

LUFT3

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LEISTUNG

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Lung Ventilator for ICU Neonatal, Pediatric & Adult

Our commitment to life

Leistung is more than a manufacturer of lung ventilators for ICU and Emergency. Leistung's lung ventilators, besides being products of technological excellence and performance, they also carry the values of all the professionals involved in the process, from its conception to its commercialization, who are aware about the importance of a life-supporting device.

Therefore, we are proud to say that, while we are an industry, our essence lies in the trust that professionals and patients place in us. It is our commitment to life that makes us go further!







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LUFT3

TECNOLOGY allied to QUALITY OF LIFE.









LUFT3 Lung Ventilator for ICU

Adult | Pediatric | Neonatal

The lung ventilator for Intense Care Units (ICU) LUFT3, counts with integrated 17" touch screen technology and offers a complete range of ventilation modes which allows the monitoring of the patient's condition.

VENTILATION MODES

ADULT/PEDIATRIC

- VCV assisted/controlled
- PCV assisted/controlled
- PSV/CPAP
- PRVC assisted/controlled
- SIMV (VCV) + PSV
- SIMV (PCV) + PSV
- MMV + PSV
- PSV + assured VT
- Biphasic pressure (APRV + PSV)
- NIV
- HFNC

NEONATAL

- VCV assisted/controlled
- PCV assisted/controlled
- PSV/CPAP
- SIMV (PCV) + PSV
- Continuous flow assisted/controlled
- •Nasal CPAP
- HFNC

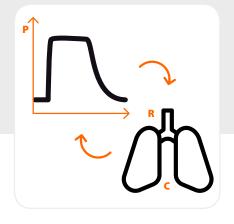
LUFT3 Lung Ventilator for ICU

FUNCTIONALITY AND PERFORMACE



STRESS INDEX

The stress index is performed with minimal interference in the ventilatory cycle and results in a numerical value of easy interpretation, promoting a practical, safe and effective analusis of the patient ventilation. It is a measure of respiratory the stress caused in the alveoli either by collapse or hyperdistension.



PRVC

It combines the best of convetional controlled ventilation modes of volume and pressure, providing the volume adjusted by the operator with as little pressure as possible.

The function uses free flow waveform formation, control with feedback of the compliance and resistance of the patient.



SPECIAL FEATURES

- •100 % oxygen up to 20 min. with automatic alarm silence;
- •Adaptation of the patient's interface or change of the circuit with recalibration without having to turn off the equipment and keeping track of the patient's log;
- •Automatic theoretical weight calculation and interface selection according to the patient;
- •Altitude compesation;
- •Configuration of the monitored variables;
- •Flow curve 50 % descending;
- Intuitive Interface;
- •Gas measurement with BTPS correction;
- •Smart ventilator, records the user preference after 10 uses.
- •LCD Screen tilt angle adjustment

•Log for 1000 alarms and events with date and time



ALARM battery life

Intuitive Interface with Adjusment of the MONITORED VARIABLES

Timed **NEBULIZER** with Inspiration flow and FiO₂ compensation

GRAPHICAL INTERFACE



INITIAL SCREEN SETUP

- •Patient selection
- Gender
- •Height
- Weight
- •Automatic theoretical weight calculation
- •Ventilation level per mL/kg
- •Type of artificial airway
- Type of humidification
- •Line test
- •Circuit compliance measurement
- Last patient function

OPERATIONAL VISUALIZATION

- Graphical pressure bar
- Indicator of spontaneous/controlled cycles
- Battery charge level
- Programation of the ventilatory variables

