Certificate of Registration



This is to certify that the quality management system of



Main site: Lammefjordsvej 5, 6715 Esbjerg N, Denmark

has been assessed and registered by Intertek as conforming to the requirements of

ISO 9001:2008

The quality management system is applicable to

Research, Development, Sales and Services of ultra low temperature freezers and laboratory refrigerators and freezers

Certificate Number: Initial Certification Date: Certificate Issue Date: Certificate Expiry Date: 33037-01 December 20 2007 December 9 2016 September 14 2018



1639 ISO/IEC 17021

Thomas Andersson, CEO Intertek Certification AB P.O. Box 1103, SE-164 22 Kista, Sweden

In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at certificate.validation@intertek.com or by scanning the code to the right with a smartphone.



The certificate remains the property of Intertek, to whom it must be returned upon request.





Installation and Operational Qualification

LFF 660 / -ST & LFFG 660 / -ST





ARCTIKO

IQ/OQ for LFF 660 /-ST & LFFG 660 /-ST Model.:

The objective of this Installation and Operational Qualification (IQ/OQ) Checklist is to qualify the installation and operation of the Arctiko Fridge/Freezer type LFF 660 /-ST & LFFG 660 /-ST for routine laboratory use. This Installation and Operation Qualification Check will define the minimum test procedures and acceptance criteria to be used to establish that the Arctiko Fridge/Freezers are installed and operated as per our specifications.

This checklist is mentioned to be used as input for distributors of Arctiko Fridge/Freezers. Please be aware that local circumstance can require additional control and verification during validation.

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1 Basic information

1.1 Basic information about the unit

Serial number:

Arctiko Purchase order:

Date of quality control:

Quality control carried out by:

Date & Sign:

| | Comments | |
|--|----------|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



2 Component Verification

2.1 Cabinet check points:

| Scope of supply | | Check |
|--------------------------|---|-------|
| Delivered versus P.O. | All Items are delivered as stated in P.O. | |

| | Cabinet check points | Check |
|---------------|--|-------|
| Body | All packing material has been removed | |
| | No scratches. No dents. No rust | |
| | No cracks on plastic frames | |
| Door | Can open and close | |
| | Can be locked via the key | |
| | No gab between gasket and frame | |
| Controller | No scratches on display | |
| | All cable mounted as per safety requirements | |
| Inside | No scratches or cracks on the inside of the door | |
| compartment | No scratches and cracks on the inside of the cabinet | |
| | Sensor mounted at the right place | |
| Documentation | Operating Instruction Manual available | |

| | Comments | |
|------|----------|------|
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| | | |
| | | |



3 Environmental Conditions Verification

3.1 Verify that the following is correct

| | Cabinet check points | Check |
|------------|----------------------|-------|
| Alarms | High temp. alarm | |
| | Low temp. alarm | |
| | Power failure | |
| Fan | No unusual noise | |
| Compressor | No unusual noise | |

| Environment | | Check |
|-------------------|---|-------|
| Clima | Max. ambient temp. 32°C Class N. No direct sun on the unit | |
| Electrical supply | As per stated in Operating Instruction Manual and in accordance to local regulations | |
| Surface | The unit kept on a solid flat surface to eliminate any vibrations & irritating noise | |
| Airflow | The unit is installed with at least 10 cm free space to the sides and 15 cm free space at the back | |

| Comments | |
|----------|--|
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4 Equipment File Verification

4.1 Verify that the documentation is available

| Documentation | Check |
|---|-------|
| Purchase Order | |
| Operating Instruction Manual | |
| Spare Parts List | |
| Declaration of Conformity (only for EU) | |

| Comments | |
|----------|--|
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5 Operational Qualification Data Sheet

5.1 Make sure that the following parameters will be noted and filled

It is our recommendation that the parameters are checked app. Ones time every year.

| Description | Arctiko default | Customer |
|-------------------------|-----------------|----------|
| | settings | setting. |
| Custom Settings | | |
| Password | 0000 | |
| Set point | | |
| Refrigerator | +4,0 | |
| Freezer | -20 | |
| Alarm Settings: | | |
| Alarm Delay | | |
| Refrigerator | 15 min. | |
| Freezer | 15 min. | |
| Door open alarm | | |
| Refrigerator | Enable | |
| Freezer | Enable | |
| High temp. alarm | | |
| Refrigerator | +6 -15 | |
| Freezer | -15 | |
| Low temp. alarm | | |
| Refrigerator | +2 | |
| Freezer | -30 | |
| Probe/eprom failure | | |
| Refrigerator | Enable | |
| Freezer | Enable | |
| Power failure | | |
| Refrigerator | Enable | |
| Freezer | Enable | |
| Alarm log time interval | | |
| Refrigerator | 1 | |
| Freezer | 1 | |

| | Comments | |
|--|----------|------|
| | | |
| | | |
| | | |



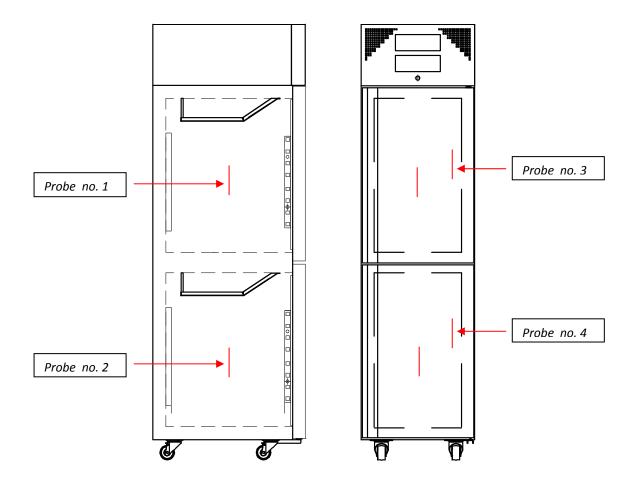
| Description | Arctiko default settings | Customer setting. |
|--------------------|-----------------------------|-------------------|
| Advanced Settings | | |
| Password | 0000 | |
| Calibration | | |
| Refrigerator | 0,0 | |
| Freezer | 0,0 | |
| Automatic defrost | | |
| Refrigerator | 06 | |
| Freezer | 06 | |
| Manual defrost | | |
| Refrigerator | OK | |
| Freezer | OK | |
| Hysteresis | | |
| Refrigerator | 1,0 | |
| Freezer | 1,0 | |
| Temp. range limits | | |
| Refrigerator | +10,0 | |
| Refrigerator | +1,0 | |
| Freezer | -30,0 | |
| Freezer | -10,0 | |

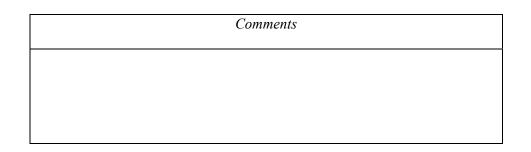
| Comments |
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6 Placement of test probes.

The probes must be placed in the unit like following marked with red. Probe no. 1 is placed in the middle of the room no. 1. Probe no. 2 is placed in the middle of the room no. 2 Probe no. 3 is placed beside the probe for the controller. Probe no. 4 is placed beside the probe for the controller.







7 Requirement for accept.

7.1 Max. deviation and performance limits.

| Max. Ambient temperature | 32°C +/- 2K |
|--|------------------------|
| Set point of controller | |
| Max. deviation between warmest and coldest spot in the unit: | 5K |
| | Probe no. on pull down |
| Actual value for probe no. 1: | |
| Max. temperature | |
| Min. temperature | |
| Passed Yes / No | |
| Actual value for probe no. 2: | |
| Max. temperature | |
| Min. temperature | |
| Passed Yes / No | |
| Actual value for probe no. 3: | |
| Max. temperature | |
| Min. temperature | |
| Passed Yes / No | |
| Actual value for probe no. 4: | |
| Max. temperature | |
| Min. temperature | |
| Passed Yes / No | |
| If there are deviation between probe placed beside the probe for and display then change the parameter "calibration". Start new test if the controller has been calibrate. | or controller |
| Pull down time | Max. 2 h |
| Passed Yes / No | |
| Comments | |



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5084029-06





LFF 660

SMART FRIDGE AND FREEZER IN ONE CABINET, MAKES IT A PERFECT SOLUTION FOR LABORATORIES WITH LIMITED SPACE DUE TO THE SMALL FOOTPRINT.

