Instructions for use

# PAX Rescue Bag RTS AIR

Status: 12|2022|002

# Instructions for use

# PAX Rescue Bag RTS AIR

**Product:** **PAX Rescue Bag RTS AIR**

**Item No:** 146110801

**Manufacturer:** X-CEN-TEK GmbH & Co. KG
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**Version:** 2.0
**Status:** 22.12.2022
(Date of last revision)

## Intended use / purpose

The PAX Rescue Bag RTS AIR is used for transporting a patient lying down.
With the rescue bag the patient can be

a: carried by persons;
b: by winch of a helicopter;
c: by a rope-supported rescue system.

The patient can also be transported in the rescue vehicle (vehicle, water- or aircraft).
For the use of the PAX Rescue Bag RTS AIR, the rescue personnel must be specially trained on this product.

**⚠ Attention**

**Training in the use of this product is essential before use.**

## Liability

Before using the PAX Rescue Bag RTS AIR for the first time, it is mandatory to read and understand the Instruction for use carefully.
The PAX Rescue Bag RTS AIR may only be used by persons in good physical and mental condition.
They must be trained in the safe use of the PAX Rescue Bag RTS AIR and have the necessary expertise or be under the supervision of such a competent person.

**⚠ Attention**

**Activities in which this equipment is used, are inherently dangerous.**

**For actions and decisions the user is himself responsible.**

## Before using this equipment:

- the Instruction for use must be fully read and understood,
- the user is properly trained to use the equipment correctly, and trained in the proper use of the equipment,
- the user must become familiar with the equipment and become familiar with the capabilities and limitations, and
- the user understands and accepts the risks associated with the use and accept them.

**Failure to heed even one of these warnings can result in serious injury or even death!**

# Instructions for use PAX Rescue bag RTS AIR



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## 1) Designation of the components



(1) Storage compartment for hangers

(2) Storage compartment for carrying handles

(6) Hedging loops

(9) Insulation blanket

(10) circumferential zipper

(11) Chest harness patient

(15) Storage compartment for vacuum pump

(16) Feedthrough hose vacuum pump

(17) Anti-slip stretcher

(21) Slide stop

## 2) Before use

The complete PAX Rescue Bag RTS AIR as well as all additional protective equipment and its individual parts must be checked for damage due to deformation, cracks or wear before use. The complete function must be given. In case of doubt regarding the safe condition, the product must be immediately withdrawn from use.

## 3) Use of the PAX Rescue Bag RTS AIR

### A) Spread out rescue bag

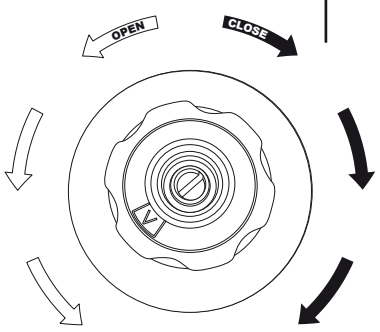
Spread out the PAX Rescue Bag RTS AIR on a flat surface near the patient.
Now open the rescue bag using the all-round zipper (10) and the zippers (18+19).

### B) Prepare vacuum mattress

Make sure that the PAX Vacuum Mattress AR2 is completely unfolded and not vacuumed. Make sure that the vacuum valve is closed.

Front view

Rear view




Passing the hose connection from vacuum pump to vacuum mattress in the storage compartment provided for this purpose at the end of the rescue bag.

