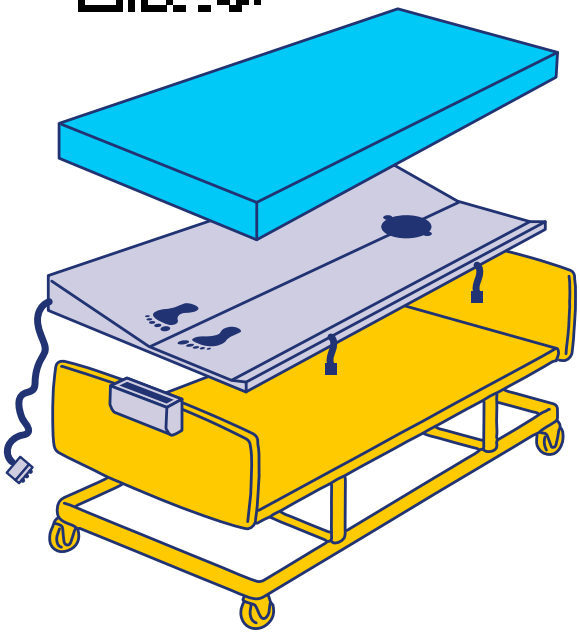
SCAN FOR VIDEO

Quick guides



turnall®

Automated lateral turning system 1C - 3C

EN

Patented

CE UKCA

LEVABO® medical



IMPORTANT NOTE

All the buttons on the pump are touch buttons.

Hold your finger on the button and the button will activate.

Contents of the Turn All® system

1 piece. 1C Turn All® Pump System
OR
1 piece. 3C Turn All® Pump System
1 piece. power cord to the pump system
1 piece. Turn All® lift mattress
1 piece. Turn All® Cover
The lift mattress is supplied pre-assembled inside the cover
1 piece. user manual.



This operator's manual provides some important information about working with the Turn All® system.

Please read the instructions before attempting to use this device.

These operating instructions are part of the product and must be kept close to the system so that it can be consulted at any time by personnel and operators.

If the system is transferred to a third party, the instructions must accompany it.

The illustrations in these instructions are intended to provide a clear demonstration of the current situation and are therefore not necessarily to the correct scale, they may vary slightly from the actual design of the device.

All information and advice in this manual has been prepared in accordance with the applicable standards.

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About positioning patients and the Turn All® system

Pressure ulcers are areas of the skin where the skin or underlying tissue is damaged. In the case of immobility and risk of skin damage, pressure ulcers can occur within 10 - 15 minutes, which is why a quick and preventative effort is important. Most pressure ulcers can be prevented!

Pressure ulcers can occur anywhere on the body, but particularly vulnerable are those places on the body where bone protrusions increase pressure against the substrate. It is therefore important to focus on relieving these vulnerable areas in the prevention of pressure ulcers.

Older people and bedbound patients are at particular risk of developing pressure ulcers.

Paralysis, poor nutritional status and diseases such as Diabetes and Atherosclerosis also increase the risk of pressure ulcers. At high risk are those who are unable to change or ask for a change of position for themselves.

It is therefore important in the prevention of pressure ulcers that relatives or staff frequently turn and relieve patients in the supine and sitting position. At the same time, it is important to avoid friction against the substrate which may result in shear (loosened skin). The need for relief and repositioning is individual, the most commonly used interval for manual patient repositioning is 1.5–2 hours.

The Turn All® system that can automatically turn the patient is a big help. The system frees up caregiver resources thereby helping both staff and patients.

Benefits of the Turn All® system

- Comprehensive pressure relief
- Prevention of pressure injuries / ulcers
- Treatment of existing injuries / ulcers
- Comfortable and doesn't interrupt normal sleep
- Quiet when used
- Bariatric/heavy patients can be carefully and easily turned thereby protecting the health and wellbeing of staff working with them
- Full overview as the patient is always lying on their back on the mattress
- Gentle positioning even for patients in pain
- Slight lifting of the mattress, on the reverse side of the primary lift side, provides support and reassurance as well as decreases the risk of shear, see figure. page 5
- Time saving results in more care time available for the patient
- Improved microclimate and blood circulation
- Robust, durable and reliable
- Can be integrated into any bed with removable mattres.

