Technology to save lives

LUFT5

High Performance
ICU Lung Ventilator

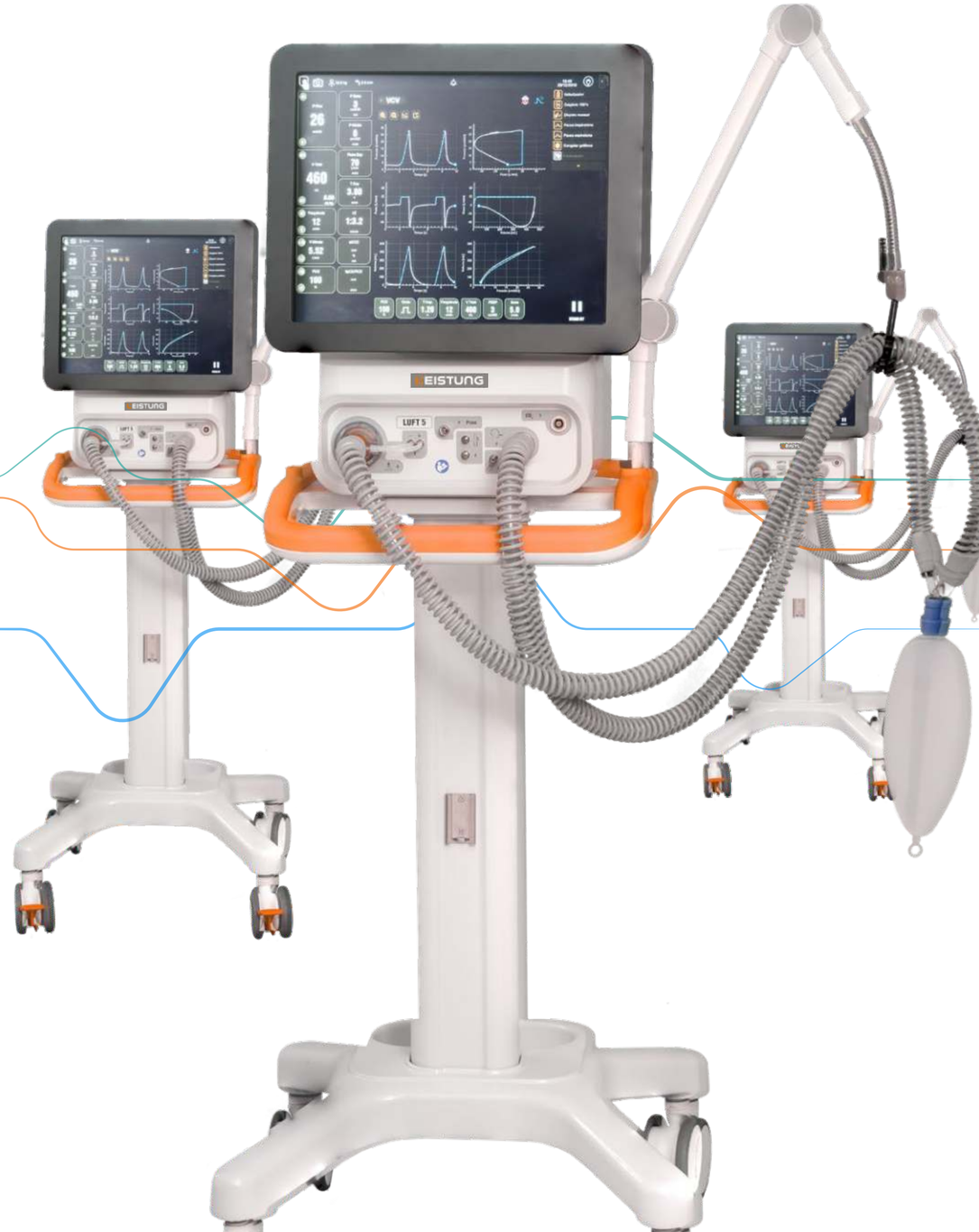
Adult | Pediatric | Neonatal

LEISTUNG

Essential in ICUs
Indispensable for your personnel

The LUFT5 is a modern and intelligent lung ventilator specially manufactured for Intensive Care Unit (ICU) and facilitate the lives of health professionals.