With air forced cooling and automatic defrost which will save time to focus on what's most important and store the samples most reliable.





AVAILARLE IN AIR FORCED ATEX

EILTERLESS CONSTRUCTION

INDEPENDENT & LESS FOOTPRINT

The LFF comes with two controllers allowing you to set and operate them as two independent units. With separate locks and passwords, it provides the ability to restrict access to storage and settings, in case the unit have multiple users. The unit is in effect of two fully independent units each with its own compressor, cooling circuit and controller - allowing to turn off one of the compartments in case that they are not in use for some time.

STAINLESS STEEL & AUTOMATIC DEFROST

COOLING.

The unit is available with stainless steel AISI 304 Exterior, so that the interior and exterior is made entirely of stainless steel, providing a stronger more resistant unit.

With Arctiko's automatic defrost system it's not required to remove samples prior to defrosting, saving you valuable time to focus on what matter the most and at the same time stores the samples safely.

EXCEPTIONAL COOLING

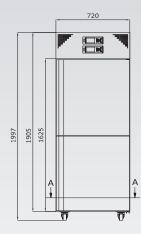
Arctiko has combined the high quality cooling performance created by air-forced cooling and automatic defrosting.

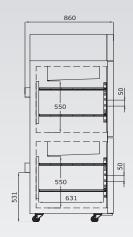
+1/+10°0

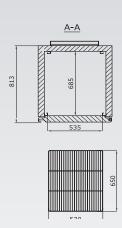
SMART BIOMEDICAL COMB

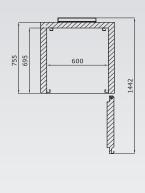
The results meet the more stringent requirements for lower power consumption, more precise cooling uniformity, need for temperature and alarm surveillance, documentation and validation, making the LFF 660 the perfect solution for biomedical storage.

