

MANUAL



Agito CT23
Mobile GE Voyager
Project: 239016

TRAILER IDENTIFICATION

The present manual relates to the following equipment:

Model : **Mobile GE CT trailer**

Trailer number : **CT23**

Build : **2023**

Project number : **239016**

Chassis number : **XL9T03000P0150865**

Generator number : **A1816**

Patient lift number : **2303616**

Customer : **Agito**

Date : **29 November 2023**

GENERAL INSTRUCTIONS FOR USING THE TRAILER

Contents

1. Introduction.....	4
2. On site preparations for use of the medical unit.....	6
3. Preparing the trailer for service / Uncoupling.....	7
4. Preparing the trailer for transport.....	8
5. Level / Hydraulic System.....	9
Setup of the trailer.....	10
Closing the trailer.....	14
Possible errors in hydraulic system.....	14
6. Stair & Canopy.....	15
7. Power Supply (400 Volt - 200 A).....	16
Connecting the power supply.....	16
8. Heating, Ventilation & Airco System.....	23
Possible errors in electric system of the HVAC system.....	24
9. Patient lift.....	25
10. Electric Canopy.....	32
11. 24 volt circuit.....	33
Illumination in storage boxes.....	33
External flood lights.....	33
12. Telephone / Computer.....	34
13. LED lighting control.....	35
14. Water system.....	35
15. Water connections.....	35
Recommended inspection procedure.....	36
16. Air humidifier.....	37
17. Diesel Generator.....	38
18. Emergency lights / emergency-exit lights.....	39
19. Fire-alarm.....	40
20. Burglar-alarm.....	40
21. Frosted glass.....	41
22. Transport warning lights.....	42
23. Special provisions for CT system.....	43
Radiation Emissions.....	43
X-ray warning lights.....	44
Scanner power On/Off Securing equipment for safe transport.....	45
24. Trailer Chassis.....	46
Spare tyre.....	47
Data of Chassis.....	48
Maintenance of Chassis.....	49
25. Key list.....	51
26. Manufacturer.....	51

#	REVISION	DATE	NAME
	Initial version	29-11-2023	mm

1. Introduction

Welcome in the CT trailer manufactured by Lamboo Medical Europe.
We engineered this trailer to make it as comfortable, safe and easy to use as possible.
The purpose of this manual is to understand the working of all components and systems of the unit delivered by Lamboo.

- Please read all these manual completely and clarify any unclear points prior to commencing work!
- Only instructed people should operate the various components and systems.
- Always use common sense, and try to prevent damage to the systems and dangerous situations.
- Keep unauthorized persons away from the risk zone and working area



Notice!

This manual does not contain information regarding equipment delivered by third parties or installed afterwards.

Before operation, read the manual of that appropriate system!



2. On site preparations for use of the medical unit

For the onsite preparations for use of this trailer we have composed a separate "SITE PLANNING GUIDE".

See appendix 4 for the Site Planning Guide.



3. Preparing the trailer for service / Uncoupling

The following steps should be followed

- Park and level the trailer as described in the chapter “Level / Hydraulic system”
- Open the slide outs as described in the chapter “Level / Hydraulic system”
- Setup the stairs and canopy as described in the chapter “Stair & Canopy”
- Connect the power supply as described in the chapter “Power supply”
- Turn on the airco system as described in the chapter “HVAC system”
- Setup the patient lift as described in the chapter “Patient lift”
- Setup the canopy as described in the chapter “Canopy”
- If necessary connect the telephone and computer cables as described in chapter “Telephone / Computer”.
- Check the level of the tank of the diesel generator. See chapter “Diesel generator”



4. Preparing the trailer for transport

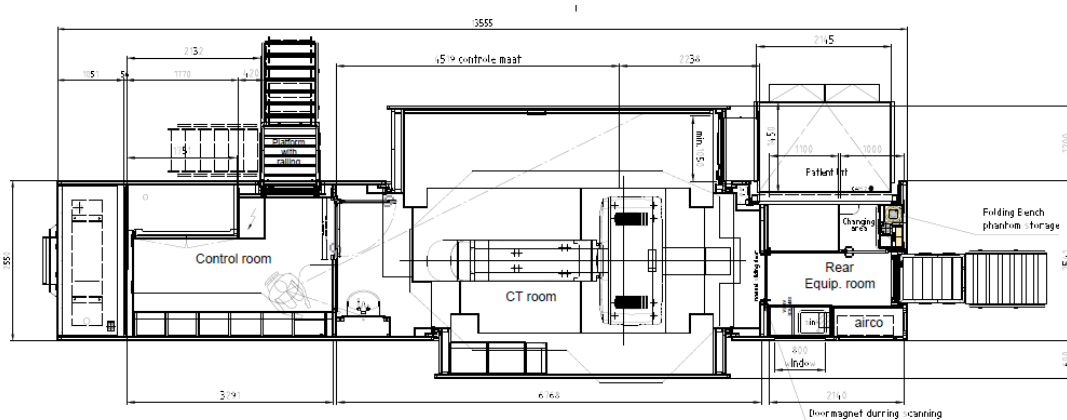
Reverse the steps of the setup:

- Shore all equipment as described in chapter “Securing equipment for safe transport”
- Check the level of the tank of the diesel generator. See chapter “Diesel generator”
- Disconnect the external connections, such as telephone- and computer cables.
- Turn of the aircon system.
- Remove the power cable and store it.
- Remove the railing from the patient lift and put the lift in transport position
- Close the canopy
- Remove the stairs and store them.
- Place the hydraulic support legs in the transport position and connect the tractor described in the chapter “Level / Hydraulic system”
- Check the trailer chassis as described in chapter “Trailer chassis”.

