

AIRIDE

*RIDE
WITH
AIR*

USER MANUAL



Before using your new electric wheelchair, the Excel Airide, you must first read the manual carefully and fully understand the user manual.

General introduction

We want to thank you for your confidence in our Excel products. The Excel Airide is a quality product from Van Os Medical and has unprecedented opportunities. The policy of Van Os Medical BV is focused on continuous quality and reliability of its products by developing. We also reserve the right, without notice, to make this guide changes.

This manual is written, based on the currently known specifications and configuration of the product. Although the manual has been carefully composed, Van Os Medical BV is not responsible for any errors in this manual or the consequences thereof.

It is important that you read this manual carefully before using the Airide. The manual contains important information about the safe use and maintenance of your electric wheelchair. We recommend that you keep this manual, it is also your proof of warranty and it will be useful for referring to at a later date.

The safety instructions in this guide are general guidelines that must be seen as broad guidelines. It is possible that you develop your own ways for many common actions. However, we advise you to consult a professional for assistance in developing safe and effective techniques with regards to your daily activities and your physical capabilities.

Your new electric wheelchair requires frequent maintenance, much of which you can do yourself. We recommend that you take your electric wheelchair at least once a year to be inspected by a professional. You will find a maintenance schedule later in this manual.

Caution!

In this manual you will find informative comments and warnings. These are clearly identified by the below symbols and the appearance of the text:

 **Tip** *Information.*

 **Warning** *To avoid personal injury, warnings must be followed*

Fill out the information on your authorized dealer below:	
Company:
Address:
Phone number:
Fax number:
E-mail address:
Website:

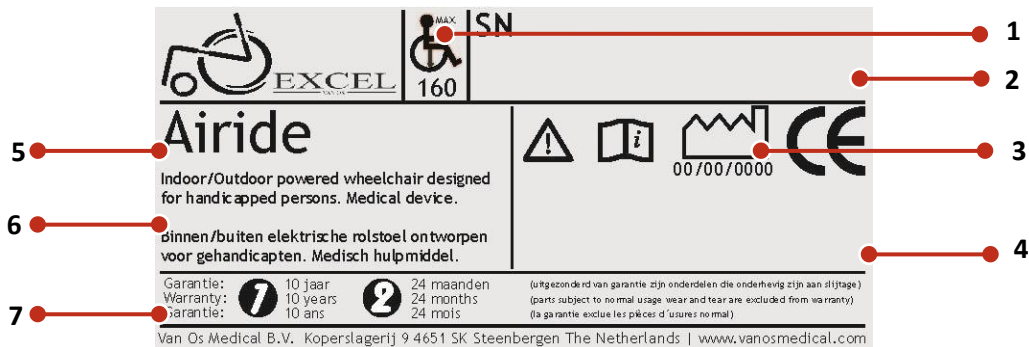
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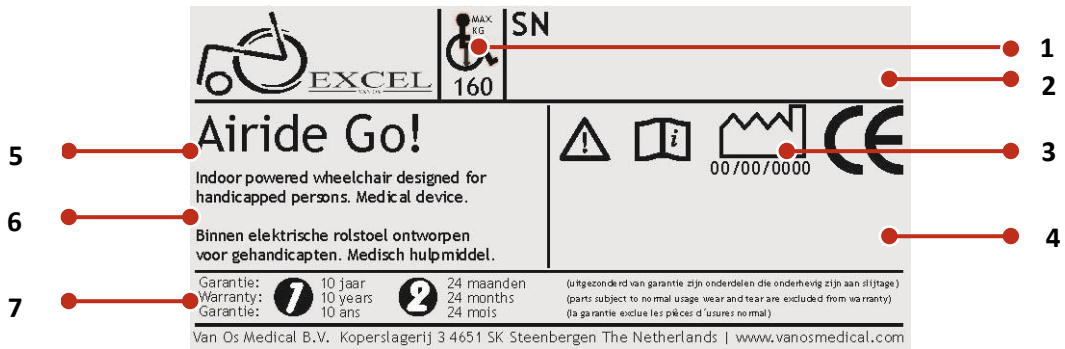
1. Identification

Your electric wheelchair is equipped with a unique serial number. You can find this number on the box frame of your electric wheelchair. Below is an example of the frame label of the Excel Airide, which you can find the serial number. Furthermore, you will find the explanation of the various data listed on the frame label seen below. The frame label of the Excel Airide B-ace, Excel Airide X-tend and Excel Airide S-preme are equal to the frame label of Excel Airide. The frame label of the Excel Airide Go! and Excel Airide Compact can be found on the following page.

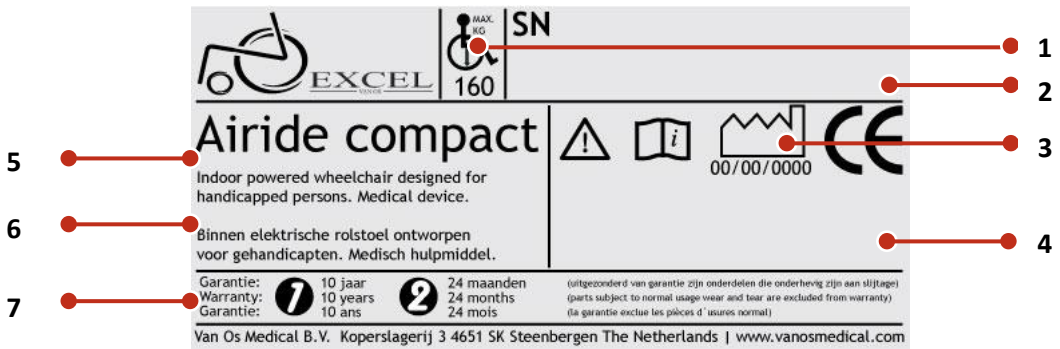


- | | |
|-------------------------------|---|
| 1. Maximum user weight | The largest occupant weight allowed for protection of both the electric wheelchair and the user. |
| 2. Serial number | Every electric wheelchair has its own unique serial number. You must have this number when making technical requests or if warranty parts are required. |
| 3. Production date | The date on which your electric wheelchair was manufactured. |
| 4. Type number | This number indicates which model of electric wheelchair you have, again this is always required when making technical calls. |
| 5. Model name | The model name of your electric wheelchair starts with the brand name Excel. The brand name Excel is followed by an additional model description that forms the model name of your electric wheelchair. |
| 6. Usage application | Where you can use your electric wheelchair for. |
| 7. Warranty | Here the warranty period of your electric wheelchair is reflected. Chapter 9 describes your warranty terms and conditions in more detail. |

Frame label Excel Airide Go!



Frame label Excel Airide Compact



In addition to the frame label of Van Os Medical BV, it may be that they have different labels on your power chair. This can be a label from your dealer or a label with a delivery number for your congregation. However, these are not important for this guide.

2. General explanation of the Excel Airide

Because there are several versions of Excel Airide available, in the following paragraphs all possible embodiments are described.

