



# Enhanced Patient Care

TECHNICAL SPECIFICATIONS DATA SHEET

*Eflo-7*



*Happier Living Everyday*

# Product Specifications

## Physical Specifications

Package dimensions	
Volume	1570×975×750 mm <sup>3</sup> (H×W×D)
Gross weight	Approximately 135 Kg
Net weight	Approximately 80 Kg
Top shelf	
Area	530×400 mm <sup>2</sup> (L×W)
Weight limit	Approximately 34 Kg (75 lb)
Work surface	Retractable tray, Optional Side flip up tray
Drawer	Two
Volume	150×335×310 mm <sup>3</sup> (H×W×D)
Vaporizer station	
Number of stations	Two
Type	Selectatec® compatible with Inter lock. Prevents simultaneous activation of more than one vaporiser at a time.
Casters	
Diameter	100 mm
Brakes	Single foot lever locks and unlocks for two front casters
Material	
The framework is made of metal and ABS, wherein the metal is galvanized A3, and it passes 48h salt spray test.	

## Electrical Specifications

Power supply	
Power input	100 to 240 VAC, 50/60 Hz, 6.5A (Max.)
Power cord	5 meter length
Fuse	T10AL/250V
Standard	CE
Auxiliary power outlets	
Number of outlets	Three
Power output	100 to 240 VAC, 50/60 Hz, 1.5A×3
Fuse	T2AL/250V
Standard	CE
Battery	
Type	Lithium
Number of batteries	One piece
Backup time	Minimum 120 Minutes, Maximum up to 240 minutes with a fully charged battery
Charging time	Approximately 8 hours
Communication port	
RS 232, PS2. Optional Ethernet Port	

## Pneumatic Specifications

Gas supply	
Pipeline	O <sub>2</sub> , N <sub>2</sub> O, AIR. NIST Type
Pressure	280 to 600 kPa
Cylinder Yokes	Pin Indexed. For O <sub>2</sub> & N <sub>2</sub> O . With Filter and Check Valve.
Oxygen flush	25~75L/min
Auxiliary O <sub>2</sub> flowmeter (Optional)	Flow rate 0-15 L/min
Gauges	Total 3 gauges for pipeline & 2 for cylinder
Auxiliary Common Gas Outlet (ACGO)	Switchable outlet. ISO 22mm OD and 15 mm ID.

Flowmeters	
Type	O <sub>2</sub> , N <sub>2</sub> O, Air: Electronic flow meters with virtual flow display on screen & total fresh gas flow display on a flow tube. Flow Range: 0.1 - 10 L/min for all Gases
Hypoxic guard system	Mechanical Gear System. Provide minimum 25% concentration of Oxygen in O <sub>2</sub> /N <sub>2</sub> O gas mixture
Absorber	
Volume	385×502×335 mm <sup>3</sup> (H×W×D)
Net Weight	Approximately 6 Kg
Bellows Volume	1500 ml - Universal Bellows , Latex Free
Absorber Volume	Manual Mode- <1.2 L Vent Mode- <2.95 L
APL Valve	2 to 70 cm H <sub>2</sub> O
Pressure Manometer	Pneumatic gauge measures breathing circuit pressure with range of -20 to 100 cm H <sub>2</sub> O
Absorber leakage	The absorber pressure under 3 kPa, then the leakage is not more than 150 mL/min
Connection	Inspiratory port: standard outside diameter 22 mm, inner diameter 15 mm, cone-shaped connector; Expiratory port: standard outside diameter 22 mm, inner diameter 15 mm, cone-shaped connector; Manual breathing bag: outside diameter 22 mm.
Absorber canister	Single, approximately 1.5 L (1.35 Kg) with bypass
Absorber Heating	Avoids water condensation
Bag/Vent switch	Turns the ventilator on or off

## Anaesthesia Ventilator

Ventilator specification	
Driving mode	Pneumatically Driven & Electronically controlled
Driving gas	Oxygen, Optional (Air)
Driving gas pressure	0.28 ~ 0.6 Mpa
Driving gas flow rate	≤120 L/min
Ventilation mode	VCV, PCV, SIMV+VCV+PS, SIMV+PCV+PS,PSV with Apnea backup ,Spontaneous/ Manual, Standby. Optional PRVC
Screen Size	10.1 inch (222 x 132mm) glare free color LCD; optional touch screen
Resolution	1024×600
Graph	Pressure-time, Flow-time, Volume-time. Optional: CO <sub>2</sub> -time, SpO <sub>2</sub> -time
Compensations	Fresh Gas Compensation, Compliance Compensation, Altitude compensation, Mix gas Compensation
Spirometry Loops	Pressure-Volume, Flow-Volume, Flow-Pressure
Ventilator parameter	
Tidal volume range	20 to1500 mL in VCV, 5-1500 ml in PCV
Tidal volume incremental settings	20 to 100 mL (increments of 5 mL)
	100 to 1000 mL (increments of 10 mL)
	1000 to 1500 mL (increments of 50 mL)
Frequency range	4 to 100 bpm (increments of 1 bpm)
Inspiratory/ Expiratory ratio range	4:1 to 1:8 (increments of 0.5)
Inspiratory time range	0.1 to 10 s (Increments of 0.1 s)

