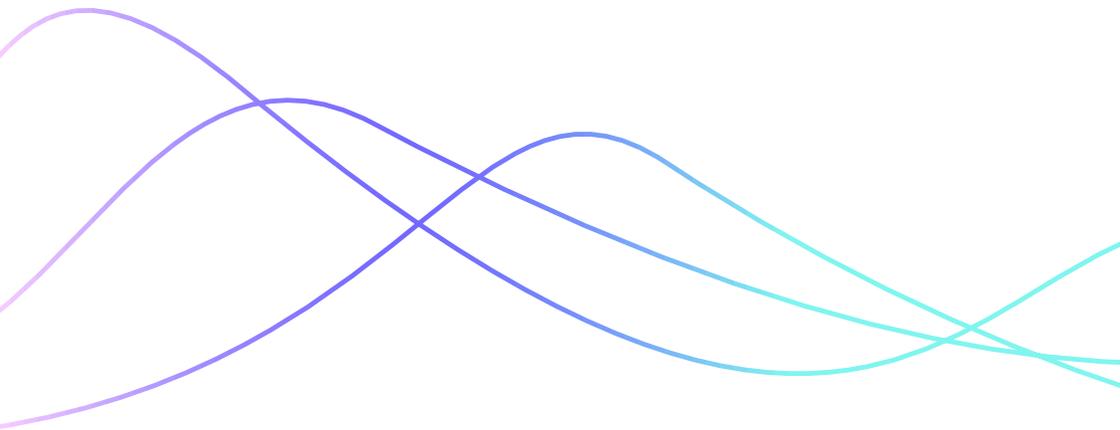
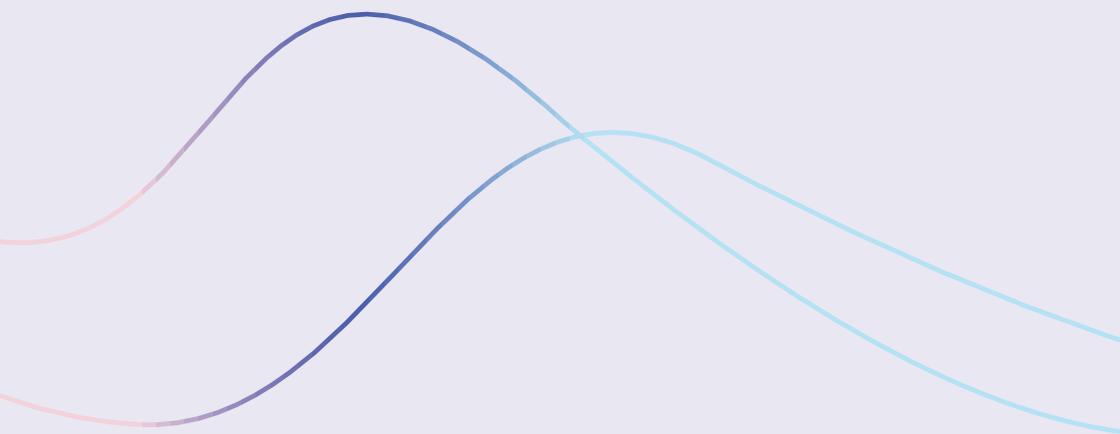




WheelAir

Sling Back V2
Instructions for Use





Contents

04	General
05	Contacts
06	Description
08	Specifications
10	Sustainability and Disposal
12	Installation
16	Operation
18	Charging
19	Care and Maintenance
20	Transportation and Storage
21	Troubleshooting
22	Warnings
23	Symbols
24	Packaging Symbols
25	Warranty
26	Declaration of Conformance
27	Effects of electromagnetic interference

General

Mission

Our mission is to remove the physical, emotional, and social complications overheating and over-sweating can cause to wheelchair users.

This manual contains important information to install, use and care for your WheelAir Sling Back V2.

Important Product Information



Read carefully before use, store safely for future reference.

Contacts

Manufacturer

WheelAir by Staels Design Ltd.
PO Box 7428, Glasgow G51 9ER, UK

Telephone: +44 (0) 141 432 0425

E-Mail: info@wheelair.co.uk

Website: www.wheelair.co.uk

Distributor



Latest product information and updates may be found at www.wheelair.co.uk

Description

The WheelAir Sling Back V2 (“Sling Back” or “Device”) is a wheelchair accessory designed to replace an existing back support. The Sling Back is designed to improve user comfort by reducing skin temperature (and hence body temperature) by channeling inducted air over the user’s back using WheelAir’s Patent pending Fluid Flow Channel technology.

Airflow may be varied using a wireless multispeed Controller giving six options of airspeed and up to 27 hours of continuous use from a single battery charge (dependent upon fan speed settings).

Fanbox and Controller are charged via a USB-C connection. Typical charge time is approximately 2 hours to 80% capacity.

The WheelAir Sling Back V2 is suitable for all wheelchair users.



The level of cooling achieved is at the discretion of the User. Where the User is impaired and unable to control the Device, responsibility for control and levels of cooling will be with the designated Carer.

<hr/>		<hr/>	
Key Components		05	Fanbox x 1
<hr/>		<hr/>	
01	Outer Cover x 1	06	Controller x 1
<hr/>		<hr/>	
02	Inner Cover x 1	07	Controller Velcro® Patch x 1
<hr/>		<hr/>	
03	Foam Cushion x 1	08	Fanbox Charger x 1
<hr/>		<hr/>	
04	Channels x 2	09	Remote Charger Cable x 1
<hr/>		<hr/>	

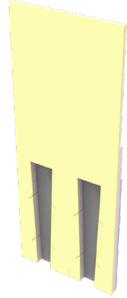
01



02



03



04



05



06



07



08



09



Specification

Available Widths	290mm, 330mm, 360mm, 400mm, 440mm
Backrest Length	730mm
Fanbox Size	265mm x 105mm x 39mm
Weight	Backrest 750g – 860g (width dependent); Fanbox 500g
Power	Fanbox Lithium-Ion 3.7V 8000mAh Controller Lithium-Ion 3.7V 259mAh
Charge Time	Typical 2 hours to 80%
Charger	Medical Grade 18W USB-C
Run Time	Up to 27 hours dependent on fan speed setting
Fan Speed Settings	6
Fan Lifetime	>70,000 hours
Max User Weight	136kg
Materials	Outer Cover: Faux Leather – 50% PU + 50% Cotton, spacer mesh with the FRESH finish – 100% polyester, canvas 100% polyester Inner Cover: Mesh - 100% polyester, stretch panel - 85% polyester, 15% PU Cushion: foam + synthetic rubber channels Fanbox: ABS/PC
EMC Certification	IEC60601-1-2
Air Travel & