

Certificate No. 24PTP_0103240001

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Certificate of Calibration

EQUIPMENT VENTILATORS, HIGH FREQUENCY OSCILLATORY

INFANT

ID CODE PTP03588

MANUFACTURER ACUTRONIC

MODEL FABIAN HFO

SERIAL No. AH18BD-01043

LOCATION Nursery

SUBMITTED BY PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE 13 MARCH 2024

ISSUE DATE 1 MAY 2024

Peeranut

PEERANUT SIRISOMBOON

Performed by: Approved by:

PHUWASIN YIWKIM

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CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTER MANUFACTURER MODEL SERIAL NO. CERTIFICATE NO. DUE DATE 23MD1158 Gas Flow Analyzer Fluke Biomedical VT650 6069725 27 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

EQUIPMENT : VENTILATORS, HIGH FREQUENCY OSCILLATORY

INFANT

ID CODE : PTP03588

MANUFACTURER : ACUTRONIC

MODEL : FABIAN HFO

SERIAL No. : AH18BD-01043

DATE OF CALIBRATION : 13 MARCH 2024

ENVIRONMENT : TEMPERATURE 25 °C

RELATIVE HUMIDITY 50 %

PROCEDURE USED:

This instrument was calibration by comparison with standard

MEASURMENT RESULT:

7 Willout Rajustinent Berote Rajustinent Parter Rajustine	/	Without Adjustment		Before Adjustment		After Adjustment
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Inspiration Time						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(Sec.)	(Sec.)	(Sec.)	(%)	(Sec.)		
0.3	0.28	-0.02	-6.67	± 0.0035		
0.5	0.48	-0.02	-4.00	± 0.0058		
0.7	0.68	-0.02	-2.86	± 0.0081		

Breath Rate						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
60	59.90	-0.10	-0.17	± 0.6928		
80	79.90	-0.10	-0.12	± 0.9238		
100	99.80	-0.20	-0.20	± 1.1547		

I:E Ratio						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
((1:x))	((1:x))	((1:x))	(%)	((1:x))		
1	1.05	0.05	5.00	± 0.0231		
2	2.07	0.07	3.50	± 0.0462		
3	3.09	0.09	3.00	± 0.0693		



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PIP						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(cmH ₂ O)	(cmH ₂ O)	(cmH ₂ O)	(%)	(cmH ₂ O)		
10	9.82	-0.18	-1.80	± 0.3200		
20	20.06	0.06	0.30	± 0.3200		
30	30.91	0.91	3.03	± 0.3200		

PEEP						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(cmH2O)	(cmH2O)	(cmH2O)	(%)	(cmH2O)		
3	2.79	-0.21	-7.00	± 0.0346		
5	4.94	-0.06	-1.20	± 0.0577		
7	7.00	0.00	0.00	± 0.0808		

% OXYGEN						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(%O ₂)	(%O ₂)	$(\%O_2)$	(%)	(%O ₂)		
21	21.38	0.37	1.79	± 0.4876		
60	59.73	-0.27	-0.46	± 1.3866		
100	99.68	-0.32	-0.32	± 2.3100		

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%

FI-BME-NHS-CP-018/5 Rev.03 Page 3/3 Issued Date 20/07/2023