Refrigerator) +1/+10°



# BIOMEDICAL FREEZERS

The biomedical range allows you to store and secure your samples with outstanding cooling reliability and performance. Arctiko has combined the high-quality cooling performance created by forced air cooling with the features and user-friendliness offered by the Arctiko G214 controller. The results meet the strictest requirements for lower power consumption, more precise cooling uniformity, temperature and alarm surveillance, documentation and validation, this making the range a perfect solution for biomedical storage.

### BENEFITS

- The flexible interior allows you to mix shelves and drawers to accommodate any storage need you might have.
- Forced air cooling for high-temperature stability and quick temperature recovery after door openings.
- Door lock on all models for optimal security of your samples.
- · Stainless steel interior for good hygiene and easy cleaning.
- Automatic defrost for high temperature stability and uniformity ensures the integrity of your samples.
- Available with ATEX approved spark-free interior to keep your flammable liquids stored safely.

Features on page ▶ 74-75



-10 / -30 °C







AVAILABLE IN



AVAILABLE IN STAINLESS STEEL EXTERIOR

Unique 40°C unit with automatic defrost\*

LF 100	LF 300	LF 500	LF 660-2	LF 700	LF 1400	LAF 700*
DAI 0285	DAI 0225	DAI 0245	DAJ 0295	DAI 0255	DAI 0275	DAI 0290
610x659x790	520x700x1997	620x860x1997	720x860x1997	720x860x1997	1440x860x1997	740x870x2017
94	346	515	288/288	618	1361	618
-10 / -30	-10 / -30	-10 / -30	-10 / -30	-10 / -30	-10 / -30	-10 / -40
5	23	23	16	23	46	23
30	30	30	30	30	30	30
G214	G214	G214	G214	G214	G214	G214