MAIN DIMENSION FOR LFF 660









| MAIN | SPECIFIC | ATIONS |
|------|----------|--------|
|------|----------|--------|

| Item code | DAI 0265 / DAI 0266 |
|---|--|
| Temperature range (°C) | +1 / +10 -10 / -30 |
| Max. ambient temperature (°C) Capacity (L) | 288/288 |
| Exterior dimensions WxDxH (mm) | 720x860x1997 |
| Interior dimensions WxDxH (mm) | 2x(600x685x700) |
| Weight (KG) | 163 |
| Insulation (mm) | 60 |
| Cooling technology | air forced |
| Controller model / probe type | G214 / PT1000 |
| POWER | |
| Power supply (V) | 230* |
| Frequency (Hz) | 50/60 |
| Power consumption (kWh/24H) | 11,3 |
| AMP (A) | 5,1 749 |
| Power (Watt) Horse power (HP) | 1/3 + 1/2 |
| | 1/3 + 1/2 |
| | |
| Alarm display as text - not codes Visual / acoustic alarm | yes yes / yes |
| Power failure alarm | yes |
| Adjustable high / low temperature alarm | yes / yes |
| Open door alarm | yes |
| Probe failure alarm | yes |
| Low battery alarm | yes |
| Compressor failure alarm | no |
| Battery backup for alarms (approx. hrs.) | 72 |
| DATA LOGGING & EXTERNAL CONNECTION | |
| Voltage free contact for remote alarm (e.g. GSM alarm module) | yes |
| Electronic data logger RS 485 port | yes |
| USB port for software update & data download | yes yes |
| Temperature chart recorder | optional |
| DISPLAY FEATURES | |
| Display type | 4 Oll - The Letter is the United |
| Display type | 4,3" with touch buttons |
| Number of optional reference probes | 2 |
| Number of optional reference probes Password protection for turning unit on / off | 2 yes |
| Number of optional reference probes | 2 |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES | 2 yes |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost | 2 yes yes yes |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function | 2 yes yes no |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port | 2 yes yes no no |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function | 2 yes yes no |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) | 2 yes yes no no optional |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light | 2 yes yes no no optional no |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) | 2 yes yes no no optional no yes |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) Sub lids or inner doors (pcs) | 2 yes yes no no optional no yes 4/2 no no |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) Sub lids or inner doors (pcs) Reversible door(s) | 2 yes yes no no optional no yes 4 / 2 no no yes |
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| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Automatic defr | 2 yes yes no no optional no yes 4 / 2 no no yes |
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| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Automatic defrost Autigreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) Sub lids or inner doors (pcs) Reversible door(s) Fixed shelves (pcs) / adjustable shelves (pcs) Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs) Max. load per shelf (kg) | 2 yes yes no no optional no yes 4 / 2 no no yes 0 / 4 16 / 8 30 |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Automatic defrost Automatic defrost Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) Sub lids or inner doors (pcs) Reversible door(s) Fixed shelves (pcs) / adjustable shelves (pcs) Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs) Max. load per shelf (kg) Adjustable drawers (pcs) | 2 yes yes no no optional no yes 4 / 2 no no yes 0 / 4 16 / 8 30 optional |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) Sub lids or inner doors (pcs) Reversible door(s) Fixed shelves (pcs) / adjustable shelves (pcs) Max. no. of shelves (pcs) Max. no. of shelves (pcs) Max. no. of adjustable drawers (pcs) | 2 yes yes no no optional no yes 4 / 2 no no yes 0 / 4 16 / 8 30 optional 6 |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) Sub lids or inner doors (pcs) Reversible door(s) Fixed shelves (pcs) / adjustable shelves (pcs) Max. no. of shelves (pcs) Max. load per shelf (kg) Adjustable drawers (pcs) Max. no. of adjustable drawers (pcs) | 2 yes yes no no optional no yes 4 / 2 no no yes 0 / 4 16 / 8 30 optional 6 |
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| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) Sub lids or inner doors (pcs) Reversible door(s) Fixed shelves (pcs) / adjustable shelves (pcs) Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs) Max. load per shelf (kg) Adjustable drawers (pcs) Max. no. of adjustable drawers (pcs) Max. load per adjustable drawer (kg) REFRIGERATION & CABINET Number of compressors Refrigerant Interior cabinet material | 2 yes yes no no optional no yes 4 / 2 no no yes 0 / 4 16 / 8 30 optional 6 30 optional 6 30 2 R290 stainless steel |
| Number of optional reference probes Password protection for turning unit on / off Temperature graph on display OTHER FEATURES Automatic defrost Antifreeze function Vacuum release port Access port for external probe etc. (int. diameter mm) Light Lock with key Castors (total pcs) / castors with brake (pcs) Fixed feet (pcs) / levelling feet (pcs) Sub lids or inner doors (pcs) Reversible door(s) Fixed shelves (pcs) / adjustable shelves (pcs) Max. no. of shelves (pcs) / recommended max. no. of shelves (pcs) Max. load per shelf (kg) Adjustable drawers (pcs) Max. no. of adjustable drawers (pcs) Max. load per adjustable drawer (kg) REFRIGERATION & CABINET Number of compressors Refrigerant Interior cabinet material Exterior cabinet material | 2 yes yes no no optional no yes 4 / 2 no no yes 0 / 4 16 / 8 30 optional 6 30 2 R290 stainless steel painted steel / stainless steel |
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OPTIONAL ACCESSORIES

GSM alarm module Temperature chart recorder Shelves (perforated, wire stainless steel, plastic coated) Drawers (stainless steel) Modbus adapter Voltage stabilizer Voltage converters LED light