ADULT AND PEDIATRIC

Customizable selection of up to



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

SIMULTANEOUS GRAPHICS

NEONATAL

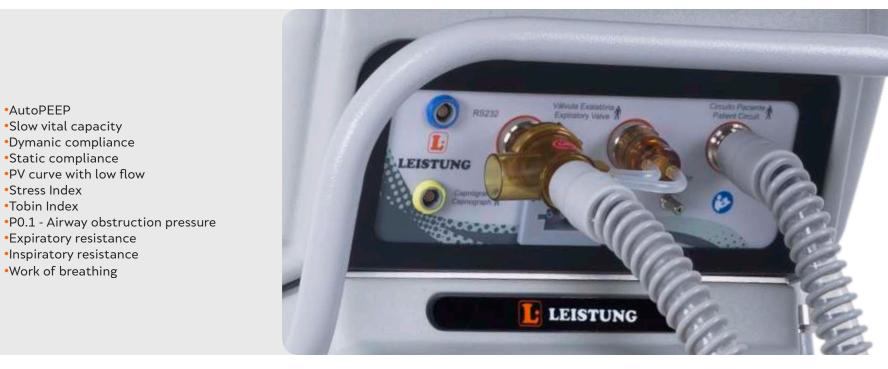
Customizable selection of up to

- **B** SIMULTANEOUS GRAPHICS
- Pressure/Time
 - Flow/Time
 - Volume/Time

LUFT3 Lung Ventilator for ICU

LUNG MECHANICS

•AutoPEEP



PARAMETERS

	CONTROLS
FiO ₂	21 to 100 %
Inspiratory time	0.1 to 30 s
I:E Ratio	5:1 - 1:99
Ventilator Frequency	1 - 180 r.p.m.
Tidal Volume	2.0 to 2500 mL
Minute Volume	0.01 to 25.0 L
Sensibility	By Flow: 0.2 to 15 L/min. By Pressure: -0.2 to -15.0 cmH ₂ O (PEEP compensated)
Controlled Pressure (PCV)	1 to 80 cmH ₂ O (over PEEP)
Support Pressure (PSV)	0 to 80 cmH ₂ O (over PEEP)
Inspiratory Pressure	-10 to 120 cmH,O
Rise Time	6 levels
Expiratory Sensibility	5 to 80 %
Apnea Time	5 to 60 s
PEEP/CPAP	0 to 50 cmH,O
Nebulization	1 to 20 min. synchronized with automatic compensation of the inspired volume and FiO
Inspiratory Flow	0 to 200 L/min.
Base Flow	Off up to 50 L/min.
Expiratory Flow	Up to 200 L/min.
Automatic Inspiratory Pause (VCV mode):	0.1 - 2.0 s with plateau pressure value
Manual Inspiratory and Expiratory Pause	Up to 30 s
O,100%	1 to 20 min.
Flow Waveform	Square/Descending 100 %/Descending 50 %/Sinusoidal/Ascending
Inspiratory Pressure Inner Safety Valve	Adjusted in 120 cmH ₂ O
Pressure Regulating Valve for Air and O ₂ Input	Built into the equipment
RS232 Signal Connector	For external communication with the software and signals input
USB Signal Connector	For equipment's service and sofware update
TGI	Synchronized with the exhalation phase
Sigh (VCV mode)	Cycles per hour, quantity, maximum tidal volume
Automatics Scales	Automatic for amplitude and adjustable per time
Graphics Freeze	With grid for easy interpretation of the values
Standby	Keep the ventilator in standby mode without changing the setup
Backup Ventilation	Available in all ventilatory modes
Altitude Compensation	0 to 6000 masl
Alarm Sound Level	20 to 100 %