## -30 °C









Rem code	-10 / -30  25  1361  1440x860x1997  105  1320x685x1505  195  60  forced air  00  G214 / PT1000  230***  50/60  18.1  4.9  964  11/4  yes  yes / yes
Max. ambient temperature (C) Capacity (L) Ca	25 1361 1361 1440x860x1997 105 1320x685x1505 195 60 forced air 00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Max. ambient temperature (C)   25   25   25   25   25   25   25   2	25 1361 1361 1440x860x1997 105 1320x685x1505 195 60 forced air 00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Capacity (L)   288 / 288   618   618   618     Exterior dimensions WxDxH (mm)   720x860x1997   720x860x1997   740x870x20     Interior dimensions WxDxH (mm)   2 x (600x685x700)   600x685x1505   600x685x15     Weight (KG)   163   133   138     Insulation (mm)   60   60   70     Cooling technology   6 forced air   forced air   forced air     Cooling technology   6214 / PT1000   6214 / PT1000   6214 / PT1000     Power supply (V)   230***   230***   230***   230***     Power consumption (kWh/24h)   18.3   9.8   14.9     AMP (A)   5.1   4.0   4.1     Power (Watt)   830   550   735     Horse power (HP)   12 / 1/2   5.78   1     Alarm display as text - not codes   yes   yes   yes   yes     Visual / acoustic alarm   yes / yes   yes / yes   yes / yes     Power failure alarm   yes / yes   yes / yes   yes / yes     Power failure alarm   yes / yes   yes / yes   yes / yes     Power failure alarm   yes   yes   yes   yes     Power failure alarm   yes   yes   yes   yes     Power failure alarm   yes   yes   yes   yes     Compressor failure alarm   no   no   no     Battery backup for alarms (e.g. GSM alarm module)   yes   yes   yes   yes   yes	1361 1440x860x1997 105 1320x685x1505 195 60 forced air 00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Exterior dimensions WxDxH (mm)	017 1440x860x1997 105 1320x685x1505 195 60 forced air 00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Interior dimensions WxDxH (mm)	1320x685x1505 195 60 forced air 00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Weight (K/G)   163   133   138   139   138   139   138   139   1	195 60 forced air 00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Insulation (mm)   60   60   70	60 forced air 00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Cooling technology	forced air 00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Controller model / probe type   G214 / PT1000   G214 / PT1000   G214 / PT1000	00 G214 / PT1000 230*** 50/60 18.1 4.9 964 11/4 yes yes / yes
Power supply (V)   230***	230*** 50/60 18.1 4.9 964 11/4 yes yes/yes
Frequency (Hz) 50/60 50/	50/60 18.1 4.9 964 11/4 yes yes / yes
Power consumption (kWh/24h)   18.3   9.8   14.9	18.1 4.9 964 11/4 yes yes / yes
AMP (A)   5.1   4.0   4.1	4.9 964 11/4 yes yes / yes
Power (Watt)   830   550   735	964 11/4 yes yes / yes
Power (Watt)   830   550   735	964 11/4 yes yes / yes
Horse power (HP)   1/2	11/4 yes yes / yes
Alarm display as text - not codes   yes	yes yes/yes
Visual / acoustic alarm   yes / yes   yes / yes   yes / yes   yes / yes   ye	yes/yes
Power failure alarm   yes	
Adjustable high / low temperature alarm	
Open door alarm         yes         yes         yes           Probe failure alarm         yes         yes         yes           Low battery alarm         yes         yes         yes           Compressor failure alarm         no         no         no           Battery backup for alarms (approx. hrs.)         72         72         72           Voltage free contact for remote alarm (e.g. GSM alarm module)         yes         yes         yes	yes
Probe failure alarm	yes / yes
Low battery alarm yes yes yes  Compressor failure alarm no no no  Battery backup for alarms (approx. hrs.) 72 72 72  Voltage free contact for remote alarm (e.g. GSM alarm module) yes yes yes	yes
Low battery alarm         yes         yes         yes           Compressor failure alarm         no         no         no           Battery backup for alarms (approx. hrs.)         72         72         72           Voltage free contact for remote alarm (e.g. GSM alarm module)         yes         yes         yes	yes
Compressor failure alarm no no no Battery backup for alarms (approx. hrs.) 72 72 72 72 72 72 Voltage free contact for remote alarm (e.g. GSM alarm module) yes yes yes	yes
Battery backup for alarms (approx. hrs.)  72  72  72  72  72  72  72  72  72  7	no
Voltage free contact for remote alarm (e.g. GSM alarm module) yes yes yes	
	72
	yes
Electronic data logger yes yes yes	yes
	yes
USB port for software update & data download yes yes yes	yes
Temperature chart recorder optional optional optional optional	optional
Display type 4,3" with touch buttons 4,3" with touch buttons 4,3" with touch buttons	outtons 4,3" with touch button
Number of optional reference probes 2 2 2	2
Password protection for turning unit on / off yes yes yes	yes
Temperature graph on display yes yes yes	yes
Automatic defrost yes yes yes	yes
Antifreeze function no no no	no
Vacuum release port no no no	no
Access port for external probe etc. (int. diameter mm) optional 12 12	12
Light no no no	no
Lock with key yes yes yes	yes
Castors (total pcs) / castors with brake (pcs) 4/2 4/2 4/2	5/3
Fixed feet (pcs) / levelling feet (pcs) no no no	no
Sub lids / inner doors (pcs) no no no	no
Reversible door(s) yes yes yes	yes
Fixed shelves (pcs) / adjustable shelves (pcs)	0/6
Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs) 16 / 8 23 / 11 23 / 11	46 / 22
Max. load per shelf (kg) 30 30 30	30
Adjustable drawers (pcs) optional optional optional	optional
Max. no. of adjustable drawers (pcs) 6 8 8	16
	30
Max. no. of blood bags - by standard no. of adj. drawers (pcs) no no no	no no
Max. no. of blood bags - by max. no. of adj. drawers (pcs) no no no	no
Baskets (pcs) no no no	no
Max. no. of baskets (pcs) no no no	no
Max. load per basket (kg) no no no	no
Total capacity of 50 mm boxes 9x9 didviders (pcs) no no no no	no
Total capacity of 75 mm boxes 9x9 didviders (pcs) no no no no	no
Total capacity of 96 mm boxes 9x9 didviders (pcs) no no no	no
Number of compressors 2 1 1	1
	- 12
Refrigerant R290 R290 R290	R290
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