

Domotherm®

vital plus

Instructions for use



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Thank you for choosing the inhalation device Domotherm vital plus. Domotherm vital plus is a compressor nebuliser and was developed for use with medically prescribed drugs in the upper and lower respiratory tracts. The device offers an effective therapy when maintained and used appropriately.

Read this instruction manual carefully before using this product and keep it in a safe place.

This device is designed to convert inhalable medication into an aerosol that can be inhaled by patients for the treatment of upper and lower respiratory tract disorders, such as bronchial asthma, allergies, chronic obstructive pulmonary disease (COPD), (chronic) laryngitis and tonsillitis. The device may be used at home or in hospitals. It is suitable both for adults and for children and infants.

The device generates a flow of air that is carried through a transparent tube to a nebuliser, where the medication is atomised into a fine mist that is easy to inhale.

Your unit should be used under the supervision of a licensed physician and/or a respiratory therapist. Any use of this product other than its intended use should always be avoided.

The following basic precautions are needed when using an electrical product. Caution: Failure to read and observe all precautions could result in personal injury or equipment damage.

Product cautions

- To avoid electrical shock: Keep the unit away from water.
- Do not immerse the power cord or the unit in liquid.
- Do not use while bathing.
- Do not reach for a unit that has fallen into water – immediately unplug the unit.
- Never operate the unit if it has any damaged parts (including power cord), if it has been dropped or submersed in water. Promptly send it to a service center for examination and repair.
- The unit should not be used where flammable gas, oxygen or aerosol spray products are being used.
- This device is not category AP/APG. It may not be used in the presence of highly inflammable anaesthetics with air, oxygen, or nitrogen oxide.
- Disconnect the unit from the electrical outlet before cleaning, filling and after each use.
- The device must only be operated with accessories that have been tested and approved for use with the device (see “Original spare parts and accessories” on page 16). Use of other accessories may cause malfunctions. The warranty will be invalidated if the device is damaged by third-party accessories.
- Using this device in the vicinity of mobile phones, microwaves or other devices with strong electromagnetic fields can cause malfunctions.

Operating Cautions

- The device is also suitable for children and infants without any age restriction. To avoid the risk of misuse or incorrect operation, however, you should never leave a child unattended during treatment.
- Use the baby mask without rubber band on infants. Hold the mask over the infant's mouth and nose during treatment.
- The device contains small parts that children could swallow. The power cable and air tube pose a risk of strangulation. Do not leave the device unattended with children.
- Connect this product to an appropriate voltage outlet for your model.
- Do not run this product unattended.
- Never operate if this unit has a damaged cord or plug, if it has been dropped, or in any way, into water, if it does not work properly. Return it to a service center for repair.
- If any abnormality occurs, discontinue use immediately until the unit has been examined and repaired.
- Always unplug the product immediately after use.
- Never block the air openings of the main unit or place it where the air openings may be obstructed.

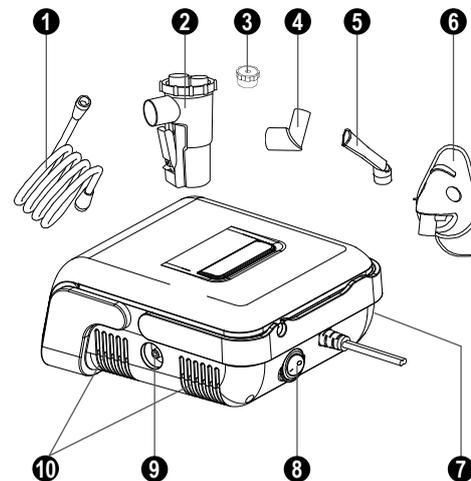
Storage Cautions

- Do not store the unit under direct sunlight, high temperature or humidity.
- Keep the unit out of reach of infant and children.
- Always keep the unit unplugged while not in use.

