

Report No. 24PTP_01PM04240285

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Preventive Maintenance Action Report

EQUIPMENT : ELECTROSURGICAL UNITS

ID CODE : PTP00668

MANUFACTURER : COVIDIEN

MODEL : FORCE FX

SERIAL No. : S4L16231AX

LOCATION : Operating Room

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

670/1 Phaholyothin Road, Samsen Nai, Phaya Thai, Bangkok 10400

Tel: 02-271-7000 Fax: -

PM. DATE : 24 APRIL 2024

KANITTHA SRIPRAPAD

ISSUE DATE : 1 MAY 2024

Performed by:

___ Approved by :

PHUWASIN YIWKIM

CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTER	MANUFACTURER	MODEL	SERIAL NO.	CERTIFICATE NO.	DUE DATE	
Electrical Safety	Fluke	ESA615	2856013	23MD1866	12 Dec 2024	
Analyzer						

Electrosurgery Fluke Biomedical QA-ES III 5728726 23MD852 21 Jun 2024

Analyzer

2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)
- Technology Promotion Association (Thai-Japan)

3. THIS RESULT OF TEST WAS FOUND ACCURATE AS SHOW ON DATE AND PLACE OF TEST ONLY



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1. Qualitative Tests

No.	List	Pass	Fail	None	Comment
1	Chassis/Housing	/			
2	Mount/Fasteners	/			
3	Casters/Brakes	/			
4	AC Plug	/			
5	Line Cord	/			
6	Strain Reliefs	/			
7	Cables	/			
8	Fittings/Connectors	/			
9	Dispersive Electrodes	/			
10	Controls/Switches	/			
11	Indicators/Displays	/			
12	Audible Signals	/			
13	Labeling	/			
14	Footswitch	/			
15	Accessories	/			

2. Quantitative Tests

No.	List	Pass	Fail	None	Comment
1	1 Grounding Resistance ≤0.5 Ω				0.261 Ω
2	Chassis Leakage Current ≤ 500 µA	/			66.2 μΑ
3	3 Dispersive Electrode Grounding Resistance >20				
	$M\Omega$ for ground-referenced units				
4	Dispersive Electrode Contact Quality Monitor	/			74 Ω
	Resistance Continuity > 10Ω / Contact quality 5				
	Ω -150 Ω				
5	RF Output Current/Power ±5 W or ±20%	/			
6	RF Output Isolation ≤150 mA or ≤4.5 W	/			90 mA
7	Waveform Analysis mfr spec	/			

3. Preventive Maintenance

No.	List	Pass	Fail	None	Comment
1	Clean the exterior and accessories	/			
2	Lubricate			/	



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3. Preventive Maintenance (Continues)

No.	List	Pass	Fail	None	Comment
3	Adjust			/	
4	Replace			/	

Electrical Safety Test: Master used Electrical Safety Analyzer (Metron / QA-90) according to IEC.60601.1

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