

## 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.	PWO365582	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	12/6/18
Clinic Name	Klinik Kesihatan Pesta / Kampung Ken.	Clinic Code	JHR015
BE No.	JHR002026	Distict	BATU PAHAT
BE Category	Freezers, Laboratory, Vaccine	WO Assigned to	Faizan
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	MA	Cal / Cert Date	MA
Contact Number		Cal / Cert Expiry Date	

## Action Taken

☒ PM / RI job done as per checklist. Unit tested functioning good & ready to use.

☐ Corrective Maintenance / ☐ Breakdown

BE Sticker Availability: ☒ Yes / ☐ NA

Remarks:

Manufacturer: BOWETIC

Modal: TCW 2000

Serial No: 061415

## Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	Faizan	12/6/18	1400	1500

## Customer Remarks

NA

<b>Engineer / Technician Signature</b> Name: Date: 12/6/18 MOHD NAJIB FACHAN B. ISMAIL BIOMEDICAL ENGINEER (012-386 7048) QUANTUM MEDICAL SOLUTIONS SDN. BHD.	<b>Customer Signature</b> Name: Designation: Nur Hazirah Nacey Abdullah Date: (No. Pendaftaran Penuh: 54451) Seal: Jururawat U29 KK Kg. Kenangan Dato Onn
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For Internal Use

RAZILA MISKAN

First Verification

QMS Circle Incharge

Biomedical Engineer (Circle In-Charge)  
Quantum Medical Solutions Sdn. Bhd.

Final Verification

QMS State Incharge

12/6/18





# KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

Freezers, Laboratory, Vaccine

BE CODE : ME-015

CHECKLIST NO: CL-073-000  
REV.000

## PART 1 ASSET DETAILS

WORK ORDER NO ▶ BE NO ▶ JHR-002026  
MANUFACTURER ▶ IDOMETIC MODEL ▶ TCW2000  
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
	TEEST0079	ELECTRICAL SAFETY TESTER	3226906	10/11/18
	TEEST0138	THERMOMETER	150423878	10/11/18

## 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
1 Cleaning the inside with a vacuum cleaner	( ✓ )	( )	( )
2 Clean compressor	( ✓ )	( )	( )

Notes:

\* For all Parts, NA is defined as NOT APPLICABLE

\*\* If you have ticked 'NOT DONE', then justify in Part 8

\*\*\* Choose Whichever Applicable





## KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

Freezers, Laboratory, Vaccine

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REV.000

WORK ORDER NO ▶

## PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PAS S	FAIL	NA
	Temperature (Refrigerator)	°C	5	5.7	2 - 8	✓		
	(Freezer)	°C	-20	-20.3	± 10°C	✓		

## 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 ▶

NA

NEXT PPM DATE ▶

Jun 19

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

COMPLETED BY:

Faher

DATE :

17/6/18





## Test Setup

Operator ID :  
 Calibration Tech : DINA  
 Calibration Date : 9/10/2017  
 Firmware Version : 2.08.01  
 Serial Number : 3226906  
 Date & Time : 06/12/2018 & 14:20  
 JOB Name :

## DUT Information

Equipment Number : JHR002026  
 Serial Number :  
 Manufacturer : DOMETIC  
 Model : TCW3000  
 Location : KK PESTA  
 Other :

## Template Information

Template Name : JHR002026  
 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: II

## PLC Configuration-Applied part setup

AP Name AP Type AP Num

## ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Insulation Resistance				P
Mains to Non-Earth Accessible Conductive Par	999 MOhm -	-	-	P
Mains Voltage				P
Live to Neutral	236.2 V -	-	-	P
Equipment Current	0.0 A -	-	-	P
Enclosure Leakage Current				P
Normal Condition	0.5 uA-OP	100 -	-	P
Open Neutral	0.7 uA-OP	500 -	-	P
Open Neutral- Reversed Mains	0.7 uA-OP	500 -	-	P
Normal Condition- Reversed Mains	0.5 uA-OP	100 -	-	P
Earth Leakage Current				P
Open Neutral	122.3 uA-C	1000 -	-	P

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

