

iVent - 3000

BiPAP Ventilator



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

▶▶ **Cutting edge and User-centric**

NEX-GEN TURBINE TECHNOLOGY

Highly responsive generation next turbine provides seamless flow deliveries from Adult to Neonatal patient category.

USER SELECTABLE FLOW SENSOR

Allow user to select position of flow sensor as Proximal or Distal.

PERSONALISED PROFILES

Allows the user to create personal workspaces and custom parameters to have a consistent user experience.

15.6 “ TOUCH DISPLAY

Color TFT display to have a seamless visual experience.

▶▶ **Smart and Intuitive**

ADVANCE MONITORING MODES

Briovent offers advance modes like PRVC, PRVC SIMV, MMV, APRV, BIPHASIC and breathe by breathe data of lung mechanics.

NIV with automatic leakage compensation modes PC AC, PC SIMV, PRVC, PRVC SIMV, CPAP-PSV, APRV, BIPHASIC

INTUITIVE USER ITERFACE

Very simple to use touch interface allows easy navigation across settings, patient parameters or waveforms/loops.

Bottom panel gives easy access to setting parameters without going into menu or submenu.



WAVEFORMS



LOOPS



MONITORED VALUES



PATIENT SELECTION

►► **Reliable and Dependable**

RECRUITMENT MANEUVER

Lung recruitment tool provides sustained inflation of lungs, aiming to open up the collapsed Alveoli.

POWER BACK-UP

4 Hour internal battery back-up for emergency power outages and field usages.

ACTIVE EXHALATION VALVE

Highly responsive and corrosion resistant metallic autoclavable expiratory valve.



►► Safe and Comfortable

360deg ALARM VIEW

Top mounted alarm indicator with defined priority based color codes gives instant alerts to user viewable from all angles.

O₂ FLUSH

Increment of FiO₂ for a limited period of time as post suction tool. User can configure settings of FiO₂ & Time.

DYNAMIC SAFETY VALVE

Electro-pneumatically controlled dynamic safety valve lets an expert doctor control setting of safety pressure limit.

DYNAMIC SETTINGS LIMIT

Improves patient safety by allowing user to set parameters only within safe limits.

SIGH

Enhance Comfort of your patient by volume sigh & Pressure sigh.

►► Specifications

PATIENT TYPE : Adult, Padeatric, Neonatal

TECHNOLOGY: High Performance turbine driven

VENTIATOR MODES:

ICU Ventilator

VENTILATOR MODES	INVASIVE ADULT/ PAEDIATRIC	NON-INVASIVE ADULT/ PAEDIATRIC	INVASIVE NEONATAL	NON-INVASIVE NEONATAL
VC A/C (Volume Control AssistControl)	*			
VC SIMV (Volume Control Synchronised Intermittent Mandatory Ventilation)	*			
PC A/C (Pressure Control Assist Control)	*	*	*	*
PC SIMV (Pressure Control Synchronised Intermittent Mandatory Ventilation)	*	*	*	*
PRVC (Pressure Regulated Volume Control)	*	*	*	*
PRVC SIMV (Pressure Regulated Volume Control, Synchronised Intermittent Mandatory Ventilation)	*	*	*	*
APRV (Airway Pressure Release Ventilation)	*	*	*	*
BIPHASIC (Biphasic Positive Pressure Ventilation)	*	*	*	*
PC-MMV (Pressure Control Mandatory Minute Ventilation)	*		*	
CPAP-PSV (Continuous Positive Airway Pressure with Pressure Support and Apnea Backup)	*	*	*	*
NCPAP (Neonatal Continuous Positive Airway Pressure)				*
NCPAP-NIPPV (NCPCP+ Noninvasive positive pressure ventilation)				*
O ₂ Therapy (High Flow Nasal Oxygen Therapy)		*		*

MONITORING PARAMETERS :

