

IQ/OQ

Installation and Operational Qualification

PR 300 -/ST







IQ/OQ for PR300 / -ST Model.:

The objective of this Installation and Operational Qualification (IQ/OQ) Checklist is to qualify the installation and operation of the Arctiko unit PR300 / -ST Refrigerator 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 unit PR300 / -ST Refrigerator is installed and operated as per our specifications.

This checklist is mentioned to be used as input for distributors of Arctiko unit PR300 / -ST Refrigerator. 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. No dents. No rust		
compartment	Sensor mounted at the right place		
Documentation	Operating Instruction Manual available		

Comments



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. 25°C Class N. No direct sun	
	on the refrigerator	
Electrical supply		
	and in accordance to local regulations	
Surface	Refrigerator 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



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

Comments



Description	Arctiko default	Customer
	settings	setting.
Advanced Settings		
Password	0000	
Calibration		
Refrigerator	0,0	
Automatic defrost		
Refrigerator	06	
Manual defrost		
Refrigerator	OK	
Hysteresis		
Refrigerator	2,0	
Temp. range limits		
Refrigerator Max.	+10,0	
Refrigerator Min.	+1,0	

Comments	

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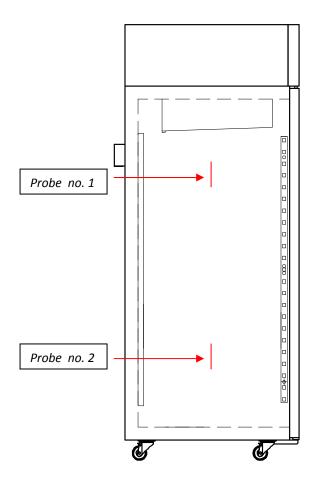
6 Placement of test probes.

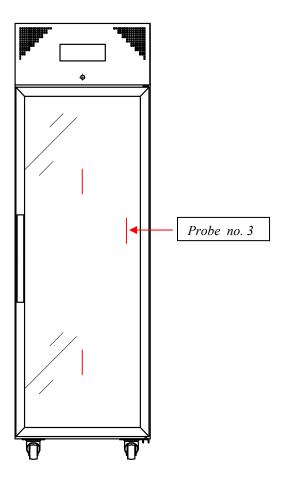
The probes must be placed in the unit like following marked with red.

Probe no. 1 is placed 200mm down from the top of the room.

Probe no. 2 is placed 1100mm down from the top of the room.

Probe no. 3 is placed beside the probe for the controller.





Comments



Requirement for accept.

7.1 Max. deviation and performance limits.

Max. ambient temperature	25°C +/- 2K
Set point of controller	
Max. deviation between warmest and coldest spot in the unit:	5K
Pr	obe no. on pull de
Actual value for probe no. 1:	ood no. on pun d
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	
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.	controller
Pull down time	Max. 1 h
Passed Yes / No	
Comments	



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