Turn All® system function

Dynamic mode - Automatic

The Turn All® system is an automatic side positioning system, for the patient in need of pressure ulcer prevention or treatment.

Positioning is carried out easily and quietly. The system takes approx. 7-14 minutes for a change of position. Due to this very slow and even change of position, the system is perceived as very comfortable by the patient.

The system is based on an air chamber system that lifts the patient lying on it alternately on the right and left sides.

The system thereby places the patient in a 30° side position, alternately right and left side.

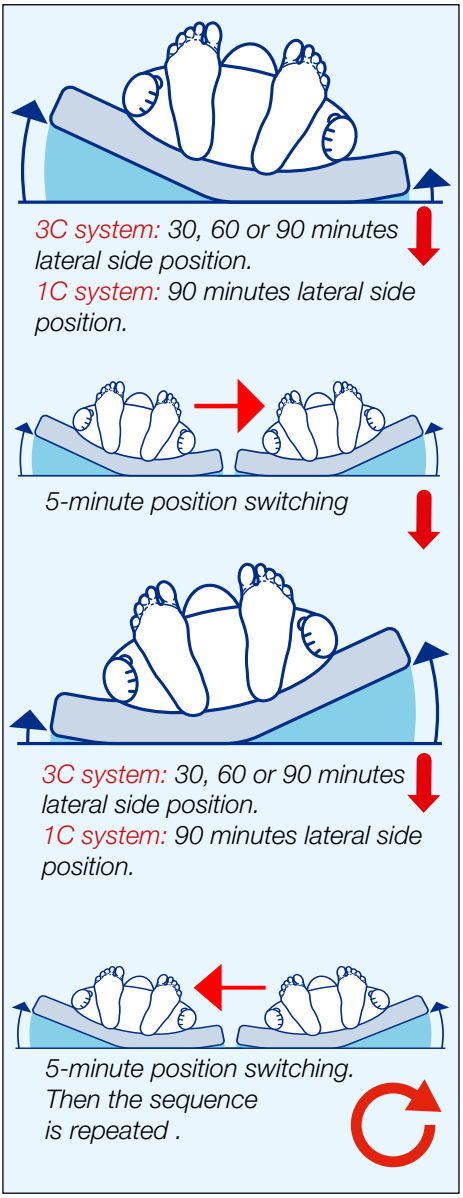
Static mode - Manual adjustment

In Static mode, the system is used as an inclined cushion (without automation), where the slope is manually controlled 0-30°.
The slope is determined by how much air is pumped into the system.

Static side position, like a cushion.



The illustration below shows the sequence of the automatic positioning in the Turn All® system.



Installation of the Turn All® system

Getting the Turn All® system on a bed

Remove the mattress from the bed (Figure 1).

Place the Turn All® system **(A)** on the bed base, orienting the system so that the hose connection **(B)** is at the foot end of the bed (Figure 1.2).

Attach the Turn All® system to the bed base using the straps **(H)** on the cover (Figure 1.2).

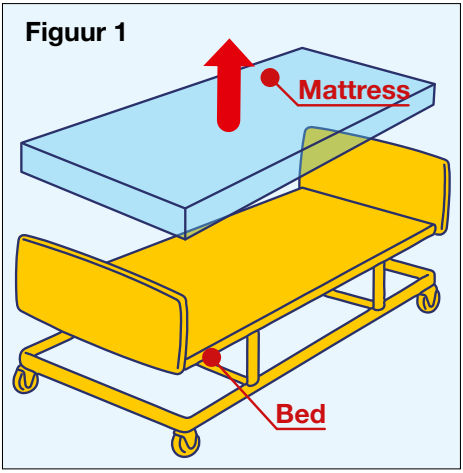
Put the mattress back onto the bed on top of the Turn All® system (Figure 1.3).

The Turn All® pump **(C)** is placed on the bed end using the two braces on the back of the pump (Figure 1) (Figure 1.3).

