

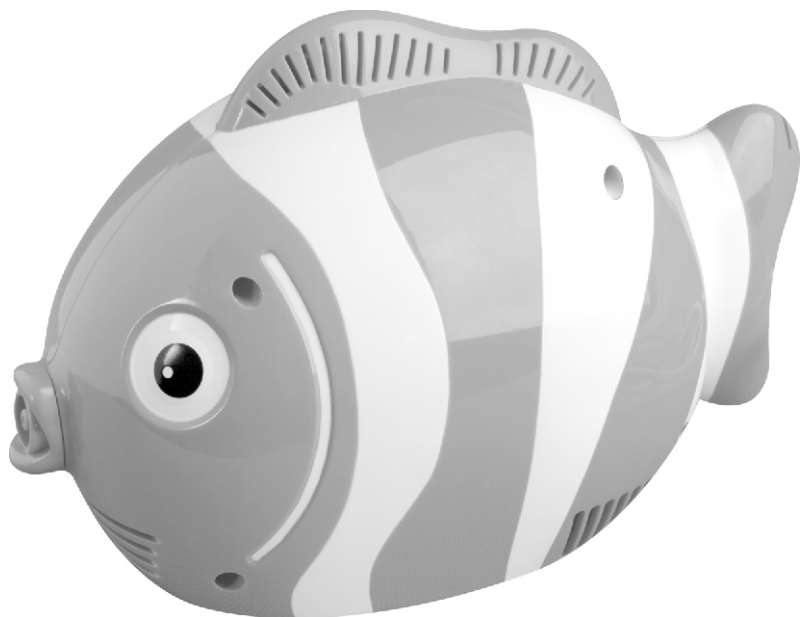
# INSTRUCTION MANUAL

# *bobo-neb*


EN

## NEBULISER

PISTON COMPRESSOR



**Diagnosis<sup>®</sup>**

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CE 0197

REF 7017

# DEAR CUSTOMER

Thank you for buying the new Bobo-neb nebulizer for inhalation purposes. Aerosol therapy is an effective and safe way of treating respiratory diseases. Therapy should be commenced after consulting a physician. Read this manual carefully before using the appliance for the first time.

## 1. INTRODUCTION

Bobo-neb nebulizer is a compact medical device for intermittent operation (30 minutes of work, 30 minutes pause). It makes the medication reach the bronchi and lungs immediately and directly by inhalation. If proper precautions are kept, the appliance shall ensure quality treatment over a number of years.

## 2. HOW IT WORKS

Bobo-neb nebulizer was designed to treat asthma, allergies and other respiratory diseases. The appliance generates an air stream directed via the tubing to the nebulizer. Upon introduction of the air into the nebulizer, the medicine is diffused in the form of an easy-to-inhale mist. The main flow of air into and from the compressor is presented in Fig. 1.

**Read this instruction manual carefully to learn about product characteristics. Do not use the product contrary to its intended purpose.**

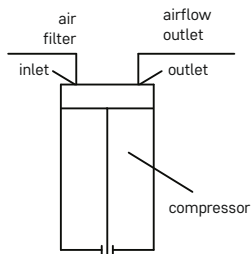


Fig.1

## 3. PRODUCT FEATURES

Before using the appliance, make sure that the set contains the following components:

- 1x main device (compressor)
- 1x nebulizer (sprayer)
- 1x tubing
- 1x adult mask, pediatric mask
- 1x mouthpiece
- 5x air filters

### MAIN DEVICE (COMPRESSOR)

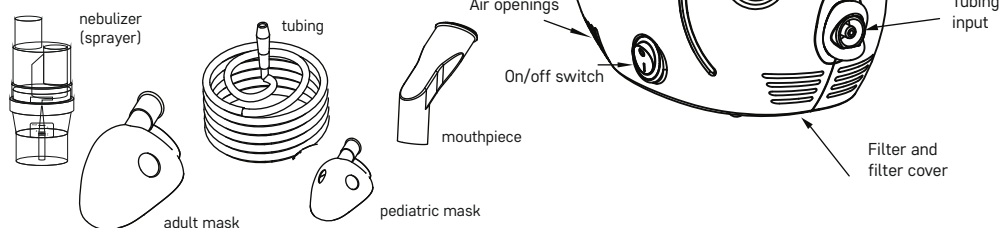
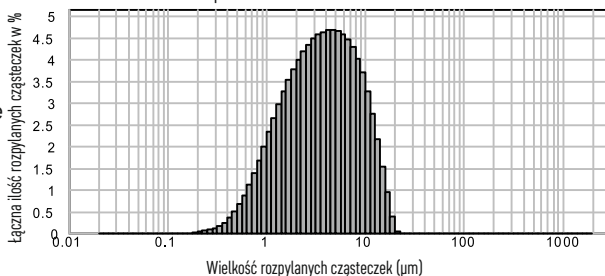