2.1. Components of the Excel Airide B-ace version



1	Controller	7	Feet plate	13	Side frame
2	Armpad	8	Anti-tip wheel	14	Back angle adjustment
3	Clothing protector	9	Drive wheel	15	Armrest
4	Seat	10	Swivel wheel	16	Backrest
5	Feet rest	11	Mudguard	17	
6	Batteries	12	Fork for the swivel wheel	18	

2.2. Components of the Excel Airide X-tend version



1	Controller	7	Tilt system	13	Mudguard
2	Armpad	8	Feet plate	14	Back angle adjustment
3	Clothing protector	9	Swivel wheel	15	Lightning
4	Seat	10	Drive wheel	16	Armrest
5	Comfort leg rest	11	Fork for the swivel wheel	17	Backrest
6	Side frame	12	Freewheel lever	18	Headrest

2.3. Components of the Excel Airide B-ace version



1	Controller	7	Feet plate	13	Back angle adjustment
2	Armpad	8	Swivel wheel	14	Lightning
3	Clothing protector	9	Drive wheel	15	Armrest
4	Seat	10	Fork for the swivel wheel	16	Backrest
5	Electric adjustable leg rest	11	Freewheel lever	17	Headrest
6	Side frame	12	Mudguard	18	

2.4. Components of the Excel Airide Go! version



1	Controller	7	Feet plate	13	Back angle adjustment
2	Armpad	8	Swivel wheel	14	Lightning
3	Clothing protector	9	Drive wheel	15	Armrest
4	Seat	10	Fork for the swivel wheel	16	Backrest
5	Comfort leg rest	11	Freewheel lever	17	Headrest
6	Side frame	12	Mudguard	18	

2.5. Components of the Excel Airide Compact version



1	Controller	7	Feet plate	13	Side frame
2	Armpad	8	Anti-tip wheel	14	Back angle adjustment
3	Clothing protector	9	Drive wheel	15	Armrest
4	Seat	10	Swivel wheel	16	Backrest
5	Feet rest	11	Mudguard	17	
6	Batteries	12	Fork for the swivel wheel	18	

Your Airide is equipped with a number of elements and parts. You should know these before you proceed reading the manual. Your wheelchair can be equipped with options and accessories not pictured. You will see this yourself whilst reading this manual. Designs and specifications are subject to change without prior notice.

2.6. General explanation of the functions and possibilities of your electric wheelchair

Your electric chair is designed for drive comfort; the unique shock absorption system absorbs the shock and vibration to a large extent. Your electric wheelchair is a product falling into the medical equipment and is not a standard consumer product. You must follow this manual completely to ensure good, optimal and safe use of your Airide.

2.7. Performances of your Excel Airide

The Excel Airide will be delivered in three different types, namely the B-ace, X-tend and S-preme. As a result, you may encounter some parts of this manual that does not apply to your version of Excel Airide. Your power chair is available in speeds of 6, 8 or 10 miles per hour. The Excel Airide features 75 Ah batteries. It is also possible to configure. Both a front-wheel drive and rear-wheel drive electric wheelchair among the Excel Airide are 14" drive wheels and 10" swivel casters. This may be because the Excel Airide consists of a chassis containing a unique seating system. With all the electric adjustments in the neutral position, both front wheel drive and rear-wheel drive version, a slope of $\leq 8^\circ$ (14.1%) of the normal user environment counted. Without that stability is adversely affected. In the manual you can use the abbreviation FWD and RWD encounter respectively for front-wheel drive or rear-wheel drive electric wheelchair.

In addition, the Excel Airide Go! The Excel Airide Go! has a maximum speed of 6 km / h and is equipped with lighting. Also, the frame is narrower than the Excel Airide and electric wheelchair with a narrower frame, which also belittle batteries in it. The Excel Airide Go! is similar to the Excel Airide X-tend version.

The Excel Airide Compact is also available. This electric wheelchair isn't fitted with lights, but has, like the Excel Airide Go!, a narrow frame. This also means that smaller batteries sit in the electric chair. The wheels are 12" rear wheels and 8" casters. The Excel Airide Compact is similar to the Excel Airide B-ace version.

Tires

The tires of your Excel Airide are depending on your version of the Excel Airide and your own requirements and needs. For indoor use grey tires normally fitted. For outdoor use the black tires are advised and generally mounted.

Adjustments (optional)

Depending on your choice and needs your Excel Airide comes available with different electric adjustments fitted:

1. Electric backrest adjustment (option);
2. Electrical height adjustment 30 cm (optional);
3. Combined electrically adjustable height 30 cm / adjustable tilt-in-space 45 degrees (optional);
4. Electrical adjustable tilt-in-space 0-25 degrees (optional);*
5. Combined electrically adjustable height 30 cm / adjustable tilt-in-space 30 degrees (optional);
6. Electrical length compensation comfort leg supports (optional).

* only possible with a rear wheel drive

Below you see the versions of the Excel Airide (Airide Excel / Excel Airide Go! / Excel Airide Compact) are shown in a table and which options may or may not be possible on the respective electric wheelchair.

Excel Airide

Options	Possible	Not possible
Electric backrest adjustment	X	
Electrical height adjustment 30 cm	X	
Combined electrically adjustable height 30 cm / adjustable tilt-in-space 45 degrees	X	
Electrical adjustable tilt-in-space 0-25 degrees	X	
Combined electrically adjustable height 30 cm / adjustable tilt-in-space 30 degrees	X	
Electrical length compensation comfort leg supports	X	

Excel Airide Go!

Options	Possible	Not possible
Electric backrest adjustment	X	
Electrical height adjustment 30 cm	X	
Combined electrically adjustable height 30 cm / adjustable tilt-in-space 45 degrees	X	
Electrical adjustable tilt-in-space 0-25 degrees	X	
Combined electrically adjustable height 30 cm / adjustable tilt-in-space 30 degrees	X	
Electrical length compensation comfort leg supports	X	

Excel Airide Compact

Options	Possible	Not possible
Electric backrest adjustment	X	
Electrical height adjustment 30 cm	X	
Combined electrically adjustable height 30 cm / adjustable tilt-in-space 45 degrees	X	
Electrical adjustable tilt-in-space 0-25 degrees	X	
Combined electrically adjustable height 30 cm / adjustable tilt-in-space 30 degrees	X	
Electrical length compensation comfort leg supports	X	

3. Safety regulations

Van Os Medical specifically disclaims responsibility for anybody injury or property damage which may occur during any use which does not comply with laws or ordinances. If used correctly, the Excel wheelchair is an utmost safe and stable product, if the instructions for use as described in this manual are followed. However, it is possible when the Excel wheelchair is not used correctly, dangerous situations may occur.

3.1. General safety regulations

Protect your Excel Airide by checking it regularly. When a part of your Excel Airide is not functioning properly, a dangerous situation could occur. You must keep your Excel Airide in a good condition to ensure safety in use. Periodical inspection, correct adjustment of your wheelchair and timely replacement of damaged and worn parts will result in use for years without any problems. A qualified Van Os Medical dealer, who will use only Van Os Medical replacement parts, will take care of your wheelchair to ensure a long lifetime.