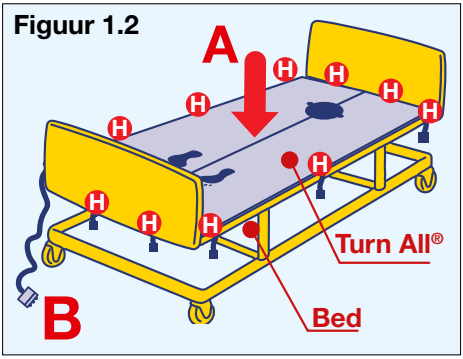
Insert the hose connection **(B)** into the pump **(C)** (Figure 2) and (Figure 3) page 7.

Connect the power cord to the pump (Figure 7)
Connect the power cord to the mains.

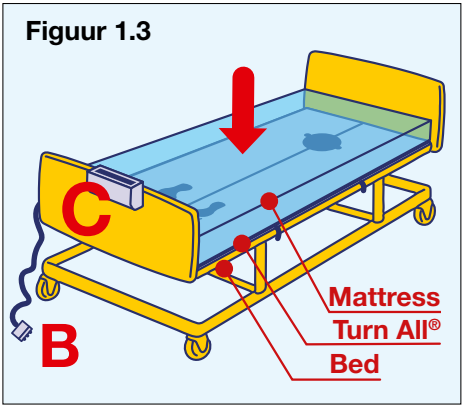
Figuur 1



Figuur 1.2



Figuur 1.3



Important information! Regarding Lifting side

At system startup:

At the first use of the system, the start-up lifting side will be arbitrary, but if it is desired to change the lifting side, the pump is switched off for 3 seconds, after which the system changes the lifting side and continues with the selected turning sequence.

IMPORTANT NOTE



All the buttons on the pump are touch buttons.

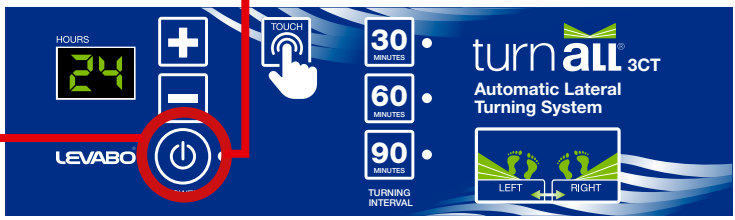
Hold your finger on the button and the button will activate.

1

Turn off the pump for 3 seconds.

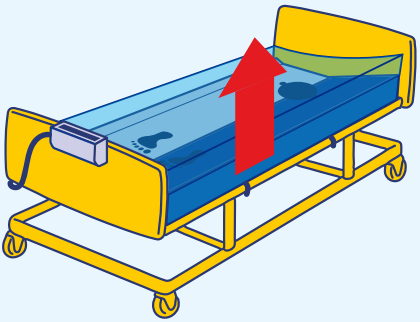
2

When the pump is turned on again it will lift in the opposite side.

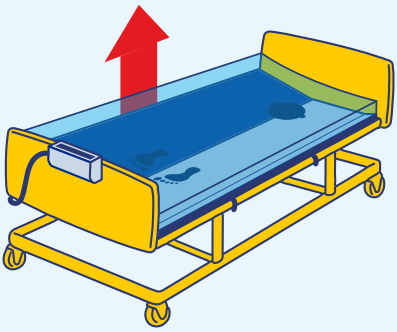


Please note, When turning on the pump it takes approx 20 seconds before starting.

Lift right side



Lift left side



Starting and adjusting the Turn All® system

Turn on the pump on the “POWER” button **(D)** (Figure 4).

Set the timer **(G)** with the “+” and “-” buttons.

The number in the timer **(G)** indicates how many hours the system should run automatically.

The Turn All® system now runs automatically. One side of the mattress is now lifted for 30/60/90 minutes (1C 90 minutes), then lying flat for 5-minute position switching, then the other side is lifted for 30/60/90 minutes (1C 90 minutes), then lying flat for 5 minutes during transition.

