

## **INSTALLATION / OPERATIONAL QUALIFICATION PROTOCOL**

The following Installation Qualification (IQ) & Operation Qualification (OQ) is intended to be a guideline. Local IQ & OQ procedures can vary depending on intended use. The IQ & OQ is concluded if all the criteria of acceptance are verified, and the possible deviations are accepted.

This IQ & OQ is intended for the following products:

Tabletop	Undercounter	Upright
ULTF-37i	F-138i	F-427i
F-90i		

Location	
Model	
Serial number	
Name of distributor	
Warranty Start	
Signature	
Date	

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#### Acceptance criteria

The IQ/OQ is concluded if all criteria of acceptance are approved, and the possible deviations are accepted.

#### Reference

User manual

### Persons performing IQ & OQ

All personnel entering information in this protocol must be identified in the table below by name, full signature, and initials.

Personnel must be fully aware of all the procedures to follow.

Name	Company	Signature	Initials	Date



# IQ - Installation Qualification

## Objective

To verify that the freezer has been installed to a satisfactory standard and is safe to use.

#### **Pre-Requisites**

User manual is available for review

Step	Reference to	Reference to Description	Verific	cation	Comments
	chapter in manual		Pass	Fail	
IQ-1	Before Use	Ensure the appliance has not been damaged during transport.			
IQ-2	Before Use	Ensure the protective foil on the shelves are removed before cleaning and using the unit.			
IQ-3	Before Use	Ensure that the inside of the appliance is clean.			
IQ-4	Before Use	Ensure the appliance has been in an upright position for at least an hour before being switched on.			
IQ-5	Before Use	Allow the freezer to operate at the desired temperature for a minimum of 12 hours before loading.			
IQ-6	Electrical connection	Ensure to connect the appliance to the socket outlet.			
IQ-7	Ventilation guards	Ensure the ventilation guards are mounted behind the appliance.			
IQ-8	Location and ventilation	Ensure the appliance is not exposed to direct sunlight.			
IQ-9	Location and ventilation	Ensure the appliance is not exposed to rain.			
IQ-10	Location and ventilation	Ensure the appliance is installed in a dry, well ventilated room with minimal variations in temperature.			
IQ-11	Location and ventilation	Ensure the appliance is away from sources of heat.			
IQ-12	Location and ventilation	Ensure ventilation, above, below and around the appliance.			
IQ-13	Location and ventilation	Ensure enough space for the door to open in at least 90 degrees.			



IQ-14	Levelling the	Ensure the appliance is levelled.		
	appliance			

## Conclusion

This section of the protocol has been completed and is deemed to (initial appropriate box below):					
Pass		Pass with comment		Fail	
	_	Comments			Non-conformance



# **OQ - Operation Qualification**

## Objective

To verify that all refrigerator components function correctly as specified for normal operation.

## **Pre-Requisites**

Appliance is installed

Step	Reference to	Description	Verific	cation	Comments
	chapter in		Pass	Fail	
	manual				
0Q-1	Freezer	Ensure all doors operate as expected.			
	Components				
OQ-2	Controller –	Ensure the appliance is turned on.			
	operation and				
	function				
OQ-3	Controller –	Ensure the time and date are set on the controller.			
	operation and				
	function				
OQ-4	Controller –	Hold the door open to confirm the alarm activates.			
	operation and	Close door and confirm alarm de-activates.			
	function				
OQ-5	Controller –	Record temperature set points (for both operating			
	operation and	level and the alarm limits) and confirm these meet			
	function	the acceptance criteria.			
OQ-6	Controller –	Increase the temperature set point by ≥11°C (for			
	operation and	ULT units its by ≥26°C). Confirm that the freezer			
	function	system responds to increased temperature and the			
		alarm activates (visual and audible) when			
		temperature exceeds alarm high limit.			
0Q-7	Controller –	Ensure temperature set point is returned to the			
	operation and	original value on completion and confirm alarm de-			
	function	activates.			
OQ-8	Controller –	Decrease the temperature set point by ≥11°C.			
	operation and	Confirm that the freezer system responds to			
	function	decreased temperature and the alarm activates			
		(visual and audible) when temperature exceeds			
		alarm low limit.			



OQ-9	Controller –	Ensure temperature set point is returned to the		
	operation and	original value on completion and confirm alarm de-		
	function	activates.		

#### Conclusion

This section of the	This section of the protocol has been completed and is deemed to (initial appropriate box below):					
Pass		Pass with comment		Fail		
		Comments			Non-conformance	