# Product Specifications

PEEP	OFF, 4-30 cm H <sub>2</sub> O (Increments of 1 cm H <sub>2</sub> O)
Inspiratory Pressure Range	5 to 70 cm H <sub>2</sub> O (increments of 1 cm H <sub>2</sub> O)
Inspiratory hold percent range	OFF, 5% to 60% (increments of 5%)
Inspiratory pressure range	5 to 70 cm H <sub>2</sub> O (increments of 1 cm H <sub>2</sub> O)
Inspiratory pressure limit range	PEEP+5 to 70 cm H <sub>2</sub> O (increments of 1 cm H <sub>2</sub> O)
Pressure Support Range	5-60 cm H <sub>2</sub> O (Increments of 1 cm H <sub>2</sub> O)
Flow Trigger Range	1-15 L/ min (Increments of 1 L/min)
<b>Ventilator control</b>	
Self Test	Start up test, Leak test (Manual and Auto), Compliance test, FiO <sub>2</sub> calibration
Knob	One knob, it can be turned clockwise/ anti-clockwise and pressed down
Keys	11 keys: Alarm Silence, Alarm Settings, Ventilation Setting, System Settings, System Log, Start/ Standby and six parameters setting keys.
<b>Ventilator monitoring</b>	
Inspiratory tidal volume range	0 to 2000 mL
Expiratory tidal volume range	0 to 2000 mL
Minute volume range	0 to 60 L
Frequency range	0 to 100 bpm
Inspiratory/expiratory ratio range	4:1 to 1:8
Peak pressure range	-12 to 100 cm H <sub>2</sub> O
Mean pressure range	0 to 100 cm H <sub>2</sub> O
Inspiratory plateau pressure range	0 to 100 cm H <sub>2</sub> O
Inspiratory O <sub>2</sub> % range	21% to 100%
Compliance range	0 to 200 mL/cm H <sub>2</sub> O
Resistance range	0 to 200 cm H <sub>2</sub> O/(L/S)
<b>Alarm settings</b>	
Tidal volume range	High: 40 to 1500 mL, OFF Low: OFF, 40 to 1500 mL
Minute volume range	High: 1 to 40 L, OFF Low: OFF, 1 to 40 L
Frequency range	High: 1 to 100 bpm, OFF Low: 0 to 100 bpm
Inspiratory O <sub>2</sub> % range	High: 21% to 100%, OFF Low: OFF, 21% to 100%
Airway pressure range	High: 1 to 100 cm H <sub>2</sub> O Low: 0 to 99 cm H <sub>2</sub> O
High continuous airway pressure	Alarm when airway pressure exceeds cm H <sub>2</sub> O for 15 seconds
Negative pressure	Alarm when airway pressure exceeds -10 cm H <sub>2</sub> O
Apnea	Alarm when no breath within 10 to 40 seconds (adjustable)
O <sub>2</sub> failure	Alarm when supply pressure of O <sub>2</sub> is less than 280 kPa
Mains failure	Alarm when main power fails
Low Battery	Alarm when battery can be used for approximately 10 minutes
Alarm mute	Less than 100 seconds

<b>SpO<sub>2</sub> monitoring (Optional)</b>		
SpO <sub>2</sub> module includes SpO <sub>2</sub> sensor for monitoring SpO <sub>2</sub> of patient and triggering alarm when measured values exceed the preset alarm values.		
SpO <sub>2</sub> monitoring range	0 to 100%	
PR monitoring range	30 to 250 bpm	
SpO <sub>2</sub> alarm range	70% to 99%	
<b>Gas analyzer (Optional)</b>		
Masimo mainstream CO <sub>2</sub> module monitors concentration of CO <sub>2</sub> in inspiratory and expiratory phases		
IRMA CO <sub>2</sub> (Mainstream CO <sub>2</sub> Module)		
<b>During standard conditions:</b>		
<b>Range</b>	<b>Accuracy</b>	
CO <sub>2</sub> 0-15 vol%	± (0.2 vol% + 2 % of reading)	
Masimo Gas analyzer measures the concentration of Agents in fresh gas mixture with automatic agent identification		
<b>Available Options:</b>		
1. IRMA AX+ (Mainstream): (CO <sub>2</sub> , N <sub>2</sub> O, 5 Anesthetic agents with Auto ID)		
2. ISA AX + (Sidestream): (CO <sub>2</sub> , N <sub>2</sub> O, 5 Anesthetic agents with Auto ID)		
3. ISA OR+ (Sidestream): (CO <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> O, 5 Anesthetic agents with Auto ID)		
<b>During standard conditions:</b>		
	<b>Range</b>	<b>Accuracy</b>
CO <sub>2</sub>	0-15 vol%	±(0.2 vol% + 2 % of reading)
N <sub>2</sub> O	0-100 vol%	±(2 vol% + 2 % of reading)
HAL, ISO, ENF	0-8 vol%	±(0.15 vol% + 5 % of reading)
SEV	0-10 vol%	±(0.15 vol% + 5 % of reading)
DES	0-22 vol%	±(0.15 vol% + 5 % of reading)
O <sub>2</sub>	0-100 vol%	±(1 vol% + 2 % of reading)
<b>Vaporizers (Optional)</b>		
<b>Penlon Sigma Delta</b>		
Anesthetic Agent	Sevoflurane, Isoflurane, Halothane, Enflurane	
Filler Type	Key fill, Quick Fil® (Only for Sevoflurane), Pour fill	
Mounting	Selectatec® type, Tool free installation	
Operating flow range	0.2 to 15 Litres/min	
Capacity	MAX: 250 ml Nominal MIN: 35 ±10 ml	
Dial Range	Sevoflurane 0-8%, Isoflurane 0-5%, Halothane 0-5%, Enflurane 0-5% & 0-8%	
<b>Environmental Specifications</b>		
<b>Operation system</b>		
Temperature	10°C to 40°C	
Humidity	15% to 95%, non-condensing	
Altitude	70 kPa to 106 kPa	
<b>Storage system</b>		
Temperature	-20°C to 55°C	
Humidity	10% to 95%, non-condensing	
Altitude	0-5000 m/ 54-101 kPa	
<b>Quality standard</b>		
Valid CE Certificate of the offered model can be provided as required.		

# A Global Medical Technology Company



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