

TurnMATE

Timago



# USER MANUAL

**ANTI-DECUBITUS MATTRESS  
TUBULAR, DYNAMIC,  
WITH POSITION-CHANGING FUNCTION**



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# 1. INTRODUCTION

Before using the product, it is necessary to check whether the equipment has any potential damage that may have occurred during transport. If such a situation has occurred, please contact the point of sale.

Next, it is important to familiarize yourself with the content of this manual, which contains essential information for the user.

If you have any questions regarding the use of the equipment, please contact us. Our staff will provide you with the necessary information.

At the same time, we would like to emphasize that if you have questions about matters other than the use of the products, please consult a doctor, nurse, or physiotherapist.

# 2. DESCRIPTION AND APPLICATION

The tubular anti-decubitus mattress is a set consisting of an alternating pressure mattress and a compressor (pump) with a remote control.

The system of transverse chambers is cyclically and alternately filled with air by the compressor (zones A and B). Additionally, the mattress has a function to rotate the patient to the right/left as well as to raise the head and leg sections.

The mattress is made using thermoplastic polyurethane (TPU), a flexible and durable material that combines the properties of rubber and plastic.

The mattress is equipped with a CPR function (immediate deflation of chambers for patient resuscitation), and the compressor enables three operating modes: alternating pressure mode, sleep mode, and nurse mode.

The tubular anti-decubitus mattress belongs to auxiliary equipment intended for individuals at risk of developing pressure ulcers. It is used for people who remain in a lying position for extended periods, those with impaired blood flow in the peripheral circulatory system, as well as individuals who show signs of subcutaneous or open skin damage caused by prolonged pressure.

It is used for both the prevention and treatment of pressure ulcers up to stage **III** (according to NPUAP/EPUAP).

The principle of operation is based on cyclically changing the support points of the person lying down, thereby minimizing pressure on the parts of the body most at risk of developing pressure ulcers. In this way, the mattress provides better blood flow to the tissues of those body parts that are in contact with the surface for the longest time.

It should be noted that the principle of operation of the mattress is not able to eliminate all causes of skin damage; however, it can significantly limit their development.

Contraindications for using the alternating pressure mattress are determined by the attending physician during subjective and objective examinations. It is generally accepted that the mattress should not be used in cases where the alternating change of support points causes pain for the patient or exacerbates the course of their illness.

## 3. SET COMPONENTS

### ▶ 3.1 Tubular Anti-Decubitus Mattress



### ▶ 3.2 Compressor (Pump) with Remote Control



Compressor

Air Hose Socket  
(Port)



Compressor Control Panel



Remote Control

### ▶ 3.3 Set Contents

The set includes:

- compressor (alternating pressure pump),
- tubular mattress with air hoses,

- cover,
- fuses for the compressor (2 pcs.),
- spare chamber for the mattress (1 pc.),
- remote control.

## 4. ASSEMBLY AND MAIN USAGE RECOMMENDATIONS

DURING ASSEMBLY AND ADJUSTMENT, FOLLOW THE INFORMATION PROVIDED IN THE INSTRUCTION MANUAL. USERS WITH LIMITED MOBILITY MAY REQUIRE ASSISTANCE FROM A THIRD PARTY WITH THE NECESSARY SKILLS. DO NOT USE THE MATTRESS BEFORE IT IS FULLY INFLATED!

### STEP 1

The mattress should be placed on the bed, directly on top of the sleeping mattress. Then, cover the mattress with the included cover (zippered closure). It is recommended to protect the mattress with a vapor-permeable hygiene underlay or a cotton sheet to safeguard it from possible soiling.

### STEP 2

Open the compressor (pump) hanger to the appropriate width and hang it on the bed frame.

### STEP 3

The air hoses of the mattress should be connected to the compressor in such a way that they are not kinked and do not end up under the mattress. Ensure that the air hoses are properly secured and do not come out of the compressor's socket (port).

### STEP 4

The compressor should be connected to the electrical network using the power cord, ensuring that the side power switch (I/O) is set to the **“O”** position. Particular caution should be exercised during this process.

### STEP 5

To start the compressor, first set the side power switch (I/O) to the **“I”** position, and then press the **“Power”** button on the control panel. The mattress inflation (startup) process will begin.

### STEP 6

During the initial startup (inflation), the orange **“Low pressure”** indicator will light up on the panel, the mattress will enter the **“Nurse”** mode, and air filling will begin.



DURING STARTUP, THE MATTRESS IS NOT READY FOR USE, AND ALL CONTROL PANEL BUTTONS REMAIN INACTIVE.