PARAMETERS

MONITORIZATION		
Airway Pressure: Peak	0 to 120 cmH ₂ O	
Airway Pressure: Plateau	0 to 120 cmH ₂ O	
Airway Pressure: Mean	0 to 120 cmH ₂ O	
Airway Pressure: Base (PEEP)	0 to 50 cmH ₂ O	
Inspiratory Time	0 to 30 s	
Expiratory Time	0 to 30 s	
I:E Ratio	49:1 to 1:99	
Inspiratory Pause	0 to 30 s	
Inspired/Expired Tidal Volume (Distal and Proximal)	0 to 2.5 L	
Peak Inspiratory Flow (Distal and Proximal)	999 L/min.	
Peak Expiratory Flow (Distal and Proximal)	999 L/min.	
Dynamic Compliance	999 mL/cmH ₂ O	
Total and Spontaneous Frequency	250 r.p.m.	
Graphical Indicator of Spontaneuos and Mechanical Cycles	Symbols and graphs	
Minute Volume (Distal and Proximal) total and spontaneous	0 to 25 L/min.	
FiO ₂ Concentration	21 to 100%	
Constant of inspiratory and expiratory time	9.99 s	
Compressible Volume	399 mL	
Ti/Ttot Ratio	0.98	
Total Leakage	50 L/min.	
Ventilation Level (mL/kg)	99.0 mL/kg	
Battery Charge Level	0 to 100%	
Patient Circuit's Compliance	4.0 mL/cmH ₂ O	

GENERAL

SPECIAL CHARACTERISTICS

Current time and date

Time and date when the equipment was turned on

Touch screen function lock

Graphical indicator of external power supply and battery

Proportional indicator of battery charge level

Indicator bar of the parameters adjustment range

Graphical bar of the ventilatory pressure with indicator of the alarms level

FiO₂ reading through Galvanic Cell or Pneumotachograph

Standby symbol

Alarms log symbol

Automatic compensation of the breathing circuit's compliance Internal, permanent and non-consumable sensor

PROGRAMMABLE ALARMS

Maximum pressureMinimum pressureMaximum tidal volumeMinimum tidal volumeMaximum minute volumeMinimum minute volumeMaximum frequencyMinimum frequencyFiO2PEEPApnea

COMPLEMENTARY MESSAGES

Without exhalation sensor

Without proximal sensor

Active oxygen cell

Estimated patient weight

AUTOMATIC ALARMS

Power failure

Interrupted cycle

Air/O₂ input pressure (low and high)

Low Battery (inoperative battery)

Microprocessor (inoperative ventilator)

Inverted I:E Ratio

Patient disconnection

Proximal sensor disconnection

PARAMETERS

GRAPHICAL TENDENCIES

Tidal Volume

Minute Volume

Frequency

Dynamic Compliance

Peak and Base Pressure

Flow

Graphical tendencies up to 72 hours with the aid of grids for analysis

NUMERICAL TENDENCIES

AutoPEEP

Dynamic compliance

Static compliance

Inspiratory resistance

Expiratory resistance

Stress Index

INTERNAL POWER SUPPLY

Nominal voltage	10.8 V ~ 11.1 V
Nominal capacity	13.2 Ah
Туре	Lithium Battery (Li+)
Battery	360 min. autonomy

PNEUMATIC INPUT

Oxygen	DISS 9/16" – 18 Input
Air	DISS 3/4" – 16 Input
Pressure	250 – 700 kPa (2.5 - 7 bar)
Maximum Flow Consumption	Up to 180 L/min.

PHYSICAL CHARACTERISTICS

Height	1473 mm
Width	550 mm
Depth	530 mm
Equipment's Weight	28.0 kg
Case's Weight	10.0 kg
Monitor's Weight	5.4 kg
Trolley's Weight	12.6 kg
Touch Screen	17 inches
LCD LED Monitor	With angulation adjustment
Trolley	Anticorrosive plastic material
Castors	4, being 2 with brakes

POWER SUPPLY

Voltage - Current	100 V – 240 V ~ 0.6 A – 0.29 A
Frequency	47 to 63 Hz
Commutation to Battery	Voltages Lower than 90 Vac.

GENERALITIES

Medical Product Classification	Class III
Operation Mode	Continuous Operation
Classification Against Electric Shock (Isolation)	Class I - Internally Energized Equipment
Classification of Protection Against Electric Shock	Туре В
Protection Level Against Nocive Penetration of Water	IP22



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