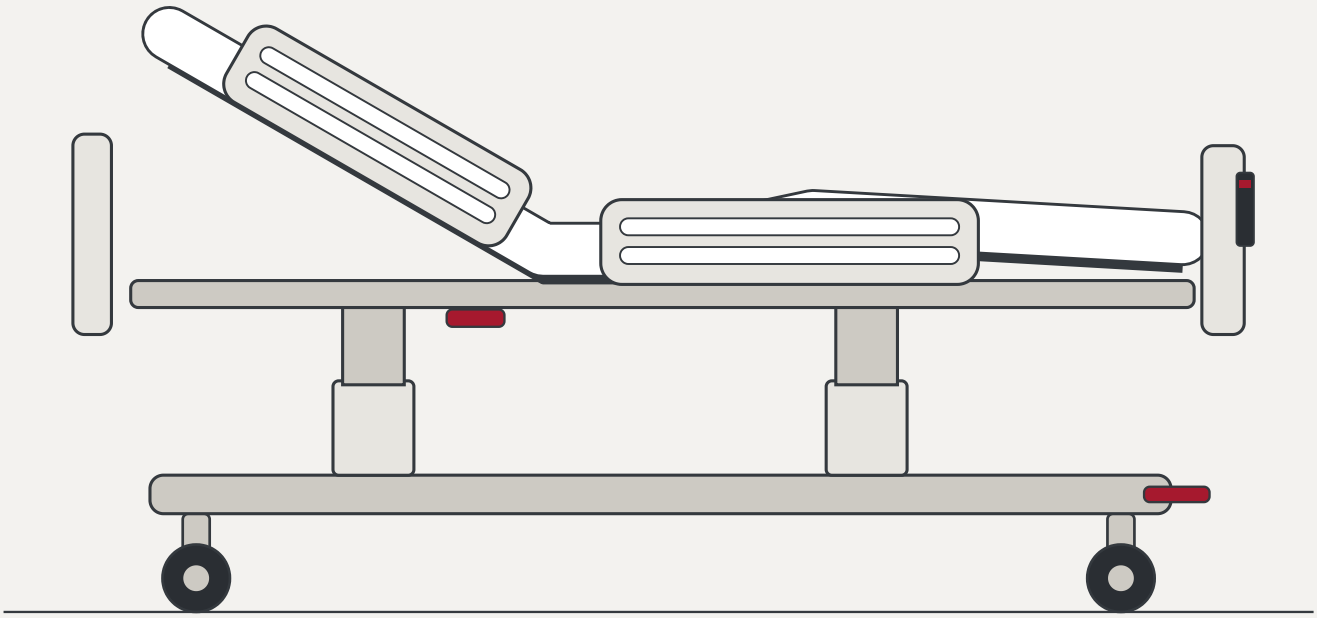
VAN ROON



INTENSIVE-CARE BED

VR-7

Every position an intensive-care team needs, and the emergency functions within reach of every member of the team.

DESIGNED WITH INTENSIVE-CARE NURSES

Built around a nurse’s shift

The VR-7 is the intensive-care bed Van Roon has made in Leiden since 2018 and supplied in the UK and Ireland since 2019. It is designed around the tasks that take up an intensive-care nurse’s shift: repositioning, weighing, proning preparation, transfers to imaging and theatre, and resuscitation.

Every position the bed can reach is available from the footboard panel, and the positions used in an emergency have their own controls that work whatever the panel is showing. Backrest angle, lateral tilt and the patient’s weight are shown on the panel and on both side rails.

The VR-7 was developed in Leiden with intensive-care nurses from hospitals in four countries, who tested prototypes on their own units for eighteen months before the design was fixed.

250 kg
safe working load

±25°
lateral tilt

410 mm
lowest platform height

28 s
flat to cardiac chair

Positions

Flat and examination height



Auto-contour



Cardiac chair



Trendelenburg, 16°



Reverse Trendelenburg, 16°



Lateral tilt, 25° each side

FEATURES

What the VR-7 does

Lateral tilt to 25° each side

Supports turning and pressure-area care with one nurse. Tilt is stopped automatically at 15° unless the side rails on the low side are raised.

Cardiac chair position

One button takes the bed from flat to the chair position in 28 seconds, with the leg section lowered and the platform tilted in reverse Trendelenburg.

CPR release on both sides

Red release handles on both sides of the backrest bring it flat in under ten seconds without power. The electric CPR button on the footboard panel also levels the platform and lowers it to working height.

Emergency Trendelenburg

A dedicated button on the footboard panel and on both head-end side rails tilts the platform to 16° head down, held for as long as the button is pressed.

Integrated scale

Four load cells in the platform frame weigh the patient to 0.1 kg, with tare memory for accessories and a trend of the last 30 weighings on the panel.

Patient-exit detection

Three sensitivity zones, from early warning when the patient moves towards the edge to an alarm when weight leaves the bed. The alarm can be relayed to the ward's nurse call system.

SAFETY

Emergency functions that do not wait

The functions needed in an emergency have their own controls, work whether the footboard panel is locked or not, and are coloured red everywhere on the bed.

Mechanical CPR release

Red handles on both sides bring the backrest flat in under ten seconds without power.

Electric CPR

One button flattens the backrest, levels the platform from any tilt and lowers it to working height.

Emergency Trendelenburg

From the footboard and from both head-end side rails, held for as long as the button is pressed.

Split side rails

Four rail sections, each tested to the requirements of IEC 60601-2-52. Lateral tilt stops at 15° unless the rails on the low side are raised.