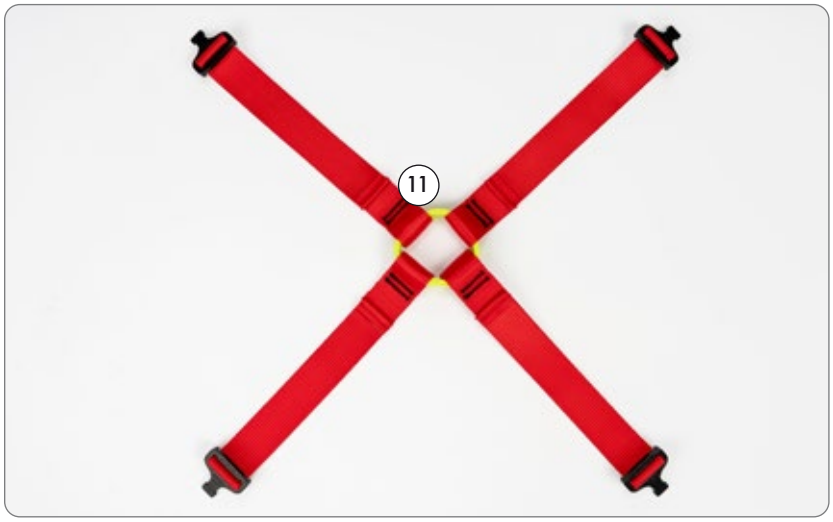
C) **Patient positioning**

If the situation requires, you can remove the vacuum mattress from the rescue bag in order to position the patient optimally on the vacuum mattress.
Then model the vacuum mattress around the patient to achieve a stable and comfortable position.

**⚠ Attention**

**Do not shape the vacuum mattress around the head from above or around the feet from below, as this may result in unwanted pressure on the spine.**
**Now vacuum the air and reshape the mattress in the process.**

The patient can now be transferred to the PAX Rescue Bag RTS AIR on the vacuum mattress. Now put on the chest harness (11) integrated in the rescue bag.
To do this, close all the buckles and pull the fixation straps tight.




Chest harness patient


Chest harness patient closed

**D) Establishment of readiness for transport**

Now close the rescue bag using the circumferential zipper (10).
Then use the right-hand patient zipper (18), which is located at the head opening, to close the head opening.

For particularly large persons, the two central compression zippers at the head opening can remain open.

If too much material protrudes, you can also close the two zippers to tighten the material.

**E) PAX Rescue Bag RTS AIR - Warming Blanket**

In cold weather conditions it is possible to install an insulation blanket on the inside of the PAX Rescue Bag.

For this purpose, the supplied insulation blanket can be attached to the inside of the lid with the press studs.

To protect the patient from the downwash of the helicopter, a protective cover can be installed in the head area.

This is inserted into the head opening of the rescue bag using a zipper and the integrated snaps.

To treat the patient in the helicopter, the central patient access (4) can be opened.

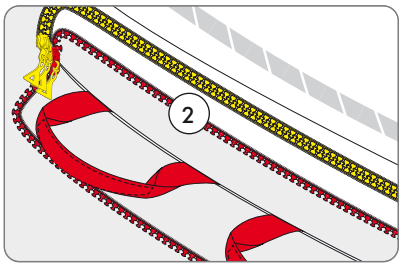

For optimum adjustment of the head opening, there is a compression
The front side of the rescue bag is equipped with a compression cord (8).

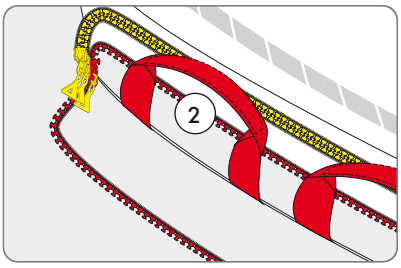


The compression cord (8) reduces the width of the head opening.
To make the adjustment, open the zipper compartment and take out the cord.
By pulling the ends of the cord, the desired compression of the area can be made.
Use the integrated tanka to hold the cord in place. Then stow the remaining cord in the zipper pocket.

**F) Patient transport by land**

There are 5 carrying handles (2) on both sides for transporting patients by land.
To do this, open the ■ red zippers running along the sides and take out the carrying handles.




## G) Patient transport by air

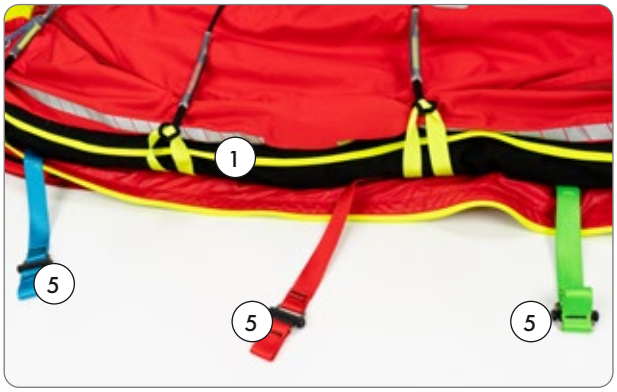
There are pre-installed hangers (1) on both sides for transporting patients by air. To do this, open the yellow zippers running along the sides and take out the two hangers. There is a delta screw link at the end of each hanger.
The individual suspension cords must be threaded into the delta screw link before first use.

