

CATALOGUE

RedVac EMS Vacuum Immobilisation



Contents

	Page
<u>The Company</u>	3
<u>The RedVac-System</u>	4
<u>Mattress with Integrated Head-Bloc</u>	5
<u>Vacuum Mattresses</u>	6
<u>Vacuum Extremity Splints</u>	7-8
<u>Vacuum Immobiliser for Scoop-Stretcher and Back-Board</u>	9-10
<u>Vacuum Extrication Device</u>	11
<u>Pediatric Vacuum Immobilisation</u>	12
<u>Thermo Rescue Sack</u>	13
<u>Rescue Sack for Helicopter Rescue</u>	14
<u>Accessories</u>	15

Developed and manufactured in Austria in accordance with Quality management system: ISO EN 9001:2000 & ISO EN 13485:2003



RedVac products are made 850 meters above sea level in the middle of the Austrian Alps by the experienced and meticulously working Kohlbrat & Bunz staff. People living in the Alps know all too well that products used under the extreme conditions of alpine rescue work have to work perfectly. To meet these rigorous demands RedVac products are developed in close cooperation with the mountain rescue teams. Outstanding quality and construction combined with selection of the best materials enables the RedVac products to perform flawlessly under the most extreme and demanding circumstances. To be able to meet the high standards of the alpine rescuers many innovative solutions were invented:



- **Patented Multi-Chamber-System**
The Multi-Chamber-System keeps the internal polystyrene beads in their correct position and eliminates the need for difficult and time consuming manual spreading of the beads. This enables fast, safe and easy application in all situations, simple handling and lowest possible weight and size for easy transportation and storage.
- **Biocompatible exterior material**
To achieve outstanding durability, abrasion resistance, tightness, easy clean up, comfort and safety for the patient a special biocompatible plastic film was chosen. It makes it possible to use the RedVac products in a wide temperature range, from +80°C down to -40°C.
- **Attachment of handles and straps**
The special properties of the material permitted the design of a unique attachment system for straps and handles. It keeps the bottom side free of straps which otherwise could get tangled up and get stuck in obstacles. This unique system allows the user to freely position straps and handles as needed. It makes them easily removable for cleaning or replacement and eliminates areas that can trap fluids.
- **The vacuum valve**
The valve is easy to use, even when wearing gloves. It closes automatically when suction stops preventing loss of vacuum if slipping with the pump.
- **A new "first in the world", a vacuum immobilisation system for scoop-stretcher and back board**
The difficulty to immobilise patients on a back board and the pain especially during longer transports are now history. Unlike the familiar head blocs Red Vac's vacuum head immobiliser contours automatically to the patient's head without exerting pressure. The body vacuum supports contours to the body and the system keeps the patient perfectly immobilised, warm and comfortable.



The RedVac System



Handle & Strap System

Cushioned, heavy duty handles are easy on the hands. Repositioning, cleaning and replacement is easy and quick.



Colour coded straps are adjustable from both sides. Easy to remove for reposition, cleaning or replacement.



Optional openings for trolley safety belts in neck area.

Biocompatible Exterior Material

Rugged, durable, colour fast, abrasion and puncture resistant exterior material. Biocompatible on patient's side.



Multi-Chamber-System

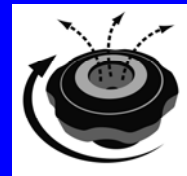
Patented multi chamber system with up to 64 chambers keeps the beads in their right position which allows for quick and easy application also in difficult and confined areas.



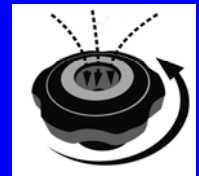
Proven, robust valve that can be operated with gloves. Closes automatically when suction stops. No risk of losing vacuum if slipping with the suction pump.



Optional label with instruction how to operate the vacuum valve:



TO EVACUATE:
Turn valve to the right. Evacuate.



TO RELEASE:
Turn valve to the left – max. 1 turn,

Compact size

Small storage space needed. Mattresses with 88cm width: 80 x 45 x 25 cm.



Label with CE-Mark, Article-, Serial number and date of manufacture.



Optional label with customer logo for easy identification. Maximum size 30 x 20 cm.



RedVac EMS Vacuum Mattresses

With the model *VM 200* RedVac has reinvented the EMS Vacuum Mattress!

NEW !



The innovative design of this vacuum mattress makes it the optimal full body immobilisation system. In addition to all other RedVac features and benefits the VM200 offers superior immobilisation through its integrated head and shoulder immobilisation and optimal safety in the ambulance through the free passage in the neck area for unrestricted use of the trolley's safety belts.