5. Level / Hydraulic System

The level / hydraulic system has the following components:

- 4 hydraulic supports of the chassis
- Extension cylinders for the slide outs
- Opening of the floor flaps of the slide outs
- Electric box with connector for remote control
- Safety sensors



The hydraulic components are located in a storage box at the left side of the trailer. All the hydraulic valves and pumps are located on a base plate and has easy access for maintenance and eventual repair works. Also in the hydraulic storage box is the electrical component box located.

The hydraulic system is equipped with sensors which detect the position of the slide outs:

- If one of the manual floor flaps is not open and locked, it is not possible to slide in the slide outs
- If the slide out is not fully extended it is not possible to lower the floor flaps
- If the small flap at the entrance door of the slide out is not in upward position and locked it is not possible to slide in the slide out.

In case of emergency and for service purpose the safety devices of the hydraulic system can be overruled with a switch: "OVERRIDE OFF/ON" which is located in the storage box.



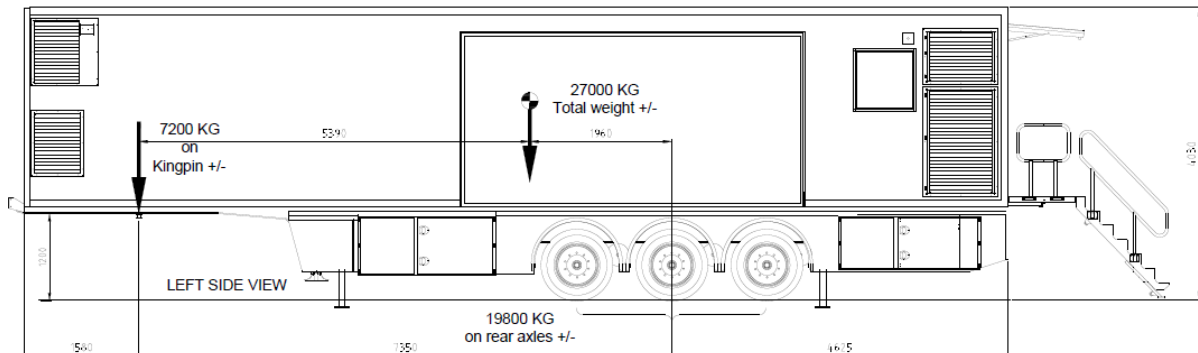
Setup of the trailer

- Park the trailer on a flat and horizontal solidly paved place, which can hold the mass of the trailer, which is approximately 27.000 kg.
- Place nylon blocks underneath the support legs.
- Lower the front manual supports and rotate them down until the trailer is lifted from the fifth wheel (coupling).
- Uncouple the trailer and move the tractor 0,5 m away from the trailer.







IMPORTANT NOTICE:


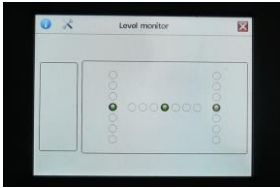



In order to ensure proper operation of the stabilizing system the ground must be level and the deviation must not exceed 1% (which is 0,6 degree!).



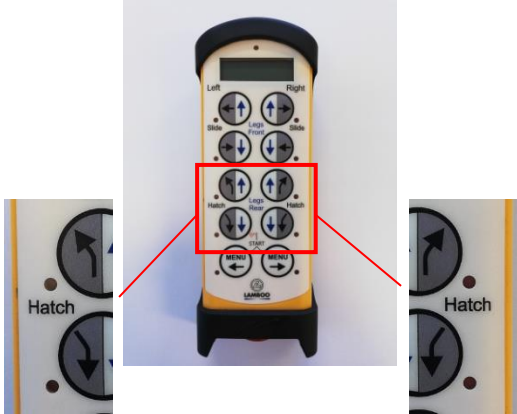



The next steps are to set up the trailer:

Item	Description	Picture
a)	Place nylon blocks underneath the support legs.	
b)	Switch on the 24V on the hydraulic system	
c)	Get the remote control out of its charger. The remote control is located in the control room in the cupboard where the main panel is.	
d)	Switch on the remote control by pushing the lower two buttons "Menu" simultaneously. (The emergency button must be in the pulled out position)	



<p>e)</p>	<p>Lower the hydraulic support legs by pushing the buttons dedicated for the support legs. Note that the screen will show the menu “legs”.</p> <p>Together with the screen mentioned in step f) you will need to level the unit.</p>	
<p>f)</p>	<p>The trailer will be level if the display will show all lights aligned and green.</p> <p>The bubbles work according a standard spirit level.</p>	
<p>g)</p>	<p>Scroll through to the next function in the menu by pressing the right menu button.</p> <p>This function is to operate the slide-outs and hatches.</p>	
<p>h)</p>	<p>First drive the right slide-out out by pressing the button that lights up.</p> <p>All led's that are not led up are not operational.</p> <p>Note that first the right slide out needs to be out prior to sliding out the left slide out.</p>	
<p>i)</p>	<p>Drive the left slide-out out by pressing the dedicated button (that is now lighten up).</p>	



j)	In the same menu you can now operate the hatches of both the right and left slide out by the dedicated buttons.	
k)	Lower the foldable floor section in the right slide-out by pushing the button floor section right down	
l)	Lower the foldable floor section in the left slide-out by pushing the button floor section left down	
m)	Open the patient lift and lower it at street level. Then fold down the override platform at the end of the right slide out to make the connection to the patient lift.	

Closing the trailer

Shore all equipment as described in chapter “Securing equipment for safe transport”

- Reverse the steps of the setup.

WARNINGS:

- Make sure that the interior is clear for sliding in!
Remove items from the floor flaps
- Before closing the slide out, the flap for the patient lift must be locked in the transport position
- Make sure the interior is clear for sliding in! Remove all items from the floor flaps



IMPORTANT NOTICE

- Before using the hydraulic system, make sure that there is enough working space around the semi-trailer.
- Always place nylon blocks under the supports.
- Check regularly the system on leakage and enough hydraulic oil. (The gauge glass is located outside the tank, so it is easy to check the level of the hydraulic oil)
- The hydraulic system is powered by the 400 Volt system. After using the hydraulic system always switch of the main power switch on the electric cabinet in the belly box, so there will be nobody who can actuate the system, while other people are working in the trailer! Be careful!
- The hydraulic system is checked and all the pressure are installed and cannot be altered without confirmation of our firm!

Possible errors in hydraulic system

- No electric power on the hydraulic system. Turn on the 400 Volt circuit
- The hatches are not closed. Check the control panel.
- The trailer is not leveled. Check the control panel.
- Fuses in hydraulic system are out of order. Replace fuses.
- Oil level in hydraulic tank is too low. Check oil and fill if necessary.
- Check connections of the hoses and pipes for leakages. Repair leakages



6. Stair & Canopy

In front of the entrance door is the platform for the stairs and the canopy located:

To install the platform, railing and stairs:

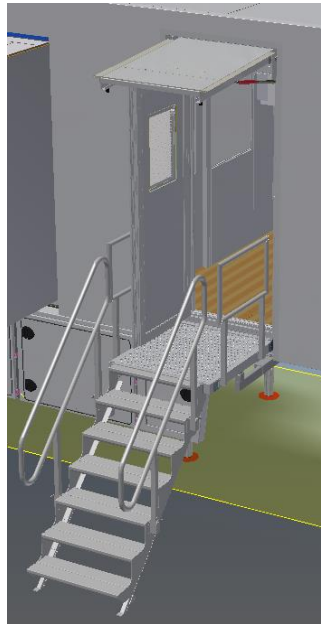
- Unlock the platform supports and rotate it outwards and lock them.
- Unlock the platform and rotate it down
- Connect the stairs and level the stairs with the adjustable feet.
- Connect the railing on the stairs and platform.
- Go on the platform and lift up the canopy

If necessary, do this also for the 2nd entrance at the rear of the unit.

To store the canopy, platform, railing and stairs:

- Close the canopy and lock it.
- Store the stair in the storage box.
- Store the railing and the platform feet
- Rotate up the platform and lock it.

Main entrance



Rear entrance




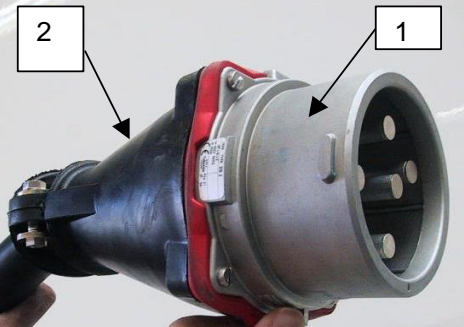

7. Power Supply (400 Volt - 200 A)

Connecting the power supply

In the belly compartment on the left is the shore cable located.
The Power Distribution Board (PDB) located in the control room.
The trailer is equipped with a 400 volt 3 phases 50 Hz electric system according to the TN-S system. It has the following modes for receiving power:

- Connecting to the shore power supply or external generator set
- Connecting to the onboard generator set during transport.

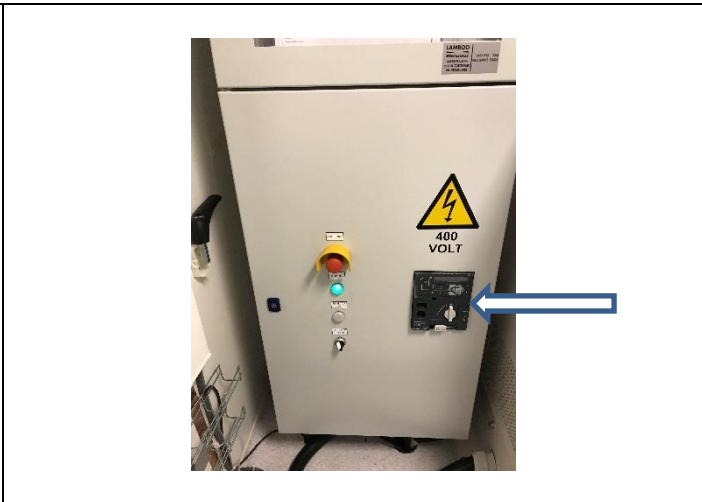
Connect the shore power supply

<p>a)</p>	<p>In the storage compartment at the left side is the shore cable & shore connector located.</p> <p>Before connecting the mains cable, connect the clean earth of the hospital to the terminal in the belly compartment.</p>	
<p>b)</p>	<p>Connect the power supply socket 250 A Marechal the storage box to the socket of a hospital or a building with a power-line connection.</p>	
<p>c)</p>	<p>Go to main switch board, check the phases are ok. phases.</p> <ul style="list-style-type: none"> • If the phases are OK the GREEN lamp illuminates. • If the power line voltage is not OK. Call an professional electrician to check the system. 	



d) The Socomec device must be switched in auto mode

The somatec device first checks the rotation field and voltage before the power is switched to the electric circuits in the trailer.



e) At line power the Socomec device lights up the green led lights as shown on the picture.

1. Light indicates line power (I)
2. Light indicates power OK
3. Light indicated power switched to system






f) At generator power the Socomec device lights up the green led lights as shown on the picture.