This sequence is repeated for the number of hours set in the timer **(G)**, then returned to lying flat. See illustration on page 5.

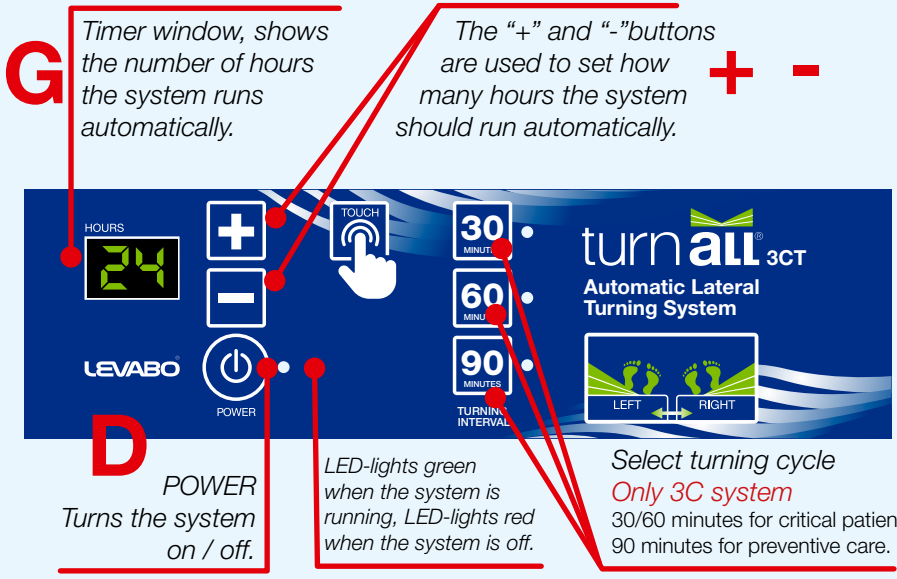
IMPORTANT NOTE



All the buttons on the pump are touch buttons.

Hold your finger on the button and the button will activate.

Figure 4



Using the Turn All® system for static lifting

If the Turn All® system is to be used for a static lift as an inclined cushion, the hose connection is reversed according to the side that is to be lifted.

See section “Important! About the lifting side ”page 7.

The pump is started and pumped until the desired lift height is reached.

Then disconnect the hose connection **(B)** from the pump **(C)** (Figure 5).

The hose connection **(B)** is now closed with the cover **(E)** (Figure 6).
When the cover **(E)** is mounted on the hose connection **(B)**, the pump **(C)** is turned off by the “POWER” button **(D)**.

The Turn All® system will now remain in this position until the cover **(E)** is removed again and the air is thereby eliminated from the system.

Figure 5

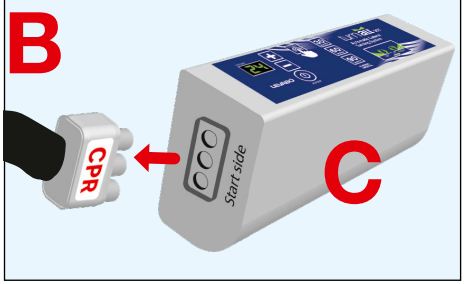


Figure 6

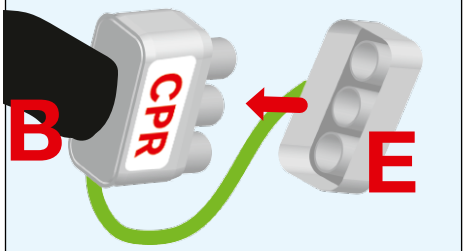
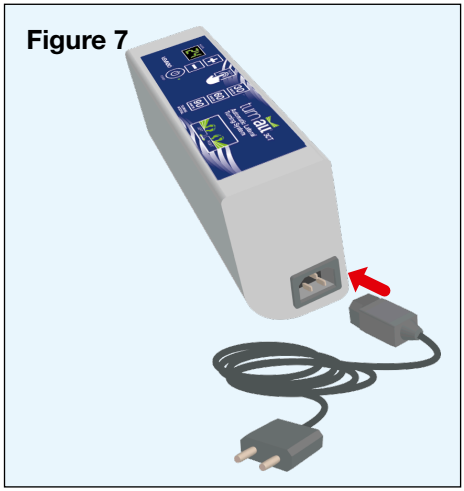


Figure 7



Indications and contraindications

Indications / Purpose

Pressure ulcer prevention and treatment.
Existing pressure ulcers and risk of development of pressure ulcers.
Risk of pressure ulcer.