The immobilisation of the head is without external pressure and is gentle and comfortable for the patient and the handling is easy and fast for the rescuer.

Ears remain free for unrestricted hearing and inspection.




Free passage in the neck area permits the unrestricted use of the trolley's safety belts.


EMS-Vacuum-Mattresses

- Multi-Chamber-System for fast, safe and easy application
- Removable straps and handles
- Durable exterior material of special PU. PVC and Latex free
- X-ray-, CT-, und MRI-compatible. Biocompatible exterior material.
- CE certified

Body shaped

	VM01 Width head/middle/foot: 40cm/88cm/50cm Length: 200cm Weight: approx. 6,7kg
	VM03 Width head/middle/foot: 50cm/88cm/50cm Length: 200cm Weight: approx. 6,7kg

Body shaped compact size for helicopter use

	VM08 Width head/middle/foot: 40cm/78cm/40cm Length: 195cm Weight: approx. 6kg
	VM09 Width head/middle/foot: 40cm/60cm/40cm Length: 195cm Weight: approx. 5kg


Body shaped with integrated head immobiliser and openings in the neck area for optimal use of the trolley's safety belts

	VM200X05 with removable neck stiffener VM200X06 with non-removable neck stiffener Width head/middle/foot: 40cm/88cm/60cm Length: 200cm Weight: approx. 7kg
	VM201X08 with removable neck stiffener VM201X09 with non-removable neck stiffener Width head/middle/foot: 40cm/100cm/60cm Length: 210cm Weight: approx. 7kg

Slightly shaped at head and foot end

	VM620 Width head/middle/foot: 60cm/60cm/60cm Length: 200cm Weight: approx. 5kg
	VM720 Width head/middle/foot: 70cm/70cm/70cm Length: 200cm Weight: approx. 6kg
	VM10 Width head/middle/foot: 80cm/88cm/80cm Length: 200cm Weight: approx. 7kg
	VM8021 Width head/middle/foot: 80cm/100cm/80cm Length: 210cm Weight: approx. 8kg
	VM8121 Width head/middle/foot: 80cm/108cm/80cm Length: 210cm Weight: approx. 8,5kg
	VM8122 Width head/middle/foot: 80cm/108cm/80cm Length: 220cm Weight: approx. 9kg

With openings in the neck area for optimal use of the trolley's safety belts

	VM11620 Width head/middle/foot: 60cm/60cm/60cm Length: 200cm Weight: approx. 5kg
	VM11720 Width head/middle/foot: 70cm/70cm/70cm Length: 200cm Weight: approx. 6kg
	VM11 Width head/middle/foot: 80cm/88cm/80cm Length: 200cm Weight: approx. 7kg
	VM1101 Width head/middle/foot: 80cm/100cm/80cm Length: 210cm Weight: approx. 8kg
	VM1111 Width head/middle/foot: 80cm/108cm/80cm Length: 210cm Weight: approx. 8,5kg
	VM1112 Width head/middle/foot: 80cm/108cm/80cm Length: 220cm Weight: approx. 9kg

EMS-Vacuum Extremity Splints

- Multi-Chamber-System for fast, safe and easy application
- Replaceable and washable straps. Easy to reposition. Adjustable from both sides
- Quick and easy clean up
- Bio-compatible, durable and pleasant outer material of special PU. PVC- and Latex free
- X-ray-, CT- and MRI-compatible
- CE certified



Optional strap systems

Red stripes to attach and position removable straps with Buckles



Red stripes to attach removable loop straps. Non-removable Hook straps welded onto the splint .
Or inverse



Cleets to attach removable straps with Buckles








Red stripes to attach and position removable wrap-around Hook & Loop straps



Non-removable Hook-and-Loop straps are welded onto the splint


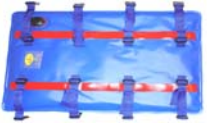




Angulate shape




	<p>VS67 Wrist Splint 4 straps Width: 30cm Length: 35cm Weight: approx. 0,5kg</p>
 	<p>VS63 Arm/Ankle Splint 5 straps Width top/bottom: 70cm/43cm Length: 56cm Weight: approx. 0,9kg</p>
 	<p>VS65 Leg Splint 5 straps Width top/bottom: 70cm/64cm Length: 103cm Weight: approx. 1,9kg</p>



