

Ventilator for Intensive Care

LUFT3 AP

LUFT

- | Suitable for pediatric and adult patients.
- | User interface customized setup.
- | Ventilation calculation and monitoring according to the theoretical weight of the patient.
- | High flow oxygen therapy.
- | Mechanical ventilation module with stress index.
- | Automatic leak compensation.
- | 6-hour battery life.
- | Low maintenance cost.

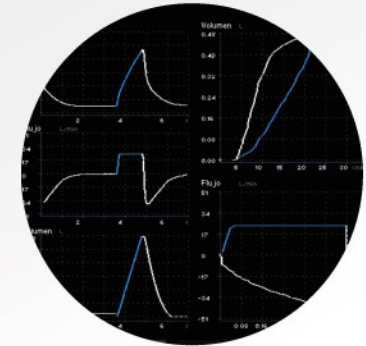


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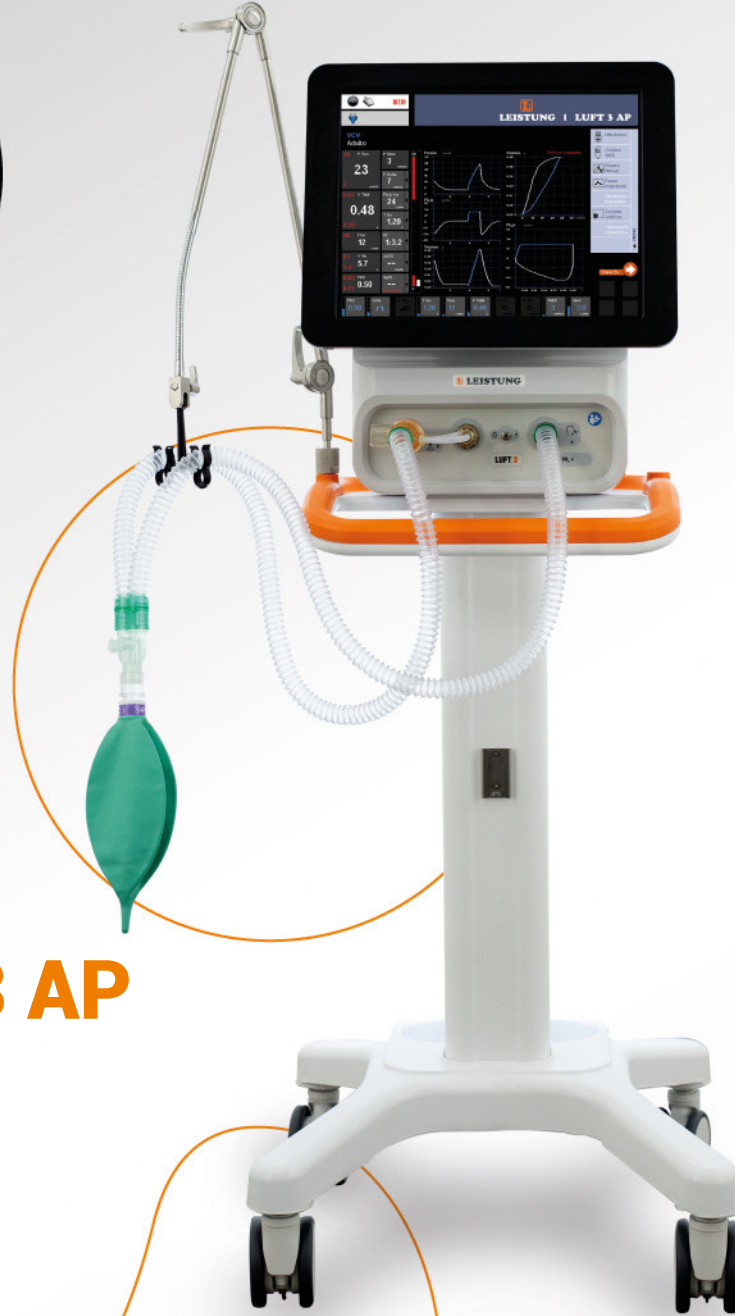




Pulmonary Mechanics



Simultaneous display of up to 5 charts



Stress Index

LUFT3 AP



Breathing air compressor (optional)

Monitoring of Ventilation Level



Technical SPECIFICATIONS

VENTILATION MODES FOR ADULT AND PEDIATRIC PATIENTS

- Assisted/Controlled VCV
- Assisted/Controlled PCV
- PSV / CPAP
- PRVC
- SIMV (VCV) + PSV
- SIMV (PCV) + PSV
- MMV +PSV
- Two-phase pressure (APRV+PSV)
- VNI
- High flow oxygen therapy
- Backup ventilation (VCV)
- Backup ventilation (PCV)

