



Auto-BPAP with built-in oxygen supply!

# Breathe Easy



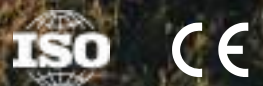
Patent pending -  
Lowest noise level possible!



The device comes with Wi-Fi enabled  
and has a data storage function



 **VENTILATOR  
CHALLENGE  
WINNER**



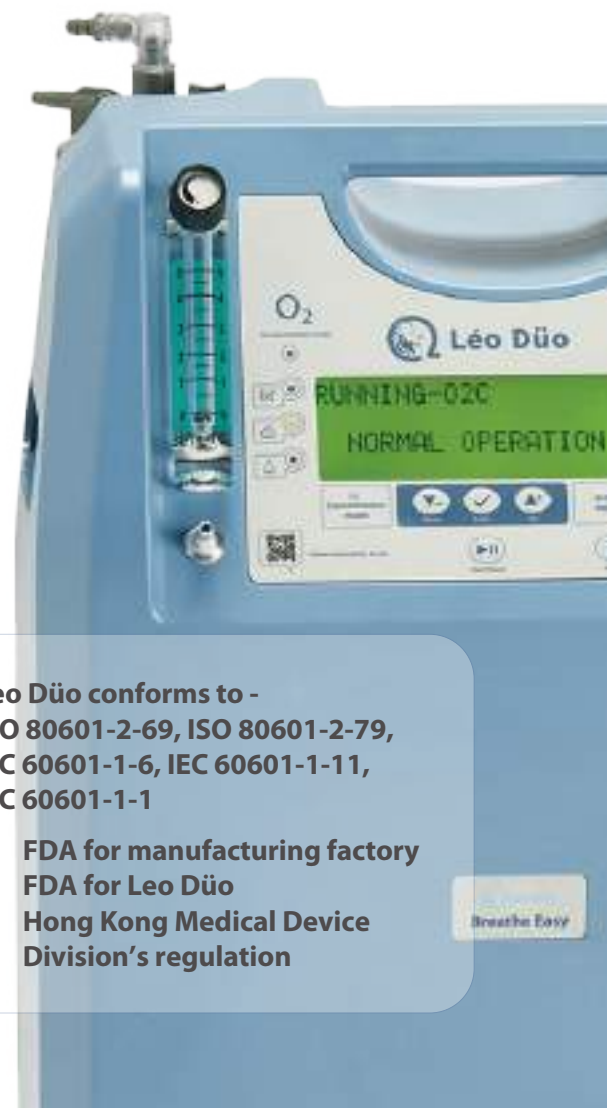


## Award winning design team:

The Leo Dño was designed in concert with Haply team, the winner of CODE LiFE Ventilator Challenge.

The Montreal General Hospital Foundation and the Research Institute of the McGill University Health Center (RI-MUHC), in partnership with the McGill Faculty of Engineering, launched the **CODE LiFE Ventilator Challenge** in March 2020, in response to the global shortage of ventilators exposed during the coronavirus.

The challenge was a two-week sprint to design a low-cost, easy-to-use, and easy-to-build ventilator that could serve patients suffering from COVID-19 and other respiratory disorders. More than 2,600 registrations applied, representing over 1,000 teams from 94 countries. "The Haply design was selected on the balance of simplicity in design and operation, as well as cost of production and ease of training. In addition, the judges were noted the versatility and anticipated robustness of the design".



**Leo Dño conforms to -**  
**ISO 80601-2-69, ISO 80601-2-79,**  
**IEC 60601-1-6, IEC 60601-1-11,**  
**IEC 60601-1-1**

- FDA for manufacturing factory
- FDA for Leo Dño
- Hong Kong Medical Device Division's regulation



Breathe Easy



# 2-in-1 Medical Device

Leo Düo is a BPAP ventilator combined with its own Oxygen Concentrator, **the only device of its kind in the world.**

Voluntary modes available on the Leo Düo device include, but are not limited to:

## BPAP mode

The device supports pressure-controlled modes of ventilation. Pressure support ventilation is the primary mode (PSV) with spontaneous breathing (S mode). The operator controls include pressure sensitivity of the triggered breath, inspiratory pressure (IPAP), end expiratory pressure (PEEP). In S/T mode the device will switch to pressure-controlled ventilation when apnea mode is triggered. Along with the controls available in the S mode, additional controls include apnea time (15 seconds or user adjustable from 0-40 seconds) and inspiratory time.