1. Light indicates generator power (II)
2. Light indicates power OK
3. Light indicated power switched to system

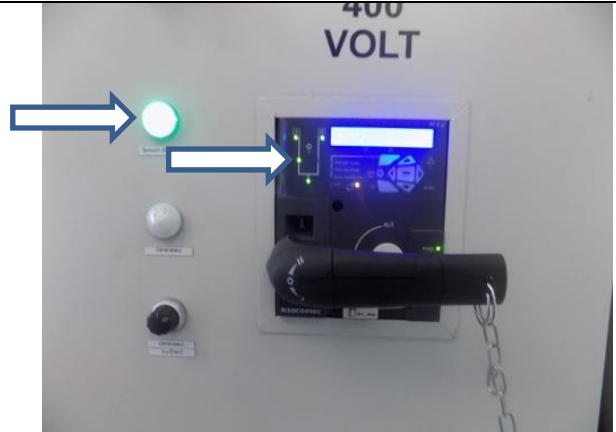




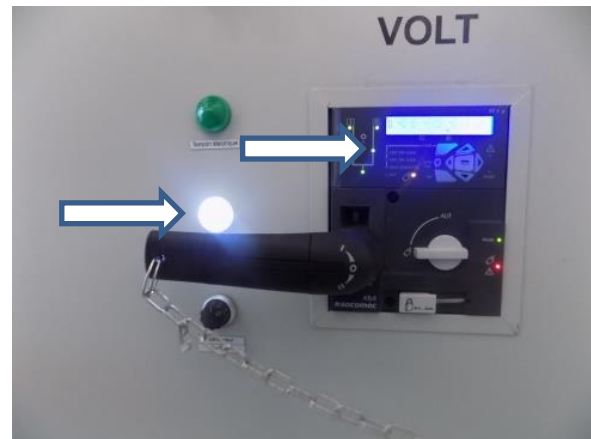
<p>g)</p>	<p>On the electric cabinet the white light generator power will light up.</p>	
<p>h)</p>	<p>The Socomec device is executed with an internal automatic trans over switch.</p> <p>In case the line power drops the optional generator starts up and the Socomec device will automatically switch over to generator power.</p> <p>In case that the line power comes back the device will automatically switch over to line power and switch of the generator. Line power is always leading.</p> <p>The Socomec device is executed with a manual override. This override can only be used by skilled authorized personal.</p> <p>Switch the device from auto to manual mode.</p> <p>Look in the square opening in the device and check if it shows "O"</p>	 
<p>i)</p>		



Install the key handle and rotate the handle to switch to line power (I)



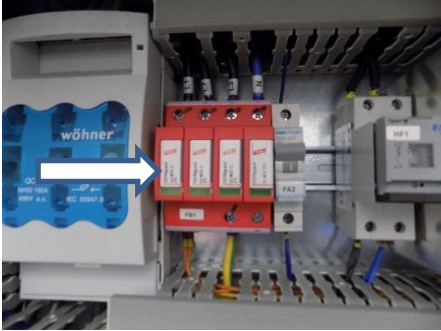

Or generator power (II).



The main electric cabinet is executed with an emergency stop to be able to switch off the power to all the circuits.





<p>J)</p>	<p>The main electric cabinet is executed with an overvoltage protection. This overvoltage protection (Dehn Block) has the same function as a fuse.</p> <p>In case of a overvoltage, for instance a peek current caused by lightning, the overvoltage protection will switch off the power to the system by putting the ATyS Socomec in the zero position.</p> <p>After this the Dehn block has done its function it needs to be replaced by an authorized electrician.</p> <p>In case of emergency the manual override switch can be used as described in chapter h) In this case the system will be unprotected!</p> <p>Dehn overvoltage protection: DEHN DGM TNS CI 275 FM Art. number. : 952406</p>	
<p>I)</p>	<p>Turn on the lights, equipment, computers, airco etc. and check their functioning</p>	

IMPORTANT NOTICE:

- Keep the sockets and the cables in a perfect condition!
- The mains cable is not intended to withstand the wear and tear of traffic passing over it. Provide necessary protective ramps or other means to protect the cable where it traverse roads or pathways
- See for further checks, the electric diagram in this manual.



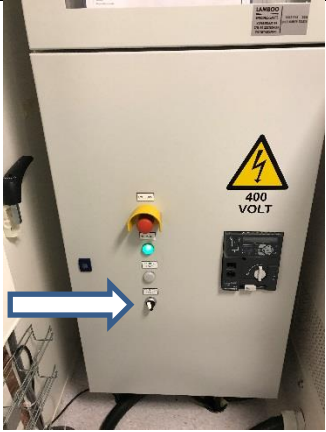
Possible errors in electrical system

- One or more phases are not connected. Let this check by a skilled electrician!
- Earth-leakage-contact-breaker out.
- Fuse defect or phase down? N.B. If earth-leaking contact-breaker activates every time, first switch off all automatic fuses, then switch on the earth-leakage-contact-breaker and then switch on every automatic fuse, one after each other, until the circuit is known which gives the error. Check first the error before switching on the system again !
- Check the power-line of the installation (in a building or another providing power-system with 400 Volt). A fuse can be blown. Let this check by a skilled electrician!
- Check the power-line cable. If there are damages, replace the cable.
- Check the switches in the different circuits.

Connect to the onboard generator set supply

During transport the air-conditioning system must be running at all times to keep the medical system in optimal condition. Except for the change over time between building and generator power which should be minimal.

The benefit of doing this is that the equipment is on the right temperature for scanning.

