



BleaseFocus

VERSATILITY AND VALUE





BleaseFocus

PRODUCT DATA SHEET

Spacelabs Anesthesia Systems incorporate the latest technology to offer you unparalleled performance in ventilation and vaporization:

- **Simplicity:** Easy to use, easy to move.
- **Choice:** Adapt the equipment to your patients and procedures.
- **Patient Centered Ventilation:** Precision in an anesthesia ventilator, from conventional ventilation to advanced modes, including our newest mode SIMV-PC.
- **Reduced Cost of Ownership:** BleaseDatum vaporizers are free of routine maintenance requirements and are backed by a 10-year warranty (5-year warranty for Halothane).

Ventilator

Type	Electronically controlled, bellows driven
Ventilator models	3x monochrome (Blease700) or 3x color (Blease900)
Patient spectrum	Newborn to bariatric
Modes of ventilation - Standard	Volume Control (VCV), Precision Pressure Control™ (PPCV™), manual (bag)
Modes of ventilation - Optional	Synchronized Intermittent Mandatory Ventilation with Pressure Support (SIMV + PS) in both Volume and Pressure Control modes (SIMV-VC, SIMV -PC), Advanced Pressure Support™ (AdvPS™)
Display size	8.4 in
Pixel format	800 x 600
System test / checks	Semi-automatic, with leak and compliance tests <1 min

Ventilator Parameters

Tidal volume range (V_T)	20 mL to 1,500 mL
Incremental settings	10 mL
BPM range	2 to 99
Minute volume range	0.3 L/min to 25 L/min
I:E ratio	2:1 to 1:5
Pressure range (P _{insp})	10 to 50 cmH ₂ O
Pressure support	5 cmH ₂ O to 30 cmH ₂ O
Inspiratory time	0.2 to 3 sec
Inspiratory pause	Off, 10%, 20%, 30%, 40%, 50%
Flow trigger	1 L/min to 15 L/min
Inspiratory termination level	Reduction of 25% of peak flow
PEEP range	Off, 3 cmH ₂ O to 20 cmH ₂ O
PEEP type	Integrated, electronically controlled

Ventilator Performance

Pressure range at inlet	275 kPa to 482 kPa / 39.8 psi to 69.9 psi
Peak gas flow	100 L/min + fresh gas flow
Flow valve range	1.7 L/min to 100 L/min
Flow compensation range	150 mL to 18 L/min
Volume delivery accuracy	± 10% or ± 10 mL from 50 mL to 1 L
Pressure delivery accuracy	± 10% or ± 2 cmH ₂ O
Pressure monitoring	± 5% or ± 1 cmH ₂ O
PEEP delivery	± 5% or ± 1 cmH ₂ O
Volume monitoring	± 7% or ± 10 mL
Protocols / Data management	Flexport optional
Flowmeter	Simplex or cascade
Flowmeter type	Mechanical
Monitoring	Optional Ultraview, Elance
Fresh gas compensation	Yes
Compliance compensation	Dynamic
Oxygen sensor	Optional galvanic cell
Battery power	30 min minimum; typical operating time 60 min +
Battery type	Internal, rechargeable sealed lead acid
Communication ports	RS-232 compatible serial interface

Alarm settings

Minute volume (V _e)	Low: 0 L/min to 24 L/min, High: 1 L/min to 25 L/min
Inspired oxygen (FiO ₂)	Low: 18% to 109%, High: 19% to 110%
Apnea alarm	User defined: 15 to 60 sec Default: 30 sec, positive deviation of 3 to 5 L/min flow based on TV
Low airway pressure	User defined: 4 cmH ₂ O to 50 cmH ₂ O
High pressure	User defined: 5 cmH ₂ O to 70 cmH ₂ O
Sustained airway pressure	Pre-set: Less than 5 cmH ₂ O (adult) or 3 cmH ₂ O (pediatric) change in pressure per breath
Subatmospheric pressure	Paw ≤ 10 cmH ₂ O

