

COMMERCIAL REFERENCE MANUAL 2024



bap

Bapo-

®

burbuja de aislamiento portátil





FUNDAMENTAL INFORMATION

The advice of the infectious, emergency and emergency teams of the **Donostia University Hospital**, the support of the **BioDonostia Health Research Institute** and the design and functionality development studies of Rekreando, have made the BAP[®] isolation bubble have characteristics that differentiate it from the insulation bubbles that until now had their space in the sanitary market.

The **immediacy** of its monovolume installation, its **portability, multipositionality** and its possible **reuse** through simple dry cleaning, distinguish it from the units that have existed up to now. And that is where we have worked with professionals to achieve an updated, sustainable product with a greater spectrum of functionality than those available until now.

With this new unit we can isolate a patient in situations and moments that were unthinkable until now. In a means of **transport**, on an **intercontinental flight**, on a **ferry**, on a **Pullman line**. We can minimize the consequences of the collapse of a hospital, of the transmissions from the waiting rooms of health centers, protecting other types of patients and allowing health workers to carry out their work safely and without the discomfort of PPE. Why isolate all the health workers of a hospital or a health center in uncomfortable PPE when we can isolate patients suspected or diagnosed with infectious pathologies? Why annul an ambulance with rigid mountable units when we can have it in a small department of the unit and use it when necessary?.

Its modular comfort inflatable base allows a comfortable situation both mounted on the floor of a hospital and on a chair in a waiting room of a health center. It is no longer necessary for the patient to be in a stressful horizontal position if his symptoms allow him to be more comfortable. Its superior **panoramic design** in a sitting position, added to its pleasant ventilation system, make its habitability very pleasant, and all this does not reduce its effectiveness in the case of a patient with a less benevolent diagnosis, since the bubble has **multi-access to the patient** with a bidirectional **pill box, silicone tubes** for the introduction of cannulas of different diameters and its **structural elasticity even allows direct emergency CPR to be performed in extreme cases**. Its multifunction rings mean that it can be configured for multiple functions according to needs, and its **FFP3 filters with silver nanoparticles** generate comfortable and safe isolation for patients and healthcare professionals. In addition, BAP[®] is fully compatible with diagnostic systems such as scanners and X-rays, configuring it for it.

We are facing a type of device that until today was very inconsistent with the environment and not very sustainable, since they were incinerated once used. The BapoBAP[®] unit has a dry sanitizing system that can be reused in 5 minutes, adheres to a 2nd use program and is produced in disposable recyclable material in the yellow container. In addition, due to its special characteristics, it has been granted a **worldwide patent** and has the **UNE-EN 1789:2021 approval**.



PREPARATION TIPS

Beforehand, we must be aware that we are going to have contact with a suspected or diagnosed patient of an infectious disease, so we will personally protect ourselves in the most optimal way.

- We will take the bubble out of your backpack and spread it out in the place where we decide that we are going to isolate the patient.
 - First of all we will analyze the needs of this to anticipate the configuration.
 - We will start by inflating the necessary modules of the inflatable comfort mattress. Only the seat part if you are going to be seated, or we will inflate all the modules if it is going to be necessary for you to be completely lying on the ground. On a stretcher, the full use of the mattress may not be necessary, but its inflation provides some structural tension.
 - Once we have defined its structure, we will assemble the configuration of the multifunction rings.
 - In the upper right ring we will install the fan, placing the battery inflator in the pocket next to it.
 - The autonomy of the battery in fan mode is around 12 hours.
 - In the upper ring of the left side we will place a filter. It is important when placing a ring with a filter to give it the last turn of tension, and we will recognize that it is well installed by the drum effect that the filter makes when hitting it with your fingers.
 - The chest rings are prepared for the placement of handling gloves, but if they are not necessary, either blind covers or filters can be placed if the environment is warm. This will generate more airflow and more aeration.
 - It is not superfluous to always place a silicone track in one of the rings at hand level to have it at a time of need.
 - Once the defined configuration is assembled, carry out a general check.