The equipment has conventional and advanced ventilatory modes in addition to the lung mechanics, which provides extra safety for patients and profissionals



Quality excellence, easy to use.

Reliable resources.
Efficient features.

Volume alarm ajdustment

6 hours battery

Dynamic graph analysis with freeze function
zoom, cursors and point values

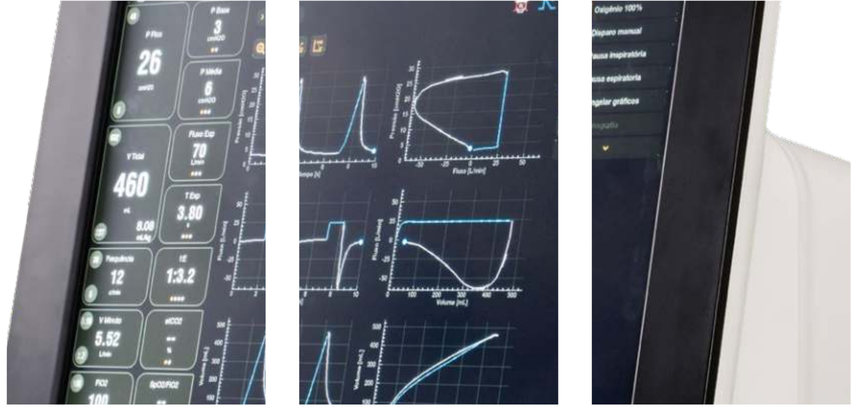
USB data extraction

Intuitive interface with variable monitoring
configuration

Adult, pediatric and neonatal patients

Nebulizer with inspiratory flow and FIO2 compensantion.

Rise time with 6 levels

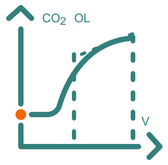


Better performance and maximum comfort during treatment

17 ”LED LCD
Capacitive touch screen

Intuitive interface

Agile and dynamic operation



Volumetric capnography

It’s a non-invasive lung mechanic, used to analyze the CO_2 volume exhalation . Monitors the oscillation in the pulmonary ventilation distribution that may arise from the respiratory system functional and structural changes.

Stress index

The stress index is performed with minimum interference to the ventilatory cycle and results in a numerical code that is easy to interpret. Promoting a practical, safe and effective analysis of the patient ventilation. It is a useful measure of the lung mechanics to estimate the stress caused in the alveoli, either by collapse or hyperdistension.

PRVC

This is a dual control ventilation mode, associated with the best assisted/controlled volume and pressure ventilation mode, providing the volume adjusted by the operator with the lowest inspiratory pressure possible. The flow waveform is free.

Special configurations to accurately monitor and treat safely

Smart Ventilator that memorizes the ventilatory settings and parameters of the last 10 uses.

100% oxygen up to 20 minutes, with silence automatic alarm

Dual independent processing for patient safety.

Automatic altitude compensation

- Adequacy of the patient interface or circuit change with recalibration without the need to turn off the equipament and maintain patient history.
- Automatic calculation of expected weight and selection of interface according to the patient.
- Internal barometric sensor for automatic altitude compensation up to 6000 meters above sea level.
- Configuration of monitored variables.
- Wave flow 50% descending.
- Gas measurement with BTPS corrections.
- Safety and comfort in dual control ventilation modes, for assisted and controlled ventilation.
- Complete analysis of the Lung mechanics with comprehensive, fast and accurate resources.
- Auxiliary pressure input for pressure measurement, allowing greater monitoring.

Dynamic user interface with intuitive operation.