## Oxygen Concentration mode

Oxygen flow rate / volume provided to the patient. 95% pure oxygen at 5/LPM

## BPAP with Oxygen Concentrator enabled or Disable

Ventilation functions with the addition of self generated oxygen system



# Complete Accessories

Leo Düo has a complete series of accessories to meet different usage scenarios and needs.



## Oxygen Concentration Mode Accessories



**Humidifier Bottle**  
LS-A001-0



**Nasal Cannula**  
LS-A002-0



**Cabinet Air (pre-installed)**  
LS-A004-0



**Cabinet Air Filter**  
LS-A004-0



**Bottle Cannula**  
LS-A006-0

## BPAP Mode Accessories



**Breathing Circuit**  
LS-AD001-0



**PEEP Valve**  
LS-AD002-0



**Viral / HME Filter**  
LS-A003-0



**Ex-Bloc**  
LS-AD005-0



**Mask**  
LS-AD006-0



**Accessory Stand**  
LS-AD007-0

# Leo Düo General Information



## General device information

<b>Voltage</b>	AC110V $\pm$ 10v / AC230V $\pm$ 10v
<b>Frequency</b>	60Hz $\pm$ 1Hz / 50Hz $\pm$ 1Hz
<b>Sound Level</b>	$\leq$ 50db
<b>Power</b>	420VA
<b>New Weight</b>	16kg
<b>Product Size</b>	L370 x W265 x H550mm
<b>Warranty</b>	2 year / 10,000hrs
<b>Data Transfer</b>	Wifi
<b>Data Storage</b>	Summary data, continuous patient monitoring 1 day

# Locations

Leo Düo medical respiratory device availability is expanding as new countries and facilities come online



## **NORTH AMERICA**

Sales and Marketing  
Engineering

## **HONG KONG / CHINA**

Product Engineering & Manufacturing  
Finance & Administration

## **NORTH AFRICA**

Regional Project Direct Supply  
Engineering & Manufacturing  
Customer Support

## **SOUTHEAST ASIA**

Regional Project Direct Supply  
Thailand Operations  
Customer Support

# Warranty Plan & PM

## O2 Concentrator PM Kit & 3-Year Warranty Plan



After **10,000 hours / 2 years** (whichever is sooner).

Whenever the "Service Concentrator Soon" alarm activates, the Oxygen Concentrator Zeolite Bed is nearing the end of its optimal service life, and should be replaced when possible\* (Applies to Leo Dño configuration that includes an internal O2 Concentrator.)

\*Replacement at factory certified service center only.



The 3-year extended warranty provides coverage for each of the key components (BPAP, oxygen concentrator) for **20,000 hours / 3 years** (whichever is sooner).

Includes all software updates and Preventive Maintenance scheduled for 10,000 and 20,000 hours. The extended warranty does not include accessories, air and fan filters, or shipping. Priority service guaranteed within ten business days.

\*\*Warranty will be reset to day 1 after service completed.

### The 3-Year warranty & PM Kit includes:

- Blower (if needed)
- AC & DC fan (if needed)
- Zeolite O2 Generating Towers
- Tubing & One-Way Valve
- Bacteria Filter
- Inspiratory Module
- Compressor (if needed)
- Air Inlet Filter
- Inlet Foam Filter

\*\*Service/Replacement at factory certified service center only.