<p>a)</p> <p>Go to main switch board, there is the OFF/ON switch of the automatic start of the genset located:</p> <ul style="list-style-type: none"> - ON: Genset starts automatic when shore power is removed. - OFF: Genset is switched off and will not start automatic <ul style="list-style-type: none"> •If the shore power cable is connected and powered up, the onboard generator stops automatic •If there is NO shore power cable connected and the genset needs to stop, rotate the switch in the OFF position. •Also on the PDB is a white lamp located. When this lamp illuminates, the unit runs on generator power. 	
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------

IMPORTANT NOTICE

- The shore cable 70 mm² is suitable for max 415V / 172 A shore connection!
- The mains cable is not intended to withstand the wear and tear of traffic passing over it. Provide necessary protective ramps or other means to protect the cable where it traverse roads or pathways!

Disconnect the power supply

- Switch of the illumination with the proper switch.
 - Switch of all other used electric power.
 - Check if all wall sockets are clear.
 - Disconnect the 400V power supply from the socket at the hospital and store the cable.
 - The generator will start automatic after 3 minutes if the generator switch is in the position "1"
 - If not, turn the generator switch in the position "1" on the main power supply cabinet.
- If the generator will not start automatic, the turn it on by hand.

8. Heating, Ventilation & Airco System

The system contains:

- 1 system for the control room
- 1 system for the examination room
- 1 system for the technical room

The condenser unit for the control room is located at the front side the trailer.



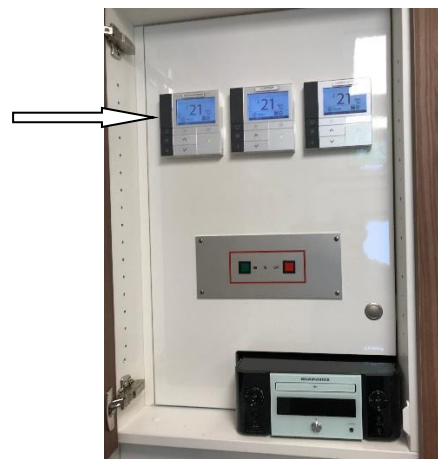
The condenser units for the examination room and the technical room is located at the rear side of the trailer.



Room controller operation

Each room has its own room controller to set the required ambient temperature and airflow.

Normally the settings of the room controller should not be adjusted.



IMPORTANT NOTICE:

- Never block the grills for the HVAC system. following clearance for the airflow must be obtained:
-1000 mm for the front grills

**Possible errors in electric system of the HVAC system**

- Manual isolating switch near compressor is not activated. This is an on/off switch, which is mounted on near the hvac outside units. Each compressor has its own switch. The switches are for service purposes and only for service-people!
- One or more phases of the 3 phase power-line is out of order. Let this check by a skilled electrician. (Connector or cable is damaged, power-line).
If the 3-phase connection is out of order the motor will rotate in the wrong direction. There is a label on the A/C that indicates which way the motor should turn.
- Check the earth-contact-breaker.
- Check the fuses.
- Check the 400 V system

9. Patient lift

The patient lift is located in the right side of the trailer.

The control of the lift can be performed with a remote with a cable.

Installation for operation:

- Activate the 400V system (switch on generator)
- Turn on the patient lift system.
- Unfold the platform
- Roll stop will be turned mechanically
- For safety reasons put the railing on the platform

Before moving the trailer close the platform and lock the platform.

For safety instructions, see the operating manual of the patient lift.

Have the patient lift periodically inspected by authorized experts, minimum once a year.



IMPORTANT NOTICE:

The Patient lift has an electrical interconnection with the door.

If the patient lift is up, the door in the slide out can be opened and closed.

If the door is open, the Patient lift cannot be lowered.



PATIENT LIFT TROUBLE SHOOTING

- No electric power on the hydraulic system. Turn on the 400 Volt circuit.
- Check inside the control room if the outside control is switched ON
- Fuses in hydraulic unit of the lift are out of order. Replace fuses.
- Check the earth connection of the push-in hydraulic unit and of the lift.
- Check the oil level in the tank of the hydraulic unit. Fill oil if necessary.
- Check if any mechanical or electrical components are damaged.
- For more faults and remedies, see the operating manual of the patient lift.



On arrival, open the door of the belly locker



Press the red button, you can now use all for 5 minutes



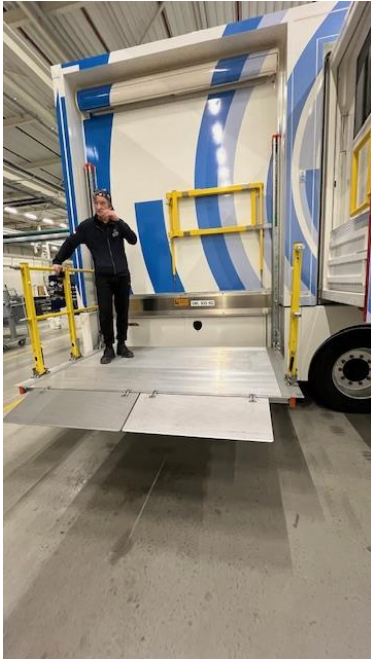
Connect the Remote Control



Close the belly locker, now you can work for 5 minutes
Lower the Lift to the lowest position, nearly on the ground



Unlock the handle to put the platform out



Put the yellow handrails in place









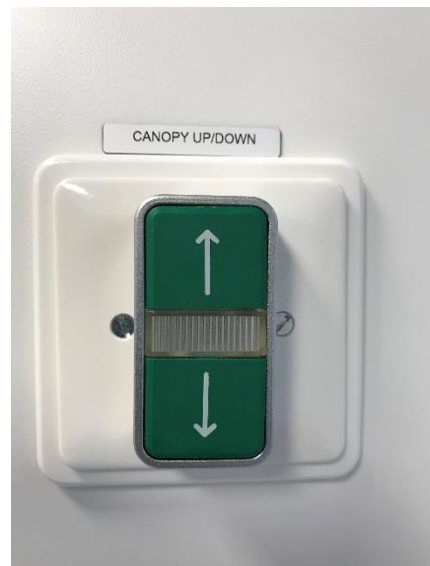
To use the Lift correct, please be sure that all doors of the belly lockers are closed

10. Electric Canopy

In the right side wall is a canopy located.



