

Certificate No. 24

24PTP_0104240113

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Certificate of Calibration

EQUIPMENT : VENTILATORS, INTENSIVE CARE

ID CODE : PTP00260

MANUFACTURER : CAREFUSION

MODEL : VELA

SERIAL No. : BFT01674

LOCATION : I.C.U

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 18 APRIL 2024

SUPATCHA BUAPUEAN

ISSUE DATE : 3 MAY 2024

Supatcha

Approved by :

PHUWASIN YIWKIM

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CONDITION OF THIS RESULT OF TEST

Performed by:

1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEGas Flow AnalyzerFluke BiomedicalVT650606972523MD115827 Aug 2024

2. THIS CERTIFICATION IS TRACEABLE TO:

- 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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Calibration Report

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DATE OF CALIBRATION : 18 APRIL 2024

ENVIRONMENT : TEMPERATURE 24 °C

RELATIVE HUMIDITY 56 %

PROCEDURE USED:

This instrument was calibration by comparison with standard

MEASURMENT RESULT:

/	Without Adjustment		Before Adjustment		After Adjustment
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TIDAL VOLUME					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(mL)	(mL)	(mL)	(%)	(mL)	
400	390.25	-9.75	-2.44	± 14.4052	
600	593.93	-6.08	-1.01	± 21.7085	
800	788.90	-11.10	-1.39	± 29.0473	

BREATH RATE					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(BPM)	(BPM)	(BPM)	(%)	(BPM)	
30	30.00	0.00	0.00	± 0.3464	
20	20.00	0.00	0.00	± 0.2309	
15	15.00	0.00	0.00	± 0.1732	

I:E RATIO						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
((1:x))	((1:x))	((1:x))	(%)	((1:x))		
1	1.00	0.00	0.00	± 0.0231		
2	1.88	-0.12	-6.00	± 0.0462		
3	2.82	-0.18	-6.00	± 0.0693		

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ID CODE : PTP00260 SERIAL No. : BFT01674

PIP						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(cmH ₂ O)	(cmH ₂ O)	(cmH ₂ O)	(%)	(cmH ₂ O)		
20	19.72	-0.28	-1.40	± 0.3200		
30	28.61	-1.39	-4.63	± 0.3200		
40	38.47	-1.53	-3.83	± 0.3200		

PEEP					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(cmH2O)	(cmH2O)	(cmH2O)	(%)	(cmH2O)	
5	5.04	0.04	0.80	± 0.0577	
10	9.39	-0.61	-6.10	± 0.1155	
15	14.66	-0.34	-2.27	± 0.1732	

UUC*: Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%

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