The delta screw link must then be closed with 3 Nm torque. Now close and compress the color-coded compression straps (5). This compresses the rescue bag and thus prevents it from „inflating" during transport in the air. Here, the color code of the straps must be observed. The colored straps must be threaded into the counterparts of the same color with buckle.

Threading the compression straps


The patient is „ready to fly"

Hook both delta screw links into the corresponding carabiner. Make sure that both hangers are not twisted or damaged and that the delta screw links are tightly closed and correctly hooked into the carabiner. Also check that the carabiner is securely and tightly closed. You can now hang the rescue bag on the winch of your helicopter.

**Compression head area / zipper lock**

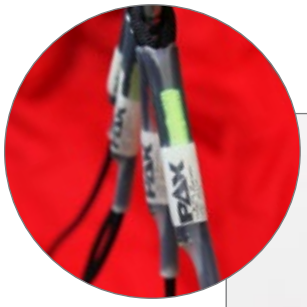
To compress protruding material in the head area, there are compression straps on both sides of the yellow zipper compartment. The small stainless steel carabiner at the end of the yellow webbing is hooked into the blue loop, of the zipper located on the chest (10 + 18). Now pull on the other end of the yellow webbing to compress the excess material in the head area. To release the compression again, operate the adjustment buckle.


Head compression open


Head compression closed

Passage of the hanger through the color-coded loops

Hangers fixed



## H) PAX Rescue Bag RTS AIR lift

Before lifting the rescue bag, check the complete securing chain again and make sure that all connections are correctly hooked in.

For transporting the rescue bag to the patient, it can be suspended in the folded state from the two textile securing eyelets (6).

To prevent the rescue bag from rotating in the air, you have two options.
Option 1 is to secure the bag with a rope. This rope is attached to one or more of the three eyelets provided for this purpose on the underside of the PAX Rescue Bag and held by a person on the ground. This can prevent rotation of the bag during the lift.

Alternatively, the accompanying rescuer can stabilize the rescue bag using an adaptable sail (13).
To do this, the optional sail (Item No.: 160900301) is fixed to the upper cover of the foot end using the black buckles (14). Here, the yellow compression strap must be guided through the small opening in the sail.
Make sure that the handle of the sail points towards the patient's head. The rescuer can counteract the rotation by moving the sail.



I) **Secure the rescue bag in the helicopter against sliding**

To secure the rescue bag on the stretcher in the interior of the helicopter against slipping, the fixing loops must first be fastened to the stretcher using an anchor stitch knot. The rescue bag can then be fixed to the stretcher using the integrated buckles (17) and secured against slipping.

**⚠ Attention**

**Securing the rescue bag via the loops on the stretchers of the helicopter, does not replace the securing of the patient by means of the restraining straps of the stretcher.**

Insertion of the fastening buckle for attachment to the stretcher

Loop in the fastening strap for attachment to the stretcher

J) **Patient care during the flight**

In order to be able to optimally care for the patient during the flight, it is possible to open the head section and the upper part of the top cover. To do this, loosen the previously tightened adjustment option at the head end and the two yellow compression straps at the side of the head. Now open the patient zipper (18) on the right side as well as the all-round zipper (10).

Alternatively, only the patient access (4) can be opened.

Finally, loosen the two crossed, color-coded compression straps in the chest area.

You can now fold down the top cover towards the foot end and treat the patient.

## 4) General information

Read these instructions before using the PAX Rescue Bag RTS AIR and make sure you understand them. The instructions must always be available in the respective national language. The instructions must be made available to the user.

## 5) Technical data PAX Rescue Bag RTS AIR

| | |
|---|---|
| Width: | 50 cm |
| Length: | 210 cm |
| Height: | 55 cm |
| Weight without packaging: | 7,8 kg |
| Max. Patient weight: | 200 kg |

### Operating conditions

| | |
|---|---|
| Ambient temperature: | -50 °C to +50 °C |
| Relative humidity: | 0 % to 95 % non condensing |