Frame

Height	1.48 m / 4.88 ft
Maximum width	0.63 m / 2.06 ft
Depth	0.82 m / 2.69 ft
Weight	80 kg / 176.37 lbs
Maximum loading	Monitor shelf 30 kg / 66.1 lbs
Other	Work surface 50 kg / 110 lbs, Bottom shelf 40 kg / 88 lbs, Drawer 5 kg / 11 lbs
Drawers	Optional, up to 4
Vaporizer compatibility	Sevoflurane, Desflurane, Enflurane, Halothane, Isoflurane
Vaporizer type	BleaseDatum
Number of vaporizer connections	2
Frame brake	Individual castors
O ₂ flush	45 to 50 L/min

Frame, continued

O ₂ fail safe	Two alarms: pneumatic audible O ₂ failure alarm for ≥ 7 sec as well as visual, audible O ₂ alarm on screen
Hypoxic mixture fail safe	Mechanical, hypoxic guard for minimum of 25% O ₂
Scavenging	Active, passive or open reservoir
Pendant mount	Trumpf and Maquet Compatible

Range of Flowmeters with Hypoxic Guard

Type	O ₂	N ₂ O	Air
Simplex	0.1 to 10 L/min	0 to 12 L/min	0.1 to 15 L/min
Cascade low range	0.1 to 1.0 L/min	0 to 1.0 L/min	0.1 to 1.0 L/min
Cascade high range	0.1 to 10 L/min	0 to 12 L/min	0 to 15 L/min

Breathing System

Volume of CO ₂ absorbent	1 or 2 L
Bag arm	Optional
Leakage	Absorbing 15 ml/min, Bypass > 5 mL/min
Expiratory resistance	Absorbing 1.8 cmH ₂ O, Bypass 2.1 cmH ₂ O
Inspiratory resistance	Absorbing -3.9 cmH ₂ O, Bypass -2.2 cmH ₂ O
Circuit volume	CAS I = 2.514 L, CAS II = 3.457 L

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Blease900 Ventilator

PATIENT CENTERED VENTILATION



SPACELABS
Healthcare

Technical Specifications

Model	990	970	950
Fresh gas compensation	✓	✓	✓
Compliance compensation (Option of pre-set or measured)	✓	✓	✓
Adult, pediatric & neonate	✓	✓	✓
Ventilation Mode			
Volume control	✓	✓	✓
Pressure control	✓	✓	✓
SIMV + PSV	✓	✓	✓
Pressure support	✓	✓	
Ventilation Monitoring			
Oxygen	✓	✓	✓
Inspired and expired volumes	✓	✓	✓
PAW	✓	✓	✓
Pressure waveform	✓	✓	✓
Flow waveform	✓	✓	✓
Spirometry loops	✓		
Parameters			
I:E ratio	2.0:1 - 1:5.1		
Frequency	2 - 99 bpm		
Set tidal volume	adult: 20 - 1500 ml	pediatric & neonate: 20 - 1500 ml	
Minute volume	adult: 0.3 - 25 lpm	pediatric & neonate: 0.3 - 25 lpm	
Pressure limit	adult: 10 - 70 cmh20	pediatric & neonate: 10 - 50 cmh20D	
PEEP	3 - 20 cmh20		
Inspiratory pause	0 - 50%		
Sigh function	The delivered total volume is increased by 10% every 10 breaths		
Patient trigger	5 - 15 lpm		
Max inspiratory flow	100 lpm		
Support pressure	5 - 30 cmh20		
User Set Alarms			
Pressure high	5 - 70 cmh20		
Pressure low	4 - 50cmh20		
MV high	adult: 2 - 25 lpm	pediatric & neonate: 1 - 25 lpm	
MV low	adult: 1 - 24 lpm	pediatric & neonate: 0 - 24 lpm	
High bpm	3 - 99 bpm		
Low bpm	0 - 98 bpm		
High oxygen	19 - 110%		
Low oxygen	18 - 109%		
Static Alarms			
Apnea	Sensor error	Vent in operative	
Inspiratory flow transducer error	Setting error	Peep error	
Under pressure	Low supply gas pressure	No charge	
Power fail	Battery low	Comms fail	
Apnea alarms in bag mode	Sustained pressure	Fresh gas too high	

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