# **OPTINEB®-ir**

Microprocessor Controlled • Mobile Ultrasonic Nebuliser

**Microprocessor Controlled Mobile Ultrasonic Nebuliser** 

# Operating Instructions

**Operating Instructions** 

**Attificial Respiration (ventilation)** 

for physicians and authorized clinic personnel/ for physicians and authorized clinic personnel





## MEBU-TEC med, Produkte

Eike Kern GmbH

Kreuzfeldring 17

63820 Elsenfeld - GERMANY Tel.: (+49) (0)6022-610-620 Fax: (+49) (0)6022-649-812 e-mail: nebu-tec@t-online.de web: http://www.nebu-tec.de



#### **OPTINEB®-ir**

Microprocessor Controlled Mobile Ultrasonic Nebuliser

Operating Instructions
Type: ON-100/2-2.4 MHz
Made in Germany

Dear Patient,

With the mobile Ultrasonic Nebuliser **OPTINEB**®-ir, you have received an inhalation device that has been adjusted extremely precisely in a conditioned room. In order to ensure a constant operation of the equipment we ask you to carefully read the operating manual and to follow the instructions before you put the device into service.

We wish you every success for your treatment with the OPTINEB®-ir



#### OPTINEB®-ir

Microprocessor Controlled Mobile Ultrasonic Nebuliser

Operating Instructions
Type: ON-100/2-2.4 MHz

Made in Germany

Dear Patient,

With the mobile Ultrasonic Nebuliser **OPTINEB**<sup>®</sup>-ir you have received an inhalation device that has been adjusted extremely precisely in a conditioned room.

In order to ensure a constant operation of the equipment we ask you to carefully read the operating manual and to follow the instructions before you put the device into service.

We wish you every success for your treatment with the **OPTINEB**®-ir.



#### **Table of Contents**

- 1.0 Symbols
- 2.0 Safety Instructions
- 3.0 Intended use
- 3.1 Function during ventilation
- 3.2 Aerosol spectrum (particle size)
- 4.0 The most important component parts of your **OPTINEB**°-ir ultrasonic nebuliser
- 5.0 Initial operation of your **OPTINEB**®-ir ultrasonic nebuliser for ventilation
- 6.0 Power supply of the ultrasonic nebuliser **OPTINEB**®-ir.
- 6.1 Alternating current operation
- 6.2 Direct current outlet
- 6.3 Battery operation
- 7.0 The meaning of the key assignment and the display screen of the **OPTINEB**<sup>®</sup>-ir ultrasonic nebuliser
- 8.0 Programme selection and operation of the **OPTINEB**<sup>®</sup>-ir ultra-sonic nebuliser for ventilation
- 8.1 Programming mode only for authorised persons.
- 8.2 Description of the ultrasonic nebuliser **OPTINEB**®-ir 2.4 MHz programme
  - 8.2.1 Features of the first programme (P1)
  - 8.2.2 Features of the second programme (P2)
  - 8.2.3 Features of the third programme (P3)
  - 8.2.4 Features of the fourth programme (P4)
  - 8.2.5 Features of the fifth programme (P5)
  - 8.2.6 Features of the sixth programme (P6)
- 8.3 Individual programming of Programme 6 with the **OPTINEB**®-ir
- 8.4 Volume-controlled mode
- 9.0 Use of the **OPTINEB**®-ir ultrasonic nebuliser with a non-invasive ventilation mask.
- 10.0 Cleaning instructions for **OPTINEB**®-ir
- 10.1 Cleaning and replacement intervals of autoclaved plastic parts
- 10.2 Cleaning of the **OPTINEB®-ir** ultrasonic nebuliser.
- 11.0 Replacement interval of medication cup and filter membrane
- 12.0 Servicing
- 13.0 Information on trouble-shooting
- 14.0 Technical data of the **OPTINEB®-ir** ultrasonic nebuliser.
- 15.0 Accessories
- 16.0 Compatibility
- 17.0 Warranty
- 18.0 Declaration of conformity
- 19.0 Garantiekarte zum Abtrennen/Warranty Card (tear-off card)



#### 1.0 Symbols



Attention, see instructions



Protection class II device



Applied part, type B



Device class AP



1275

#### 2.0 Safety Instructions

These operating instructions must be fully understood and observed when using this device. In all cases the operator is liable for the safe operation of the device if it is used by a third party or not used according to the instructions. Important information is highlighted by the following terms:

#### **WARNING**

Important safety information on hazards that can lead to bodily harm.

#### **ATTENTION**

Important information on operating procedures that can cause device malfunctions.

#### **CAUTION**

Information that prevents product damage.

#### NOTE

Information that you should be especially aware of.

[ For component parts, see Sketch 4.0 ]



Please read through the instructions for use carefully before initial operation. Keep these operating instructions in a safe place.

#### **WARNING**

- 1. Pull out the mains plug after each use.
- 2. Do not use the device while bathing.
- 3. The device is to be set up so that it cannot fall into water.
- 4. Do not immerse the device into water or any other fluid.
- 5. Do not use the device if it has fallen into water, and immediately pull out the mains plug.
- 6. Do not use the device in the rain.
- 7. Do not use the device near easily inflammable materials.
- 8. Never place your hand or finger in the medication reservoir while the device is operating.

#### **ATTENTION**

- 1. An operating electrical device should never be left unattended.
- 2. You must be particularly careful when the device is used by or near children or seriously ill persons.
- 3. Only use the device for its intended purpose, as specified in these operating instructions. Under no circumstances should accessory parts be used that are not recommended by the manufacturer.
- 4. Never operate this device in the following cases:
  - a) if the mains cable or plug is damaged
  - b) if the device is not properly functioning
  - c) if the device was dropped or was damaged
  - d) if the device fell into water. In such cases, send the device to the manufacturer or to an authorized NEBU-TEC dealer for inspection and repair.
- 5. Keep the mains cable away from heated surfaces.
- 6. Place the device on a level and stable surface in a way that no air openings are blocked.
- 7. Do not use the device while sleeping.
- 8. Never clean the ultrasonic nebulizer in the dishwasher or microwave (never expose the base unit to direct microwave radiation).
- 9. While cleaning the contact fluid chamber of the **OPTINEB**<sup>®</sup>-ir, prevent moisture from being able to penetrate into the housing.



# DOCKET

# Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

### **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

### **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

### **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

#### API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

#### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

#### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

#### **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

