BPL Medical Technologies

Enhanced
Patient Care

Eflo-6C

BPL

Happier Living Everyday

Product Specifications

Physical Specifications

Package dimensions

Volume	1570×975×750 mm³ (H×W×D)
Gross weight	Approximately 135 Kg
Net weight	Approximately 80 Kg

Top shelf

Area	530×400 mm² (L×W)
Weight limit	Approximately 34 Kg (75 lb)
Work surface	Retractable tray, Optional Side flip up tray
Drawer	Two
Volume	150×335×310 mm³ (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	100mm
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

Auxillary power outlets (Optional)

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 360 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_2, N_2O. AIR. NIST Type
Pressure	280 to 600 kPa
Cylinder Yokes	Pin Indexed. For O_2 & N_2O. With Filter and Check Valve.
Auxiliary O_2 flowmeter (Optional)	Flow rate 0-15 L/min

Oxygen flush	25~75L/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_2, N_2O, Air: mechanical flowmeters. Two tube of O_2, two tube of N_2O, single tube for Air. Flow range: 0.05 to 1 L/min and 1 to 10 L/min for O_2 & N_2O. 0.1 to 10 L/min for AIR
Hypoxic guard system	Mechanical Gear System. Provide minimum 25% concentration of Oxygen in O_2/ N_2O gas mixture

Absorber

Volume	385×502×335 mm³ (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_2O
Pressure Manometer	Pneumatic gauge measures breathing circuit pressure with range of -20 to 100 cm H_2O
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 15mm, cone-shaped connector; Expiratory port: standard outside diameter 22 mm, inner diameter 15mm, 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, Manual
Screen Size	8.4 inch
Resolution	800×600
Graph	Pressure-time, Flow-time, Volume-time.
Compensations	Fresh Gas Compensation, Compliance Compensation, Altitude compensation, Mix gas Compensation

Product Specifications

Ventilator parameter

Tidal volume range	40 to 1500 mL
Tidal volume incremental settings	40 to 100 mL(increments of 5mL)
	100 to 1000 mL(increments of 10mL)
	1000 to 1500 mL(increments of 50mL)
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)
PEEP	OFF, 4-30 cm H_2O (Increments of 1 cm H_2O)
Inspiratory hold percent range	OFF, 5% to 60% (increments of 5%)
Inspiratory pressure range	5 to 70 cm H2O (increments of 1 cm H2O)
Inspiratory pressure limit range	0 to 70 cm H_2O (increments of 1 cm H_2O)

Ventilator control

Self Test	Start up test, Leak test (Manual and Auto), Compliance test, FiO_2 calibration
Knob	One knob, it can be turned clockwise / anticlockwise and pressed down
Keys	11 keys: Alarm Silence, Alarm Settings, Ventilation setting, System Settings, System Log, Start/ Standby and six parameters setting keys.

Ventilator monitoring

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_2O
Mean pressure range	0 to 100 cm H_2O
Inspiratory plateau pressure range	0 to 100 cm H_2O
Inspiratory O_2% range	21% to 100%
Compliance range	0 to 200 mL/cm H_2O
Resistance range	0 to 200 cm H_2O/ (L/S)

Alarm settings

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_2% range	High: 21% to 100%, OFF Low: OFF, 21% to 100%
Airway pressure range	High: 1 to 100 cm H_2O Low: 0 to 99 cm H_2O
High continuous airway pressure	Alarm when airway pressure exceeds cm H_2O for 15 seconds
Negative pressure	Alarm when airway pressure exceeds -10 cm H_2O
Apnea	Alarm when no breath within 10 to 40 seconds (adjustable)
O_2 failure	Alarm when supply pressure of O_2 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

SpO$_2$ monitoring (Optional)

SpO_2 module includes SpO_2 sensor for monitoring SpO_2 of patient and triggering alarm when measured values exceed the preset alarm values.

SpO_2 monitoring range	0 to 100%
PR monitoring range	30 to 250 bpm
SpO_2 alarm range	70% to 99%

Gas analyzer (Optional)

PHASEIN mainstream CO_2 module monitors concentration of CO_2 in inspiratory and expiratory phases

Monitoring range	0~114 mmHg

PHASEIN IRMA AX+ mainstream gas analyzer analyzes agent ID automatically and monitors concentration of it.

Net weight	30g
Halothane	0~8 vol%
Enflurane	0~8 vol%
Isoflurane	0~8 vol%
Desflurane	0~22 vol%
Sevoflurane	0~10 vol%

Vaporizers (Optional)

Penlon Sigma Delta

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%

Environmental Specifications

Operation system

Temperature	10ºC to 40ºC
Humidity	15% to 95%, non-condensing
Altitude	70 kPa to 106 kPa

Storage system

Temperature	-20ºC to 55ºC
Humidity	10% to 95%, non-condensing
Altitude	0-5000 m/ 54-101 kPa

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Service is Powered by: **BPL Smart UpKeep® Service**

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