



BleaseSirius

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 compliant 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 (Ve)	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	1.47 m / 4.8 ft
Width	0.70 m / 2.3 ft
Depth	0.75 m / 2.5 ft
Weight	115 kg / 253.5 lbs (unpacked)
Maximum loading	Monitor shelf 25 kg / 55.1 lbs
Other	Work surface 50 kg / 110.2 lbs, extended work surface 15 kg / 33 lbs
Drawers	Optional, up to 4; all with locks standard
Vaporizer compatibility	Sevoflurane, Desflurane, Enflurane, Halothane, Isoflurane
Vaporizer type	BleaseDatum
Number of vaporizer connections	2
Frame brake	Central
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	Drager, 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		
Electrical			
Number of sockets	4		
Maximum loading per socket	110V: 4 Sockets 2.0A 220V: 1 Socket 2.0A, 3 Sockets 1.0A		
Transformer providing isolated sockets	Optional		
Switched sockets with machine on/off - 2 switched	Optional		
Other			
Suction system	Integrated		