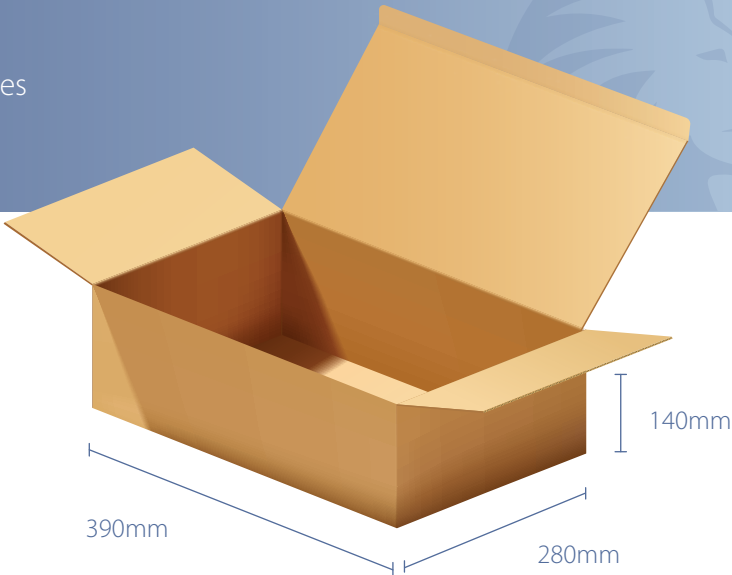
**Contact local service/centre for pricing details**

# Bundle Information

A single-use bundle includes all necessary accessories

A bundle includes the following accessories:

Bundle Pack Size  
280 x 390 x 140 mm



**Cabinet Air Filter**  
LS-A004-0



**Nasal Cannula**  
LS-A002-0



**Bottle Cannula**  
LS-A006-0



**Breathing Circuit**  
LS-AD001-0



**PEEP Valve**  
LS-AD002-0



**Viral / HME Filter x3**  
LS-AD003-0



**Exhalation Valve**  
LS-AD004-0



**Ex-Bloc**  
LS-AD005-0

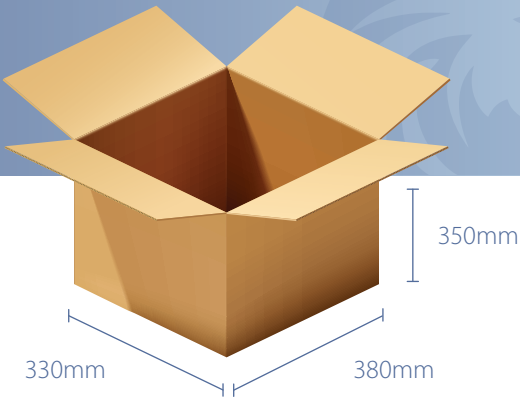


**Mask (Adult/Ped)**  
LS-AD006-0















# Master Pack Information

Each accessory item can be purchased individually with minimum order quantity (MOQ)



## Leo Düo Accessories Master Details

Bundle Pack Size  
330 x 380 x 350 mm

Item		Part No.	Master Pack Size	Min. Order Quantity (pcs in a master pack)
Humidifier Bottle		LS-A001-0	330 x 380 x 350 mm	30 pcs
Nasal Cannula		LS-A002-0	330 x 380 x 350 mm	350 pcs
HEPA Filter		LS-A003-0	330 x 380 x 350 mm	75 pcs
Cabinet Air Filter		LS-A004-0	330 x 380 x 350 mm	500 pcs
Pulse Oximeter		LS-A005-0	330 x 380 x 350 mm	230 pcs
Bottle Cannula		LS-A006-0	330 x 380 x 350 mm	400 pcs
Breathing Circuit		LS-AD001-0	330 x 380 x 350 mm	10 pcs
PEEP Valve		LS-AD002-0	330 x 380 x 350 mm	200 pcs
Viral/HME Filter		LS-AD003-0	330 x 380 x 350 mm	100 pcs
Exhalation Valve		LS-AD004-0	330 x 380 x 350 mm	300 pcs
Ex-Bloc		LS-AD005-0	330 x 380 x 350 mm	90 pcs
Mask		LS-AD006-0	330 x 380 x 350 mm	40 pcs



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