Adult / Pediatric

Customizable selection of up to

6 SIMULTANEOUS GRAPHICS

- Pressure / time
- Flow / time
- Volume / time
- Volume / pressure
- Flow / volume
- Pressure / flow
- Paux Time
- $ETCO_2$ / time
- $ETCO_2$ / volume

Neonatal

Customizable selection of up to

6 SIMULTANEOUS GRAPHICS

- Pressure / time
- Flow / time
- Volume / time
- Volume / pressure
- Flow / volume
- Pressure / flow
- Paux Time
- $ETCO_2$ / time
- $ETCO_2$ / volume

Operational view

- Stopwatch for activated maneuvers
- Spontaneous / controlled cycle indicator
- Battery charge level
- Programming of ventilatory variables

Initial setup screen

- Patient selection
- Gender
- Height
- Automatic calculation of predicted weight
- Ventilation level per mL / kg
- Type of artificial airway
- Humidification type
- Line Test
- Measurement of circuit compliance
- Last patient function

Advanced complete ventilatory system for the diagnosis and treatment of the patient.

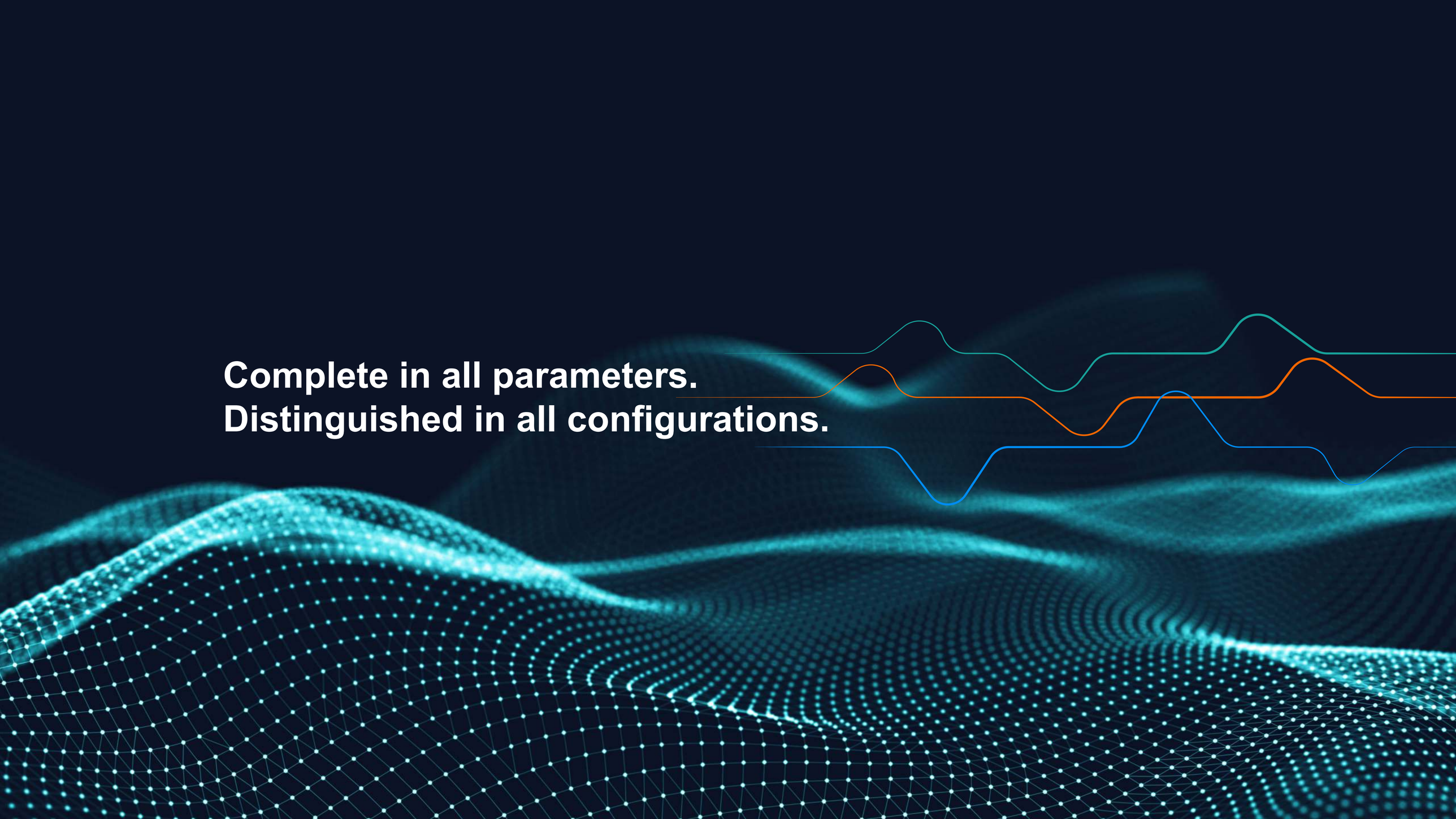
Ventilatory Modes

Adult / Pediatric

- VC Assisted / controlled
- PC Assisted / controlled
- PRVC Assisted / controlled
- PS/CPAP
- SIMV (VC) + PS
- SIMV (PC) + PS
- SIMV (PRVC) + PS
- MMV + PS
- PS + VT assured
- VS - Support Volume
- Biphasic (APRV + PS)
- NIV (non invasive)
- High flow oxygen therapy

Neonatal

- VC assisted / controlled
- PC Assisted / controlled
- PS/CPAP
- SIMV (PC) + PS
- TCPL assisted/controlled
- Nasal CPAP
- High flow oxygen therapy