Patient-exit detection

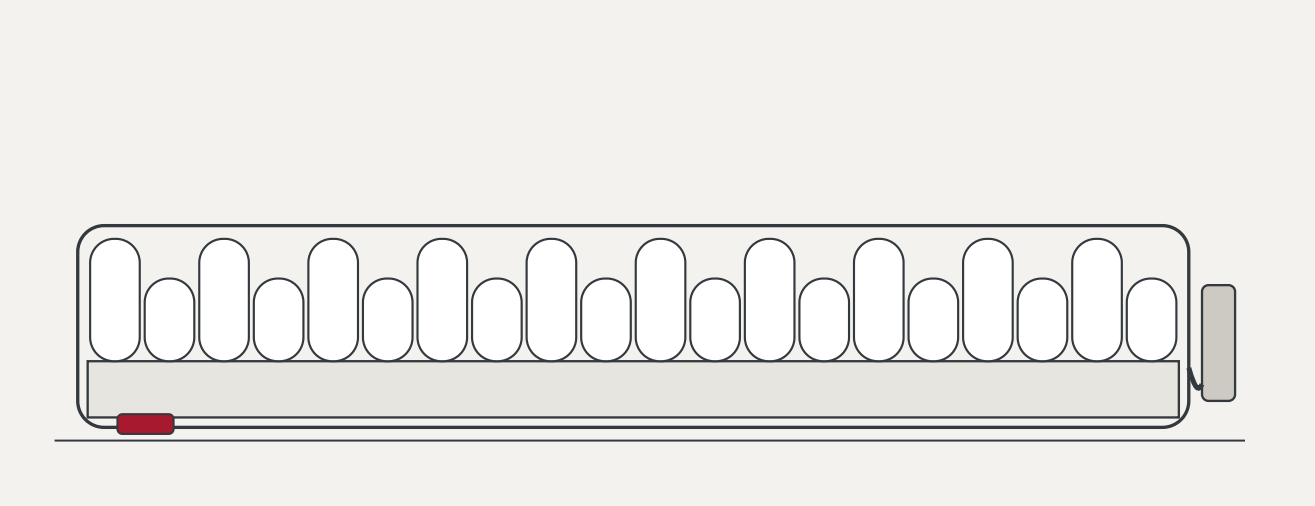
Three zones, relayed to the ward's nurse call system.

Lockouts

Any movement can be locked on the patient controls without affecting the emergency functions.

SURFACES AND ACCESSORIES

Tested with Van Roon surfaces



The VR-A4 active mattress is controlled from the VR-7 footboard panel, with lateral rotation and its alarms shown on the panel. The VR-H2 hybrid and VR-F1 foam mattresses are cut to profile with the VR-7 platform.

Accessories

VR7-0410	IV pole, two-stage, telescopic
VR7-0414	IV pole, four hooks, with pump holder
VR7-0422	Monitor support, head end
VR7-0430	Oxygen cylinder holder
VR7-0460	X-ray cassette tray
VR7-0471	Fifth castor
VR7-0480	Remote diagnostics module
VR7-0502	Nurse call cable, 2 m
VR7-0515	Line organiser, side rail
VR7-0520	Accessory rail, 25 × 10 mm
VR7-0590	Battery pack, 24 V lithium-ion

TECHNICAL DATA

Specifications

Dimensions

Overall length	2,190 mm (2,390 mm with the length extension)
Overall width	1,040 mm side rails raised; 990 mm side rails lowered
Mattress platform	2,000 × 880 mm
Platform height (without mattress)	410 to 830 mm
Under-bed clearance	150 mm, for mobile hoists
Weight of bed	172 kg without mattress and accessories

Positions

Backrest	0 to 70°, with angle indication on the side rails and panel
Thigh section	0 to 32°
Leg section	0 to −20° (lowered for the chair position)
Trendelenburg and reverse Trendelenburg	16° each way
Lateral tilt	±25°, stopped at 15° unless the low-side rails are raised
One-touch positions	Flat, cardiac chair, CPR, emergency Trendelenburg, examination height
Auto-contour	Thigh section rises with the backrest to limit sliding

Loads

Safe working load	250 kg (patient, mattress and accessories)
Maximum patient weight	185 kg
Side rail	Split side rails, four sections, each tested to the requirements of IEC 60601-2-52

Weighing and patient-exit detection

Scale	Integrated, four load cells; resolution 0.1 kg; accuracy ±0.5 kg from 20 to 250 kg
Tare	Automatic tare with accessory memory
Patient-exit detection	Three zones; audible and visual alarm at the footboard; nurse call relay

Electrical

Supply	230 V AC, 50 Hz; maximum consumption 450 VA
Protection	Class I; type B applied part; IPX4
Battery	24 V lithium-ion pack (from 2025); earlier beds 2 × 12 V lead-acid
Battery operation	All movements for transport; about 30 full cycles from full charge
Nurse call	Interface for the hospital's nurse call system; connector to order
Equipotential	Equipotential bonding stud at the head end

Mobility

Castors	125 mm twin-wheel, central braking and steering from four pedals
Fifth castor	Optional, for straight-line transport
Transport	Fits a standard lift car of 1,400 × 2,400 mm with the head and foot boards fitted

Dimensions nominal, without mattress. Specifications may change without notice; the instructions for use take precedence.

SERVICE IN THE UK AND IRELAND

Looked after from Morley

Van Roon Medical UK installs, maintains and repairs VR-series beds with its own engineers across the UK and Ireland.

- Two years of full service included with every new VR-7.
- Planned maintenance every 12 months, booked with your medical engineering department.
- Level 1 and Level 2 technical training for hospital engineers at our Morley service centre.
- Exchange controllers and the parts most often needed carried in our engineers' vans.
- Clinical training on the ward for every shift when new beds arrive.

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Manufacturer: Van Roon Medische Techniek B.V., Leiden, the Netherlands. VR-7 is a medical device, Class I. Read the instructions for use before use.
VRM-BR-0702-UK, 11 March 2024.