Cleaning Cautions

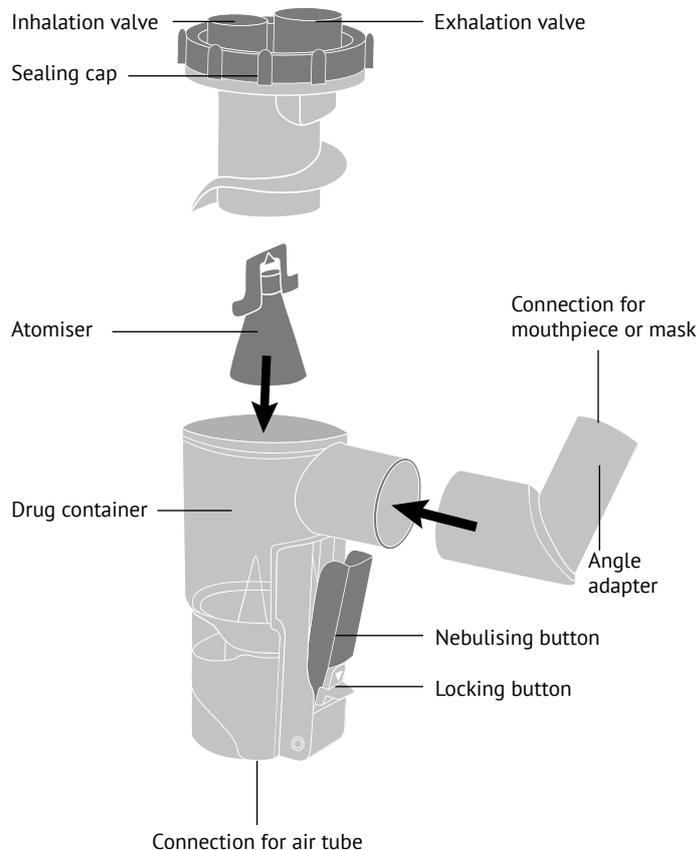
- Do not immerse the unit in water. It may damage the unit.
- Disconnect the unit from the electrical outlet before cleaning.
- Clean all necessary parts after each use as instructed in this guidebook. See Page 19.

Unit description



- | | |
|---------------------------------|---------------------------|
| ① Air tube | ⑥ Mask |
| ② AeroVital plus nebuliser unit | ⑦ Filter and cover |
| ③ PEP training attachment | ⑧ Power switch |
| ④ Angle adapter | ⑨ Connection for air tube |
| ⑤ Mouth piece | ⑩ Air vault |

AeroVital plus nebuliser unit



Application of the device

Clean the device and accessories thoroughly in the following cases:

- Prior to first use
- If using the device again after a prolonged period
- If the device is used by multiple people

Please note the instructions on cleaning and care from page 19.

- Place the device on a flat, stable surface. Make sure that you can easily reach the controls while seated.
- Gently twist the top part of the nebulizer bottle counter-clockwise to disassemble the nebulizer bottle. Make sure that the nebuliser (blue) is securely fitted on the nozzle. (Image 1)

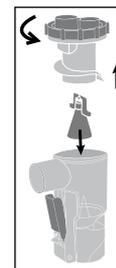


Image 1

- Fill the drug container with the amount intended for the treatment of the drug prescribed by your doctor (Image 2).

The maximum fill level for the drug container is 6 mL. Please note the markings on the exterior!



Image 2

- Carefully screw the upper part clockwise to close the container. Check if you have screwed both pieces together correctly (Image 3).
- Attach the angle adapter to the nebuliser unit (Image 3).
- Attach one end of the air tube to the underside of the nebuliser unit (Image 4).

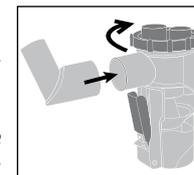


Image 3

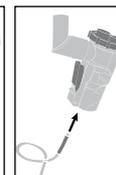


Image 4

- Secure the other end of the air tube to the air-tube connector on the side of the compressor.

Warning: Always keep the nebuliser unit upright so that the medicine does not leak and can be nebulised as much as possible.

- Place the mouthpiece or mask (subject to your preference) on the angle adapter attached to the nebuliser unit (Image 5).

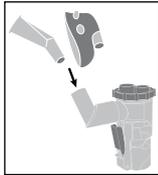


Image 5

- Plug the power cord into an appropriate electrical outlet. Make sure at this stage, the power switch is at "O" status.

- Press power switch to begin your prescribed treatment.

- Put the mouthpiece into your mouth and press the nebulising button (Image 6).