- VG - Assured Volume


Complete in all parameters.
Distinguished in all configurations.

Parameters

Alarms	
ALARM **HIGH** PRIORITY	Low O_2 inlet pressure
	Low air inlet pressure
	Low battery
	Maximum inspiratory pressure
	Patient disconnection
	Minimum inspiratory pressure
ALARM **MEDIUM** PRIORITY	Minimum FiO_2
	Maximum FiO_2
	Minimum tidal volume
	Maximum tidal volume
	Minimum inspiratory frequency
	Maximum inspiratory frequency
	Loss of PEEP
	Maximum inspired CO_2
	Maximum $etCO_2$
	Minimum $etCO_2$
ALARM **LOW** PRIORITY	Minimum minute volume
	Maximum minute volume
	Incorrect CO2 measurement
	Technical failure of the CO2 sensor

Lung Mechanics
AutoPEEP
Dynamic compliance
Static compliance
Expiratory resistance
Inspiratory resistance
Slow vital capacity
P0.1 (airway pressure occlusion
Low flow P-V curve
Tobin Index (RSBI)
Work of breathing - WOB
Stress index
Auxiliary pressure
PI max.
Leakage percentage
Time constant
Elastance
Automatic inspiratory pause

Special features
Hour and date
Time and date of connected equipment
Touch screen lock
Graphic indicator of external source and battery
Battery charge level indicator
Parameter setting range indicator bars
Charts with automatic scaling
FiO2 reading by permanent sensor
Stand-by symbol
Symbol for alarm history
Tilt adjustment of the LCD screen
Log of 1,000 alarms and events with date and time
Cursors in the charts with measurement of points and differentials
Tube compensation