After the mattress is properly inflated, the **“Low pressure”** indicator will turn off, and the

green “**Normal pressure**” indicator will light up. The mattress will enter the “**Alternate**” mode.

This indicates readiness for operation and the possibility of further adjustments of the operating parameters.

#### STEP 7

Set the **patient’s weight** on the control panel — after selecting the appropriate weight, the pressure will automatically adjust to the chosen value.

Details on page 6.

#### STEP 8

Set the compressor’s **operating cycle** (10 / 15 / 20 minutes) on the control panel.

Details on page 7.

#### STEP 9

On the control panel, select one of the three **operating modes**:

**alternating** pressure mode, **sleep** mode, or **nurse** mode.

Details on page 7.

#### STEP 10

Depending on individual needs, select one of the **available mattress functions** on the control panel.

Details on page 8.



THE MATTRESS CAN ONLY BE USED AFTER THE STARTUP IS COMPLETED — THIS IS INDICATED BY THE GREEN “NORMAL PRESSURE” INDICATOR LIGHTING UP. FROM THIS POINT ON, THE CONTROL PANEL BECOMES ACTIVE.



THE PRESSURE SHOULD BE ADJUSTED TO THE INDIVIDUAL NEEDS OF THE PATIENT, DEPENDING ON THEIR GENERAL CONDITION AND THE COMPLAINTS ACCOMPANYING THEIR ILLNESS. CONSULT THE ATTENDING PHYSICIAN FOR THIS PURPOSE.

THE COMPRESSOR OPERATES BY ALTERNATELY PUMPING AIR INTO THE MATTRESS CHAMBERS AND MUST REMAIN SWITCHED ON AT ALL TIMES. TO USE THE MATTRESS AGAIN, THE STARTUP (INITIALIZATION) PROCEDURE MUST BE REPEATED.

## 5. OPERATING MODES AND FUNCTIONS

### ► 5.1 „Weight”

The ability to set the patient’s weight within the range of 40-200 kg. Depending on the selected weight, the compressor automatically adjusts the appropriate mattress pressure level.



Patient weight decrease button. A single press of the button reduces the patient’s weight by 40 kg.



Patient weight increase button. A single press of the button increases the

patient's weight by 40 kg.



Fine weight adjustment button. After pressing and activating this function, the buttons decrease/increase the patient's weight by 10 kg.

## ► 5.2 „Cycle Time”



Pressing one of the three buttons changes the compressor's operating cycle (**10 min / 15 min / 20 min**).

## ► 5.3 Operating Mode („Mode”)



There are 3 operating modes to choose from. When the power is turned on, the compressor automatically starts operating in **“Nurse”** mode. When the mattress reaches the set pressure, it will automatically switch to **“Alternate”** mode and begin normal operation.



Nurse

**„Nurse”** mode. Pressing the button switches to the static mode — the air chambers are evenly filled, making nursing care easier. After 30 minutes, the pump automatically returns to the alternating pressure mode (10-minute cycle).



Alternate

**“Alternate”** mode. Pressing the button initiates continuous, alternating inflation and deflation of the air chambers to mimic natural movement patterns during sleep and prevent prolonged pressure increases in tissues, while simultaneously stimulating blood circulation.

Three alternating pressure cycles are available (10 min / 15 min / 20 min).

If the mattress cannot be filled with air to the required value, the system will automatically activate an alarm within 30 minutes.



Sleep

**“Sleep”** mode. To reduce the impact on sleep quality, the air cells are evenly filled to the set pressure value (patient's weight), without alternating pressure mode. The static mode will remain active until the user switches to a different operating mode.

If the mattress cannot be filled with air to the required value, the system will automatically activate an alarm within 30 minutes.

## ► 5.4 „Function”



Head  
up

After pressing the **“Head up”** button, the system will automatically switch to the **“Sleep”** mode and start inflating an additional air chamber to the set pressure value (patient's weight), raising the head section of the mattress.

If the mattress cannot be filled with air to the required value, the system will automatically activate an alarm within 15 minutes.



Foot  
up

After pressing the **“Foot up”** button, the system will automatically switch to the **“Sleep”** mode and start inflating an additional air chamber to the set pressure value (patient's weight), raising the leg section of the mattress.

If the mattress cannot be filled with air to the required value, the system will automatically activate an alarm within 15 minutes.



**Seat Inflation**

After pressing the **“Seat inflation”** button, the system will automatically switch to the **“Sleep”** mode and start inflating additional air chambers to the set pressure value (patient’s weight), raising both the head and leg sections of the mattress.

If the mattress cannot be filled with air to the required value, the system will automatically activate an alarm within 15 minutes.