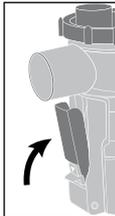


Image 6

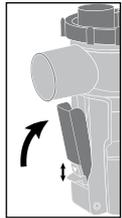
- Keep the nebulising button depressed and breathe in slowly and deeply over a period of 3–5 seconds.
- Release the nebulising button after breathing in to interrupt nebulising.
- Hold your breath for approx. 10 seconds so that the medication can go down your respiratory tract.
- Breathe out through the mouthpiece or mask.
- Press the nebulising button again for another intake of breath and to continue the treatment.
- Repeat this process until the medication is used up.

When treatment is finished, shut off the unit and unplug it from the electrical outlet.

Notes:

Occasionally tapping on the side of the nebuliser unit will cause any drops that may have developed on the inside to run down, so they can then be nebulised again.

You can lock the nebulising button so that you can nebulise continuously. To do so, press the nebulising button on the nebuliser unit and push the locking button down until you hear it engage.



To unlock the nebulising button again, push the nebulising button upwards. The nebulising button will thus release again.

PEP training feature

The device has a PEP training function, which can be used to combine the inhalation process with a PEP breathing exercise as required.

For the PEP breathing exercise (PEP = Positive Expiratory Pressure), positive pressure is built up when breathing out. The bronchial tubes expand when breathing out due to the increasing pressure and narrow again when the pressure drops. This constant expansion and narrowing of the bronchial tubes creates a massaging effect, which has a positive impact on respiratory tract therapy.

Regular PEP training facilitates more effective removal of stubborn mucus, eases expectoration and trains respiratory muscles.

To use the PEP training function, place the PEP attachment onto the exhalation valve of the nebuliser (see figure on page 8). Then perform the treatment in the usual way as described in the previous chapter.



Protection against overheating

The compressor motor has a thermal protector which will shut off the unit before the unit is overheated. When the thermal protector shuts the unit off, please:

- Switch off the unit.
- Unplug the unit from the electrical outlet.
- Wait 30 minutes for the motor to cool down before another treatment. Make sure the air openings are not obstructed.

Filter change

Do not use cotton or any other materials. Do not wash or clean the filter. Only use filters supplied by your distributor. And do not operate without a filter.

Replace the filter approximately once every two months or when the filter turns grey.

Changing procedure:

- Remove the filter cover from the bottom of the device.
- Replace the used filter with a new one.
- Replace the filter cover.

Frequently asked questions

Which medications can I nebulise with Domotherm vital plus?	All medication that is suitable for device inhalation may be nebulised using Domotherm vital plus. Please refer to the instruction leaflet provided with your medication for information. If you are unsure regarding use of your medication with this device, please discuss this with your doctor.
Should I use the mouthpiece or the mask for inhalation?	We recommend the mouthpiece for inhalation. There is a more direct path to the lungs when breathing through the mouth than the nose, meaning that slightly less aerosol mist is left over in the upper respiratory tract. Technically, using the mask means that more outside air is inhaled than with the mouthpiece. Therefore, the treatment time may be somewhat longer. When inhaling using a mask, please make sure that the mask covers the mouth and nose well.
Is Domotherm vital plus also suitable for children and infants?	Domotherm vital plus is suitable for children of any age. Children should, however, only use the device when supervised by an adult. Never leave a child alone during treatment. Use the baby mask without rubber band on infants. Hold the mask over the infant's mouth and nose during treatment.
Why should I replace the nebuliser container after 1 year?	The nebuliser is a high-precision instrument and is subject to minor wear from usage. Therefore, particle size and distribution can change over time, which may affect treatment effectiveness. Accessories should also be replaced regularly for hygiene reasons.
Can Domotherm vital plus be used by multiple people?	Yes. However, each user should use their own accessory kit (nebuliser container, mouthpiece, mask) for reasons of safety and hygiene.

