

KIRAN
A Division of **TRIVITRON** Healthcare

BIONX
Biomedical Engineering & Hospital Turnkey Solutions

Empowering Precision With Volume Control & Flow Based
High-End Anesthesia Workstation

BREEZE V/F

www.kiranxray.com



Introduction:

Introducing the Breeze Anaesthesia Workstation, a cutting-edge solution designed to revolutionize the operating room. Combining advanced technology with user-friendly features, the Breeze ensures precise control and seamless integration of all anaesthesia components. Engineered for reliability and efficiency, this state-of-the-art workstation enhances patient care with intuitive interfaces, customizable settings, and robust safety features, setting a new standard in anaesthesia workstations.



Inclusions:

- 4 tube / 5 tube Hypoxic Guard Rotameter
- Single / Double Selectatec Bar
- Auxiliary Flow Meter
- N₂O Cut Off System
- International standard Diss (diameter indexed safety system) for O₂, Air & N₂O
- Spacious Drawer
- 7 Segment LED Alarm for Oxygen / Air
- Integrated CO₂ absorber and bellows unit with ventilator interface mode switching, triggered by the bag/ventilator mode

TECHNICAL DATASHEET:

Ventilator Specification	Breeze V - Volume Control	Breeze F - Flow Based
Display	7" TFT with Touch Screen	7" TFT with Touch Screen
Patient type	Adult & Paediatric	Adult & Paediatric
Mode of Operation	VCMV, V- SIMV, PCMV, P-SIMV, PRVC, PSV, BAG and Standby	CMV, ACMV, SIMV, PLV, BAG and Standby
Tidal Volume	50 to 1500 ml	50 to 1500 ml
Respiratory Rate	1 to 60 BPM	6 to 40 BPM
Ti	0.2 to 8.0Sec	
I: E Ratio	4:1 to 1:4	4:1 to 1:4
Plateau	0 to 50%	0 to 50%
Pressure Support	5 to 40 cmH2O	
Trigger	0.5 to 5.0 cmH2O	1 to 9 cmH2O
PEEP	3 to 30 cmH2O	No PEEP
Pressure Limit	20 to 60 mBar	20 to 60 mBar
Backup RR	6to 60 BPM	
Alarms	Low and High for Pressure, RR, Minute Volume and FIO2, Active patient, Driving Gas failure, low battery indication	Pressure Low and High, RR Low and High, FIO2 Low and High, Active patient, Driving Gas failure, low battery indication, Minute Volume Low and High
Monitoring Factors	Tidal Volume, Minute Volume, RR, FIO2, PEEP	Tidal Volume, Minute Volume, RR, FIO2, PEEP Obtained
Waveforms	P-T, F-T,V-T	P-T
Loops	P-V, F-V	

Pneumatic Specification		
Pipeline Supply	O2, N2O,Air (0.23~0.6 Mpa)	O2, N2O,Air (0.23~0.6 Mpa)
Cylinder Gas Supply	O2, N2O (Pin indexed yokes)	
Opera onal Modes	Closed & Semi Closed circuit system	
Flow Meter	5 Tube	4 Tube
	Cascade Flow Meter for O2, N2O	
Oxygen & N2O	Low Flow - 0.1~1.0 lpm High Flow - 1~10 lpm	
Air	0~10 lpm	
Driving Gas Input Pressure	Minimum 3 Bar Pressure	
Driving Gas Input for Ventilator	Air / Oxygen (In case main air gas fail, auto shift to secondary gas O2. Main driving gas can be air, hence reduce running cost of oxygen.)	Air / Oxygen (Manual Shifting)
Pressure Gauge	2 nos. for pipeline, 2 nos. for cylinder	
	1 nos. for airway pressure	
Hypoxic guard system	Mechanical type provides minimum 25% concentra on of O2 in O2/N2O mixture Proportionate reduce N2O with reduc on in O2 flow	
O2 gas supply failure alarm	O2 pressure ≤ 0.23MPa	
N2O cut off	N2O cut off with O2 gas supply pressure fail	
O2 flush	35~75 L/min	
Switchable ACGO	ISO 22 mm OD and 15 mm ID	
Co2 absorbent	Quick release type with volume 1.5L	
Bag/Vent switch	Switch for manual and mechanical ventilation	
Integrated APL value	≤ 7.5KPa	
Backbar	Selectatec bar for two vaporizer with interlock safty mechanism	Selectatec bar for one vaporizer with interlock safty mechanism (Two vaporizer Optional)
Integrated APL value	Halothane,Isoflurance,SevofloraneP our-fill, Easy-fill,Quick-fill	
Auxiliary O2	O2 outlet for local and regional anesthesia	

Electronic Specification	
Power Input	90 to 260 V AC 50/60 Hz
Power Output	Two electrical power outlets 90 to 260 V AC 50/60 Hz
Battery Backup	2 hours (Lithium-ion)

General Specification	
Drawer	One (Two Optional)
Wheel	Anti Static medical grade Castor Wheels

*Technical specification and design are subject to change without prior notice"