ⓘ Warning:

You should keep your Excel Airide in a good state to be guaranteed of safe us.

3.2. Warnings for safe use

ⓘ Warnings:

- *While using your Excel Airide, the engines are constantly moving and reach these high temperatures. After using the Excel Airide, cooling the engine down slowly is advisable; avoid at all times contact with the engines! This can lead to burnings;*
- *Make sure the Excel Airide does not stand too long in direct sunlight. Certain parts will become hot, such as the armrests, seat and backrest, this may cause you to burn yourself;*
- *Electromagnetic radiation such as cell phones, radios, or other sources of electromagnetic radiation can affect your electric wheelchair;*
- *Your electric wheelchair can affect other electromagnetic fields such as electric doors, alarm systems etc. If this happens please contact your Excel dealer;*
- *Pay attention to the signs, symbols and instructions marked on the electric wheelchair! Safety signs are to notify the user of immediately of any problems, if this is unreadable please have them replaced. Contact your Excel dealer;*
- *Never change the technical specifications, this voids the warranty;*
- *Never change the electrical circuit;*
- *Never change the electric wheelchair or parts of it;*
- *Parts of the electric wheelchair which can be removed without tools and which are intended for maintenance and repairs, can have an adverse effect on the electric adjustments of the electric wheelchair if they are not returned or incorrectly replaced or are missing;*
- *Never operate your electrical wheelchair while you are under the influence of alcohol;*
- *Never operate your electrical wheelchair if you have insufficient eyesight;*
- *Never carry any passengers on the electrical wheelchair;*
- *Never allow children to ride in your electric wheelchair;*
- *Avoid driving on slippery surfaces, such as ice or snow!*
- *Always make sure you drive your electric wheelchair with adequate lighting;*
- *Always brake carefully, especially when driving at high speeds;*
- *While driving indoors, on sidewalks, pedestrian areas etc. We recommend the lowest speed setting;*
- *Never drive over or off obstacles higher than 6 cm. Caution: With the Excel Airide you cannot go on or off a obstacle higher than 4 cm;*

- *Do not drive the wheelchair when it is colder than -10 ° C or hotter than +35 ° C;*
- *Never attach extra weight to the electric wheelchair without getting advice from a specialist first;*
- *Never use the electric wheelchair to carry additional objects or persons;*
- *Never push or drag objects on with your electric wheelchair;*
- *Never open or close doors with the leg supports;*
- *Never drive through paddles of water;*
- *Avoid contact with seawater; this will damage the electric wheelchair;*
- *Avoid contact with sand. Sand can damage the moving parts of the electric wheelchair causing the electric wheelchair or parts to wear out;*
- *When using electric adjustments applied, we recommend to use your electric wheelchair only on flat surfaces;*
- *Please note that if you raise the seat height, it can affect your stability when used on some surfaces;*
- *Please note that moving the centre of gravity of the electric wheelchair may affect the handling characteristics and the dynamic stability of the electric wheelchair;*
- *Incorrectly adjusting the parameters of the system can result into very dangerous circumstances. The adjustment should be performed by your Excel dealer;*
- *Before you start using the electric wheelchair make sure that your clothing or clothing accessories cannot get stuck in the wheels or other parts;*
- *Please note that in the winter the batteries have a lower capacity, a light frost is 75% of normal capacity and at a temperature lower than -5 ° C is 50%. This will cause the range of the electric wheelchair to be reduced;*
- *When driving on slopes, drive slowly and always concentrated;*
- *Avoid sudden and shocking movements;*
- *Avoid making an emergency stop when you are on a slope;*
- *Always drive as straight as possible on a slope, change direction as little as possible;*
- *Never turn on a slope!*
- *Make sure all adjustments are back into the neutral position before driving up or down a slope;*
- *Always drive on a slope forwards, never backwards!*
- *Never drive on slopes with loose gravel or sandy surface, otherwise the drive wheels will slip and spin;*
- *Prolonged driving on an incline may overheat the engine;*
- *If you are driving on a slope observed that the velocity decreases sharply, you must have a less steep route to take;*
- *Make sure the electric wheelchair does not reach a too high a speed while descending.*

4. User instructions

You will have to learn the characteristics of your electric wheelchair. It is most important to learn the safest methods to develop the daily activities in accordance to your life style. Consult your medical advisor or therapist for assistance by developing safe and effective techniques for your daily activities and your physical possibilities. Driving with your electric wheelchair requires cognitive, physical and visual power of you. While driving you must be able to estimate and correct any action with your electric wheelchair. You can use your electric wheelchair for transporting only 1 person. The maximum user weight is 160 kg, keep in mind that extra added weight such as a backpack, equipment or medical equipment should be added and the total weight must not exceed the maximum user weight.

4.1. Safety tips

For your safety there are symbols on the electric wheelchair. You should know the meaning and the instructions of these symbols:

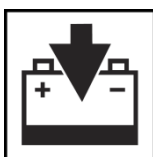
1. Refer to the manual before use;



2. Freewheel switches in drive position / Freewheel switches in push position;



3. Battery charging point;



4. Taxi fixation point;



5. Fracture risk! Note that when the joystick swings away, there is nothing pinched;



6. Watch your hands and fingers near moving parts when adjusting the height and or adjusting the tilt angle of the electric wheelchair.



ⓘ Warning:

Never put the freewheel levers into the push position while the electric wheelchair is on a slope.

Moving parts

As indicated earlier in this manual, your Excel Airide can be equipped with electrical parts, which are optional to choose from on your electric wheelchair, this is indicated behind the component (optional):

- Wheels, they turn and swerve;
- Electric back adjustment (option);
- Electric height adjustment 30 cm (option);
- Combined electrically adjustable height 30 cm / adjustable tilt-in-space 45 degrees (option);
- Electrical adjustable tilt-in-space 0-25 degrees (option);
- Combined electrically adjustable height 30 cm / adjustable tilt-in-space 30 degrees (option);
- Electrical length compensation comfort leg supports (option).

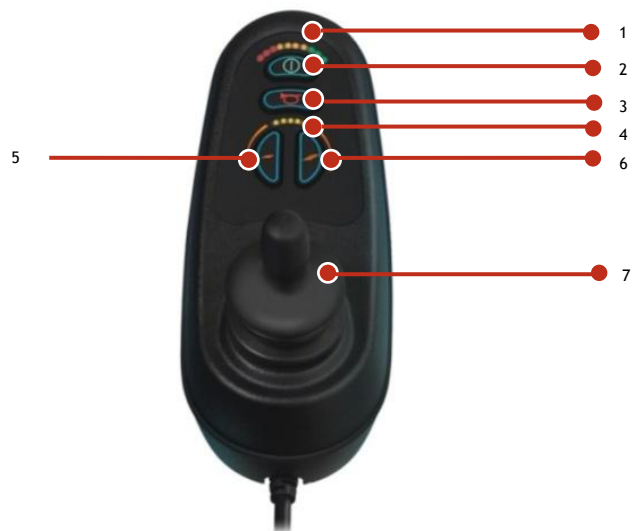
ⓘ Warning:

Avoid contact with the moving parts of your electric wheelchair, this can cause serious personal injury or damage to the wheelchair.

