



**Laerdal**  
helping save lives



**INGMAR MEDICAL**  
Respiratory Simulation Specialists



# ASL 5000™ Lung Solution

Helping you teach ventilation management  
— from basic to advanced

ASL 5000 Lung Solution is a breathing simulator intended for high-fidelity ventilation management training in respiratory care, critical care, pulmonology, anesthesia, and emergency medicine. It can simulate any respiratory condition you may encounter, on any ventilator in any mode of ventilation.

This solution enables you to integrate advanced ventilation management training with Laerdal's SimMan simulators, Nursing Anne Simulator, and SimBaby, all controlled with the LLEAP software. ASL 5000 can also be used as a task trainer for ventilator operation, waveform analysis, and equipment onboarding.



# ASL 5000 Lung Adapter and Solution

## Specifications:

- The ASL 5000™ Lung Solution developed in collaboration with Laerdal, allows you to integrate the world's most realistic breathing simulator; the ASL 5000™, with SimMan simulators, Nursing Anne Simulator; and SimBaby. Use any of these products to conduct basic to advanced ventilation management training in anesthesia, critical care, emergency medicine, pulmonology, and respiratory care.
- Ventilator-grade spontaneous breathing (passive to 100 bpm) with Muscle Pressure:
  - SimMan/Nursing Anne Simulator: 0 to -100 cmH2O
  - SimBaby: 0 to -30 cmH2O
- Compliance
  - SimMan/Nursing Anne Simulator: 0.5 to 250 mL/cmH2O
  - SimBaby: 0.5 to 15 mL/cmH2O
- Resistance
  - SimMan/Nursing Anne Simulator: 8 to 150 cmH2O/L/s
  - SimBaby: 23 to 250 cmH2O/L/s
- Tidal Volume 2.5 L
- Bi-lateral and uni-lateral chest rise synchronized with breath rate and depth of respiration – SimMan and SimBaby
- Bi-lateral chest rise synchronized with breath rate - Nursing Anne Simulator
- Connect to any ventilator – just as you would a real patient
- Use with any mode of ventilation including Pressure/Volume Control, Pressure Support, Jet Ventilation, APRV, PAV, HFOV, NIV, SIMV
- Holds PEEP from 0 to > 20 cmH2O
- Easily activate pre-programmed respiratory conditions with variable levels of severity including Normal, Asthma, ARDS, Interstitial Lung Disease (ILD), COPD, respiratory syncytial virus (RSV), and broncho-pulmonary dysplasia (BPD)
- Lung parameters can be changed during scenario remotely, which have an immediate impact on the ventilator
- Set independent inspiratory and expiratory resistances
- Fully integrated with LLEAP interface (version 6.3 or higher for SimMan and version 6.7 or higher for SimBaby and version 7.0.1 for Nursing Anne Simulator) to provide learners with additional patient information such as blood pressure, heart rate, SpO2, etCO2, respiratory rate, lung sounds and more
- Simulate scenarios with a spontaneously breathing patient supported on a ventilator: View ASL 5000-created patient-ventilator interactions
- Adjustable (I:E) ratio. Inspiratory Time from 0 to 20 seconds and Expiratory Time from 0 to 20 seconds
- Real-time display of waveforms and graphics
- Create and save an unlimited number of user-defined respiratory conditions including pneumothorax, bronchospasm, pneumonia, cough, cystic fibrosis, flash pulmonary edema, and more. View a larger scope of training applications
- Simulate scenarios where patient conditions change over time

## Ordering Information

### 420-11900 ASL 5000 Lung Solution

*Includes ASL 5000 Breathing Simulator and LLEAP Software Plug-in.*

### 420-11990 ASL 5000 Lung Adapter for SimMan

*Includes physical adapter and connecting tubing between ASL 5000 Breathing Simulator and compatible SimMan Simulator*

### 420-11980 ASL 5000 Nursing Anne Simulator Tube

*Includes connecting tubing between ASL 5000 Breathing Simulator and compatible Nursing Anne Simulator*

### 420-11970 ASL 5000 SimBaby Tube

*Includes connecting tubing between ASL 5000 Breathing Simulator and compatible SimBaby simulator*

## Technical Services

### 420-89050 ASL 5000 Lung Solution Installation

### 420-88050 ASL 5000 Lung Adapter Installation

## Educational Services

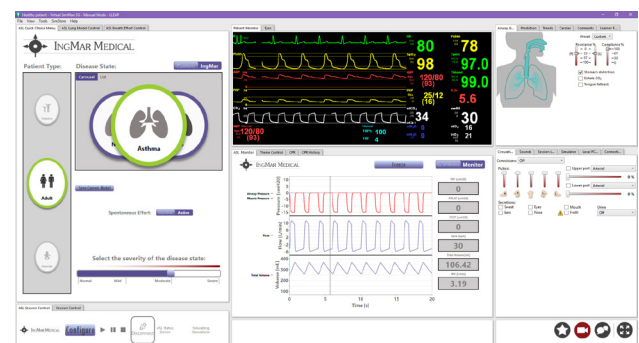
To help you quickly master the power of the ASL 5000 Lung Solution or to refresh your skills, we offer Live Distance Training tailored to your needs specific to your simulator. The interactive, online training is conducted via a 2 hour Zoom session by one of IngMar Medical's Clinical Educators.

420-EDVT025SM ASL 5000 SimMan Virtual (up to 8 people)

420-EDVT025SB ASL 5000 SimBaby Virtual (up to 8 people)

420-EDVT025NAS ASL 5000 Nursing Anne Simulator Virtual (up to 8 people)

Compatible with SimMan 3G PLUS, SimMan 3G, SimMan 3G Trauma, SimMan Essential, SimMan Essential Bleeding, SimMan ALS, SimMan ALS LiveShock, Nursing Anne Simulator, and SimBaby.



The IngMar software plug-in seamlessly integrates into LLEAP, the Laerdal Learning Application, enhancing the familiar software with real-time ventilation waveforms. Manage the ASL 5000 with SimMan, Nursing Anne Simulator, or SimBaby at the same time from one screen.



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