**Left Rotation**

After pressing the **“Left rotation”** button, the system will automatically switch to the **“Sleep”** mode and start inflating an additional air chamber to the set pressure value (patient’s weight), causing the mattress to rotate to the left.

If the mattress cannot be filled with air to the required value, the system will automatically activate an alarm within 15 minutes.



**Right Rotation**

After pressing the **“Right rotation”** button, the system will automatically switch to the **“Sleep”** mode and start inflating an additional air chamber to the set pressure value (patient’s weight), causing the mattress to rotate to the right.

If the mattress cannot be filled with air to the required value, the system will automatically activate an alarm within 15 minutes.



**Left/Right Rotation**

After pressing the **“Left/Right rotation”** button, the system will automatically switch to the **“Sleep”** mode and start cyclically inflating and deflating the additional air chambers to the set pressure value (patient’s weight), causing the mattress to rotate cyclically to the left and right in the following pattern: left rotation for 20 minutes, standard operation for 40 minutes, right rotation for 20 minutes, standard operation for 40 minutes.

If the mattress cannot be filled with air to the required value, the system will automatically activate an alarm within 15 minutes.

## ► 5.5 „Voice/Mute”



**Voice Mute**

Illumination of the button indicates that the sound alarm for low mattress pressure (“Low pressure”) is activated.

## ► 5.6 „Panel lock”



**Panel lock**

Illumination of the button indicates that the control panel lock is activated — all control panel buttons remain inactive. The panel automatically locks after 60 seconds of inactivity.

## ► 5.7 „Power”



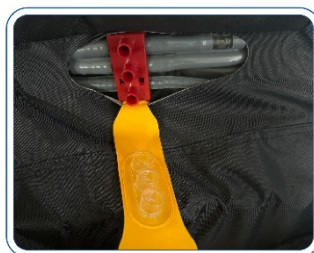
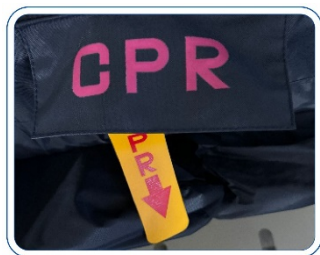
**Power**

Illumination of the button indicates that the pump power is on. To start the compressor, first set the side power switch (I/O) to the “I” position.

## ► 5.8 CPR Function

CPR is a function that allows immediate deflation of the chambers for patient resuscitation. Pulling the yellow CPR strap down will open the safety valve and quickly release the air from the mattress chambers.

After the air has been released, the CPR valve should be closed again to return to normal mattress operation.



## 6. TECHNICAL SPECIFICATIONS

DESCRIPTION	MATTRESS	COMPRESSOR
DIMENSIONS	200 x 90 x 11,5 cm	30 x 14 x 27 cm
WEIGHT	9,50 kg	2,80 kg
MAXIMUM LOAD	200 kg	
CYCLE TIME	10/15/20 min	
MODEL / TYPE	QDC-301B	P5
PRESSURE RANGE	25-55 mmHg	
AIR FLOW	>300 L/h	
POWER SUPPLY	-	220V +/- 10% 50 Hz
FUSE	-	T1A L250V
POWER CONSUMPTION	-	≤20W

OPERATING ENVIRONMENT	TEMPERATURE: +10°C-40°C, HUMIDITY: 10%-90%
NOISE LEVEL	37dB

## 7. SAFETY GUIDELINES



USING THE MATTRESS MUST BE STRICTLY CONSULTED WITH THE ATTENDING PHYSICIAN TO DETERMINE ANY POSSIBLE CONTRAINDICATIONS.

DUE TO THE RISK OF ADVERSE EFFECTS, THE MATTRESS SHOULD NOT BE USED WITHOUT CONSULTATION, ESPECIALLY IN THE CASE OF:

1. THE USE OF A CERVICAL TRACTION DEVICE.
2. MULTI-LEVEL INSTABILITY OF A PARTICULAR SPINAL SEGMENT.



FOR PATIENTS WITH A PACEMAKER, THE COMPRESSOR SHOULD BE PLACED AS FAR AWAY FROM THE CHEST AS POSSIBLE.



DO NOT USE THE SAME MATTRESS FOR DIFFERENT PATIENTS.



DO NOT EXCEED THE MAXIMUM LOAD (200 KG). THIRD PARTIES SHOULD NOT SIT ON THE MATTRESS.



THE MATTRESS SHOULD ONLY BE USED ON FLAT SURFACES. PROTECT THE MATTRESS FROM SHARP OBJECTS AND DO NOT PLACE IT DIRECTLY ON SPRINGS OR BED FRAMES WITH SHARP EDGES.



