

double issue



Form B03

Scheduled Maintenance Work Order

Quantum Medical Solutions sdn bhd
transcending boundaries, transforming life

Format Ref: - QMS/TSD-022 Rev.01

Work Order No.	PWO365617	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	19/6/18
Clinic Name	Klinik Kesihatan Batu Pahat	Clinic Code	JHR003
BE No.	JHR000016	Distict	BATU PAHAT
BE Category	Refrigerators, Laboratory	WO Assigned to	Falan
Ownership	<input checked="" type="checkbox"/> Existing Equipment	<input type="checkbox"/> Purchase	<input type="checkbox"/> New
BE Condition	<input checked="" type="checkbox"/> Active	<input type="checkbox"/> BER Proposed	
Work Order Type	<input checked="" type="checkbox"/> Preventive Maintenance (PM)	<input type="checkbox"/> Third Party Calibration (TPC)	
	<input type="checkbox"/> Routine Inspection (RI)	<input type="checkbox"/> Statutory Certification (SC)	

Reschedule Date	
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BE Third Party Calibration / Statutory Certification Details			
Company Name	NA	Cal / Cert Date	NA
Contact Number		Cal / Cert Expiry Date	
Action Taken <input type="checkbox"/> PM / RI job done as per checklist. Unit tested functioning good & ready to use. Manufacturer : <input type="checkbox"/> Corrective Maintenance / <input checked="" type="checkbox"/> Breakdown Modal : BE Sticker Availability : <input type="checkbox"/> Yes / <input type="checkbox"/> NA Serial No : Remarks:			

Schedule Maintenance Execution Details				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	Falan	19/6/18	VENDOR	REPAIR

Customer Remarks
NA

Engineer / Technician Signature Name: [Signature] Date: 19/6/18 MOHD NURUL FAHMI B. ISMAIL MEDICAL ENGINEER (012-9967048) QUANTUM MEDICAL SOLUTIONS SDN. BHD.		Customer Signature Name: [Signature] Designation: AFIZA BINTI ABD. AZIZ Juruteknologi Makmal Perubatan U32 (KUP) Klinik Kesihatan Batu Pahat Date: 19/6/18 Seal	
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For Internal Use

Pa fu
QUANTUM MEDICAL SOLUTIONS
AFIZA BINTI MISKAN
JURUTEKNOLOGI MAKMAL PERUBATAN

First Verification
QMS Circle InchargeFinal Verification
QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Refrigerators, Laboratory
BE CODE : 17-157

CHECKLIST NO:CL-121-000
REV.000

PART 1 ASSET DETAILS

WORK ORDER NO ► BE NO ►
MANUFACTURER ► MODEL ►
FREQUENCY ► 6 MONTHLY () 12 MONTHLY (√) PPM HOURS ► 1.00

PART 2 SPECIAL PRECAUTION

If there is evidence of body fluid contamination, submit the device for cleaning and decontamination before inspecting it.

Wear appropriate Personnel Protection Equipment (PPE) during work.

Wear grounded electrostatic wristband when handling PCB or electronic components.

Refer to the safety procedure for additional precautions and guidance as per manufacturer guidelines.

Make sure the test equipment used are duly calibrated.

PART 3 TEST APPARATUS

Tick (√) where appropriate

NO	ASSET NO	DESCRIPTION	SERIAL NO	CALIBRATION DUE ON
		ELECTRICAL SAFETY TESTER		
		THERMOMETER		

PART 4 QUALITATIVE TASKS

Tick (√) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	()	()	()	7 Controls/ Switches/ Keypad - verify proper operation of controls	()	()	()
2 Mount/ Fasteners - verify physical integrity	()	()	()	8 Indicators/ Displays - verify proper illumination and operation	()	()	()
3 Power Cord - verify proper insulation and integrity	()	()	()	9 Alarm/ Audible Signal - verify operation	()	()	()
4 Strain Relief - verify physical integrity at both ends of line cord	()	()	()	10 Check Compressor - verify physical Integrity	()	()	()
5 Circuit Breaker/ Fuse - verify integrity of external circuit breaker and/or rating of external fuse	()	()	()	11 Check Thermostate - verify physical Integrity	()	()	()
6 Door Gasket, Hinges - verify physical Integrity	()	()	()				

