

## 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.	PWO365249	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	25-6-18
Clinic Name	Klinik Pergigian Di Klinik Kesihatan Sag	Clinic Code	JHR550
BE No.	JHR023421	Distict	LEDANG
BE Category	Sterilizing Units, Portable	WO Assigned to	ZAIDIE
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	-	Cal / Cert Date	-
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 : Tecno-gaz

Modal : EWR

Serial No : S2BH2K1691

## Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
1	ZAIDIE	25-6-18	3-00	4-00

Customer Remarks

Engineer / Technician Signature	Customer Signature
Name	Name
Date	Designation
	Date
	Seal

MURIS ZAIDIE BIN MAHL  
Technical Support Engineer  
Quantum Medical Solutions  
Tel: 012-3667638

DR SITI SARINA ALI  
PEGAWAI PERGIGIAN  
MDC 3928

For Internal Use

First Verification

QMS Circle Incharge

Final Verification

QMS State Incharge

MURIS ZAIDIE BIN MAHL  
Technical Support Engineer  
Quantum Medical Solutions  
Tel: 012-3667638



# KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist  
Sterilizing units, Portable  
BE CODE : DE-031

CHECKLIST NO: CL-147-000  
REV.001

## PART 1 ASSET DETAILS

WORK ORDER NO ▶ PW0365249 ASSET NO ▶ JHR023421  
MANUFACTURER ▶ Tecno-gaz MODEL ▶ Evo B.  
FREQUENCY ▶ 3 MONTHLY ( ) 6 MONTHLY ( / ) 12 MONTHLY ( ) PPM HOURS ▶ 1 HOUR

## 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
1	TEESA 0025	DIGITAL TEMPERATURE PROBE	29520201WS	26/12/18
2	TEESA 0338	DIGITAL PRESSURE METER	H.315545	8/11/18

## PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(✓)	( )	( )	9 Over pressure cut of valve - Verify physical integrity	(✓)	( )	( )
2 Power Cord - verify proper insulation and integrity	(✓)	( )	( )	10 Door lock - Verify physical integrity	(✓)	( )	( )
3 Strain Relief - verify physical integrity at both ends of line cord	(✓)	( )	( )	11 Door gasket Verify physical integrity	(✓)	( )	( )
4 Fittings/ Connectors - check all fittings/connectors	(✓)	( )	( )	12 Check water tank leak	(✓)	( )	( )
5 Controls/Switches - verify proper operation of controls	(✓)	( )	( )	13 Check drain valve -Physical integrity	(✓)	( )	( )
6 Indicators/ Displays - verify proper illumination and operation	(✓)	( )	( )	14 Check label	(✓)	( )	( )
7 Check fuse, circuit breaker	(✓)	( )	( )	15 Waste Water Reservoir/Bottle - clean & verify integrity	(✓)	( )	( )
8 Heater - verify physical Integrity	(✓)	( )	( )				
9 Chamber/Cassette - verify physical integrity (scaling, rusting, pitting or	(✓)	( )	( )				

## PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA		DONE	NOT DONE **	NA
1 Clean exterior and interior of the equipment	(✓)	( )	( )	4 Lubricate all moving parts	( )	( )	(✓)
2 Check/ replace gasket ***	(✓)	( )	( )	Notes:			
3 Check/ clean solenoids	(✓)	( )	( )	* For all Parts, NA is defined as NOT APPLICABLE			
				** If you have ticked 'NOT DONE', then justify in Part 8			
				*** Choose Whichever Applicable			





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REV.001

WORK ORDER NO ▶ PW0365249

## PART 8 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	Temperature reading	°C	37°C	37.7°C	134-137 121-124	(✓)	( )	( )
2	Pressure reading - non absolute pressure reading	bar	2.2	2.26	2.03-2.32 1.04-1.24	(✓)	( )	( )
3	Electrical Supply Voltage	V		refer to EST	Refer to Nameplate	(✓)	( )	( )
4	Electrical Power/Consumption	kW		refer to EST	Refer to Nameplate	(✓)	( )	( )

## PART 9 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

(In accordance to IEC 60601)

☒ PASS

☐ FAIL

☐ NA

## PART 10 NOTES

NA

☐ CORRECTIVE MAINTENANCE REQUIRED

☒ FUNCTIONING

☐ NOT FUNCTIONING

WORK ORDER NO ▶

NEXT PPM DATE ▶ 2 Jun 2019

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

COMPLETED BY:

MUHD ZAIDIE BIN HALIL  
Technical Service Department  
Quantum Medical Solution Sdn. Bhd.

WITNESSED BY:

DATE :

DATE :

Date :25/6/2018

## Test Setup

Operator ID :  
Calibration Tech : NADIA  
Calibration Date : 25/8/2018  
Firmware Version : 2.08.01  
Serial Number : 3246911  
Date & Time : 25/06/2018 & 3:00 P.M  
JOB Name :

## DUT Information

Equipment Number : JHR 023421  
Serial Number : S2BH2K1691  
Manufacturer : TECNO-GAZ  
Model : EVO B  
Location : KP SAGIL  
Other :

## Template Information

Template Name : 62353-Alt.STERILIZING  
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 : IEC62353-Direct  
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	0.258 Ohm	0.3 -		P
Insulation Resistance				P
Mains to Protective Earth	78.9 MOhm	-		P
Mains Voltage				P
Live to Neutral	241.9 V	-	-	P
Neutral to Earth	7.6 V	-	-	P
Live to Earth	238.3 V	-	-	P
Equipment Current	0.4 A	-	-	P
Direct Equipment Leakage				P
Open Earth	39.3 uA	500 -		P
Open Earth- Reversed Mains	56.3 uA	500 -		P