Technical data

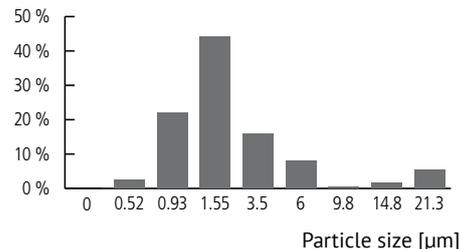
Power:	230 V AC, 50 Hz
Max apparent output:	180 VA
Mode of operation:	Continuous operation
Medication capacity:	0.5 - 6 ml
Particle size:	0.5 to 10 µm
MMAD:	2.3 µm
Sound level:	≤ 60 dB in 1 meter distance
Average nebulization rate:	0.16 ml/min
Maximum pressure of the compressor:	≥ 2,0 bar
Operating pressure range:	0.83 to 1.24 bar
Air flow range:	5 - 8 l/min
Operating conditions:	Ambient temperature 5 to 40 °C, rel. air humidity 15 to 90 %,
Storage and transport conditions:	Ambient temperature -25 to 70 °C, rel. air humidity 10 to 95 %, air pressure 700 to 1060 hPa
Expected service life:	Compressor: 2 years or 1000 hours of operation, accessory parts: 1 year
Dimension (L x W x H):	206 x 166 x 99 mm
Weight:	1.52 kg

Particle size/MMAD

Particle size and therefore mass medium aerodynamic diameter (MMAD) may vary depending on the consistency and viscosity of the nebulised medium. Here are a few examples of medication typically used for inhalation therapy:

Saline solution 0.9 %: MMAD: 1.3 µm
 Albuterole sulfate: MMAD: 2.3 µm
 Ipratropium bromide: MMAD: 2.6 µm
 Cromolyn sodium: MMAD: 1.9 µm

Particle size distribution with saline solution 0.9% at an air flow rate of 5.0 l/min:



Possible faults and resolution

Problem	Possible cause	Solution
The compressor is not working	The device is not connected to the power supply.	Check whether the power plug is plugged in correctly.
	The device was switched off by the overheat protection (see page 12).	Switch off the device and allow the compressor to cool down for 30 minutes before starting the next treatment. Make sure that the ventilation slots are not blocked.
No or low nebulisation rate	Medication fill level too low or too high	The medication must be filled to at least 0.5 ml and maximum 6 ml. Note the levels on the nebuliser.
	Medication not suitable for nebulising	Read the medication instruction leaflet. Ask your doctor for suitable medication.

Problem	Possible cause	Solution
No or low nebulisation rate	Nebulising button not pressed	Press the nebulising button on the nebuliser to start nebulisation. If the button is released, nebulisation will be interrupted.
	Nebuliser held diagonally	Keep the nebuliser upright. Correct nebulisation can only be ensured if this positioning is used.
	Atomiser not inserted or not correctly inserted	Correctly insert the atomiser (blue) into the medication container (see page 8).
	Nozzle blocked	Switch off the device. Take the atomiser out of the medication container and check whether the nozzle below is blocked. Clean as necessary.
	Air tube kinked or blocked	Check the throughput of the air tube. Clean or replace as required.
	Air filter blocked	Clean air filter, replace as required.

Original spare parts and accessories

The following original spare parts and accessories are available from specialist dealers:

- AeroVital plus replacement kit, consisting of: 1 nebuliser, 1 air tube, 1 adult mask, 1 child mask, 1 baby mask, 1 mouthpiece, 1 PEP training attachment, 5 air filters
Part no. 1802501, PZN-12399450, Medical aid code number: 14.99.99.1038

Customer service

The device does not require maintenance. Please note, however, the instructions for changing the air filter on page 12 and for cleaning and care of the device on page 19.

The unit may only be repaired by the manufacturer or by an expressly authorised organisation. Please contact:

UEBE Medical GmbH
Bgm.-Kuhn-Str. 22
97900 Kulsheim, Germany
info@uebe.com
www.uebe.com

Explanation of symbols



This product complies with the Council Directive 93/42/EC from 5 September 2007 regarding medical devices and bears the mark CE 0123 (TÜV SÜD Product Service GmbH).



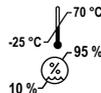
Application part type BF: mouth piece and mask



Device of the protection class II



Please observe instructions for use



Storage and transportation conditions
Ambient temperature -25 to +70 °C
Relative air humidity 10 to 95%



Keep dry



Keep away from sunlight



Manufacturer

IP 21

Protected against solid foreign particles with a diameter of more than 12.5 mm, protection against water droplets

REF

Reference number = item number

SN

Serial number

Composition of the serial number: SN YYWMMxxxxx

YY = Year of manufacture

WW = Week of manufacture (calendar week)

MM = Number of model

xxxxx = Consecutive numbering of the individual devices

Disposal



Electrical appliances must not be disposed of with domestic waste, but should be handed in at the appropriate collection and disposal points.