Parameters

Configurable Parameters

Parameters		Specification	Unity
FiO_2		21 to 100	%
Inspiratory Time		0.1 to 30	seconds
I:E Ratio		5:1 to 1:99	-
Ventilatory frequency		1 to 150	c/min
Monitorable ventilatory frequency		1 to 250	c/min
Tidal volume		5 to 2.500 (by volume) 2 to 4.000 (by pressure)	ml
Sensibility	Expiratory	80 to 5	% inspiratory peak flow
	Inspiratory (pressure)	-0.1 to -15	cmH_20
	Inspiratory (flow)	0.1 to 15	L/min
Controlled pressure - PCV		1 to 95	cmH_20 over PEEP (rise time regulated)
Support pressure - PSV		0 to 80	
Inspiratory pressure		-50 to 120	cmH20
Rise time		6 levels	
PEEP/CPAP		0 to 50	cmH_20
Auxiliary pressure		-70 to 70	cmH_20
Inspiratory Flow	VCV	up until 250 L/min	
	PCV e PSV	up until 250 L/min	
	Neonatal continuous flow	2 to 15 L/min	
	Neonatal inspiratory flow	1 to 100 L/min	
Expiratory flow		up until 200 L/min	
Backup ventilation		PC or VC Adult - Pediatric | Neonatal PC	
Nebulizer		Synchronized with the inspiratory phase	
TGI		Synchronized with the expiratory phase	
Apnea		5 to 60 seconds	
Maximum inspiratory time		0,2 to 3 seconds	
Pause Insp. or exp. manual		0,1 to 30 seconds	
O2 Therapy		0,2 to 80 L/min	
Automatic Inspiratory Pause		0,1 to 2.0 seconds	

Monitorable parameters

Airway pressure: peak, plateau, average, base (PEEP), auxiliary
Inspiratory time - Expiratory time
I: E - Ti / Ttot Ratio
Inhaled / exhaled tidal volume
Peak inspiratory flow - Peak expiratory flow
Dynamic / static compliance
Total / spontaneous frequency
Graphic indicator of spontaneous and controled cycles
Inhaled / Exhaled minute volume
Oxygen concentration (FiO2)
Inspiratory / expiratory time constant
Compressible volume
EtCO2, CO2 Inhaled
Ventilation level
Spontaneous minute volume
Elastance
Leakage
Inspiratory Resistance

Parameters

Initial Automatic Tests
Checking the control software version
Checking the software version of the interface
Checking the hours of use
Internal temperature check
Measurement of atmospheric pressure
Measurement of oxygen inlet pressure
Measurement of air inlet pressure
Calibration of the O2 and air flow sensor
Checking for system leaks (up to 4 L / min)
Measurement of system compliance
Calibration of the exhalation valve
Proportional oxygen valve test
Proportional air valve test
PEEP control valve test

Trend curve up to 72 hours
- Peak pressure
- Base pressure
- Inspiratory flow
- Minute volume
- Tidal volume
- Frequency
- Freq : Vol (RSBI)
- Complacency
- FIO_2
- Resistance Insp.
- $etCO_2$
P0,1

Oxygen Source Connection	
Connection	DISS male thread 9/16 inch
Pressure	250-700 kPa
Flow	Up to 160 L/min

Medical Air Source Connection	
Connection	DISS male thread 3/4 inch
Pressure	250-700 kPa
Flow	Up to 150 L/min

Internal power supply - Battery	
Switching to internal battery	Voltage less than 90 Vac
Model	Li battery + 15.6 Ah
Rated voltagel	10.8 V - 11.1 V
Capacity	15,6 Ah
Weight	0,8 Kg approx.
Operating autonomy with full charged battery	6 h
Lifespan	300 to 500 cycles

External power supply	
Voltage - current	100 - 240 V ~ 0,6 - 0,29 A
Frequency	50 - 60 Hz
Power	70 VA
External Fuse	2 x 2A/250V - Slow 5x20mm

Health is our **commitment.** Our **priority** is life

Leistung combines medical expertise, high technological excellence and maximum performance to equip hospitals, clinics and emergency rooms in Brazil and the world with efficient life support products for adult , pediatric and neonatal patients with respiratory failure, in a situation of urgency, emergency and therapy

With a presence in more than 50 countries and over three decades of stories dedicated to the development of medical equipment in the area of Mechanical Ventilation, for EMERGENCY, ICU and ANESTHESIA, Leistung seeks innovation to facilitate the life of the medical team and save lives through of the most modern and effective solutions in Mechanical Lung Ventilators.

LEISTUNG

Our purpose is to use technology to save lives.

Know our history!

leistungbrasil.com

Luft 5 High Performance ICU Lung Ventilator

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LEISTUNG

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To know our launches and follow our daily routine,
follow Leistung Brasil on social media.

MADE IN BRAZIL

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