



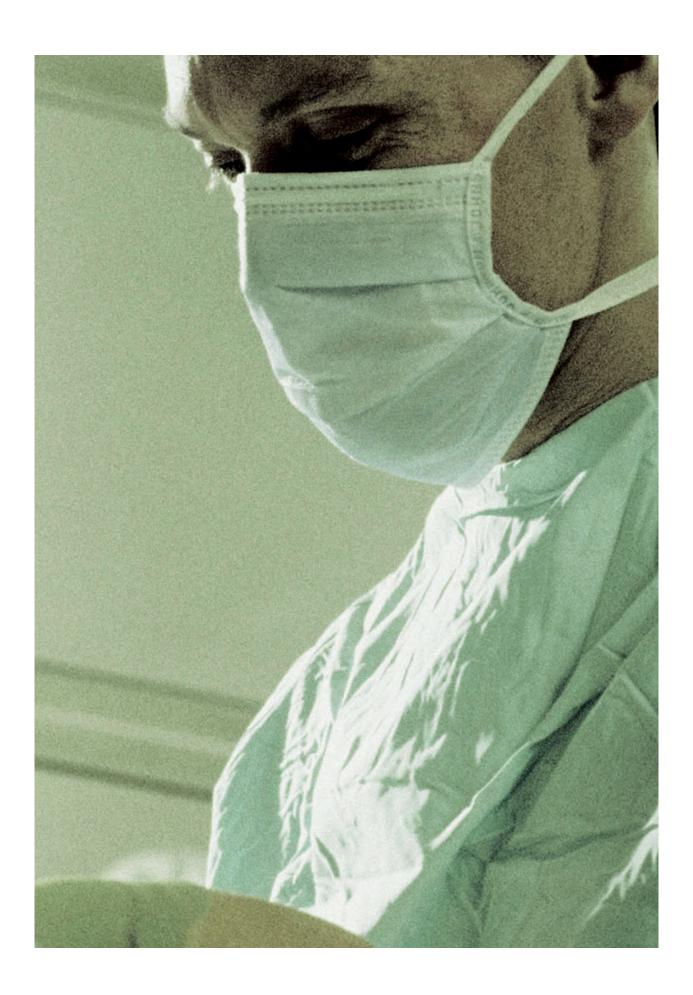
PATIENT CENTERED VENTILATION

From the first Blease/Manley ventilator sixty years ago, Spacelabs Healthcare has built a heritage of innovative and intuitive products. Our ventilators are developed in partnership with our customers to address real-life clinical needs.

Key elements of our patient-centered anesthesia solution are;

PERFORMANCE CHOICE VENTILATION

Spacelabs Healthcare - Connecting Innovation with Care.





Performance

KEY FEATURES

Touchscreen technology

Active proportional exhalation valve

Rapid leak and compliance testing

Minimal maintenance

Just as no patient or surgical procedure is identical, neither are the clinicians that attend to them. Performance therefore is more than just technical capability.

It is the ability of the ventilator to adapt to its users and their patients. Ease of use, consistency, familiarity and overall speed and safety of pre-use testing are all elements of performance, as they determine how clinicians will respond to, learn, test and train others on a ventilator.

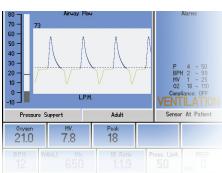
Minimal layer menus and multiple methods of navigation (Touch and Trak TM) provide quick interaction allowing maximum focus on the patient. Gliding through the options and advanced ventilation modes, it is easy to understand why many clinicians choose Spacelabs Healthcare.

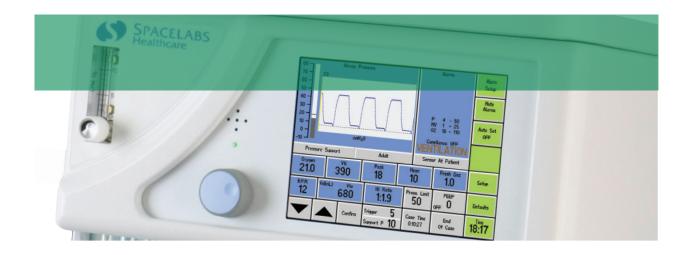
Performance is also in the capability and precision by which the ventilator matches the clinical settings with delivery to the patient. Active proportional flow valves provide precise ventilation delivery regardless of mode.

Safety determines performance. Clear and concise grouping of controls, one touch alarm access and settings reflect this. With an automated leak and

compliance test taking less than one minute, the Blease 900 delivers accurately even in an emergency.

Minimal spare parts and maintenance requirements further support the long term performance and reduction in cost of ownership of the ventilator.





Choice

choice for you.

KEY FEATURES

Three ventilator models

Choice of platform

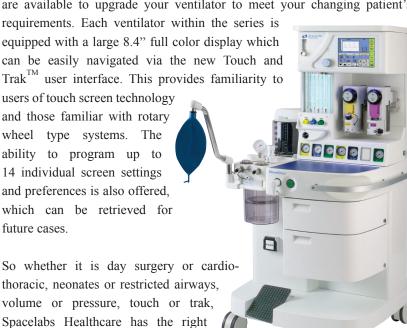
Choice of user interaction, touch or trak wheel

Upgrade path available

Choice is having options. Options and expertise allow informed decisions.

In the Blease900 series, configuration and interactions are determined by you. Three ventilator models designed to grow with your practice, providing precision and expansion capabilities, cost effectively. Your initial choice of ventilator configuration doesn't have to be final. The Blease900 series integrates smoothly with the robust BleaseFocus or innovative BleaseSirius platforms.