PROGRAMMABLE SETTINGS

- FiO₂: 0.21 to 1.00
- Waveform: Continuous / 100% Deceleration
50% Deceleration / Sinusoidal / Accelerated
- Rise Time: 6 levels
- Inspiratory Time: 0.20 s to 3 s
(up to 25 s for two-phase pressure mode)
- Frequency: 1c/min to 150c/min
- Tidal Volume: 50L to 2500mL
- Minute Volume: 0.05L to 25L
- Pressure Control: 2cmH₂O to 80 cmH₂O
- Pressure support: 2cmH₂O to 80 cmH₂O
- PEEP: 0cmH₂O to 50cmH₂O
- Inspiratory pressure trigger sensitivity:
-0.5cmH₂O to -10cmH₂O
- Inspiratory flow trigger sensitivity:
-0.5L/min to -10L/min

OTHER PROGRAMMABLE SETTINGS:

Maximum Inspiratory Time / Maximum Pressure Control / Upper Time / Lower Time
Upper Pressure Level / Lower Pressure level
Continuous Flow

PROGRAMMABLE ALARMS

- Maximum Pressure: 3 to 120 cmH₂O
- Minimum Pressure: 3 to 120 cmH₂O
- Maximum expiratory volume: 0.0L a 2.50L
- Minimum expiratory volume: 0.0L a 2.50L
- Maximum Frequency: 3c/min to 150c/min
- Maximum Minute Volume: 0.0L to 2.50L
- Minimum Minute Volume: 0.0L to 2.50L
- Maximum FiO₂: 0.21 to 1.00
- Minimum FiO₂: 0.21 to 1.00
- Apnea: 5s to 60 s
- PEEP: +/- 2cmH₂O to ± 10cmH₂O

AUTOMATIC ALARMS

- Cycle interrupted
- Patient disconnected
- Inversion of I:E ratio
- Electrical failure
- Low battery
- Low gas pressure (air /oxygen)
- Microcontroller malfunction (technical malfunction)

MONITORABLE SETTINGS

- Peak Pressure
- Plateau Pressure
- Average Pressure
- Base Pressure (PEEP)
- Inspiratory Time
- Expiratory Time
- Inspiratory pause
- Frequency
- Expiratory time constant
- I:E ratio
- Ti/Ttot ratio
- Peak Inspiratory Flow
- Peak Expiratory Flow
- Tidal Expiratory Volume
- Minute Volume
- Dynamic Compliance
- FIO₂

SHORTCUTS

- Nebulizer: 1 min to 20 min
- Oxygen 100%: 1 minute to 20 minutes
(with alarm silencing for 30 seconds)
- Manual trigger
- Inspiratory pause: 0.1 s to 5 s
- Expiratory pause: 0.1s a 30s
- Expiratory sensitivity: 5% to 80%
- Freeze graphics

LUNG MECHANICS

- Auto-PEEP
- Dynamic Compliance
- Static Compliance
- Inspiratory Resistance
- Expiratory Resistance
- Low Flow PV Loop
- Slow Vital Capacity
- P_{0.1}
- Rapid Shallow Breathing Index
- Stress Index

OPTIONAL

- Breathing air compressor.

CUSTOM GRAPHICS SELECTION (FROM 1 TO 5 SIMULTANEOUS GRAPHICS)

- Pressure / Time
- Flow / Time
- Volume / Time
- Volume / Pressure
- Flow / Volume
- Pressure / Flow

DIMENSIONS

- Height: 55.11 in (140 cm)
- Width: 16.14 in (41 cm)
- Depth: 10.63 in (27 cm)
- Weight: 59.52 lb (27 kg)

OTHER SPECIAL FEATURES

- 17" Touch Screen
- Easy touch screen calibration
- Ability to lock the touch screen
- Software updates without the need to open the ventilator
- Gas measurements with BTPS corrections
- Programmable nebulization time with automatic drive flow compensation
- Patient interface adaptation or modification of circuit with recalibrations, without turning off the device and keeping the patient's records.

SECURITY SYSTEM FEATURES

- Internal battery with 6 hours of run time when fully charged (default setting without accessories)
- Automatic gas compensation
- Automatic opening of pressure relief valve
- Automatic notification of need for maintenance due to hours of use without ventilation blockage
- High flow oxygen therapy
- Ability to operate without expiratory flow sensor

FEATURES ACCESSIBLE FROM THE MENU

- Alarm history
- Trends
- TGI
- Sighs
- Language (English, Portuguese, and Spanish)
- Automatic Altitude Compensation
- Date and Time
- Alarm Volume Level

HOME SCREEN

- Patient category (Adult, Pediatric)
- Gender and height
- Automatic theoretical weight calculation
- Desired ventilation level in mL/kg
- Type of artificial air ventilation
- Type of humidification

INITIAL AUTOMATIC TESTS

- Verification of usage hours
- Resetting of flow sensors
- Measurement of circuit leakage
- Measurement of circuit compliance
- Calibration of expiration flow sensor
- Calibration of oxygen cell
- Calibration of air flow sensor
- Proportional oxygen valve test
- Proportional air valve test
- Proportional PEEP control valve test



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