



## Blease700 Ventilator

PATIENT CENTERED VENTILATION

Airway Pressure

80  
70  
60  
50  
40  
30  
20  
10  
0  
-10

20

cmH<sub>2</sub>O

Pressure Control

Adult

Alarms

P 4 - 18  
MV 1 - 25

Compliance: OFF

VENTILATION

Sensor At Patient

Alarm Setup

Mute Alarms

Auto Set OFF

RUN/STANDBY

Setup

Defaults

Time 12:46

|         |            |                |                 |             |
|---------|------------|----------------|-----------------|-------------|
| Mean 6  | MV 5.9     | Peak 13        | Fresh Gas 1.0   | Oxygen 21.0 |
| BPM 12  | Vol(L) 490 | IE Ratio 1:2.0 | Pressure 15     | PEEP OFF 0  |
| Confirm |            |                | Case Time 15:42 | End Of Case |



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## PATIENT CENTERED VENTILATION

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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.

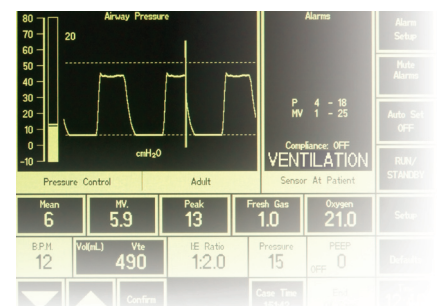
It is the ability of the ventilator to adapt to its users and their patients. Ease of use, consistency, familiarity and overall speed and safety of pre-use testing are all elements of performance, as they determine how clinicians will respond to, learn, test and train others on a ventilator.

Minimal layer menus and multiple methods of navigation (Touch and Trak™) 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 Blease700 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

### KEY FEATURES

Four ventilator models

Choice of platform

Choice of user interaction,  
touch or trak wheel

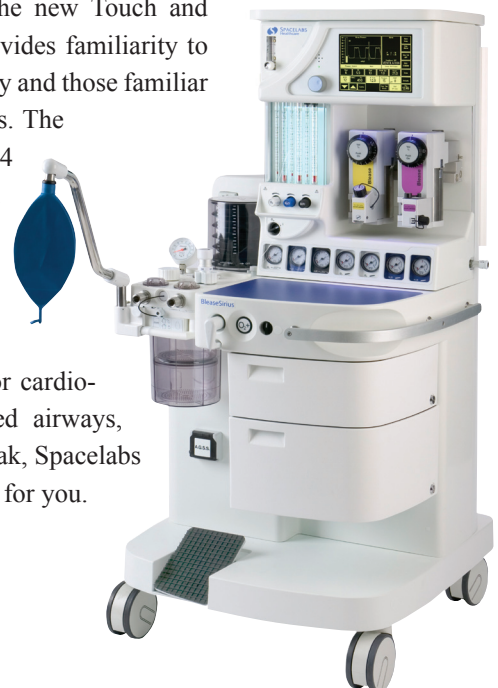
Upgrade path available

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

In the Blease700 configuration and interactions are determined by you. Four ventilator models designed to grow with your practice, provide precision and expansion capabilities, cost effectively. Your initial choice of ventilator configuration doesn't have to be final. The Blease700 integrates smoothly with the robust BleaseFocus or innovative BleaseSirius platforms.

A range of ventilation modes and waveform displays are available to upgrade your ventilator to meet your changing patient's requirements. Each ventilator within the series is equipped with a large 8.4" monochrome display which can be easily navigated via the new Touch and Trak™ user interface. This provides familiarity to users of touch screen technology and those familiar with rotary wheel type systems. The ability to programme up to 14 individual screen settings and preferences is also offered, which can be retrieved for future cases.

So whether it is day surgery or cardio-thoracic, neonates or restricted airways, volume or pressure, touch or trak, Spacelabs Healthcare has the right choice for you.





# Ventilation

## KEY FEATURES

Precision Pressure Control™

Precise fresh gas compensation

Decelerating flow ability

Dynamic compliance compensation

The Blease700 offers Volume Control, Precision Pressure Control™ and SIMV with Pressure Support.

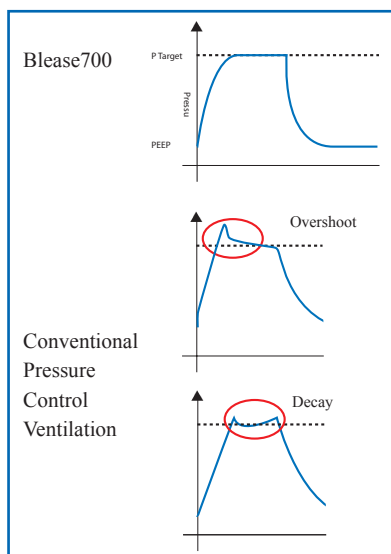
Accurate control is maintained in all modes using not only dynamic compliance and fresh gas flow compensation but also through active control of the inspiratory and expiratory flow valves of the ventilator.