4.2. Controllers

Below the VR2 Drive-only controller is displayed with an explanation of the functions.

1. Battery display
2. On / off button
3. Horn
4. Speed indicator
5. Speed lower
6. Speed higher
7. Joystick



Below the VR2 Seats & Lights controller is displayed with an explanation of the functions.

1. Battery display
2. On / off button
3. Horn
4. Lightning
5. Flashing lights
6. Speed higher
7. Speed lower
8. Seat adjustment
9. Flashing light left
10. Flashing light right
11. Joystick



Below the R-Net controller is displayed with an explanation of the functions.

1. On / off button
2. Horn
3. Lightning
4. Display
5. Flashing lights
6. profile;
You can go to your own personal preferences different profiles on the R-Net control panel, such as the speed you want to ride inside or outside.
7. Speed higher
8. Flashing light right
9. Mode;
- Through mode you can easily go through the menu of the R-net control box back and forth.
10. Speed lower
11. Flashing light left
12. Joystick



4.3. Making transfers

Getting on and off the electric wheelchair

Before you make a transfer you must always check:

- The joystick is off;
- The freewheel levers are in the drive position.

ⓘ Warning:

Never stand on the footrests during a transfer! If you fully stand on the footrests the seat may tilt, leading to dangerous situations and damage!

Making a forward transfer

Standard footrests

- Flip up the footplates (see section 5.4);
- Pull the U-shaped handle of the footrest upwards;
- Swing the footrest outwards;
- You can now make the transfer.

Gas spring comfort leg rest (option)

- Move the leg rest in the neutral position;
- Swing the calf plate to the outside (see section 5.5);
- Flip up the foot plates;
- Pull the handle of the leg rest upwards;
- Swing the leg rest outwards;
- You can now make the transfer.

Electric comfort leg rest (option)

- Move the leg rest in the neutral position;
- Swing the calf plate to the outside (see section 5.5);
- Flip up the foot plates;
- Pull the handle of the leg rest upwards;
- Swing the leg rest outwards;
- You can now make the transfer.

Making a lateral transfer

- Loosen the handle of the armrest (see section 5.3);
- Remove the armrest of the wheelchair;
- Turn 90 ° to the side without armrest;
- You can now make the transfer.

ⓘ *Warning:*

Remove the tray before you remove the armrest.

4.4. Driving with the electric wheelchair

Check the electric wheelchair on the following points:

- Check the tire pressure (in case you have pneumatic tires);
- Check if the batteries are completely charged, the green lights on the indicator should be lit;
- Check the lighting;
- Check if the freewheel lever has been put in to the drive position.

You control your Excel Airide through the control box:

- Switch on the joystick;
- Set the maximum speed, always choose the speed that you feel most comfortable and safe with;
- Move the joystick in the direction you want to travel;
- The further you move the joystick forward, the faster the electric wheelchair will drive.

ⓘ *Warnings:*

- ***Caution! You may not always be noticed by other road users:***
- ***Always obey the traffic regulations;***
- ***Avoid driving on lonely trails, in case of need for rapid assistance;***
- ***Adapt your driving style and speed to the conditions.***

4.5. Curves

When taking a curve, pay extra attention to your speed, steer calmly to the direction you wish to go.

ⓘ **Warnings:**

- ***Never take a turn when you're at full speed. Reduce the speed when turning;***
- ***Use the indicators when you are changing direction (if equipped with lights and RAW's).***

4.6. Stop / emergency stop

If you wish to stop move the joystick quickly to the neutral position, this will automatically slow the wheelchair down. When you make an emergency stop, you should immediately release the joystick. This will cause the wheelchair to brake immediately. According to EN 12184 European forms. Below is shown what the braking distances are:

- 6 km/h: 1 meter;
- 8 km/h: 1.5 meter;
- 10 km/h: 2 meter.

ⓘ **Warnings:**

- ***While driving never press the on / off button;***
- ***Never move the electric wheelchair suddenly in the opposite direction. When you do this, it can cause the electric wheelchair to stop abruptly and will cause shaking movements which can cause the electric wheelchair to tilt.***

4.7. Driving on a slope

As mentioned earlier in this manual is $\leq 8^\circ$ (14.1%) the normal operating environment for both the FWD and the RWD versions. While driving on a slope that is steeper than the maximum degree this may have a negative effect on the stability. Always drive with caution on a slope. The stability and performance of the electric wheelchair depend on several variables. As the electric wheelchair is adapted to the user, the variables are different per electric wheelchair. Therefore it is recommended to contact your Excel dealer about the use of the electric wheelchair, the specific adjustments and adaptations that affect your situation on the electric wheelchair.

4.8. Curbs and increases

Driving on curbs and increases

- Always choose the place where the curb is the lowest;
- Place yourself face forwards to the curb;
- Move the joystick forwards;
- Do not change your direction when you are driving on the sidewalk;
- Maintain the same speed until all wheels are on the sidewalk;
- Find a place where the curb is lower if you do not succeed to drive up the curb.

Driving off curbs and increases

- Always choose the place where the curb is the lowest;
- Make sure the front wheels are straight in front of the curb;
- Move the joystick slowly forwards. Drive always as slowly as possible down of the curb and never change your direction.

ⓘ Warnings:

- *Never drive on or off obstacles that are higher than 6 cm;*
- *Never use your Airide on stairs.*

5. Settings and mounting instructions

In this chapter we will explore all the possibilities that you have with your wheelchair. All setting and user instructions, such as the removal of the footrest, will be discussed.

Your electric wheelchair is an Excel Airide

As mentioned earlier in this manual, The Excel Airide is available in 3 versions: the B-ace, the X-tend and the S-preme. Also the Excel Airide Go! and the Excel Airide Compact are available. You should be aware what implementation you have.

ⓘ Warning:

Making adjustments to your electric wheelchair can cause big risks for your safety and the function of your electric wheelchair. Adjustments made by yourself are not advised and carried out at your own risk.

5.1. Tools and technical information

For setting up and maintaining your wheelchair you may need a selection of the following tool:

- Phillips-head screwdriver
- Spanner 4, 5 and 6 mm
- Plug or ring spanners 10 and 13 mm

5.2. Technical information

Batteries

Maximum size batteries	260mm x 172mm x 210 mm
Battery Capacity	50Ah / 75Ah GEL or AGM sealed batteries
Maximum permissible charging voltage	24V
Maximum charging current	10A
Connector type	Manual control cabinet
Insulation	Class 2 double isolated

On the next page you will find the other specifications of the Airide Excel, Excel Airide Go! and Excel Airide Compact.