Ppeak	VTe	MVe	Flow peak Insp.	RSBI	Cstat	I:E
Pplat	VTe spon	MV e spon	Flow peak Exp.	PEEP int.	RR Total	SPO2 (Optional)
Pmean	VTi	MVi	Flow leak	PTP	RR Spon	PR (Optional)
PEEP	VTi spon	MVi spon	RC Insp	Ri	T Insp.	EtCO2 (Optional)

SETTING PARAMETERS

PARAMETER	RANGE
FiO2 (%)	21-100
Tidal Volume (ml)	100-2000 – Adult 50-1000 – Ped. 02-100 – Neo(PRVC)
ΔP Insp. (mbar)	1-90
PEEP (mbar)	0-40
ΔP Support (mbar)	0-90
RR (BPM)	1-100 – Adult/Ped. 1-240 – Neonatal
Tinsp. (Sec)	0.2-30
I:E	1:4 – 4:1 (Regulated)
I:E (APRV/BIPHASIC)	1:150-150:1
Rise Time (Sec)	0.1 – (Set Tinsp.)
Exp. Cycle (%)	10-85
Pressure Trigger (mbar)	0.1-20
Flow Trigger (LPM)	0.1 – 15
Tpause (%)	Off, 10-60%
MV (LPM)* MMV Mode	0-40 Adult 0-20 Ped. 0-10 Neo
PHigh (mbar)	1-90
PLow (mbar)	0-40
Thigh (Sec)	0.2-30
TLow (Sec)	0.2-30

WAVEFORM AND LOOP

Pressure Time Waveform
Pressure-Volume Loop

Volume Time Waveform
Flow-Volume Loop

Flow Time Waveform
Flow-Pressure Loop

APNEA BACKUP MODE

PC A/C OR VC A/C

USER SETTABLE ALARM :

High Ppeak	High MVe	High VTi	High RR	High FiO2	Apnea
Low Ppeak	Low MVe	Low VTi	Low RR	Low FiO2	

SIGH

Volume sigh and pressure sigh.

Breathe Count: OFF, 50-250 BPM

Δ P Sigh: 1-20 mbar (above PEEP, max 90 mbar)

Δ VT Sigh: 1-2000 ml (Above Set VT, Max. 2000 ml)

TUBE COMPENSATION

Tube Type: Endo Tracheal Tube,

Tracheotomy Tube

Tube ID: Adult 5-12 mm, Paediatric 2-8 mm,

Neonatal 2-8 mm

Compensation % : 1-100%

Inspiratory/Expiratory Compensation On/Off

NEBULIZER

Nebulizer Time: 0-60 sec.

Nebulizer Flow: 3-10 LPM

Nebulizer Position: Before/After Flow Sensor

O2 FLUSH

Time O2 Flush: 1-5 min. Configurable

FiO2 O2 Flush: 21-100% Configurable

PHYSICALS SPECIFICATIONS

	Dimension (LxBxH)	Weight kg
BrioVent:	440 x 380 x 460 mm	16.70
With Trolley:	570 x 520 x 1430 mm	39 Kg.

DISPLAY

15.6 Inch TFT Touch Display with Encoder

Display Resolution: 1920x1080 pixels with Adjustable brightness

MANOEUVRE

Inspiratory Hold,

Expiratory Hold,

P0.1, Intrinsic PEEP,

Lung Recruitment (Optional)

GAS STANDARD

ATPD/STPD/BTPS

OXYGEN INPUT PURITY

90 to 100%

TREND AND LOGS

96 hours Trend &

1000 events history

O2 THERAPY

FiO2 : 21-100%

Flow : 1-65 LPM

POWER SUPPLY AND BATTERY

Input Voltage: 110-240 VAC 50/60 Hz

Battery: Lithium-Ion pack 10A, 24VDC

Backup Time: 4 hours in Normal working Condition

INTERFACE

USB, VGA, RJ45

GAS SUPPLY

Air: Built in Turbine 200 LPM Regulated

Oxygen: Medical Grade Oxygen 40-60 PSI

O2 Connection: DISS

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



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TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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Analytical Foundation

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