· START THE FAN AND CHECK THAT ALL THE RINGS ARE CORRECTLY THREADED, THAT THE MAT IS CORRECTLY INFLATED, THAT THE VALVES ARE RETRACTED AND THAT WE HAVE ACHIEVED A PERFECT SEALING.

IF EVERYTHING IS CORRECT, THE FILTERED AIR FROM THE FAN WILL MAKE THE STRUCTURE LOOK SLIGHTLY BULGED.

· BE AWARE THAT THE INCORRECT PLACEMENT OF ANY ELEMENT DISRUPTS THE MAIN NEED OF THE BUBBLE. THE INSULATION.

- We can now proceed to introduce the patient in the bubble. It's time to protect ourselves and extreme precautions.

PATIENT INTRODUCTION

Lying position

- For the position on the ground or lying down, the neck ring is not necessary. Removing it will improve the introduction of the patient and allow him/her to be more comfortable.
- If he can do it on his own, invite him to sit at the height of the middle of the unit, and introduce his legs. Then introduce the upper body, finally resting the head on the inflatable pillow, correct posture and secure it with the straps inside. We can now close and isolate the patient.
- If it cannot be introduced by its own means, we will use the technique of changing the stretcher from a table or from another stretcher, securing it and finally isolating it.

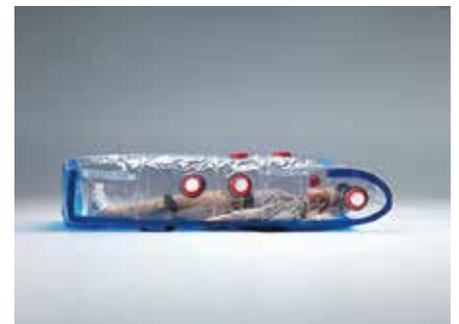
Sitting position

- We can do it in two ways, either lay it down, secure it and help it get up (holding it by the straps) until sitting in the place we want, or secure the bubble to the seat with the outer straps, open the zipper and help it get into it. First the feet and then the rest of the body, inserting the head in the hoop that will generate a comfortable visual space.

Standing position

- This is the most extreme position. It is expected for a situation of hospital collapse, a saturated health center waiting room, a field hospital, or at a given time having a closer contact in a visit to an infected patient. A support point on the back will always be required to facilitate optimal vertical support.

Once we have the isolated patient, we can sanitize the outside of the bubble with some hydroalcoholic solution, and later we can finally relax our personal protection measures.



POSSIBLE SITUATIONS

The patient becomes nervous. We will invite you to calm down and we will be able to administer some tranquilizing medication through the pillbox next to your head. We open, introduce the medication, close and invite you to open the thread of the pill box and take the medication. We can provide you with fluid through a cannula through the silicone tubing. **Attention! When using the silicone for vias, never make a cut eliminating part of the material, make a straight cut of the diameter of the cannula and insert it. This will mean that if we have to remove it, the silicone will close and maintain the tightness of the unit.**

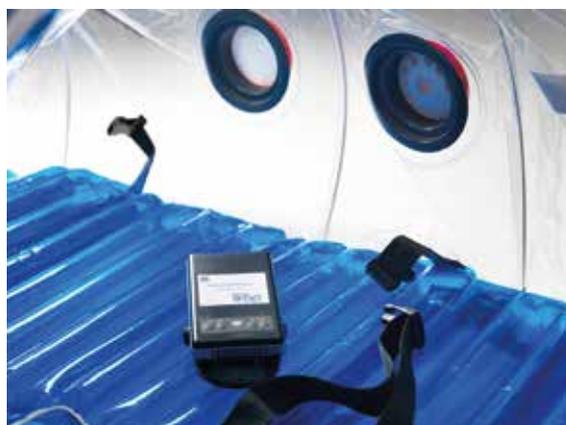
The patient goes into arrest and we do not have the glove kit installed. The elasticity of the structure allows emergency CPR to be performed from the outside, without opening the unit and without losing insulation.