Standard straight design with strap adjustable from both sides

	<p>VA14 Arm Splint 4 straps Width, top/bottom: 50cm/30cm Length: 67cm Weight: approx. 0,9kg</p>
	<p>VK15 Wrist/Ankle Splint 4 straps Width: 47cm Length: 57cm Weight: approx. 0,9kg</p>
	<p>VL21 Leg Splint 5 straps Width top/bottom 70cm/40cm Length: 110cm Weight: approx. 1,9kg</p>
	<p>VL18 Leg Splint 5 straps Width top/bottom 70cm/45cm Length: 135cm Weight: approx. 2,1kg</p>

Pediatric Splints

	<p>VS67 Arm splint 3 straps Width: 30cm Length: 35cm Weight: approx. 0,5kg</p>
	<p>VS56 Arm Splint, angled 4 straps Width top/bottom: 50cm/28cm Length: 42cm Weight: approx. 0,6 kg</p>
	<p>VS58 Leg Splint 4 straps Width top/bottom: 38cm/25cm Length: 56cm Weight: approx. 0,7kg</p>

New ! EMS-Vacuum-Immobilisation for the Back Board and the Scoop Stretcher

- Multi-Chamber-System for fast, safe and easy application
- Solid and comfortable immobilisation of head and body
- Protect against hypothermia



The Head Immobiliser

- The vacuum head immobiliser adjusts automatically to any head shape and size
- Solid and comfortable immobilisation of the head
- The ears remain free for unrestricted hearing and inspection.
- Positioning of immobiliser and patient is quick and easy



On the back-board



Step 1



Step 2



Step 3

On the scoop-stretcher



Step 1



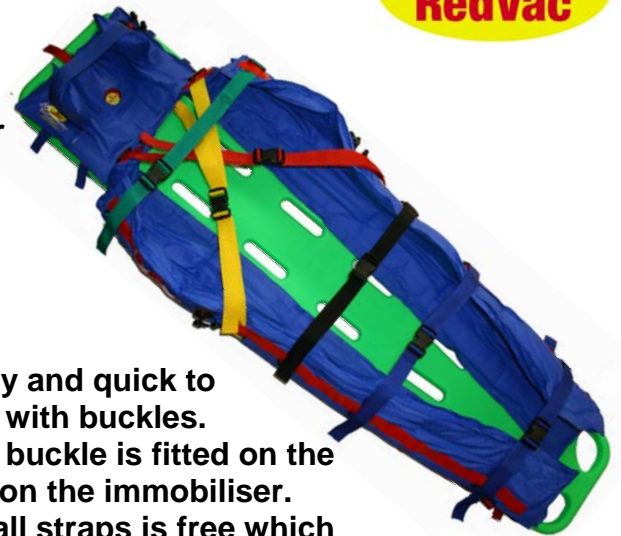
Step 2



Step 3

The Body Immobiliser





consists of a right and left part.
The Multi-Chamber-System keeps the beads in their correct place and allows fast and easy application.



It connects easy and quick to the back board with buckles. One part of the buckle is fitted on the board and one on the immobiliser. Positioning of all straps is free which makes it easy to connect the immobiliser to the back board.



The shoulder flaps prevents the body from moving towards the head and thereby causing pressure on the cervical spine.

	<p>VMS300LR Body Immobiliser Left and right: Width: 40cm Length: 154cm Weight: 1,8kg</p>
	<p>VK98X07 Head Immobiliser with GP11 base plate Width: 38cm Length: 31cm Weight: 0,7kg</p>
	<p>VK98X07 Head Immobiliser with GP08 base plate Width: 38cm Length: 31cm Weight: 0,7kg</p>
	<p>VK94X09 Head Immobiliser with buckles for attachment Width: 38cm Length: 31cm Weight: 0,7kg</p>

Vacuum-Extrication-Device, the solution for your extrication challenges!



- Multi-Chamber-System for easy, comfortable and rapid immobilisation
- The integrated head immobilizer adjusts to the patient's head and upper body length. It stays in position even if the vest is moving up or down on the patient
- Fits most patients – pregnant – overweight – tall – short No problem
- Thin and slides behind the back of the patient easily
- Replaceable and washable straps, double sided adjustable
- Quick and easy clean-up
- Very puncture resistant, durable and pleasant cover material of special PU. PVC- and Latex-free
- X-ray-, CT- and MRI-compatible
- CE certified



Ears remain free for inspection and unimpaired hearing



The head immobilizer contours to any head shape



The integrated head immobilizer may slide up and down 9cm adjusting to the length of the patient and movements of the vest



VED25X01

Width head: 40cm

Width middle: 88cm

Length: min. 85cm, max. 89cm

Weight: 2,5kg

RedVac Paediatric Immobilisation



- Easy and fast application
- Comfortable without pressure points
- Protection against hypothermia
- Quick and easy clean up
- Durable and pleasant exterior material
- X-ray- CT- and MRI- compatible
- CE certified

The ears remain free for unimpaired hearing and inspection.

