

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-37	VTS 098	F-427
F-90	F-138	VTS 254
	,	₽FS345S
		VTS 258

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	BFS345S	
	8030279-02/9538/67	
pemedelan son	WE CARE ENTERPRISE	
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Document Reference: IOQ- Manuals

Revision: 03-12-2020

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Acceptance	criteria
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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.

t be fully aware of all the procedures to follow.

Personnel must be ful	ly aware of air the procedure	Signature	Suffings !	
Kamlesh	WE CARE ENTER	PRISE OW		28/2/22
Pachiyas				
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Verified by - Amit
28/2/2022

Dr. Amitkumar Jojera Consultant Pathologist M.P.U.H. Emp. No.:- 728 Reg. No. 37297



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

	designation of the second of t				
IQ-1	Before Use	Ensure the appliance has not been damaged during			ok
IQ-2	Before Use	Ensure the protective foil on the shelves are removed before cleaning and using the unit.	~		6K-
IQ-3	Before Use	Ensure that the inside of the appliance is clean.			<u> 64 </u>
IQ-4	Before Use	Ensure the appliance has been in an upright position for at least an hour before being switched on.	~		6/c
1Q-5	Before Use	Allow the freezer to operate at the desired temperature for a minimum of 12 hours before loading.	~		ok
IQ-6	Electrical connection	Ensure to connect the appliance to the socket outlet.	V		0/ /
IQ-7	Ventilation guards	Ensure the ventilation guards are mounted behind the appliance.	1		oK
IQ-8_	Battery backup	Ensure the battery backup system is activated.			014
IQ-9	Location and ventilation	Ensure the appliance is not exposed to direct sunlight.	1	· 	ok
IQ-10	Location and ventilation	Ensure the appliance is not exposed to rain.	~		ok
IQ-11	Location and ventilation	Ensure the appliance is installed in a dry, well ventilated room with minimal variations in temperature.	~		ok
IQ-12	Location and	Ensure the appliance is away from sources of heat.	~		ok
IQ-13	ventilation Location and	Ensure ventilation, above, below and around the			ok
IQ-14	ventilation Location and ventilation	Ensure enough space for the door to open in at least 90 degrees.	V		OK



IQ-15 Levelling the appliance is levelled.

	* * *					
Con	clusion					
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	Pass		Pass with commen	nt 🗸	Fail	
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OQ - Operation Qualification

Objective

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

Pre-Requisites

Appliance is installed

	FOR And to		V. Miles	40î 31	
OQ-1	Freezer	Ensure all doors operate as expected.			04
	Components	La	├┈─ ╴┟		······································
OQ-2	Controller –	Ensure the appliance is turned on.	🗸 🖊		014
	operation and function				
OQ-3	Controller –	Ensure the time and date are set on the controller.			l ok
UQ-3	operation and				0K
	function				
OQ-4	Controller -	Hold the door open to confirm the alarm activates.	 \/		
	operation and	Close door and confirm alarm de-activates.			0 4
<u> </u>	function	a la contra set points (for both operating	 		
OQ-5	Controller –	Record temperature set points (for both operating level and the alarm limits) and confirm these meet	11		10K
	operation and function	the acceptance criteria.			
OQ-6	Controller -	Increase the temperature set point by ≥11°C (for			
00-0	operation and	ULT units its by ≥26°C). Confirm that the			OK
	function	refrigerator system responds to increased			
		temperature and the alarm activates (visual and			
ļ		audible) when temperature exceeds alarm high			
	Controller –	limit. Ensure temperature set point is returned to the			
0Q-7	operation and	original value on completion and confirm alarm de-		Ì	1 OK
	function	activates.	<u> </u>		
OQ-8	Controller –	Decrease the temperature set point by ≥11°C.	1. ,	1	
	operation and	Confirm that the refrigerator system responds to			104
	function	decreased temperature and the alarm activates			
1		(visual and audible) when temperature exceeds alarm low limit.	ļ 1		
<u> </u>		alarm low mine.			

OQ-9 Controller – Ensure temperature set point is returned to the operation and function activates.

Conclusion Pass Pass	Pass with comment		Fail	
- working of	instrumenet	15 OK		

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