Specifications

Description	Excel Airide		Airide Go!		Airide Compact	
	FWD	RWD	FWD	RWD	FWD	RWD
Overall length with leg rests	1190mm	1115mm	1190mm	1115mm	1190mm	1115mm
Total width 14 "rear wheels	655 mm		800 mm		800 mm	
Total weight without batteries	73 kg		73 kg		73 kg	
Batteries 50 Ah (C20) (Set of 2)	29.6 kg		29.6 kg		29.6 kg	
Batteries 75 Ah (C20) (Set of 2)	45.8 kg		x		x	
Leak-free drive wheels (set of 2)	8.4 kg		8.4 kg		8.4 kg	
Electric backrest adjustment;	9.8 kg		9.8 kg		9.8 kg	
Electric height adjustment 30 cm;	9.8 kg		9.8 kg		9.8 kg	
Combined electrically adjustable height 30 cm / adjustable tilt-in-space 45 degrees;	18.8 kg		18.8 kg		18.8 kg	
Electric adjustable tilt-in-space 0-25 degrees;	9.8 kg		9.8 kg		9.8 kg	
Combined electrically adjustable height 30 cm / adjustable tilt-in-space 30 degrees;	18.8 kg		18.8 kg		18.8 kg	
Electrical length compensation elevating leg rest	4 kg		4 kg		4 kg	
Static stability:						
Backward-	15°		15°		15°	
Up	15°		15°		15°	
Sideways	15°		15°		15°	
Turning distance	1200 mm	1330 mm	1880mm	2010mm	1880mm	2010mm
Range* with 50 Ah batteries *	20 km		20 km		20 km	
Range * 75 Ah batteries	30 km		x		x	
Grade ability obstacles (outside)	60 mm	80 mm	60mm	80mm	60mm	80mm
Maximum speed forward	6 - 10 km/u		6 km/u		6 km/u	
Maximum speed backward	5 km/u		5 km/u		5 km/u	
Seat angle adjustment	0-6 °		0-6 °		0-6 °	
effective seat depth	420 – 600 mm		420 – 600 mm		420 – 600 mm	
effective seat width	420 – 540 mm		420 – 540 mm		420 – 540 mm	
Seat height (pillow) **	415 mm		390 mm		390 mm	
Seat height (including pillow) **	485 mm		460 mm		460 mm	
back angle	89 – 118°		89 – 118°		89 – 118°	
back height	500 – 640 mm		500 – 640 mm		500 – 640 mm	
Lower leg length	350 – 515 mm		350 – 515 mm		350 – 515 mm	
Maximum safe slope	8° (14,1%)		8° (14,1%)		8° (14,1%)	

* The following aspects influence the action radius negatively: obstacles, rugged terrain, driving on slopes, temperatures below freezing point, and the frequent use of options. The range will be 10% lower in these conditions.

** Seat height including tax, seat angle.

5.3. Push the electric wheelchair

You can use the electric wheelchair if needed also push. For this, the engines have to be disconnected by the two freewheeling switches. You must turn the freewheel switches in the push position

The freewheeling switches have two positions:

- Operating position as the freewheeling switches in the center position (picture 1);
- Push mode (picture 2). Caution! There are two ways to switch, 1st position when lever is pulled forward, 2nd position when lever is pushed backwards the engines in push mode is. However, there is no difference between the two positions.



Picture 1



Picture 2

ⓘ Warning:

- You must act above both the left and right engine to execute before continuing. The
- The facilitator should control the freewheeling switches;
- Never move the neutral switches in the push on a slope! When the freewheeling switches fact is, the electromagnetic brakes off, put in the push this electric wheelchair down a slope can drive;
- The electromagnetic brakes only work in the driving position;
- Set the freewheeling switches directly to the drive position when it is not pushed.

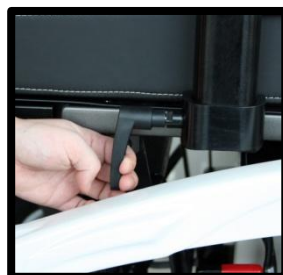
5.4. Use of the armrests

Remove the armrests

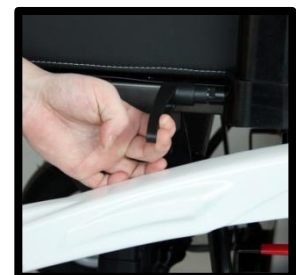
- Grasp the lever knob (picture 3);
- Release the lever by turning it (picture 4) counterclockwise;
- When you come to the session, you must pull (picture 5) the lever back and move the lever down, repeat until you can take the arm off;
- When the armrest is loose, grab it (picture 6, next page);
- Pull the armrest straight up (picture 7, next page).



Picture 3



Picture 4



Picture 5



Picture 6



Picture 7

Replace the armrests

- Place the armrest back into the receiving tube (picture 6 and 7);
- Lock the handle by turning the handle counterclockwise (picture 3, 4 and 5);
- Make sure the arm is secure.

Width adjustment of the armrest

On your Excel Airide you have the ability set different widths of the armrest. Please contact your Excel dealer.

Height adjustment of the armrest

- Loosen (picture 8) button;
- Move the armrest to the desired height (picture 9);
- Turn the knob firmly;
- Make sure the arm is properly fixed by put upward move, if you can, turn the knob more tightly to the armrest.



Picture 8

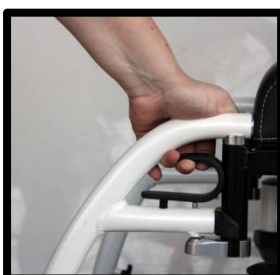


Picture 9

5.5. Use of the foot rests

Footrest swing and remove

- Pull the U-shaped lever (picture 10);
- Swivel the footrest outward (picture 11);
- Pull the foot straight up to take it off (picture 12).



Picture 10



Picture 11



Picture 12

Length of the footrest adjustment

- Loosen (picture 13) button;
- Set the desired length of the footrest;
- Turn the knob to secure;
- Make sure the foot is firmly attached and that both sides are equally long. On the side of the footrest numbers, the footrests have both firmly put on the same number.



Picture 13

Angle of the footrest adjustment

To adjust the angle of the foot plate you will need the supplied spanner

- Place the wrench on the screw (photo 14);
- Loosen the screw completely;
- You can now take the footplate off the footrest;
- Choose the desired angle of the footplate;
- Retighten the screw firmly, note the auxiliary lines on the base plate by selecting the desired angle;
- Check if the footplate is securely fastened.



Picture 14

Flip up the footrest

- Grasp the base plate to the bottom edge (picture 15);
- Move the footrest towards the footrest;
- Place the base fully vertically against the footrest (picture 16).



Picture 15



Picture 16

5.6. Use of the leg rests (option on the B-ace / X-tend / S-preme / Go! / Compact) Swinging away and remove the comfort leg rests

- Pull the lever (picture 17);
- Swivel the leg rest to the outside (picture 18);
- Pull take the leg support right up to it off.



Picture 17



Picture 18

Folding away the calf plate

- Grasp the calf plate (picture 19);
- Move the calf plate towards the leg support (picture 20);
- Fold the calf plate off to the outside of the leg support (picture 21).