The integrated head immobiliser as well as the body immobilisers contours to the child's head and body without any pressure points.



The Patient remains immobilised also in lateral position.



Not the slightest bending. The cervical area as well as the whole body remains stable.



Standard Vacuum Mattress

	<p>VM712 3 straps 4 handles Width: 70 cm Length: 120cm Weight: 3kg</p>
--	--

Body shaped vacuum mattress with integrated head immobiliser and openings in the neck area for optimal use of the trolley's safety belts

	<p>VM202 5 straps 4 handles Width head/middle/foot: 40cm/70cm/45cm Length: 120cm Weight: 3kg</p>
--	--

Vacuum Head and Body Immobiliser for the Paediatric Back Board

	<p>VK95 Head Immobiliser Width/Length: 38cm/26cm Weight: 0,5kg VMS301LR Body Immobiliser Width/Length: 33cm/96cm Weight: 1kg</p>
--	---

TRS Thermo Rescue Sack

Ideal for usage with Vacuum Mattress

- Water-repellent and rugged material
- Designed for easy access to the patient
- 10 carry handles
- Undersurface with Anti-Skid stripes
- Zipper and Hook-and-Loop closing for fast handling and easy access to the patient
- No additional blanket necessary
- User identification marking available
- CE certified



Length: 200 cm, Width: 60 cm, Weight: 2,5 kg



Easy access to the patient



Undersurface with
Anti-Skid stripes

BRS Heli Rescue Sack

Ideal for usage with Vacuum Mattress



Anti-skid undersurface



Pocket to stow straps



- Optimised for rescue with helicopter and use with vacuum mattress
- All straps are sewn onto and inseparable from the rescue bag
- The vacuum mattress can be deflated without opening the rescue bag
- Anti-skid undersurface
- Hook and loop fastener and zipper for easy access to the patient and to avoid wind-sack phenomenon and rotation
- Stable head protection
- Easy to use strap system, adjustable to achieve horizontal position of the patient
- Can be used with UT2000 Universal Transport Device manufactured by Kohlbrat & Bunz, and other stretchers
- Metal buckles
- All straps stowed in easy to open pockets
- Plated-through holes for free drainage of water
- Anti-rotation rings
- CE certified

Length: 220 cm, Width head/middle/foot: 60/60/40 cm, Weight: 3,1 kg

Accessories:

	<p>HP01 One-Hand pump, plastic. Length:21cm Width: 14cm Weight: 0,6kg</p>
	<p>HP02 Hand pump, plastic. Length: 38cm Width: 5cm Weight: 0,4kg</p>
	<p>HP03 Hand pump, aluminium. Length: 30cm Width: 4cm Weight: 0,4kg</p>
	<p>FP01 Foot pump, plastic. Length: 43cm Width: 11cm Weight: 0,75kg</p>
	<p>FP02 Foot pump, plastic. Length: 45cm Width: 6cm Weight: 0,9kg</p>
	<p>FP03 Foot pump, plastic. Can also be used as hand pump. Length: 45cm Width: 6cm Weight: 0,95kg</p>
	<p>FP04 Foot pump, aluminum Length: 54cm Width: 6cm Weight: 1,4kg</p>
	<p>TS01 Carry bag Length/width/height: 56cm/36cm/16cm Weight: 0,3kg TS06 Carry bag Length/width/height: 65cm/45cm/12cm Weight: 0,4kg</p>
	<p>TM01 Carry bag with Rucksack straps for mattress with width below 90cm Length/width/height: 80cm/45cm/25cm Weight: 0,7kg TM02 Carry bag with Rucksack straps for mattress with width of more than 90cm Length/width/height: 100cm/45cm/30cm Weight: 1kg</p>

Optional labels welded onto the products. Individual logos, operating instructions etc.
Standard size: 8cm x 5cm. Other sizes available on request.



Accessories for mattresses:

Integrated Head Immobiliser



Integrated Leg Stabiliser





**Quality Management System
according to
EN ISO 9001:2000 & EN ISO 13485:2003
certified by TÜV Austria**



**Manufacturer:
KOHLBRAT & BUNZ GMBH A-5550 Radstadt Austria
T: +43 (0)6452 7193 0 F: +43 (0)6452 7193 51
info@redvac.com www.RedVac.com**