The Turn All® system can be used in beds with or without adjustable surfaces.

When using the Turn All® system in beds with adjustable surfaces, be sure to follow guidelines to avoid shear.

The Turn All system is suitable for the prevention of pressure ulcers including all levels of skin damage risk.

The product can be used with all grades of pressure ulcer.

However, it is important that the person responsible for treatment is consulted and their recommendation/s followed.

The Turn All system 1C / 3C is designed for patients with a body weight of up to 225 kg.

The Turn All Bariatric system 3C is designed for patients with a body weight of up to 400 kg.

The Turn All® system is suitable and recommended:

- For immobile people with moderate to high risk of pressure ulcers, according to the Braden scale
- For persons whose disability or sickness means they must spend long periods lying down
- For people who cannot change their position when lying down
- For people who have suffered from one stroke with partial paralysis
- For people with spinal cord injury, who want to change their position when lying down, using theirs arms.



Contraindications / Risks of use / The product cannot be used

The Turn All® system cannot be recommended for patients with:

- Mobile patients who turn themselves in bed.
- Unstable fractures
- Severe burn injuries.
- Equilibrium Disorders
- Underlying neurological diseases that lead to anxiety behaviour in patients.

Allowed uses / locations

The Turn All® system can be used in all beds with removable mattress.

The Turn All® system can be used for the same patient for an extended period of time.

The Turn All® system is an aid for the prevention of pressure injuries and an auxiliary therapy for the treatment of pressure injuries.

Even with the use of the Turn All® system, the skin should be examined regularly by caregivers and / or qualified medical personnel with knowledge of pressure injuries

Note! Claims of any kind for damages resulting from improper or inappropriate use are excluded.
It is the operator who is solely responsible for all damages in the event of incorrect or inappropriate use.

Safety

This section provides an overview of the important safety aspects, for optimum protection of patients and caregivers, as well as safe and trouble-free use of the system.

The Turn All® system is an aid for pressure injury prevention and auxiliary therapy for the treatment of pressure injuries.

Even with the use of the Turn All® system, the skin should be examined regularly by caregivers and / or qualified medical personnel with knowledge of pressure injuries.

Note! The operator alone is responsible for all damages in the event of incorrect or inappropriate use.

Warning Notice

If the pump is to be disconnected from the mains during operation or if there is a power failure, an acoustic warning signal will sound for approx. 10 minutes. The warning signal can be closed by pressing the “POWER” key **(D)** (Figure 4) page 8.
Then restart the system.

The location of the pump and the location of the mains cable must be chosen so that unintentional disconnection from the supply network is excluded. The power cord must be routed in such a way that it cannot be pinched or crushed. It must also be guided in such a way that it does not pose a risk of stumbling.

CPR function

If a medical emergency should occur, rapid deflation may be necessary.

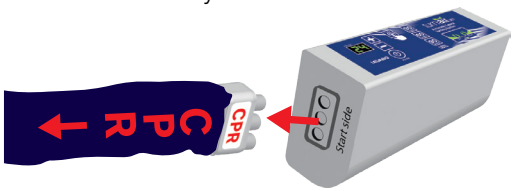
To do this, disconnect the hose connector from the pump for venting the hose connections to the mattress.

See illustration below.

By disconnecting this connection, the air chambers will be quickly emptied and the bed will return to a horizontal position.

This process can be further accelerated by pressing the mattress.

Then restart the system.