Picture 19



Picture 20



Picture 21

Adjustment of the angle of the leg rest

- Pull the handle of the gas spring leg rest (picture 22);
- The leg rest will automatically go up (picture 23);
- To move the leg rest down, pull the lever and at the same time give your foot against the leg press this support will go down.



Picture 22



Picture 23

Depth adjustment of the calf plate

You have the possibility to adjust the angle of the calf plate on the elevating leg rest. Please contact your Excel dealer.

Adjustment of the length of the comfort leg rest

- Loosen the knob (picture 24);
- Set the desired length of the leg rest in;
- Turn the knob to secure;
- Make sure the leg rest firmly attached and that both sides are equally long.



Picture 24



Picture 25

Adjusting the angle of the footplate

To adjust the angle of the footplate of the leg rest you should sit on your power chair and put your feet on the footplates. You can adjust the angle of the footrest adjustment by moving your feet. The leg rest can never fully secure. You can base it tightened or loosened with the supplied key on the side of the base plate (picture 25).

Flip up the footplate

- Grasp the base plate to the bottom edge (picture 26);
- Move the footrest towards the leg rest;
- Place the base fully vertically against the leg rest to (picture 27).



Picture 26



Picture 27



Picture 28

5.7. Anti-tip wheels

Your Excel Airide is standard equipped with anti-tip wheels (picture 28).

5.8. Lightning (option on the X-tend / S-preme / Go!)

Your Excel Airide can be expanded with lights and direction indicators, picture 29. For more information and explanations on the use of lights and direction indicators you, go to § 4.2, the control box. Lighting is standard on the Excel Airide Go!



Picture 29

5.9. Use of the amputation support (option on the B-ace / X-tend / S-preme)

On your electric wheelchair, there is the possibility to choose to have an amputation support instead of a standard footrest on your electric wheelchair. Below is the explanation of the amputation support function.

Amputation support inside and outside swiveled

- Stand up for your electric wheelchair;
- Pull the black lever, picture 30;
- You can now swivel the amputation support inward and outward.

Amputation support removing the electric wheelchair

- Stand up for your electric wheelchair;
- Pull the black lever, picture 30 Now you can swivel the amputation support inward and outward;
- Swing the amputation support 90 ° outward and pull it straight up from the mounting tube.

Amputation support replacing the electric wheelchair

- Stand for electric wheelchair;
- Set the amputation support in the retaining tube perpendicular to the frame and place it back on the wheelchair, picture 31;
- Swing the amputation support 90 ° forward until you hear a click. This then confirms that the amputation support is in position.



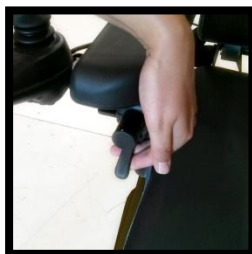
Picture 30



Picture 31

5.10. Back angle adjustment with gas spring (option on the B-ace / X-tend / S-preme)

- Sit in the chair;
- Swing when the lever is on the same side of the control box to the outside;
- Push the lever in picture 32;
- Move the backrest, picture 33 to the desired angle to move with you weight the backrest;
- Release the lever to lock picture 34. Backrest to the desired angle.



Picture 32



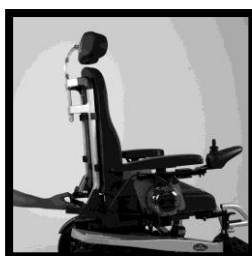
Picture 33



Picture 34

5.11. Backrest adjustment

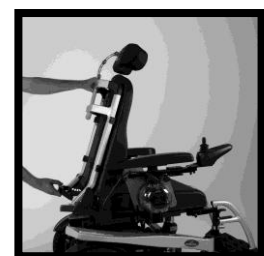
- To adjust the back, pull the strap that is attached to the back of the seat, see picture 35;
- With the seat forward or backward to move, you can adjust the backrest. See picture 36 and 37.
- Once you have reached the right chair shifts, release the strap and the backrest automatically.



Picture 35



Picture 36



Picture 37

5.12. Electric backrest adjustment (option on the B-ace / X-tend / S-preme / Go! / Compact)

It is possible to take picture 38, which in varying degrees to the back electric backrest on the Excel Airide graded to buy and comfort, picture 39. More information and details can be found in § 4.2, the control box.



Picture 38



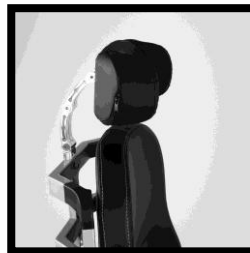
Picture 39

5.13. Headrest adjustment

- You can adjust the headrest height. This is done by using the supplied Allen wrench to turn the confirmation of the head rest. See picture 40;
- When you reach the desired height of the head, turn the attachment of the head with the hex key. You can adjust the headrest between the two positions on picture 41 and 42 are shown.



Picture 40



Picture 41

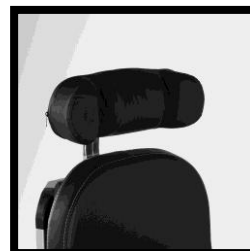


Picture 42

You can also adjust the headrest itself, by making it wider or narrower. These options are displayed on the pictures below, in picture 43 and 44. You can make the head wider by pulling the wings outside.



Picture 43



Picture 44

5.14. Folding the backrest

It is possible to fold the backrest of the Excel Airide. This is done by carrying out 4x operation displayed below. The backrest is in fact attached to the frame at 4 places.

- Go to the affirmations of the backrest. These look like the picture at 45 is shown;
- Press to find the button that links to the fixation is picture 46;
- Pull out simultaneously by pressing the button, the slider to the left. This can be seen in picture 47;
- You now have loosened the attachment, as shown in picture 48.



Picture 45



Picture 46



Picture 47



Picture 48

5.15. Electric height adjustment 30 cm (option on the B-ace / X-tend / S-preme / Go! / Compact)

For user convenience, you can take a height adjustment of 30 cm, picture 49. More information and explanations can be found in § 4.2, the control box.



Picture 49

5.16. Combined electrically adjustable height 30 cm / adjustable tilt-in-space 45 degrees (option on the X-tend en S-preme)

The electric height adjustment of 30 cm, picture 50, as described above, you can combine with a tilt-in-space (tilt) option of 45 degrees, picture 51. More information and details can be found in § 4.2, the control box.



Picture 50



Picture 51

5.17. Combined electrically adjustable height 30 cm / adjustable tilt-in-space 30 degrees (option on the B-ace / X-tend / S-preme / Go! / Compact)

The Excel Airide is also expanding in height adjustment of 30 cm, picture 50, coupled with a tilt in space (tilt) 30 degrees, picture 51. More information and details can be found in § 4.2, the control box.

5.18. Electric adjustable tilt-in-space 0-25 degrees (option on the B-ace / X-tend / S-preme / Go! / Compact)

The Excel Airide is also expanding with a tilt in space (tilt) 0-25 degrees. More information and details can be found in § 4.2, the control box.

5.19. Electric elevating leg rest (option on the B-ace / X-tend / S-preme / Go! / Compact)

One option you have Excel Airide electric comfort leg support this, you can control through control box, picture 52 and 53. More information and explanations can be found in § 4.2, the control box.



Picture 52



Picture 53

5.20. Suspension

The springs are different between the different Excel Airides. The Excel Airide has an air suspension. This suspension can be seen in picture 54.



Picture 54

The suspension of Excel Airide Go! and Excel Airide Compact can be set by turning the suspension. This suspension may be turned tighter or looser. Picture 55 shows how the suspension can be adjusted.



Picture 55



Tip

Customize your suspension by your dealer to make sure that it is running correctly.

5.21. Batteries

The batteries on the Excel Airide Go! and Excel Airide Compact sit, you can easily get yourself out. When you create the band above the batteries and screw rotates among the batteries with the supplied hex wrench, you can get the batteries out, as on picture below (56) is shown.



Picture 56

5.22. Other options on the Excel Airide

Furthermore, you have Excel Airide still available the following adjustment possibilities or options. You will need to contact your Excel dealer.

- Setting the depth;
- Setting the height;
- Adjust the backrest;
- Changing the operating system settings.

6. Transportation by car

ⓘ Warnings:

- *When transporting the Excel Airide maximum user weight should be no more than 136 kg. This will ensure your safety. This user weight is different than the user's weight previously mentioned, because for transporting the electric wheelchair is a limit set of 136 kg.*
- *The recommendations described below apply as general advice, but may vary by transport. Therefore, Van Os Medical has state guidelines and are not liable for any damage caused by improper use or failure to follow these guidelines.*

You can transport your Excel Airide in any vehicle equipped with an approved transport system.

6.1. Disassembly

Use a suitable ramp to drive the electric wheelchair into the vehicle.

Depending on the shape and size of the loading area of the transport vehicle you may need to remove parts of the electric wheelchair:

- Remove the leg support;
- Remove the armrests.

Store the removed components safely and protect it with blankets or other padding.

6.2. Transporting

Using the electric wheelchair as a seat in a car

The Excel Airide is not designed to use as a seat in a vehicle and does not offer you the same safety as a regular seat. If a transfer to a regular seat is not possible you should take into account that the electric wheelchair can only be used as a seat in a bus or car if the electric wheelchair has a 4-point integrated restraint system attached (which meets ISO 10542).

Please note that this system must be suitable for the total weight of the electric wheelchair. The weight depends on options and accessories. Therefore always weigh the electric wheelchair so that you're sure you are using the correct restraint system. The restraint systems require mounting rails to mount in the car and the four points should always be confirmed. Place the electric wheelchair in the default position and use the head support if the electric wheelchair is equipped with a headrest. If the electric wheelchair is in transit, then the power should be turned off. The multi-adjustable, folding or rotating head restraints should be blocked during transport

ⓘ Warnings:

- *There was a crash test been carried out on this electric wheelchair in accordance with ISO 7176 -19 (2008) where the maximum user weight was 136 kg;*
- *We recommend you to make a transfer if possible to a regular seat;*
- *When you are a passenger when the electric wheelchair is being transported you need to use 3-point belt system. Follow the instructions of the 3-point belt;*
- *Always ask a confirmation from the carrier that the car is insured, equipped and suitable for transporting a passenger in an electric wheelchair;*
- *The electric wheelchair must always being faced forwards;*
- *You should always use a shoulder and pelvic belt to prevent the head coming in contact with the car in an event of an accident.*

6.3. Fasten the seat belt

ⓘ **Warnings:**

- *By using the three-point safety belt the head and torso injuries are limited, in case the electric wheelchair comes in contact with the car;*
- *After an accident has occurred, the electric wheelchair must be checked by your Excel dealer.*

Use the safety belt as follows:

- Place the belt on the pelvis at an angle between 30 ° and 75 °, the other section of the belt goes on the torso and the shoulder;
- The safety belt must be as tight as possible and may not be twisted;
- Make sure armrests do not impede the safety belt, wheels, etc.;

When there is a work tray mounted to the electric wheelchair that does not meet the safety requirements, you should do the following:

- Remove and store the work tray separately in the vehicle;
- Mounted to the electric wheelchair with shock absorbing material between the user and the work tray.
- To avoid injury in an accident, you must secure all accessories to the electric wheelchair or remove all accessories from the electric wheelchair and store them in the vehicle in blankets or any other form of padding.

7. Maintenance

The life of your Excel Airide depends on good maintenance. Contact your dealer for specific Excel settings, maintenance and repairs. We recommend you to have your Excel Airide checked at least once a year.

7.1. Storage after use

If you do not use the Excel Airide, please store the electric wheelchair in a dry place without weather influences.

ⓘ Warning:

Do not place the electric wheelchair in direct sunlight. The components of Excel can become hot. The temperature in the storage space should not be lower than -10 °C or higher than 40 °C.

7.2. Charging the batteries of the electric wheelchair

We recommend you to recharge. Your electric wheelchair after each use immediately

- Stand up for your electric wheelchair;
- Switch the system off;
- The charging plug from the control box is located at the front of the control box, picture 42;
- Plug the charger into the charging plug from the control box, picture 43, and the plug in the socket;
- The electric vehicle is charging.



Picture 42



Picture 43

7.3. Batteries

In the Excel Airide you will find 2 series switched 12V "dry" gel batteries. These batteries are completely closed and maintenance free.

ⓘ Warnings:

- ***Do not use "wet" batteries;***
- ***Note that, as previously described in this manual; the range is lower at cold temperatures. By light frost is 25% less capacity and at temperatures lower than 5 °C-, this is 50%;***
- ***Use only the charger oversupplied by Excel.***

Charging batteries

- Turn off the power of the joystick;
- Plug the charging plug from the battery charger into the charging socket of the joystick;
- Activate the battery charger. See the manual of the battery charger.

If you do not use the Excel Airide for a longer time than always charge the batteries fully. With daily use, the batteries should be recharged every night after each use. The charger you can see when the batteries are fully charged. Among other depending on how far the batteries are discharged, it may take up to 12 hours before they are fully charged. The charging time depends on the capacity of battery and charger. We recommend you to load the batteries up until it automatically turns off.

ⓘ Warnings:

- ***Always check Whether the batteries are charged Sufficiently before driving;***
- ***Prolonged non-use of the batteries May damage the batteries;***
- ***Never use your Excel Airide if the batteries are almost empty or drive on the batteries when they are completely empty. This can severely damage the batteries.***

Replacing batteries

When the capacity of the batteries is smaller and you can only drive short rides, you should replace the batteries. Please contact your Excel dealer.

ⓘ Warning:

The batteries of your Excel Airide contain acids. Damaged batteries can seriously damage health. Always follow the instructions on the batteries.

7.4. Tires

For the proper functioning of your Excel Airide, it is of great importance that the tire pressure is correct, this can be found on the side of the tire.

