

## Form B03

## Scheduled Maintenance Work Order



Quantum Medical Solutions sdn bhd  
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Format Ref: - QMS/TSD-022 Rev.01

Work Order No.	PWO366629	Schedule Month	July 2018
Work Order Date	01/07/2018	Completed Date	10/7/2018
Clinic Name	Klinik Kesihatan Sungai Rengit	Clinic Code	JHR047
BE No.	JHR008650	Distict	KOTA TINGGI
BE Category	Aspirators	WO Assigned to	ICTG BME 3
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	NA
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## BE Third Party Calibration / Statutory Certification Details

Company Name	N/A	Cal / Cert Date	N/A
Contact Number	N/A	Cal / Cert Expiry Date	N/A

## Action Taken

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

Manufacturer: APEX

☐ Corrective Maintenance / ☐ Breakdown

Model: 1132

BE Sticker Availability: ☒ Yes / ☐ NA

Serial No:

Remarks:

## Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
MA	SAFWAN	10/7/2018	14 <sup>00</sup>	14 <sup>30</sup>

Customer Remarks	NA
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Engineer / Technician Signature	Customer Signature
Name	Name
Date	Date
MOHAMAD SAFWAN BIN ROSLAN	NORHASMIAH BINTI BAHRUN
Biomedical Technician	Sururawal Kesihatan U29
Quantum Medical Solution Sdn. Bhd	KK Sungai Rengit
10/7/18	10/7/18
	Seal

For Internal Use

MUHD RAMADHAN TAMAR JAYA  
Biomedical Engineer

First Verification

Technical Service Department  
Quantum Medical Solutions Sdn. Bhd.  
Tel: +60 12-396 1697

QMS Circle Incharge

Final Verification

QMS State Incharge



# KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

**Aspirators**

BE CODE : 10-208

CHECKLIST NO: CL-021-000  
REV.000

## PART 1 ASSET DETAILS

WORK ORDER NO ▶ PWD 36629 BE NO ▶ JHR008650  
MANUFACTURER ▶ APEX MODEL ▶ 1132  
FREQUENCY ▶ 6 MONTHLY ( ) 12 MONTHLY ( ) PPM HOURS ▶ 1.60

## 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	TESSA 0010	ELECTRICAL SAFETY ANALYZER	3218071	24/8/18
2	TESSA 0038	PRESSURE METER	4.315545	8/11/18

## PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(✓)	( )	( )	8 Fittings/ Connectors - check all fittings/connectors	(✓)	( )	( )
2 Mount/ Fasteners - verify physical integrity	(✓)	( )	( )	9 Controls/Switches - verify proper operation of controls	(✓)	( )	( )
3 Cables - verify integrity	(✓)	( )	( )	10 Vacuum regulator- verify operation.	(✓)	( )	( )
4 AC Plug - verify integrity	(✓)	( )	( )	11 Suction Jar - verify physical integrity	(✓)	( )	( )
5 Circuit Breaker/ Fuse - verify integrity of external circuit breaker and/or rating of external fuse	(✓)	( )	( )	12 Motor - Verify physical integrity & operation	(✓)	( )	( )
6 Power Cord - verify proper insulation and integrity	(✓)	( )	( )	13 Vacuum gauge - Verify Operation	(✓)	( )	( )
7 Strain Relief - verify physical integrity at both ends of line cord	(✓)	( )	( )	14 Over flow protection valve - Verify physical integrity & operation	(✓)	( )	( )

## PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA	Notes.
1 Clean exterior and interior of the equipment	(✓)	( )	( )	* For all Parts, NA is defined as NOT APPLICABLE ** If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable
2 Tubings - check / replace ***	(✓)	( )	( )	
3 Check/replace jar lid	(✓)	( )	( )	

WORK ORDER NO - PWO366629

## PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

[illegible]

## PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

(In accordance to IEC 60601/81010/62353)

☒ PASS☐ FAIL☐ NA

## PART 8 NOTES

☐ CORRECTIVE MAINTENANCE REQUIRED☒ FUNCTIONING☐ NOT FUNCTIONING

WORK ORDER NO. 140

NEXT PPM DATE ▶ July 2019

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

COMPLETED BY:

MOHAMAD SAFWAN BIN ROSLAN

Biomedical Technician

DATE: Quantum Medical Solution Sdn. Bhd

DATE: \_\_\_\_\_



## Test Setup

Operator ID :  
 Calibration Tech : MOHANA  
 Calibration Date : 08/24/2018  
 Firmware Version : 2.08.01  
 Serial Number : 3218071  
 Date & Time : 07/10/2018 & 02.10PM  
 JOB Name :

## DUT Information

Equipment Number : JHR008650  
 Serial Number :  
 Manufacturer :  
 Model :  
 Location : KK SUNGAI RENGIT  
 Other :

## Template Information

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

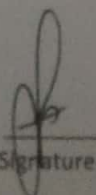
Standard : IEC60601-1-2nd Ed  
 Pause before Power ON: NO  
 Power OFF delay: 0  
 Test Mode: AUTO  
 Multi PE Test: NO  
 Multi Resstore: WORST/LAST  
 Reverse Polarity: YES  
 Classification: II

## PLC Configuration-Applied part setup

AP Name AP Type AP Num

## ES615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Insulation Resistance				P
Mains to Non-Earth Accessible Conductive Par	999 MOhn	-	-	P
Mains Voltage				P
Live to Neutral	230.0 V	-	-	P
Equipment Current	0.0 A	-	-	P
Enclosure Leakage Current				P
Normal Condition	0.6 uA-OPI	100	-	P
Open Neutral	0.8 uA-OPI	500	-	P
Open Neutral- Reversed Mains	0.8 uA-OPI	500	-	P
Normal Condition- Reversed Mains	0.6 uA-OPI	100	-	P
Earth Leakage Current				P
Open Neutral	2.3 uA-OPI	1000	-	P

  
 Signature