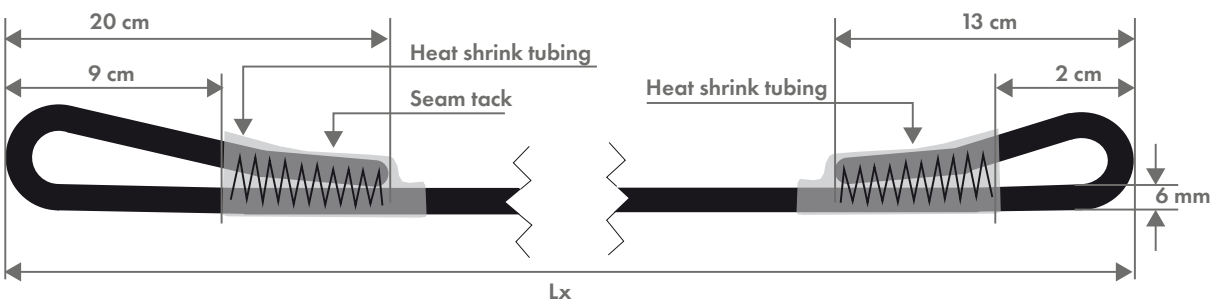
### Storage

| | |
|---|---|
| Temperature: | -50 °C to +50 °C |
| Relative humidity: | 0 % to 95 % non condensing |

### Hanger line 6 mm

| | |
|---|---|
| Diameter: | 6 mm |
| Weight per meter: | 25 g/m |
| Maximum traction: | 15 kN |
| Elongation at max load: | 4,5 % |
| Color: | black |
| Core: | Aramid |
| Sheath | Polyester |

| **Color:** | **Length (Lx):** |
|---|---|
| yellow | 107,5 cm |
| red | 96 cm |
| green | 88 cm |
| blue | 98 cm |
| orange | 117 cm |



**Steel Strong Triple Carabiner**

| | |
|---|---|
| Weight: | 267 g |
| Breaking load: | Breaking load lengthwise: 50 kN<br>Breaking load transverse: 15 kN<br>Breaking load open: 15 kN |
| Color: | silber |
| Certification: | EN 362:2004 |
| Closure type: | Triple Lock-Verschluss |

**Delta Schraubglied**

| | |
|---|---|
| Weight: | 85 g |
| Breaking load: | Breaking load lengthwise: 27 kN<br>Breaking load transverse: 10 kN<br>Breaking load open: 9 kN |
| Color: | silver |
| Certification: | CE EN 362 type Q |
| Closure type: | Screw link, 3 Nm tightening torque |

## 6) Information label

(A) Serial number and associated barcode

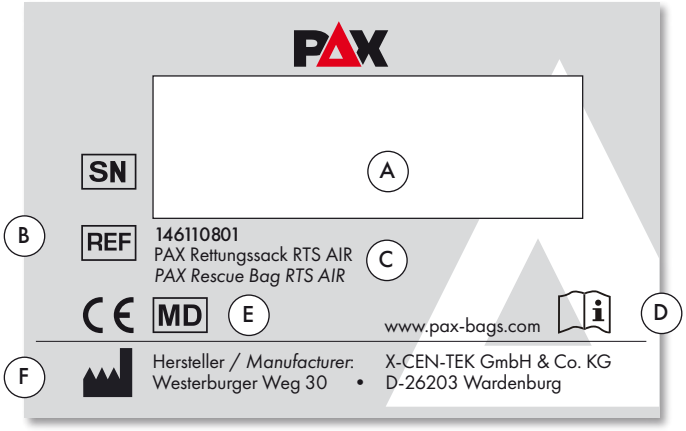
(B) Item No.

(C) Item description german
Item description english

(D) Note icon (read user notes!)

(E) Note icon (item complies with CE standard)

(F) Note icon (manufacturer)
Manufacturer name and postal address



## 7) Compatibility

The rescue system is made up of the individual components shown and may only be used with tested and approved components within the operating conditions described, **as non-compliance may result in danger to life and limb.**

## 8) Safety requirements

The instructions must be strictly observed to protect the user and the equipment!
The product labeling must be completely legible!
It is essential that the user checks all fastening and/or adjustment parts regularly during use.

- Operating temperature –50°C to +50°C
- store and transport dry and protected from light
- Avoid contact with aggressive substances
- Observe danger due to edges and rough surfaces
- Observe danger from electrical equipment
- Observe danger due to moving machine parts
- Avoid heat and flames

## 9) Inspection and lifetime

A regular inspection according to country-specific requirements is necessary.

In Europe, an annual inspection by an expert is required.
Service life before first use: 2 years with proper storage.
Service life from first use: 5 years with proper storage.
The discard life depends on the product, its frequency of use and the external conditions of use.
Every piece of equipment loses durability in the course of its service life. This is caused by UV rays, heat, chemicals, aggressive atmosphere and dirt. accelerated.