Fig.2

### SPECIFICATION OF PARTICLES` SIZE ATOMIZED BY THE NEBULIZER

Data may vary depending on medicine used. Measurements done by using MALVERN technology and physiological salt solution. Data provided may not be applicable to suspended solids or to high viscosity medicine therefore, in case of using medicine different than physiological salt solution please contact the manufacturer of the medicine used for inhalation

#### DISTRIBUTION OF PARTICLES SIZE IN COMPLIANCE WITH EN 13544-1



# AEROSOL THERAPY SYSTEM FOR DOMESTIC USE



**IMPORTANT WARNINGS:** Failure to comply with warnings and instructions in this manual may expose the user to the risk of: deteriorated health, burns, electric shock, recurrent infections, death, fire, environmental pollution. Use of any electrical devices requires compliance with the following fundamental principles:

READ THIS MANUAL CAREFULLY BEFORE YOU START USING THE APPLIANCE

Failure to meet the instructions for use may lead to appliance malfunction.

- Proceed in accordance with electrical specification provided on the appliance;
- Comply with doctor's recommendations for the medication type, dose and dosage regimen. Intensity of using the appliance must be always consulted with the doctor.
- Inhalation of any substances should be performed with approval of a physician who determines the doses and treatment method.
- Lack of electricity supply, sudden failure or any other adverse conditions may lead to malfunction of the appliance; therefore, the patient should be provided with an interchangeable device or medication (in accordance with doctor's recommendations).
- Use the appliance only in accordance with its intended purpose (aerosol inhalations) and in the manner set out herein;
- Do not allow the appliance to be used unsupervised by children or incapable persons; in such cases, special attention should be paid during treatment;
- Do not use the appliance when the plug or power supply cable is damaged;
- Never leave the appliance, accessories, package within the reach of children, unauthorized persons, pets or insects.
- If necessary, use adapters or extension leads complying with safety standards, paying attention not to exceed the rated power value and maximum power value indicated on the adapter;
- Do not use the appliance with wet or damp hands or while taking a bath;
- Do not allow the appliance to be submerged in water or other liquids; do not use the appliance if it was made accidentally wet;
- Keep the appliance and the power supply cable away from the sources of heat;
- The appliance has common protection against the ingress of liquids;
- Do not use the appliance in the presence of flammables or explosives;
- Do not use the appliance in rooms in which sprays have been used; air the room before starting treatment;
- Do not block or obstruct the appliance air openings and do not place it on a soft surface such as a bed or settee;
- Do not insert any objects into the cooling openings;
- Do not use the appliance if it emits improper noises;
- In order to prevent deterioration of appliance functionality, use original accessories only;
- Personal use of the accessories is recommended. If the appliance is used by their family members, we recommend cleaning the accessories after every use or purchasing extra accessories for personal use only.

- Do not pull the power supply cable or use the appliance to remove the plug from the power supply socket;
- Always remove the plug after use;
- Do not leave the appliance exposed to atmospheric elements; keep it in ambient conditions;
- Do not place the tubing or power supply cable over your neck;
- The appliance has small parts that may be dangerous if swallowed;
- Do not use the appliance in combination with accessories other than those indicated in the manual;
- Do not use the appliance, if it was kept in a polluted venue.

## RESPONSIBILITY

The manufacturer shall be responsible for safety, performance and reliability of the appliance, only if:

- assembly, calibration, repairs or modifications have been performed by authorized persons;
- the electrical system complies to standards in force;
- instructions for use have been complied with. The manufacturer shall not be responsible for improper, erroneous and unreasonable use of the appliance.

## FILTER REPLACEMENT

Filters should be exchanged every 3 months or after 300 applications of the device. To replace the filter:

1. Take off the filter cover.
2. Exchange the filter.
3. Mount back the filter cover.

**CAUTION:** If the filter gets wet, dry it out completely before use.

## SAFETY FUSE

A safety fuse is housed in the appliance and may be replaced if it blows. As for all other possible repairs, the replacement operation must be performed by the producer or by personnel authorised by the same.