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (√) where appropriate

	DONE	NOT DONE **	NA	Notes:
1 Cleaning the inside with a vacuum cleaner	()	()	()	* For all Parts, NA is defined as NOT APPLICABLE ** If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable
2 Clean compressor	()	()	()	



KEMENTERIAN KESIHATAN MALAYSIA

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WORK ORDER NO ▶

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PAS S	FAIL NA
1	Temperature - Refrigerator	°C			2 - 8	((())

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

Tick (✓) where appropriate

Standard use :

Result :

☐ IEC 60601

☐ IEC 61010

☐ IEC 62353

☐ PASS

☐ FAIL

☐ NA

PART 8 NOTES

☐

CORRECTIVE MAINTENANCE REQUIRED

☐

FUNCTIONING

☐

NOT FUNCTIONING

WORK ORDER NO ▶

NEXT PPM DA ▶

PPM has been performed in accordance to the checklist and the equipment is functioning to the intended purpose.

COMPLETED BY:

DATE :

Test Setup

Operator ID :
 Calibration Tech : DINA
 Calibration Date : 9/10/2017
 Firmware Version : 2.08.01
 Serial Number : 3226906
 Date & Time : 07/18/2018 & 01:37pm
 JOB Name :

DUT Information

Equipment Number : JHR000016
 Serial Number : 2508436/308
 Manufacturer : TECH-LAB
 Model : PHARMA-250SS
 Location : KK BATU PAHAT
 Other :

Template Information

Template Name : JHR000016
 Pause after Power ON: NO
 Power ON delay: 2
 Test Speed: NORMAL
 Halt on Test Failure: YES
 Include Time: YES
 Insulation Resistance \ 500V
 Multi Enclosure Test : NO

Standard : IEC60601-1-2nd Ed
 Pause before Power O NO
 Power OFF delay: 0
 Test Mode: AUTO
 Multi PE Test: NO
 Multi Resstore: WORST/LAST
 Reverse Polarity: YES
 Classification: I

PLC Configuration-Applied part setup

AP Name AP Type AP Num

ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Protective Earth Resistance	0.096 Ohm	0.2 -		P
Insulation Resistance				P
Mains to Protective Earth	999 MOhm -	-		P
Mains to Non-Earth Accessible Conductive Par	999 MOhm -	-		P
Mains Voltage				P
Live to Neutral	237.8 V -	-		P
Neutral to Earth	114.8 V -	-		P
Live to Earth	121.6 V -	-		P
Equipment Current	0.2 A -	-		P
Earth Leakage Current				P
Normal Condition	25.5 uA-OI	500 -		P
Open Neutral	65.4 uA-OI	1000 -		P
Open Neutral- Reversed Mains	65.3 uA-OI	1000 -		P
Normal Condition- Reversed Mains	35.9 uA-OI	500 -		P
Enclosure Leakage Current				P

Normal Condition	0.1 μ A-OPI	100 -	P
Open Earth	25.4 μ A-OI	500 -	P
Open Neutral	0.1 μ A-OPI	500 -	P
Open Neutral- Reversed Mains	0.1 μ A-OPI	500 -	P
Normal Condition- Reversed Mains	0.1 μ A-OPI	100 -	P
Open Earth- Reversed Mains	35.8 μ A-OI	500 -	P



Signature

MOHD NAJIB FARHAN B. ISMAIL
BIOMEDICAL ENGINEER
(012-396 7048)
QUANTUM MEDICAL SOLUTIONS SDN. BHD.

