



# PR5

Lung Ventilator for Transport and Emergency Care  
Neonatal, Pediatric and 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!



**LEISTUNG**

# PR5

Innovation associated with  
technology and convenience



# PR5

Lung Ventilator for Transport and Emergency

**Adult | Pediatric | Neonatal**

The lung ventilator PR5 is among the most complete lung ventilators in the market, providing all the necessary ventilatory modes for medical care in adult, pediatric and neonatal patients, besides offering a menu of lung mechanics for several diagnosis.

It offers high ventilatory quality adapted to each patient with quick and safe adjustments for every ventilatory parameter, delivering to the professional a pleasant work which allows more attention towards the patient.

## VENTILATORY MODES

### ADULT | PEDIATRIC

- VC assisted / controlled
- PC assisted / controlled
- PS/CPAP
- PRVC assisted / controlled
- SIMV(VC) + PS
- SIMV(PC) + PS
- Biphasic pressure (APRV)
- VNI
- HFNC

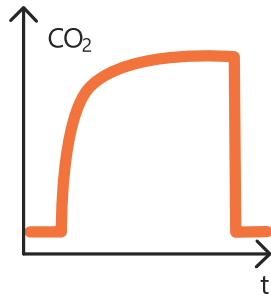
### NEONATAL

- PC assisted / controlled
- PS/CPAP
- CPAP Nasal
- HFNC
- TCPL

Backup ventilation is available in all ventilatory modes.

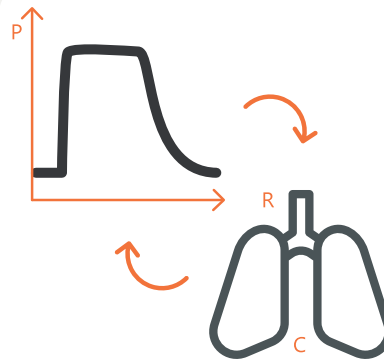


## FUNCTIONALITY AND PERFORMANCE



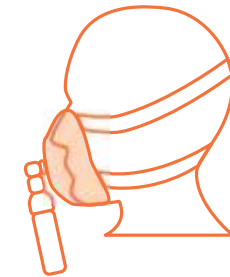
### CAPNOGRAPHY

It is a way to estimate in real time the values of CO<sub>2</sub>. These real values are presented numerically through the ETCO<sub>2</sub> and inspired CO<sub>2</sub> and through the CO<sub>2</sub> x Time graphic. This mechanism is given by Main Stream technology, which makes the ventilatory assistance safer by estimating the heterogeneity of the lung ventilation distribution resulting from functional and structural alterations of the respiratory system.



### PRVC

It associates the best of the conventional controlled modes of volume and pressure, delivering the volume adjusted by the operator with the lowest pressure possible. The function uses free flow waveform and control with the feedback of the patient's compliance and resistance.



### LEAK COMPENSATION

The PR5 constantly monitors the pressure drop on the airway. This technology, available in all the pressure ventilation modes, identifies the leak of air and automatically adjusts the airway pressure. It may compensate up to 20 l/min, making the NIV comfortable and safe.

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Lung Ventilator for Transport and Emergency

## SPECIAL FEATURES

- Neonatal Ventilation
- Patient Setup
- Lung Mechanics
- FIO2 40% to 100%
- Altitude Compensation
- Volume Adjustment
- Alarms Log
- Automatic rise time
- Non-invasive Ventilation
- Leak Compensation
- Proximal Flow Reading
- O2 100% Function
- Tendencies of 24h
- Inspiratory Sensibility: Pressure or Flow
- Battery for 15 hours
- Automatic Calculation of Theoretical Weight
- Intuitive Interface
- Customizable interface with Memory



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Lung Ventilator for Transport and Emergency



## APPLICATIONS

The PR5 is versatile and practical. In options with trolley or carrying bag, this portable lung ventilator may be used in several places. Perform procedures such as: capnography, PRVC, NIV, VC, PC, PS, and CPAP in adult, pediatric and neonatal patients.

**It is Leistung technology for your daily treatments.**

# 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
- Indicator of battery charge level
- Indicator bar of the parameters adjustment range
- Graphical bar of the ventilatory pressure with indicator of alarms level
- FIO<sub>2</sub> reading by galvanic cell or pneumotachograph
- Standby symbol
- Alarms log symbol

## COMPLEMENTARY MESSAGES

- Without proximal sensor
- Oxygen cell activated

## OTHER SAFETY CHARACTERISTICS OF THE VENTILATOR

- Warning of maintenance need per hours of use
- Possibility of operation without proximal flow sensor
- Possibility of operation without galvanic cell
- Leak compensation in all ventilatory modes (NIV)
- Leak compensation in all pressure ventilatory modes

## PROGRAMMABLE ALARMS

- Maximum pressure
- Minimum pressure
- Maximum tidal volume
- Minimum tidal volume
- Maximum minute volume
- Minimum minute volume
- Maximum frequency
- Minimum frequency
- FIO<sub>2</sub>
- PEEP
- Apnea