## ELECTROMAGNETIC COMPATIBILITY

The unit complies with current standards regarding electromagnetic compatibility and is suited for use in all buildings, including homes and residential buildings. The appliance produces very low radiofrequency (RF) emissions and is not likely to cause interference with equipment located nearby. It is advisable however, not to set the unit on top of or very close to other electrical equipment. If it does not generate any interference with your electrical equipment, move it or connect it to a different power outlet. Mobile radio communication units could affect operation of the appliance. Keep the appliance within at least 3 m from the equipment.

## 4. PREPARATION TO NEBULISATION

To insert the medication into the nebuliser:

1. Open the medication cup.
2. Fill in the medication cup complying with doctor's recommendations. Make sure that the volume does not exceed 8 ml.
3. Close the cup.
4. Connect the mouthpiece or mask.

**CAUTION:** The mouthpiece is intended for oral inhalation.

**CAUTION:** Remember to use the nebuliser nozzle (in the medication cup). It is essential for proper operation of the sprayer.

## 5. OPERATION

To start the nebuliser:

- Insert the plug to the appliance but do not switch the appliance on.
- Make sure that the air filter is clean and housed in the appliance.
- Connect the nebuliser to the main appliance (compressor) using tubing.
- Switch the power supply on.
- Start inhalation in accordance with doctor's recommendations.
- Working time of the appliance: 30 mins of work/30 mins of pause. After 30 mins of operation, switch the appliance off in order not to overheat it.
- Inhalation is completed when there is no medication in the cup.
- Upon completed inhalation, switch off the appliance before you disconnect the tubing.

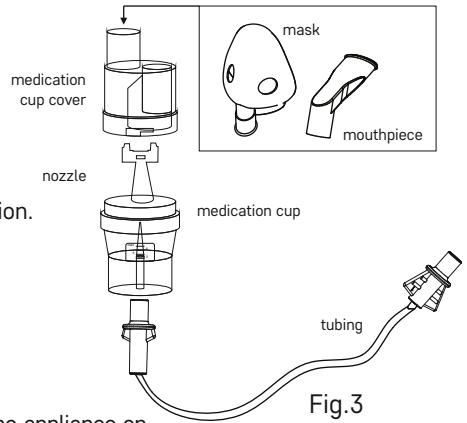
## 6. CLEANING THE APPLIANCE

All cleaning operations must be performed with the plug of the appliance removed from the power supply socket. To avoid anomalous operation and inhalation of undesired substances, clean the accessories immediately after completed treatment. The appliance and accessories should be cleaned using a cloth slightly moistened with alcohol. After cleaning the appliance, wait until the alcohol evaporates completely before re-use. Do not use any other liquids or substances. Do not use excessively wet cloths because if liquids come into contact with the electrical parts of the appliance, operating defects or irreparable damage may be caused.

## 7. CLEANING THE ACCESSORIES

1. Before using the appliance for the first time and after each use, carefully wash the accessories (except the tubing) with tepid water and dry them with a cloth. Next, put them away to a clean storage area. While cleaning, make sure that all residues of the inhaled substance are removed, and carefully dry the accessories. In no case, never use cleaning agents or disinfectants that are likely to have a toxic effect in contact with skin or mucous membranes, while swallowing or inhalation. Remove any moisture residues in the tubing by starting the appliance for a few minutes without connecting the nebuliser. If the tubing is dirty, replace it with a clean one.

### NEBULISER (SPRAYER)



2. In order for the nebuliser to operate correctly, after each use:

- Upon disconnecting the tubing, disassemble the mouthpiece or mask.
- Open the medication cup cover and empty the cup. Wash the nebuliser with running water or leave it in warm water for 15 minutes. For a better cleaning effect, mix water with some vinegar (1/3 vinegar, 2/3 water).

CAUTION: Do not clean the accessories in boiling water, this may cause their damage.

- Do not clean the accessories in a dishwasher.
- Dry the accessories thoroughly before longer storage.

## 8. REPLACEABLE ACCESSORIES

To guarantee effective inhalation, correct operation and safety, buy original accessories only. All accessories may be used directly on skin. They are phthalate-free.

In case of any queries, please contact Diagnosis. Toll-free helpline: +48 800 70 30 11.