A range of ventilation modes, waveform displays and spirometery loops are available to upgrade your ventilator to meet your changing patient's





Ventilation

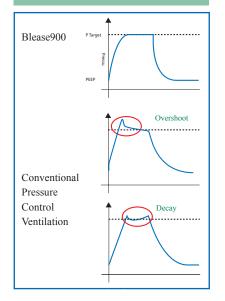
KEY FEATURES

Precision Pressure ControlTM

Precise fresh gas compensation

Decelerating flow ability

Dynamic compliance compensation



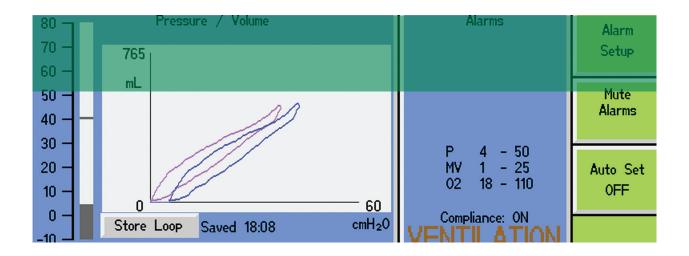
The Blease900 offers Volume Control, Precision Pressure ControlTM, SIMV with Pressure Support and Advanced Pressure SupportTM. Accurate control is maintained in all modes using not only dynamic compliance and fresh gas flow compensation but also through active control of the inspiratory and expiratory flow valves of the ventilator.

Measurement at the Patient Y-piece enhances delivery and allows for the display of pressure and flow volume loops. Spirometery loops present complex data in a graphical format for easier interpretation of ventilation effectiveness, in the presence of changes within the patient.

Introducing Precision Pressure Control VentilationTM (PPCVTM) Ventilating to a set pressure rather than a volume is not new to anesthesia, but its usage is increasing as more complex and diverse cases are being treated.

Current challenges with pressure control ventilation include potential overshoot of pressure that could result in patient injury, and lack of integrated volume monitoring to indicate changes in patient and ventilator status. Compliance changes in the patient, and an inability to track these changes through out the breath, can result in decay in the pressure if the ventilator lacks real time compliance measurement and variable flow capabilities. This could lead to insufficient volumes and inadequate gaseous exchange. Similar results may occur with ventilators with fixed flow rates where the patient's demand is higher than the flow during the inspiratory phase.

The Blease900 ventilator uniquely meets these challenges. During the entire inspiratory time, the Blease900 uses variable inspiratory flow, as well as an active proportional exhalation valve. Both valves working together to precisely control delivery and maintenance of the target pressure.



Introducing Advanced Pressure SupportTM (AdPSVTM)

The patient breathes comfortably, with the ventilator matching demand.

Comfort and success in pressure support is dependent on the patient-ventilator interaction, and requires the ventilator to closely match the patient's breathing cycle.

The Blease900 ventilator uniquely meets these challenges in both $PPCV^{TM}$ and $AdPSV^{TM}$.

During the entire inspiratory time, the Blease900 uses variable inspiratory flow, as well as an active proportional exhalation valve. Both valves work together to precisely control delivery and maintenance of the target pressure. Measuring patient ventilator dynamics at the patient and using this information during ventilation provides excellent sensitivity and responsiveness.

During Advanced Pressure SupportTM, flow and the end of inspiration are all determined by the patient rather than fixed time cycling. A visual marker displayed on screen also provides indication of patient effort.

Ventilation Monitoring

Ventilation, as with any therapy, needs to be monitored and adjusted according to individual patient response. Monitoring should take place as close to the target organ or system as possible to ensure accuracy. Monitoring should provide information on the effectiveness of therapy delivered and track resultant changes in the patient.

The Blease900 offers Pressure Volume and Flow Volume loops with the ability to store and review past loops for comparison during ventilation. Review of the spirometry loops can show changes in patient compliance, the presence of leaks, and clearly shows how your different ventilator settings can have an impact on your patient's ventilation.

KEY FEATURES

Advanced Pressure SupportTM

Adjustable flow trigger

Clear indicator of patient effort

View, save and review spirometry loops

Measurements and compensation at the patient.

Technical Specifications

Fresh gas compensation	Model		990	970	950	
Adult, pediatric & neonate	Fresh gas compensation		✓	√	✓	
Ventilation Mode ✓ ✓ ✓ Yolume control ✓ ✓ ✓ Pressure control ✓ ✓ ✓ SIMV + PSV ✓ ✓ ✓ Pressure support ✓ ✓ ✓ Wentilation Monitoring V ✓ ✓ Oxygen ✓ ✓ ✓ Inspired and expired volumes ✓ ✓ ✓ PAW ✓ ✓ ✓ PAW ✓ ✓ ✓ PEAW ✓ ✓ ✓ Pressure waveform ✓ ✓ ✓ Bettide towner 2.01-00 Ø <			√	√	✓	
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Ventilation Monitoring √	SIMV + PSV		✓	√	✓	
Oxygen ✓ ✓ ✓ Inspired and expired volumes ✓	Pressure support		✓	√		
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Apnea alarms in bag mode Sustained pressure Fresh gas too high	Power fail	В	attery low		Comms fail	
	Apnea alarms in bag mode	S	ustained pressure		Fresh gas too high	







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Spacelabs Healthcare Company Headquarters 5150 220th Ave. SE, Issaquah, WA 98029 PO Box 7018, Issaquah, WA 98027-7018

Telephone: 425-657-7200 In North America: 800-522-7025

Fax: 425-657-7212

Spacelabs Healthcare Limited Beech House, Chiltern Court, Asheridge Road, Chesham, Bucks HP5 2PX, England.

Telephone: +44 (0)1494 784422 Fax: +44 (0)1494 791497 advsales@spacelabs.com