Cleaning and care of the unit housing

Wipe daily with a clean, dry cloth only.

Do not use any powdered cleaners or soap pads, which may damage the finish.

Cleaning and Maintenance of the Device and Accessories

	Medicine cup	Air tubing	Masks	Mouth piece	Device
Disposable, one time only	X	X	X	X	X
with water only frequency of cleaning	Yes after each use	Yes after each use	Yes after each use	Yes after each use	Yes once a week
with mild detergent frequency of cleaning	Yes after each use	X X	Yes after each use	Yes after each use	Yes once a week
with commercially available disinfectant Cleaning interval	Yes Once a day	X X	Yes Once a day	Yes Once a day	Yes Once a week
Cleaning by decoction (thermal disinfecting) frequency of cleaning	Yes Once a day	X X	X X	Yes Once a day	X X

Cleaning of the accessory parts with water or a mild cleaning detergent

- Disconnect the air tube, nebulizer bottle, mouthpiece and mask.
- Gently twist the nebulizer bottle to open it.
- Rinse the nebuliser bottle, the mouth piece, and the mask with water or a mild cleaning detergent.

- Dry them with clean soft towel or let it air dry.
- Reassemble the nebulizer bottle when completely dry and put these parts in a dry, sealed container.

Cleaning the accessory parts with a disinfectant

- Disconnect the air tube, nebulizer bottle, mouthpiece and mask.
- Gently twist the nebulizer bottle to open it.
- Rinse the nebulizer bottle, mouthpiece and mask with water.
- Wash nebulizer bottle, mouthpiece and mask in warm water and a mild detergent. Then wash them in hot tap water.
- Clean the parts using conventional disinfectants (e.g. isopropyl alcohol 70%). Pay attention to the disinfectant's instructions for use in this regard.
- Rinse the nebulizer bottle, mouthpiece and mask with water.
- Dry them with clean soft towel or let it air dry.
- Reassemble the nebulizer bottle when completely dry and put these parts in a dry, sealed container.

Cleaning the nebuliser unit and the mouthpiece by decoction (thermal disinfecting)

- Remove the air tube, the nebuliser unit, mouthpiece and mask.
- Carefully unscrew the nebuliser unit.
- Rinse the nebuliser unit and the mouthpiece with water.

- Place the nebuliser unit and the mouthpiece in boiling water for a maximum of 10 minutes.
- Carefully remove the parts and rinse with water.
- Dry them with clean soft towel or let it air dry.
- Re-assemble the nebuliser unit when all parts are fully dry and store the parts in a dry, tightly sealed container.

Exchange of the accessory parts

The maximum service life for accessories is restricted to 1 year. Accessories must then be replaced to ensure your inhalation device operates optimally and for hygiene reasons.

Exchange the accessory parts immediately once you recognise any damage to them.

Original spare parts and accessories. See Page 16.

Warranty

During the warranty period of 3 years from the date of purchase we reserve the right either to repair any defect at our expense or to supply a perfect replacement unit. The cost of returning the unit to our factory shall be borne by the sender. UEBE shall refuse to accept return deliveries that have not been paid for by the sender.

Excluded from the warranty are parts subject to normal wear and tear as well as damage caused by non-compliance with the instructions for use, improper handling (e.g. unsuitable power sources, breakages) and/or disassembly of the unit by the purchaser. Furthermore, no claims for damages against us are substantiated by the warranty.

Warranty claims can only be advanced in the warranty period and by presenting proof of purchase. In the event of a warranty claim, the unit must be sent to the following address together with the proof of purchase and a description of the complaint:

UEBE Medical GmbH
Service-Center
Bgm.-Kuhn-Str. 20
97900 Külsheim
Germany

The statutory claims and rights of the buyer against the seller (claims for defect, manufacturer's liability, for example) are not restricted by this warranty.

Please note: In the event of a warranty claim it is essential to attach the proof of purchase.

Domotherm®

vital plus

REF 18025

PZN-12399438

Medical aid code number: 14.24.01.0146

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