## AUTOMATIC ALARMS

- Power failure
- Interrupted cycle
- O<sub>2</sub> failure
- Low battery
- Microprocessor (Inoperative ventilator)
- Inverted I:E Ratio
- Patient disconnection
- Proximal sensor disconnection



# GENERAL

## MONITORING

Airway pressure: peak	0 to 120 cm H <sub>2</sub> O
Airway pressure: mean	0 to 120 cm H <sub>2</sub> O
Airway pressure: base (PEEP)	0 to 120 cm H <sub>2</sub> O
Inspiratory time	0,1 to 10s
Expiratory time	0,1 to 59s
I:E Ratio	49:1 to 1:99
Inspired/exhaled tidal volume (distal and proximal)	0 to 2,5 l
Peak inspiratory flow (distal and proximal)	140 l/min
Peak expiratory flow (distal and proximal)	120 l/min
Dynamic compliance	1 to 999 ml/cm H <sub>2</sub> O
Total frequency	1 to 250 rpm
Graphical indicator of spontaneous and mechanical cycles	Symbols and graphics
Minute volume (distal and proximal)	0 to 50 l/min.
TI/TTOT ratio	1 to 98,0%
Dynamic compliance	1 to 999 ml/cm H <sub>2</sub> O
Leakage	0 to 100%
Battery charge level	Proportional bar

# GRAPHICS

## LUNG MECHANICS

Auto PEEP

Compliance Resistance

## NUMERICAL TENDENCIES

Auto PEEP

Dynamic Compliance

Static Compliance

Inspiratory resistance

Expiratory resistance

## GRAPHICAL TENDENCIES

Tidal volume

Minute volume

Frequency

Compliance

Peak pressure

Inspiratory flows

EtCO<sub>2</sub>

*(Graphical tendencies up to 24 h with the aid of grids for analysis)*

## ADULT / PEDIATRIC (UP TO 5 SIMULTANEOUS CURVES)

Pressure – time

Flow – time

Volume – time

Volume loop - pressure

Flow loop - volume

Pressure loop - flow

CO<sub>2</sub> loop - volume (optional)

# PARAMETERS

## CONTROLS

FiO <sub>2</sub>	40 to 100%
Inspiratory time	0.20 to 10.0
I:E Ratio	5:1 - 1:99
Ventilatory frequency	1 - 150 rpm
Tidal volume	By volume: 10 ml to 2500 ml   By pressure: 2 ml to 4000 ml
Sensibility	By flow: 0.5 to 10 l/min   By pressure: -0.5 to -10.0 cm H <sub>2</sub> O (compensated PEEP)
Controlled pressure (PC)	2 to 60 cm H <sub>2</sub> O over PEEP
Support pressure (PS)	2 to 60 cm H <sub>2</sub> O over PEEP
Inspiratory pressure	0 to 120 cm H <sub>2</sub> O
Rise time	6 levels
Expiratory sensibility	5 to 80%
PEEP / CPAP	0 to 50 cm H <sub>2</sub> O
Inspiratory flow	0 to 130 l/min.
Base flow	up to 20 l/min.
Expiratory flow	0 to 130 l/min.
Sigh (VCV Mode)	Cycles per hour, quantity, maximum tidal volume

# PR5

Ventilador Pulmonar para Transporte e Emergência

# PARAMETERS

## PNEUMATIC INPUT

Oxygen	Input DISS 9/16" – 18
Pressure	250 – 700 kPa (2,5 - 7 bar)
Maximum flow consumption	Up to 160 l/min.

## PHYSICAL CHARACTERISTICS

Height	321 mm
Width	360 mm
Depth	270 mm
Equipment weight	6.9 Kg
Trolley weight	12.6 Kg
Touch Screen	10.4 inches
Trolley (optional)	With anticorrosive painting
Castors	4, being 2 with locks

## POWER SUPPLY

Power	24 V (-20%)
Nominal current	7,30 A
Nominal Power	175 W (Max.)
Fuse	8,0 A / 250 V 20 mm SB (Slow)

## GENERALITIES

Medical product classification	Class III
Operation mode	Continuous operation
Classification against electric shock (Isolation)	Class II - internally powered equipment
Classification of protection against electric shock Type B	Type B
Protection level against nocive penetration of water	IP33



## **Leistung Equipamentos Ltda.**

📍 202, João Ropelato St.

📞 Nereu Ramos - 89265-520

📄 Jaraguá do Sul - SC - Brasil

📞 +55 47 3371-2741

📞 +55 47 99909-8902

✉️ [leistung@leistungbrasil.com](mailto:leistung@leistungbrasil.com)



**Technical Support**  
**+55 47 99985-6173**



ANVISA Registration nº: 80203470017  
Op. Auth. ANVISA: GHL3983MX9H2  
GMP ANVISA Certificate  
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[www.leistungbrasil.com.br](http://www.leistungbrasil.com.br)



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