DO NOT USE THE COMPRESSOR IF THE POWER CORD OR PLUG IS DAMAGED. DO NOT CONNECT THE COMPRESSOR TO DAMAGED EXTENSION CORDS OR POWER OUTLETS.



DO NOT ALLOW THE MATTRESS TO COME INTO CONTACT WITH HEAT SOURCES OR PLACE THE COMPRESSOR NEAR HEAT SOURCES. KEEP IT AWAY FROM OPEN FLAMES AND FLAMMABLE SUBSTANCES.



DO NOT USE THE COMPRESSOR IN AN UNSUITABLE OPERATING ENVIRONMENT OR ALLOW IT TO COME INTO CONTACT WITH WATER OR OTHER LIQUIDS.



DO NOT PLACE THE COMPRESSOR UNDER THE BED OR IN LOCATIONS WHERE AIRFLOW TO THE COMPRESSOR MAY BE RESTRICTED, SUCH AS UNDER BEDDING.



DO NOT OPEN THE COMPRESSOR COVER - THERE IS A RISK OF ELECTRIC SHOCK.  
THE COMPRESSOR MUST BE SWITCHED OFF WITH THE "I/O" BUTTON WHEN THE MATTRESS IS NOT IN USE.



DO NOT PULL THE CABLES CONNECTING THE COMPRESSOR AND MATTRESS OR LEAN ON THEM. THERE IS A RISK OF DAMAGING THE CABLES!



DO NOT ATTEMPT ANY SELF-REPAIRS OR STRUCTURAL MODIFICATIONS.  
WE RECOMMEND USING ONLY ORIGINAL SPARE PARTS FROM THE MANUFACTURER. FOR THIS PURPOSE, PLEASE CONTACT THE SELLER



A USED OR DAMAGED COMPRESSOR SHOULD BE TAKEN TO AN ELECTRICAL AND ELECTRONIC EQUIPMENT RECYCLING CENTER. DO NOT DISPOSE OF THE COMPRESSOR WITH OTHER HOUSEHOLD WASTE.

## 8. MAINTENANCE

### ► 8.1 General Information

It is important to regularly perform self-checks on the technical condition of the compressor and mattress:

- before each use: check that the air hoses are properly connected to the ports (latch), that there are no air leaks from the mattress, and that the compressor operates smoothly and efficiently,
- periodically, it is recommended to have the equipment inspected at a service center (consult the point of sale for this purpose).

In case of a malfunction, please contact the point of sale or service center to determine the cause of the issue.

### ► 8.2 Fuse Replacement

A blown fuse is the most common cause of compressor failure. Fuses intended for self-replacement are located at the bottom of the compressor. Spare fuses (2 pcs.) are included in the set.

1. Unplug the compressor from the power outlet.

2. Use a screwdriver to unscrew the protective cover and remove the fuse holder.
3. Insert a new fuse into the holder and screw the protective cover back in place.



BEFORE REPLACING THE FUSE, BE SURE TO TURN OFF THE COMPRESSOR USING THE “I/O” BUTTON AND DISCONNECT THE POWER CORD FROM THE OUTLET.



IF THE COMPRESSOR STILL DOES NOT WORK AFTER REPLACING THE FUSE, THE EQUIPMENT SHOULD BE REPORTED FOR WARRANTY SERVICE.

### ► 8.3 Filter Replacement

Filter replacement:

1. Unplug the compressor from the power outlet.
2. Remove the filter cover at the back of the pump and take out the round filter.
3. Insert the new filter and replace the cover.



### ► 8.4 Cleaning

The mattress and compressor should be cleaned with a damp cloth using mild cleaning agents that have a PZH certificate. They must not be soaked, and after each cleaning, the equipment should be wiped dry.

Using strong cleaning agents or detergents can damage the device.










DO NOT USE HEAT SOURCES DURING THE DRYING PROCESS. BEFORE CLEANING THE COMPRESSOR, BE SURE TO TURN IT OFF USING THE “I/O” BUTTON AND DISCONNECT THE POWER CORD

## 9. WARRANTY INFORMATION

All products distributed by our company are covered by a warranty, the conditions of which are described in the warranty card available on our website. Please contact the seller from whom the product was purchased. Please remember that proof of purchase (receipt or invoice) must be kept for warranty purposes. As a user-friendly company, we provide only products that have been thoroughly tested for material quality and functionality. If you have any questions regarding the service procedure, please contact us.

## 10. SYMBOLS

	REFERENCE NUMBER		MANUFACTURER
	MEDICAL DEVICE		UDI CODE
	WARNING		SERIAL NUMBER
	THE MANUFACTURER HAS ASSESSED CONFORMITY WITH THE REQUIREMENTS FOR MEDICAL DEVICES.		







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