## 9. PERIODIC EXAMINATION

In order to maintain high performance of the appliance, the medication cup is recommended to be replaced every 12 months (every 6 months, if the cup is used 3 times a day). A damaged cup should be replaced immediately.

## 10. TECHNICAL DATA

Power supply	230V AC, 50Hz
Energy consumption	< 65W
Nebuliser flow capacity	6 l
Compressor flow capacity	8-10 l
Volume of medication cup	2-8 ml
Particle size	0.5 to 6 microns
MMAD indicator	2.44 microns
Nebulisation performance	0.4 ml/min
Amount of deposit	0.15 ml
Working time	30 mins of work/30 mins of break
Noise level	Below 55 dBA
Working conditions	10°C to 40°C (50°F to 104°F) 10% to 95% RH
Storage conditions	-20°C to 70°C (-4°F to 158°F) 10% to 95% RH
Dimensions (LxWxH)	167 x 142 x 93 mm
Weight	1.51 kg
Accessories	Nebuliser, mask (adult), mask (paediatric), 5 x air filter, tubing of 150 cm, mouthpiece











### NOTE!

Specification may be subject to changes without prior notice.

11. TROUBLESHOOTING

Malfunction	Probable cause	Solution
Nebuliser does not start	The main switch of the compressor is off.	Switch on the appliance.
Appliance is too loud	No filter in the appliance	Place the filter inside the appliance.
	Nebuliser was not cleaned after previous use.	Clean the appliance.
	The tubing is bent.	Remove all bents or knots found along the tubing.
	The filter is blocked.	Replace the filter.
There are drops of water in the tubing	No medication.	Add an appropriate amount of the medication prescribed by the doctor, to the medication cup.
	Too much medication was inserted.	Adjust medication amount in the cup to the appropriate level, connect the tubing to the compressor and switch the appliance on.
	The tubing was not dried.	Moisture left in the tubing may be removed by starting the appliance for a few minutes without connecting the nebuliser. If the tubing is dirty, replace it with a clean one.

12. SYMBOLS USED

				Rev.	SN							IP21
Important warnings	Alternating current	Safety fuse	Manufacturer	Last revision date	Serial number	Catalogue ref. number	Year of production	Insulation class II	BF device	Read the instruction manual	Protect from moisture	International Protection (IP) code

NOTE! Portable wireless communication devices may interfere with ELECTRICAL MEDICAL DEVICES. Operation near (in the distance of 2.8 m) a mobile phone is likely to cause malfunction of stimulator's output.

NOTE! Technical data required by this standard are available at <http://www.diagnosis.pl/norma-en-60601-1-2.html>



Dispose of the used product at the waste collection venue. It contains components dangerous to the environment. Proper disposal of the appliance guarantees preservation of valuable resources and avoidance of negative impact on health and the environment that is likely to be threatened due to improper waste disposal.

## NOTES



store stamp and signature of salesperson

## WARRANTY CARD

## WARRANTY CARD

DEVICE NAME ..... MODEL .....

SERIAL NUMBER ..... DATE OF SALE .....

### WARRANTY TERMS

**1. Diagnosis S.A. grants a warranty:**

- 2 years for the BOBO-NEB nebulizer (excluding accessories)
- 12 months for nebulizer accessories

Hardware defects revealed during the warranty period will be rectified free of charge within 21 days.

The term runs from the date of delivery of the equipment to the service center.

**2. The purchaser shall be entitled to replace the equipment for a new one, free of defects, when:**

- the repair has not been made within the time limit set in item 1
- an authorized service center found an irreparable manufacturing defect
- during the warranty period, 4 repairs were effected, and the equipment still shows defects that prevent its use in accordance with its intended purpose.

The concept of repair shall not include operations related to equipment check and cleaning.

**3. The warranty shall not cover:** batteries, products with illegible or damaged serial number, damage due to the operation and storage inconsistent with the user manual, ingress of liquids or foreign bodies, overvoltage of mains, repairs by unauthorized persons and random events.

**4. Faulty equipment should be delivered by the buyer to the address of the main service center or one of the Authorized Service Centers (listed in the appendix).**

**5. The warranty for the sold consumer goods shall not exclude, restrict, or suspend the powers of the buyer resulting from non-conformity of the goods with the contract**

**6. The only basis for the warranty rights shall be the warranty card with the date of sale, stamp and signature of the salesperson. If the card is not completed, filled in wrongly, with traces of corrections and entries made by unauthorized persons, illegible as a result of damage - it shall be invalid.**