Elevation of the care bed

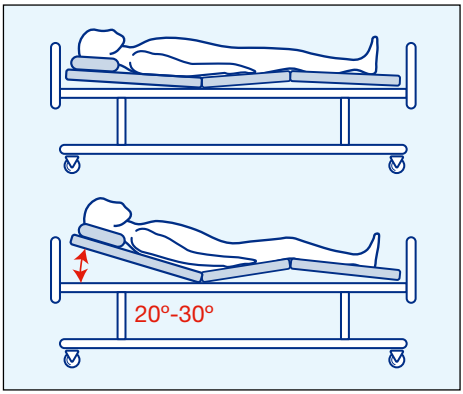
The system supports the elevated position of the healthcare bed in the head and foot parts. However, attention must be paid here to the correct position and pose of the patient in

care. This will depend on body shape and clinical picture. In case of doubts or questions, please ask the treating doctor or the specialist care provider.

With the head end of the bed is elevated, it is important to make sure that the patient is prevented from falling forward.

Depending on the body shape, a head cushion should only be used appropriately.

The maximum elevation of the head end of the bed should 20º-30º, but if necessary the head of bed can be higher for short/long periods for situation when eating and drinking.



Warranty and liability provisions

When used correctly, Levabo ApS gives a 24-month guarantee from the invoice date.

During this period, defective parts will be repaired or replaced free of charge due to manufacturing defects.

Levabo ApS assumes no liability for damages due to:

1. **Not follow the operating instructions**
2. **Non-compliant use with the instructions**
3. **Unauthorised changes**
4. **Technical changes**
5. **Use of unauthorised spare parts.**

The warranty is based on legal provisions and directives.

If the system is intervened without the prior approval of Levabo ApS, the warranty lapses.

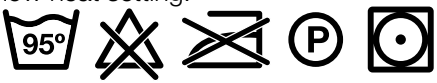
If the warranty is claimed and if, after verification, it should prove that these are based on signs of wear and tear or other types of damage not covered by the warranty, Levabo Aps is entitled to transfer the expenses incurred (test , transportation costs, and the like) to the client.

Cleaning and disinfection

Cleaning the Turn All® system

Turn All® Cover (the blue outer cover) The internal lifting mattress must be removed from the Turn All® Cover before washing the cover. see page 15.

Turn All® Cover can be machine washed at 95°C and tumble dried on a low heat setting.



Turn All® Cover can be autoclaved at a maximum temperature of 121°C.

Disinfection of the Turn All® system

The Turn All® system must be disconnected from the mains supply before cleaning.

If the Turn All® system has been contaminated by body fluids, it can be cleaned.

The Turn All® Multi Patient inner mattress can be cleaned with warm water and soap. Disinfection can be done with a 1% chlorine based appropriate solution.

The Turn All® Control Box can be sprayed with a suitable disinfectant or with alcohol / propyl alcohol on a damp cloth for wiping.

Note! Do not use caustic or abrasive cleaners or sharp objects to clean the Turn All® system.

If the Turn All® system needs to be cleaned you can take out the inner mattress **(H)** figure 1, open the zipper in the cover **(J)** figure 1 and remove the upper part.

Open the zipper **(L)** figure 1 and pull the connection tubes **(B)** Figure 1-2) through the opening into the lower part of the cover.

Losen the 6 kamsnaps **(K)** Figure 3.

The inner mattress **(H)** Figure 4, can now be removed. The cleaned mattress is mounted as shown in reverse order.

Figure 1

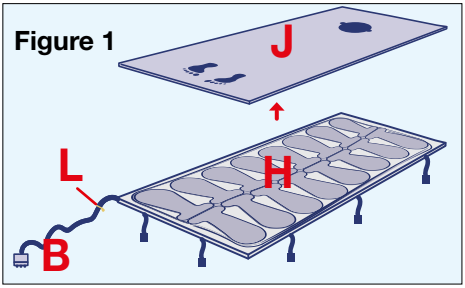


Figure 2

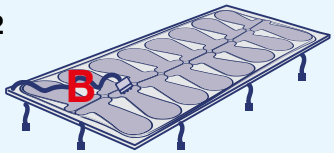


Figure 3

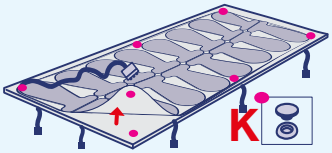
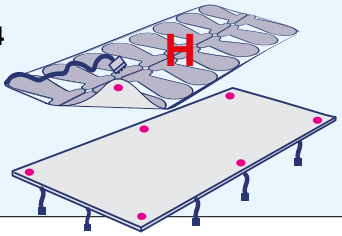