An inspection of the complete system and its individual components must be carried out at least once a year according to the regional requirements and documented by a qualified person.
A control card is available for this purpose under point 18).

| | |
|---|---|
| Before each operation | Visual inspection, functional test |
| After each operation | Cleaning, disinfection, function test |
| Annual | Annual expertise test, functional test |

## 10) Maintenance and storage

The PAX Rescue Bag RTS AIR must be checked for damage and functionality before each use.
In addition to the pure rescue bag, also check the hanger and the carrying handles.
If you find any damage to these components, replace them immediately or send the rescue bag for repair.
Check the vacuum mattress of the rescue bag for leaks.

**The mattress can be checked for leaks using the following method:** Cover the entire mattress with soapy water and blow a little air into it using a pump.
Do not inflate to the point of bulging! If bubbles appear in any part of the mattress, it is a leak and must be repaired. Use the PAX vacuum repair kit for this purpose.

If the damage is too large, please send the mattress to PAX for repair.

## 11) Troubleshooting help

| Error occurred | Solution |
|---|---|
| The rescue bag inflates excessively | a) Check if the air outlets at the lower end of the lid are free.<br>b) Check if the compression straps are correctly fastened.<br>c) Check if the head opening is adjusted optimally |
| The rescue bag hangs crooked | a) Check whether one of the suspensions is twisted.<br>b Check if the patient is properly bedded |
| The antirotation sail is loose | Check the fastenings of the sail and adjust it |
| All other errors | Contact PAX Customer Service |

## 12) Cleaning

The PAX Rescue Bag RTS AIR can be washed by hand or in the machine at max. 40°C. Do not spin dry.
When machine washing, use a wash bag to minimize mechanical wear.

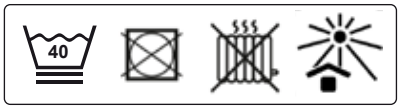
After washing, the rescue bag must be rinsed well with clear water! When machine washing, perform an additional rinse cycle with clear water.

Dry the rescue bag and hangers at room temperature. Never put in a tumble dryer, dry in direct sunlight or near radiators!

**⚠ Attention**

**Before washing, remove the hangers on both sides. These must not be washed in the washing machine.**

**For cleaning, use lukewarm water (max. 40°C!) and if necessary Eltra 40 5-8 g/l.**




## Approved detergent for PAX Rescue Bag RTS AIR

| | |
|---|---|
| Eltra 40 5-8 g/l | Manufacturer: Ecolab |

## Approved disinfectants for the PAX Rescue Bag RTS AIR

| | |
|---|---|
| Terralin 2% | Manufacturer: Bode |
| Terralin Protekt 0,5-2 % | Manufacturer: Schülke & Mayr |
| Dismozon 0.5% | Manufacturer: Schülke & Mayr |

## 13) Modifications, repairs

Modifications and repairs may only be carried out by the manufacturer (does not apply to the attachment of spare parts).
If modifications or repairs are carried out independently on the PAX Rescue Bag, the operating permit will become invalid.

## 14) Product disposal

Follow the regulations in force in the country of use and the waste disposal procedures of the reference hospital facility for proper disposal.

## 15) Used pictograms and symbols

Manufacturer:
X-CEN-TEK GmbH & Co. KG

Observe instructions for use

Observe warning notice


do not wash over 40°C

not spin

do not put in dryer

do not dry on the heater

no direct sunlight

## 16) Customer service

If you have any questions about your product or experience any problems, please contact PAX Customer Service:

**X-CEN-TEK GmbH & Co. KG**
Westerburger Weg 30
26203 Wardenburg / Germany

Phone: +49 4407 - 7 14 76 0
Fax: +49 4407 - 7 14 76 99

Web: www.pax-bags.com
Email: info@pax-bags.de

## 17) Control card

This control card must be completed in full by the PPE and medical devices expert during the annual expert inspection. The checklist makes no claim to completeness of the inspection criteria and does not exempt the expert from assessing the overall condition.

## Control card

| | |
|---|---|
| Product designation | |
| Serial No. | |
| Date of manufacture | |
| Date of purchase | |
| Date of 1st use | |
| Discard product on | |

| Year | Date | Name + signature of the qualified Person | Detected damages | Passed | Not passed | Measures |
|---|---|---|---|---|---|---|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |

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