The patient intends to vomit or urinate. These are extreme cases, but we will be able to provide you with a plastic bag through the lid of the pillbox keeping the insulation.

ONCE USED

Once used, we will proceed to sanitize the unit. If it is dry and free of fluids, we will open the unit and insert the sanitizer in approximately half of the bubble, following the instructions we will start it and close the unit* so that the surface and air sanitization process can be carried out. Once the time has elapsed (5 min.), we will sanitize its exterior with some hydroalcoholic solution, at least 10%, we will open the bubble, let it air for a few minutes, we will deflate the comfort mattress completely with the deflator device and we will store the unit in its backpack ready for upcoming services.

If there are traces of fluids, it will be necessary to carry out a previous sanitization with soap and water and after drying, we will carry out the sanitization as previously described.



We recommend charging the batteries of the inflator/deflator/battery before storage and usually check their charge.

Although the sanitizing device has an emission of 0.1 pmm, which is within the limit allowed by the OSA occupational risk standards, we advise you not to be near the unit while the sanitizing process is being carried out. If it is done in an interior room, we will leave it for the minutes that it lasts and if it is done outside, we will maintain a reasonable safety distance until the process is finished, we will always use an FFP2 mask.

What if for various reasons we could not perform a dry cleaning? Well, we should do a wet sanitization that is a more laborious process but that allows its sanitization and reuse as well.

We introduce the bubble without closing its zipper in the transport backpack, we close the zipper of the backpack, we pour through the valve with a red lid in the upper part of the front 9 parts of water and 1 of 96° alcohol (36 liters of water and 4 liters of alcohol), we shake so that all the parts of the bubble lodged inside are impregnated and let it rest for 120 min. Once this time has elapsed, we remove the bubble, discard the liquid and let the unit dry in a dry and shady place. Once dry, we store the device and it is ready for later use.

MAINTENANCE AND STORAGE

To store, deflate the comfort mattress with the deflation port on the suction port of the device, disassemble the entire configuration of the multifunction rings and store the accessories in the backpack pocket. The red multifunction rings accompany the bubble in its main body. Always store in cool, dark places, away from fluids that emit strong odours. Do not place next to motors or units that emit heat. We will provide the unit with a longer useful life, if we periodically aerate it so that the material does not stiffen. And if we take the opportunity to check that the inflator/deflator batteries remain charged, we will avoid surprises when the emergency occurs.

* The sanitizer needs to be plugged into the mains for it to work, so we will remove the cable through the minimum space that leaves the zipper almost completely closed.

MAIN PROBLEMS AND SOLUTIONS

What if I get a cut in the bubble? A simple transparent packing tape would serve as an emergency repair to temporarily maintain the seal. For a more professional repair, request information from your official distributor to request a repair quote.

What if I puncture the mat? The unit would maintain its tightness, although it would lose its comfort in some of its installations. For a more professional repair, request information from your official distributor to request a repair quote.

What if my sanitizer or fan breaks down? Request information from your official distributor.

What if I consume all the filters or silicone tracks? Request them from your official distributor.

MANDATORY OPENING OF THE UNIT WITH THE PATIENT INSIDE

In the particular case that it is necessary to open the bubble with the infected patient inside, either because he cannot be revived, because he panics or for another particular reason, we will protect ourselves in conditions, and before opening the zipper, we will turn off the fan to minimize the ripple effect caused by the air pressure inside. This will reduce the expansion of unhealthy air outside.

AVAILABILITY OF MULTIMEDIA MATERIAL

All official distributors of BAP[®] can have multimedia material by accessing the link:

https://drive.google.com/drive/folders/17QP0H4QlBk_Gqa1lIalccvPk-hosfwGY

You can also have videos on the brand's YouTube channel at the link:

https://www.youtube.com/channel/UCrlze_Wglg_37FPjBbID9eA

More information on the brand's website: www.innobap.com