This canopy can be electrically operated with a switch in the side wall of the control room

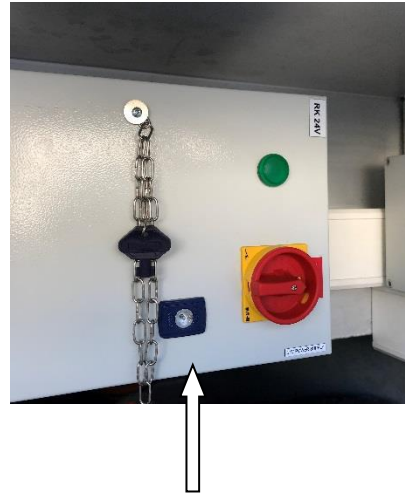


11. 24 volt circuit

A electric cabinet with a transformer 230V-24V is installed in the belly compartment with line power connections.

This circuit supplies following systems:

- Illumination in storage boxes
- External flood lights
- Interlock lift & door
- Control of the patient lift



Illumination in storage boxes

The switches of the storage box illumination have a motion detection mechanism to install the time for illumination to avoid a flat battery if one forget to switch off these lights!

If there is a problem with these lamps check the next things:

- * Lamp is broken, replace lamp
- * switch or time-mechanism is broken, replace it.



External flood lights

The mobile trailer is equipped with external flood lights for lighting the pedestrian area around perimeter of the trailer. They are located at the corners. They are recessed into the exterior wall at high level and are fully adjustable. (see photo)

The lighting circuit is controlled via a switch located in the storage box



12. Telephone / Computer

In the belly compartment are several connections installed:

- 4 RJ45
- 2 Fiber optic

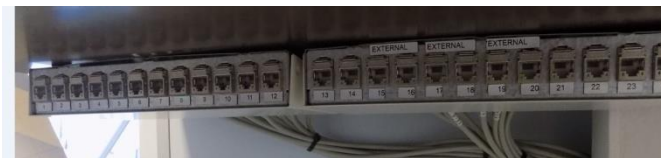
The CAT6 data line run to the patch panel under the desk in the control room.

The fiber optic cables run to the IT cabinet in the control room.



A patch panel is installed in the control room under the worktop.

From here the external lines can be patched to the several outlets in the control room.



13. LED lighting control

The new Agito Ct15 is equipped with LED dimmers which can be set to 25% / 50% / 75% or 100% A RGB colour circle is petitioned inside the control room to operator the RGB lighting inside the CT room

14. Water system

The trailer is equipped with a fresh water connection and a drain water connection.

The internal waterlines run to the sink, the air humidifier in the scan room and the sink in the technical room.

15. Water connections

At the left side of the trailer near the front hydraulic leg are the fresh – and drain water connections installed.

The water system needs to be fed by an external water tap at the hospital or building



IMPORTANT NOTICE

- * Always flush the hose properly before connecting it to the external tap!
- * At low temperatures there is a possibility that the hose can freeze. Take measures to protect the filling hose from freezing

Recommended inspection procedure

Lamboo recommends to inspect the water system regular as stated below:

System/service	Task	Frequency
Piping	Check the piping on damages and flush through drain	Monthly
Couplings and taps	Check the couplings and taps on leakage	Monthly
	Check that temperature is below 20C after running the water for up to two minutes in the sentinel taps	Monthly
	Check representative taps for temperature as above on a rotational basis	Annually
Hot water services	Arrange for samples to be taken from hot water calorifiers, in order to note condition of drain water	Annually
	Check temperatures in flow and return of calorifiers	Monthly
	Check water temperature up to one minute and see if it has reached 55C in the sentential tabs	Monthly
Shower heads (If applicable)	Dismantle, clean and descale shower heads and hoses	Quarterly
Emergency showers and eye wash sprays (If applicable)	Flush through and purge to drain	Monthly
Complete system	Shock treatment cleaning	Six monthly

16. Air humidifier

The examination room is equipped with an air-humidifier brand Carel to regulate the humidity in the room.

The air humidifier is connected to the external line water connection.



The settings of the air-humidifier can be changed on the Carel controller in the examination room.



17. Diesel Generator

The diesel 30 KVA generator 400V/50Hz is located at the front side of the trailer. The fuel tank with a capacity of 220 liters is within the power pack. The filler cap is at the front side in the power pack.

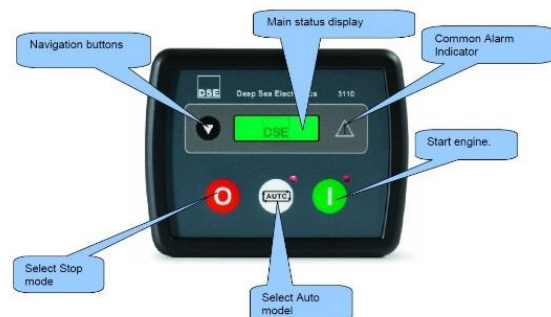
Behind the door of the generator there is the generator control panel located with V-meter A-meter, diesel level meter, hour counter tell tales and control switch.

The control switch has the following positions:

- Automatic, the generator starts automatic when disconnecting the line power cable
- Manual, the generator can be started manually

The engine is protected against high temperature and low oil level. The generator will be stopped at:

- High temperature: the red telltale will illuminate.
- Low oil level: the red telltale will illuminate.



Important Notice

Take notice of the maintenance intervals of the generator!