### Introducing Precision Pressure Control Ventilation™ (PPCV™)

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 Blease700 ventilator uniquely meets these challenges. During the entire inspiratory time, the Blease700 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.



# Technical Specifications

| Model                                                   | 750                                                                                                                   | 730 | 720                                           |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------|
| Fresh gas compensation                                  | ✓                                                                                                                     | ✓   | ✓                                             |
| Compliance compensation (Option of pre-set or measured) | ✓                                                                                                                     | ✓   | ✓                                             |
| Adult, pediatric & neonate                              | ✓                                                                                                                     | ✓   | ✓                                             |
| Ventilation Mode                                        |                                                                                                                       |     |                                               |
| Volume control                                          | ✓                                                                                                                     | ✓   | ✓                                             |
| Pressure control                                        | ✓                                                                                                                     |     |                                               |
| SIMV + PSV                                              | ✓                                                                                                                     | ✓   |                                               |
| Ventilation Monitoring                                  |                                                                                                                       |     |                                               |
| Oxygen                                                  | ✓                                                                                                                     | ✓   | ✓                                             |
| Inspired and expired volumes                            | ✓                                                                                                                     | ✓   | ✓                                             |
| PAW                                                     | ✓                                                                                                                     | ✓   | ✓                                             |
| Pressure waveform                                       | ✓                                                                                                                     | ✓   | ✓                                             |
| Flow waveform                                           | ✓                                                                                                                     |     |                                               |
| Parameters                                              |                                                                                                                       |     |                                               |
| I:E ratio                                               | 2.0:1 - 1:5                                                                                                           |     |                                               |
| Frequency                                               | 2 - 99 bpm                                                                                                            |     |                                               |
| Set tidal volume                                        | 20 - 1500 ml                                                                                                          |     |                                               |
| Minute volume                                           | 0.3 - 25 lpm                                                                                                          |     |                                               |
| Pressure limit                                          | adult: 10 - 70 cmH <sub>2</sub> O                                                                                     |     | neonate/pediatric: 10 - 50 cmH <sub>2</sub> O |
| PEEP                                                    | 3 - 20 cmH <sub>2</sub> O                                                                                             |     |                                               |
| Inspiratory pause                                       | 0 - 50%                                                                                                               |     |                                               |
| Sigh function                                           | The delivered tidal volume is increased by 10% every 10 breaths                                                       |     |                                               |
| Patient trigger                                         | 1 - 15 lpm                                                                                                            |     |                                               |
| Pressure inspired                                       | 10 - 50 cmH <sub>2</sub> O                                                                                            |     |                                               |
| Max Inspiratory flow                                    | 100 lpm                                                                                                               |     |                                               |
| Support pressure                                        | 5 - 30 cmH <sub>2</sub> O                                                                                             |     |                                               |
| User set alarms                                         |                                                                                                                       |     |                                               |
| Pressure high                                           | 10 - 70 cmH <sub>2</sub> O (equal to pressure limit in volume control or pressure inspired + 25% in pressure control) |     |                                               |
| Pressure low                                            | 5 - 50 cmH <sub>2</sub> O                                                                                             |     |                                               |
| MV high                                                 | 1 - 25 lpm                                                                                                            |     |                                               |
| MV low                                                  | 0 - 24 lpm                                                                                                            |     |                                               |
| High bpm                                                | 3 - 99 bpm                                                                                                            |     |                                               |
| Low bpm                                                 | 0 - 98 bpm                                                                                                            |     |                                               |
| High oxygen                                             | 9 - 110%                                                                                                              |     |                                               |
| Low oxygen                                              | 8 - 109%                                                                                                              |     |                                               |
| Static alarms                                           |                                                                                                                       |     |                                               |
| Apnea                                                   | Comms fail Fresh gas too high                                                                                         |     |                                               |
| Setting error                                           | Vent inoperative Under pressure                                                                                       |     |                                               |
| Low supply gas pressure                                 | Peep error Sensor error                                                                                               |     |                                               |
| Inspiratory flow transducer error                       | Power fail Battery low                                                                                                |     |                                               |
| No charge                                               | Apnea alarms in bag mode Sustained pressure                                                                           |     |                                               |

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