

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.	PWO365278	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	25/6/18
Clinic Name	Klinik Pergigian Sekolah Menengah Le	Clinic Code	JHR556
BE No.	JHR023432	Distict	LEDANG
BE Category	STERILIZING UNITS, PORTABLE	WO Assigned to	Rebeah
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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3E Third Party Calibration / Statutory Certification Details

Company Name	n/h	Cal / Cert Date	n/h
Contact Number	w/h	Cal / Cert Expiry Date	w/h

Action Taken

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

Manufacturer: Seicam

☒ Corrective Maintenance / ☐ Breakdown

Modal: Seicam 2000t

BE Sticker Availability: ☒ Yes / ☐ NA

Serial No: 110311 F 00003

Remarks: ppm done as per checklist

Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
1	Rebeah	25/6/18	11-00	12:00

Customer Remarks

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Engineer / Technician Signature

Name

Date

NUR RABEAH BINTI AZMAN
Quantum Medical Solution Sdn. Bhd.
Technical Service Department
Tel: 012-3968095

Customer Signature

Name

Designation

Date

Seal

DR SITI SARINA ALI
PEGAWAI PERGIGIAN
MDC 3928

For Internal Use

First Verification

QMS Circle Incharge

[Signature]

DR SITI SARINA ALI
Biomedical Engineering
Quantum Medical Solutions
HP: 012-3967638

Final Verification

QMS State Incharge



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 ▶ 82036526 ASSET NO ▶ 74P03437
MANUFACTURER ▶ SGCAR MODEL ▶ Clatin 2000
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	TEESA0158	DIGITAL TEMPERATURE PROBE	3246911	
1	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 (scalling, 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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PART 6 SERVICE CHECKLIST

No	Description	Checked	Service/ Clean	Replaced	Not Applicable	No	Description	Checked	Service/Ci ean	Replaced	Not Applicable
1	Fuses	(/)	()	()	()	16	Chamber Guard Seal (if applicable)	()	()	()	(/)
2	Main Control Board	(/)	()	()	()	17	Solid State Relay (if applicable)	()	()	()	(/)
3	Fan Running Rear & Side applicable)	(if ()	()	()	(/)	18	Thermostat Assembly	()	()	()	(/)
4	Clean Water Reservoir	(/)	()	()	()	19	Thermal Printer (if applicable)	()	()	()	(/)
5	Electric Door Lock	()	()	()	(/)	20	Vacuum Pump (if applicable)	()	()	()	(/)
6	Pressure Door Lock	()	()	()	(/)	21	Temperature Sensor	(/)	()	()	()
7	Discharge Door Lock	()	()	()	(/)	22	Filters	(/)	()	()	()
8	Pressure Transducer	(/)	()	()	()						
9	Pressure Gauge	(/)	()	()	()						
10	Safety Valve	()	()	()	(/)						
11	Air Valve/Steam Solenoid Valve (if applicable)	(/)	()	()	()						
12	Discharge Valve	()	()	()	(/)						
13	Feed Water Valve (if applicable)	(/)	()	()	()						
14	Heating Element	(/)	()	()	()						
15	Door Gasket/Cessette Seal	(/)	()	()	()						

PART 7 Technician Remarks

NA



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REV.001

WORK ORDER NO ▶ PW0365278

PART 8 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	Temperature reading	°C	134°C	136°C	134-137 121-124	(✓)	()	()
2	Pressure reading - non absolute pressure reading	bar	2.15	2.14	2.03-2.32 1.04-1.24	(✓)	()	()
3	Electrical Supply Voltage	V	240V	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 ▶

NA

NEXT PPM DATE ▶

2019

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

COMPLETED BY:

21

WITNESSED BY:

DATE :

DATE :

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 & 11:00 P.M
 JOB Name :

DUT Information

Equipment Number : JHR 023432
 Serial Number : 110311F00003
 Manufacturer : SCICAN
 Model : STATIM 2000E
 Location : KP SEKOLAH SIALANG
 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	0.003 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	72.2 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	237.3 V	-	-	P
Neutral to Earth	2.63V	-	-	P
Live to Earth	239.7 V	-	-	P
Equipment Current	0.4 A	-	-	P
Direct Equipment Leakage				P
Open Earth	34.7 uA	500	-	P
Open Earth- Reversed Mains	56.9 uA	500	-	P