See instruction of the engine manufacturer with respect to the change of oil and oil, fuel filter, belts and belt tensions, valve clearance, injectors and nozzles.

Daily checks:

- Oil level
- Water level of radiator if the engine is water cooled.
- Air cleaning
- Diesel tank level



18. Emergency lights / emergency-exit lights

All doors which gives access to the outside have an illuminated warning exit light.

The lights will switch over to the integrated battery pack which will feed the light when the power is cut off.



All rooms are equipped with emergency lights.

The lights will switch over to the integrated battery pack which will feed the light when the power is cut off.



19. Fire-alarm.

The trailer is equipped with 230V smoke and heat sensors which will give an acoustic alarm when they are activated.



Smoke - heat sensor

In the belly compartment with the line power cable are external contacts installed to be able to connect the fire alarm to the hospital.



20. Burglar-alarm.

The trailer is equipped with a burglar alarm.

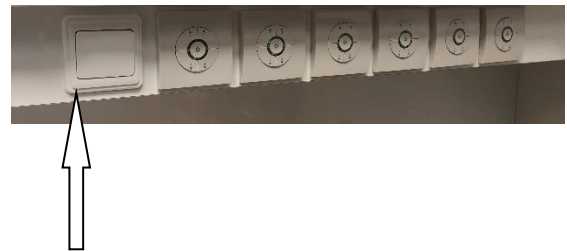


The system can be activated with the key switch in the control room.



21. Frosted glass.

The trailer is equipped with two windows in the dividing wall between the control room and the scan room which can be electrically blinded.



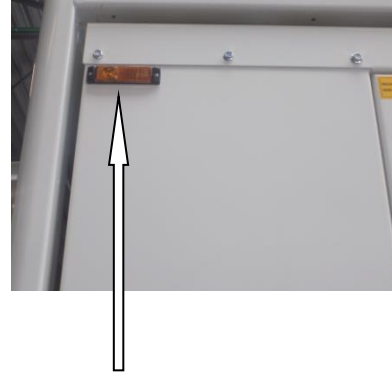
The system can be activated with the switch in the control room.

22. Transport warning lights

The trailer is equipped with transport warning lights on the front side of the trailer on the housing of the generator.

Generator run:

This light will light up when the generator supply the electric system with 400V





23. Special provisions for CT system

Radiation Emissions

The trailer is equipped with a lead protection structure. Despite of this measure, low level of radiation can exist outside of the mobile unit. The trailer should be placed in an area that keeps the exposure minimal to outdoor personal and to the environment.



In the separation walls and doors in the scan room, the glass has also an lead protection structure.

Special attention should be taken for cleaning the leaded glass:

- Blurring of the lead glass is caused by the wrong way of cleaning.
- Only clean glass when it is dirty (stains or fluids) and don't clean it more than necessary.
- Lead glass is more stain sensitive than normal glass.
- Transpiration and grease cause permanent damage to the lead glass
- Stains and fingerprints must be removed with a soft dry cotton (preferable a washed dishtowel).
- Never use bandage (scratching).
- Persistent stains may be cleaned with alcohol, directly followed by rubbing with a soft dry cotton cloth until the glass is dry.
- Wipe the glass completely dry after cleaning.

X-ray warning lights

Above the entrance door to the X-ray room from the control room and the sliding door from the equipment room are X-ray warning lights installed.

There are 2 stages:

Yellow lamp: Power to X-ray system available



Red light : X-rays on

Above the external entrance door to the control room a red X-ray warning light is installed. This lights up when x-rays are made



Above the entrance door to the slide out of the examination room a red X-ray warning light is installed. This lights up when x-rays are made



Scanner power On/Off Securing equipment for safe transport

WARNING:

Loose items can damage the interior of the trailer or the medical equipment through vibrations or vehicle maneuvers.

Make sure that every item is properly fixed before moving the trailer!

Before retracting the slide outs and moving the trailer secure all parts for safe transportation. Special care should be taken of the following equipment:

- Secure the CT equipment in the transport position.
- Lock the flap for the patient lift.
- Lock the door in the wall between the control room and the scan room with the locking device at the bottom of the door.
- Lock the sliding door in the separation wall and the access door to the patient lift.
- Secure the doors of all cupboards with the push locks
- Secure all equipment in the control room such as computers, flat screens, intercom system and chairs.
- Secure all items in the belly compartments, for example stairs, platform, railings.

24. Trailer Chassis

At the front side of the trailer are the connections points to the tractor for:

- * Brake system
- * ABS/EBS system
- * Lights.

When the connections are made, the brake signal from the tractor will be translated to the brake signal of the trailer.



The trailer is equipped with an air suspension system.

At the right side between the axles is the raise / lowering valve located.

With this valve you can adjust the height for leveling the trailer.

The trailer is equipped with a combined valve for trailer release and parking. This black button releases the brakes when the trailer has to be moved, without a tractor in front of it. The red button is the parking brake of the trailer.



At this point is also the EBS-diagnose plug located.

This can be used for checks on the brake system.

The trailer is equipped with a release system for the axle by parking. The switch under the EBS plug can activate this option to create less torsion by parking..

The trailer is equipped with a 2" coupling pin. The tractor must have the matching fifth wheel coupling.

The coupling height of the tractor should match the coupling height of the trailer which is 1,20 m

IMPORTANT NOTICE: :

- * Docking and undocking maneuvers when coupling and uncoupling the tractor to and from the trailer must be completed at the lowest practicable speed to minimize shock inputs to the medical system



Spare tyre

There is no spare tyre delivered with this trailer for a couple of reasons:

- * It is unusual now days if the driver has the tools to change a flat. Even if he has the tools, the torque required to seat the wheel nuts are so high that it is not possible to un tighten it by hands.
- * The spare tyre takes too much space in the belly compartments, space that better can be used for other components.