Figure 4



Notification of accidental events

Malfunctions or malfunctions in the appliance that have caused personal injury must be notified immediately to the competent authority and the company Levabo ApS.

Note! The competent authority may require that the operator be notified of the incident by an expert at his own expense and submit the assessment in writing. The expert shall be selected in agreement with the competent authority.

The technical safety assessment includes the following elements:

- What the event can be attributed to
- Whether the product was in good condition
- If there is any further danger after repair of malfunction
- Whether new knowledge has been obtained, which require others or further precautions.

Technical data

Dimensions (L x B x H)
Cover: ..... 200 x 85 x 15 cm
Lifting mattress: ..... 200 x 85 cm
Pump: ..... 8 x 27 x 13,5 cm

Veight
Pump: ..... 1.5 Kg
Mattress with cover: ..... 4 Kg

Lifting angle
Dynamic (automatic): ..... 30°
Static (manual): ..... 0° - 30°

Electrical data
Mains voltage: 240V
Frequency: ..... 50Hz / 60Hz
Power consumption: ..... Max. 12 W
Classification: ..... Klasse II
Fuse: T500mA L250V

Storage
-10º to 50º Celcius.
Relative humidity 0% to 95% without condensation.

Conditions of use
Designed for continuous operation.
Application temperature:
0° to 40° Celcius.
Relative humidity 20% to 95% without condensation.

Standards
See approvals on page 17.

Approvals, standards and regulations

Cover upper part
Medical BI ELASTIC PES PU

Antibacterial and Antifungal:
ISO 22196:2011 - **PASS**

Flammability BS 7175 ignition source 5
Pre-treatment: None
Method of Test: BS 7175: 1989 (2013)
Section 3 - **PASS**

Flammability BS 7177: 2008 + A1: 2011 Low Hazard
Method of Test: BS EN 597-1: 1995 & BS EN 597-2: 1995 - **PASS**

EN 1021-1-2: - **PASS**

Cover bottom part TPU
Fire retardant black
600D TPU coating dacron fabric.

Antibacterial and Antifungal:
ISO 22196:2011 - **PASS**

Flammability BS 7175 ignition source 5
Pre-treatment: None
Method of Test: BS 7175: 1989 (2013)
Section 3 - **PASS**

Flammability BS 7177: 2008 + A1: 2011 Low Hazard
Method of Test: BS EN 597-1: 1995 & BS EN 597-2: 1995 - **PASS**

EN 1021-1-2: - **PASS**

Cover bottom part PVC
Black 600D PVC-coating dacron fabric.

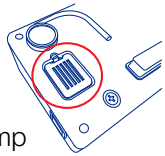
Pump

Tested and approved in accordance to: IEC 60601-1: 2006 +A1: 2013: General Requirements for Basic Safety and Essential Performance.

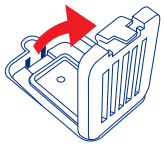
Tested and approved in accordance to: EN60601-1-2: 2007
General Requirements for Basic Safety and Essential Performance, Collateral Standard: Electromagnetic Compatibility.

Tested and approved in accordance to: IEC 60601-1-11: 2015 (2. Edition) for use in conjunction with IEC 60601-1:2012 (3. Edition) + A1: 2012
General Requirements for Basic Safety and Essential Performance, Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healtcare environment.

