

# 1 **LS 2000 / DP 100**

## **Ultrasonic Humidifiers and Nebulizers**



### 2 **General Specifications :**

- Quartz frequency : 2,4 MHz.
- AMMD : 3,5  $\mu$ m (laser diffraction / MALVERN® Mastersizer).
- 71 % of particles < 5  $\mu$ m.
- Nebulization capacity :  
2 - 8 ml with Control'Dose®,  
8 - 30 ml without Control'Dose®.
- Humidification : 0,5 liter or 1 liter water feeding systems.
- Dead volume of medicine : 0,6 ml.
- Nebulization output :  
adjustable from 0,2 ml to 1 ml / min.  
with Control'Dose® and 3 ml / min.  
without Control'Dose®.
- Ventilation integrated (adjustable airflow).
- Removable ceramic mist heater
- Adjustable nebulization output and ventilation airflow.
- Alarms.
- Optional rolling stand and oxygen nozzle.



**LS 2000**



**DP 100**



3 **CONTROL'DOSE®  
Patented System.**

# LS 2000

6

High output ventilated ultrasonic nebulizer.  
Polyvalent unit :

**AEROSOLS NEBULIZATION :**

Thanks to its adjustable nebulization output and ventilation, the LS2000 is recommended :

- for active patients (breathe activated system : delivery of the nebulized particles only during the inspiratory phase) : children and adults,
- for passive patients (ventilated system : continuous passive delivery of the drug) : infants, patients with respiratory insufficiency,
- Possibility, for the aerosol, to reach deposition targets : E.N.T., Broncho-pulmonary, Alveolar.

The LS2000 allows nebulization of different volumes : 2-8 ml with Control'Dose® system, 8-30 ml without Control'Dose® system.

**HUMIDIFICATION :**

The water feeding systems and the removable ceramic mist heater allow also to realize continuous long-term humidification. Optional roller stand for hospital use.

5 *Aerosol drug delivery system Version*



7 LS 2000 + Set 2901



LS 2000 LIGHT



8 LS 2000 + Set 2301

9 *Humidification version (available also with a 1 L water feeding system)*



10 LS 2000 + roller stand

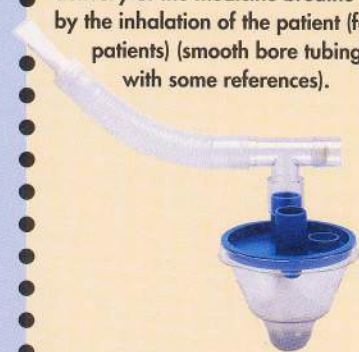


11 LS 2000 complete version, with heater and 0,5L water feeding system (possibility to be delivered in a suitcase).

12 *Disposable /*

13 **SÉRIE 2301 :**

delivery of the medicine breathe-activated by the inhalation of the patient (for active patients) (smooth bore tubing available with some references).



15 Mask available with the 2301 set

# 26 Control'Dose®

## 27 The Control'Dose® effect : MEDICINAL SOLUTION/PARTICLE EMISSION SEPARATION.

28 The Control'Dose® system allows :

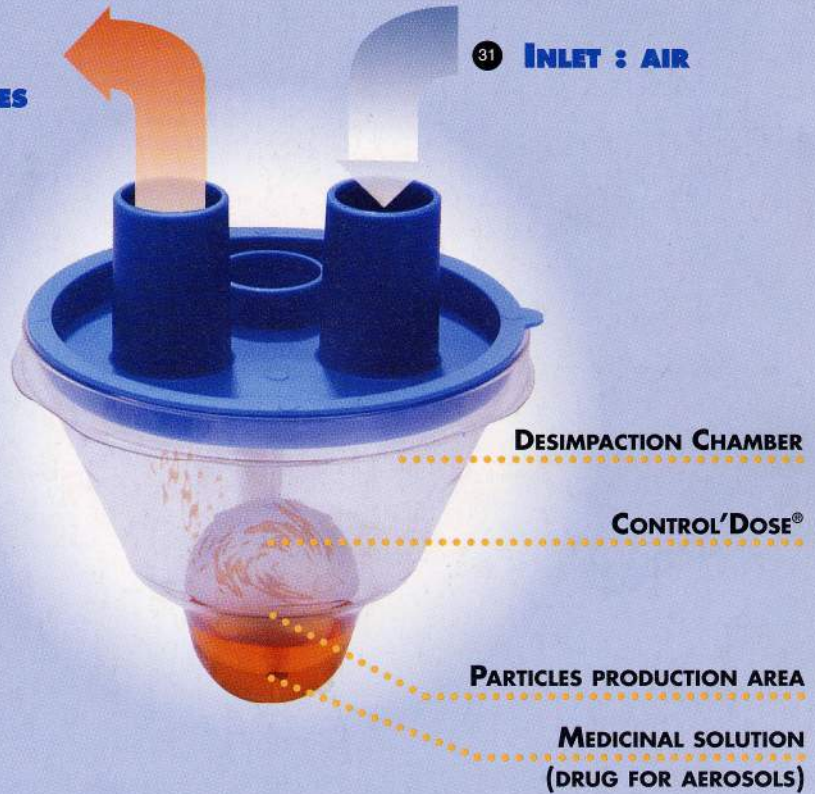
- to nebulize very small volumes of medicine without previous dilution (2-8 ml),
- to nebulize the initial dosis with a residual volume of 0,6 ml.

## 29 DOSAGE MASTERED...



30 **OUTLET :**  
**MEDICINAL PARTICLES**

31 **INLET :** AIR

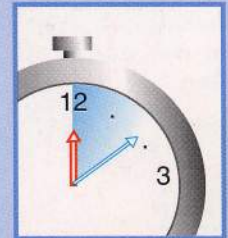


32 During operation, the medicinal solution remains in the volume created under the Control'Dose® and the medicinal particles are conveyed to the outlet (to the patient).

## 34 TIME CONQUERED...

33 The aerosol session lasts 7 to 10 minutes with the Control'Dose® (around 20 to 30 minutes with conventional systems).

- Shortest sessions.
- A better compliance of the treatment.
- Less expected participation of the patient (especially with children).



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