In case of a flat tyre it is recommended to call the road service to fix or repair.

Data of Chassis

• Make:	Lamboo
• Type:	T03
• Classification	O4
• Vehicle Identification Number	* XL9T03000P0150865*
• Location V.I.Number	At right side in main beam near king-pin
• Maximum permissible mass	39 000 kg
• Maximum load on axle 1	9 000 kg
• Maximum load on axle 2	9 000 kg
• Maximum load on axle 3	9 000 kg
• Maximum load on king-pin	12 000 kg
• Turning radius	2 040 mm.
• Front overhang	1 580 mm.
• Coupling height	1 200 mm
• Distance between rear axles	1 810 mm.
• Tyre-size	385/65 R22.5
• Suspension-system	BPW air-suspension with raise & lowering valve
• Make and type axle 1	BPW
• Make and type axle 2	BPW forced steered
• Brake type	Drum brakes
• Dimensions brakes	420 x 200 mm
• Brake system	Compressed air system acc. to Directive 71/320
• Parking brake system	Spring brake cylinders on axle 1
• ABS	Wabco 2S/2M.
• Coupling	2" GF KZ600 (662 102 601)
• Height	4 000 mm
• Width in transport position	2 550 mm
• Length	13 555 mm

Maintenance of Chassis

BEFORE THE FIRST RIDE AND AFTER EVERY WHEEL CHANGE

- * Check the tightening-torque of the wheel nuts, 600 Nm. Check them cross wise
- * Check the tightening torque of the hubcaps, 16-30 Nm
- * Check tyre pressure: 8,5 bar for dual fitted 275/70 22.5 tyres.
- * Check the exterior lighting and replace bulbs if necessary

BEFORE THE FIRST RIDE AND AFTER EVERY WHEEL CHANGE

- * Check the tightening-torque of the wheel nuts after 50 km and the next 100 km

For wheel nuts that have come loose and the results thereof, no claim or guarantee will be accepted at all

EVERY WEEK CHECK

- * Check the tightning-torque of the wheel nuts, 600 Nm. Check them cross wise
- * Check bearing play; adjust if necessary
- * Check tyre pressure: 8,5 bar for dual fitted 275/70 22.5 tyres.
- * Check the tyre condition and wear.
- * Check the exterior lighting and replace bulbs if necessary
- * Drain the air vessels. (In case of frost, this has to be done after each ride)

CHECK LIST after 1000 km

- * Check bearing play; adjust if necessary.
- * Check/adjust all fasteners at torque according to workshop manual.
- * Check springs for cracks and airlines for leaks.
- * Check dampers for evidence or oil-leaks.
- * Check valves, hoses and piping for leaks or rubbing-damage.

EVERY MONTH CHECK

- * Check the thickness of the brake lining, min. 5 mm thickness (inspection hole in cover)
- * Check the automatic slack adjusters
- * Check the braking system for working and leakage
- * Check the EBS and ABS system with the proper equipment

EVERY 3 MONTHS CHECK

- * Check bearing play, adjust if necessary
- * Check King-pin dimensions and damage
- * Check tightening bolts of the Kingpin bolts 130 Nm
- * Check the grease of coupling plate. Grease the coupling plate and fifth wheel if necessary
- * Check/adjust all fastener torques according to torque-table (see axle manual)
- * Check shock absorbers for evidence of oil-leakage.
- * Check springs for cracks
- * Lubricate camshaft bearings of brakes

EVERY YEAR CHECK

- * Grease the wheel nuts
- * Check the bearing play, adjust if necessary
- * Check the thickness of the brake lining, min. 5 mm thickness (inspection hole in cover)
- * Check the brake linings and brake drums for dimensions cracks and damage
- * Check the braking system for working and leakage
- * Check the brake cylinders on proper working
- * Check the EBS and ABS system with the proper equipment
- * Check King-pin dimensions and damage
- * Check damping frequency of the shock absorbers
- * Check the load sensitivity valve (if mounted)
- * Check alignment of the steering system
- * Check the trailer supports on proper working

EVERY 3 YEARS or 500 000 km CHECK (which is the first)

- * Clean hub system bearings (see axle manual)
- * New grease in hub and bearings

25. Key list

Entrance door to control room	KAUDNU14
Entrance door to technical room	KAUDNU14
Control / upper cabinet lock	2244
Interior sliding door to equipment room	KAUDNU14
Belly lockers	Industrila's 805
Door generator	Industrila's 805
Code lock on door cupboard control room	2244
Alarm system	MS1
Emergency light test switch	MS1
Key safe in belly locker	2015
Key safe front chassis	9300

26. Manufacturer

Lamboo Medical Europe B.V.

Michael Faradaystraat 2
2712 PR Zoetermeer.
The Netherlands.

Tel.nr. +31 79 363 83 83
Fax.nr. +31 79 363 83 10
E-mail : info@Lamboo-medical.com
Website : www.lamboo-medical.com

For maintenance and support email: service@lamboo-medical.com

Project number: 239016

Lamboo Specials Sales is **ISO 9001:2015** certified

MANUAL

AGITO CT23

ANNEX INSETS

- 1 LAMBOO general instructions for the trailer
- 2 General drawing Lamboo
- 3 Electrical diagrams and drawings Lamboo
- 4 Site Planning Guide
- 5 Documentation AC system
- 6 Documentation Air-humidifier
- 7 Documentation chassis
- 8 Documentation hydraulics
- 9 Documentation of Generator
- 10 Documentation patient lift
- 11 Documentation of the audio system
- 12 Documentation key safe
- 13 Documentation Marechal power connector
- 14 Water management
- 15 Inspection report low voltage systems (NEN)