Tire pressure	
Swivel wheel 8"	3,0 bar / 40 psiMax
Swivel wheel 10"	3,5 bar / 50 psiMax
Swivel wheel 12"	2,25 bar / 32 psiMax
Swivel wheel 14"	3,5 bar / 50 psiMax

If the tires have a too low tire pressure this creates a worse behavior of the electric wheelchair. This takes more energy for the electric wheelchair to move, causing the batteries to be used up quicker, and also wearing out the tires much faster.

ⓘ Warnings:

- ***Never exceed the maximum inflation pressure;***
- ***Tires should only be replaced by your Excel dealer.***

7.5. Cleaning

ⓘ Warning:

- *Make sure the chair is turned off, if you accidentally touch the joystick it can move the Excel Airide;*
- *Be careful with water in connection with the electrical installation;*
- *Never use abrasive or aggressive cleaning agents. This could cause scratches on your Excel Airide;*
- *Do not use organic solvents such as white spirit, paint thinner or turpentine.*

Removing dry dirt

Clean the dirty parts first with a wet sponge. Use preferably clean water or mild soap water. Rub the parts then dry with a soft cloth.

8. Problem analyses and solutions

Failures

Check the following points if the electric wheelchair is not working correctly.

- Verify that the batteries are loaded;
- Turn the electric wheelchair off and on again;
- Make sure all battery plugs are securely attached;
- Check if the freewheel lever is in the travelling position;
- Check the position of the speed controller.

If the error persists

Contact your Excel dealer.

9. Warranty

9.1. Warranty request

Your Excel Airide electric wheelchair has a factory warranty. This warranty applies only for you as a customer. It is not intended for commercial use (such as rent). This warranty is limited to defective materials and possible hidden defects. Excel gives a warranty period of 2 years on the entire product except the batteries: 12 months. You can also find the warranty period on the frame label of your electric wheelchair, see chapter 1.

Tip

We recommend only Excel parts should be refitted to the chair. If the electric wheelchair has not got the original parts the guarantee is no longer valid.

9.2. Warranty application

This guide is also your warranty form, complete the information on page 2 and keep it.

Warranty Conditions

The warranty period is valid from the date of purchase. If there is a failure during this period to the electric wheelchair, it will be repaired or replaced. However, you must have a fully completed warranty form, a copy of the invoice with the date of purchase and the original packaging Of Os Medical UK Ltd to hand over.

Tip

Warranty is not transferable.

The warranty does not include working hours with replacements.

Under normal circumstances, Van Os Medical UK Ltd accepts no responsibility if the electric wheelchair needs to be replaced or repairs required as a result of:

- Not maintaining the electric wheelchair and the components in accordance with the manufacturer's recommendations, or the non-use of original parts specified;
- Damaging the electric wheelchair or components by negligence, accident or incorrect use;
- Adjusting the electric wheelchair or parts, different from the factory specifications, or repairs made before the service;
- If the product does not contain an original factory frame label, see chapter 1.

The electric wheelchair which is described and shown in this manual may differ in details from your own model. However, all instructions are relevant, regardless what details are different. We reserve the right without prior notice, to make changes to weight, size or other technical information as described in this manual. All drawings, dimensions and capacities which are shown in this manual, are approximates and do not require full compliance with the given specifications.

Warning:

Excel cannot be held liable for any consequence or incidental damages whatsoever. The warranty is only valid for the indicated period. Adjustments made to the electric wheelchair of structural impact on the product, will void the warranty. Visit www.vanosmedical.com for the extended warranty and delivery terms and a mailing list of authorized dealers.

10. Service and maintenance table

10.1. General maintenance instructions

For optimum life you should get your electric wheelchair maintained periodically by an authorized dealer. A poorly maintained electric wheelchair will give more technical problems, will ride less smooth and will fall outside the warranty, in the worst case.

Preventive maintenance is the most important and many of these things you can easily do yourself or someone in your surroundings.

Below we give you a list of the maintenance you can do yourself.

Every week

- Check the tire pressure.

Every month

- Check the upholstery on tear and wear;
- Check the wheel clearance on the front and the rear wheels and check if the wheels run smoothly;
- Operation of the brakes.

Each quarter

- Check all bolts, screws and nuts and tighten where necessary;
- Check the tread of the tires for wear.

Tip

In chapter 7, you will also find extensive information on the maintenance of your electric wheelchair.

Also we advise you to get your electric wheelchair checked every year by an authorized dealer. Please note that your dealer checks the points mentioned in paragraph 10.2.

10.2. Service checklist

For optimal life your electrical wheelchair should be periodically maintained by an authorized dealer.

Service interval:	Service Schedule								
	1	2	3	4	5	6	7	8	9
Service number									
Wheels: for example margin and wear bearings									
Tires									
Front forks: for example control margin, adjustment ball head axle									
Brakes: for example adjustment, re-adjust, control for margins									
Footrest: for example adjustment, line out									
Frame: for example fracture, welding seams, plastic component									
Arm rest: for example fixation, rigid arms									
Sealing-Wax / Coating / Chrome									
Seat cushion									
Upholstery: for example adjust straps									
Fasteners on all components									
Mechanical parts: for example motor, brake									
Teflon treatment of all moving parts									
Checked by (Initials)									
Inspection date									

Service stamp dealer

1	2	3	4	5
6	7	8	9	10

In practice the usage intensity varies from person to person. It may therefore be that in your case, the wheelchair requires servicing more or less than once a year.

Tip

Maintenance is not warranty. Your dealer may deviate from the maintenance interval.

CERTIFICATE



ISO 7176-15

CERAH
FRANCE**Product identification**

Product: **Electrically powered wheelchairs, scooters and their chargers**
Brand: **Excel**
Model/type: **Airide**
Version: **Excel Airide (B-Ace, X-Tend, S-Preme)**
Excel Airide Go!
Excel Airide Compact

Manufacturer:

Name **Van Os Medical B.V.**
Address **Koperslagerij 3**
4651 SK Steenberg
The Netherlands

Country

EU Representative:

Name **W. van Os**
Address **Koperslagerij 3**
4651 SK Steenberg

Country

The Netherlands

Function

Director**Technical constructed file**

Prepared by: **J.M.J. Brouwer BBA**
Function: **Research and Development**
Issue date: **01-05-2012**
TCF date: **01-05-2012**
Recertification date:

Name

J.M.J. Brouwer BBA**Research and Development****01-05-2012****01-05-2012**

Test report reference no.: CERAH 12-85 /12-086; Millbrook 12/0856

According to: ISO 7176-8, ISO 7176-9, ISO 7176-14, ISO 7176-19

Means of conformity

The product is in conformity with Directive 93/42/EEC based on the use of a Technical construction file in accordance with Article 9 (Class I products) of the Directive

Signature of EU representative:

Place : Steenberg
Date : 01-05-2012
Number : VOS.TCF.EX.08500-0851-0852

It's policy at Van Os Medical B.V. to keep improving the quality and reliability of our products. The products and specifications in this brochure can therefore differ from the actual product.



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