Changing the filter in the pump



1. On the back of the pump there is a cover



2. Open the cover



3. On the inside of the cover is the filter, replace the filter and mount in reverse order.

Turn All® product range

Product name	Used for mattress size cm	Max weight in Kg	Product no.	Application
Turn All multi-patient 3CT incl cover	85-105 x 200	225	70128	Kit containing Turn All® lifting mattress, 1 Turn All® cover w/ TPU lower part, and 1 pump, 3 cycles: 30/30, 60/60, 90/90 minutes
Turn All Cover w/ TPU lower part	85 x 200	N/A	70114	Cover for the Turn All® lifting mattress w/ TPU lower part.
Turn All Pump 3CT	27 x 13 x 10	N/A	76117	Pump for the Turn All® system, 3 cycles: 30/30, 60/60, 90/90 minutes
Bariatric				
Turn All multi-patient 3CT Bariatric with cover	100-120 x 210	400	70098	Kit containing Turn All® lifting mattress, 1 Turn All® cover w/ TPU lower part, and 1 pump, 3 cycles: 30/30, 60/60, 90/90 minutes
Turn All Cover Bariatric	110 x 210	N/A	70126	Cover for the Turn All® Bariatric lifting mattress w/ TPU lower part.

Explanation of symbols on the packaging

Explanation of symbols on the packaging					
	Read the user guide		Expiration date	CE	Conformité Européenne
LOT	Production number	REF	Product number	5 PP	Material in the packaging
	Manufacturer		Date of manufacture	MD	Medical device

CE

Declaration of Conformity (CE)

The company Levabo ApS, Sverigesvej 20A, 8660 Skanderborg, declares that the products are designed and manufactured in accordance with the technical documentation and legal requirements.

Product

Turn All® is an active medical product in accordance with:
EU Regulatory MDR (EU) 2017/745, Medical Devices - Class 1.

Production

EN ISO 9001: 2015 QMC
EN ISO 13 485: 2016 MD-QMC

Maintenance

Turn All® Mattress

The mattress should be cleaned regularly, see cleaning page 14.

Turn All® Pump

The Turn All® control box can be cleaned with a suitable disinfectant or with alcohol/propyl alcohol on a damp cloth to wipe dry.

The filter in the pump should be changed once a year, see page 17.

Troubleshooting

The pump does not start

Check that the cord is properly plugged into the pump and the power outlet and the power outlet is turned on.

Mattress does not lift but the pump is running

Check that the hose coupling is properly connected to the pump
Check that the CPR vent is properly closed.

Pump does not pump as expected

Switch off the pump, unplug it, wait 10 minutes. Plug the pump into the power socket and switch on the pump.

FAQ

Which bed do I need to install the Turn All® system?

The Turn All® system can be integrated into a standard bed with a removable mattress.

How do I clean the Turn All® system?

The Turn All® cover (the blue cover) is washable and can be washed in the washing machine at 90° C. and tumble dry on a low setting.
Note: The inner lifting mattress is not machine washable. The inner lifting mattress can be washed with warm water and soap.
Disinfection can be performed with an appropriate 1% chlorine based solution on a damp cloth for wiping.

What are the dimensions of Turn All®?

(L x W x H)
Cover: 200 x 85 x 15 cm
Lifting mattress: 200 x 85cm
Pump: 8 x 27 x 13.5 cm

How much does Turn All® weigh?

Pump: 1.5 kg
Mattress with cover: 4kg

What is the maximum user weight for Turn All®?

The Turn All system 1C / 3C is designed for patients with a body weight of up to 225 kg.

The Turn All Bariatric system 3C is designed for patients with a body weight of up to 400 kg.

Tips

Change lifting side

If the pump lifts in the opposite side of what you want, switch off the pump, wait a few seconds, switch the pump on again and it will lift in the opposite side.

Bed Bath

When washing bedridden patients, Turn All® can be a great help to get the patient in 90° side position for washing and personal hygiene.

Starting the pump

Please note, When turning on the pump it takes approx 20 seconds before starting.

The pump rubberband

Do not remove the rubberband **(1)** on the back of the pump, it is for holding the pump tight to the bed.



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Turn All Adapters

Adapters provide extended tilt functions for the Turn All System.

The adapter is easily inserted between the hose on the tilt system and the pump.



Scan the QR code for more information about Adapters.

LEVABO® medical

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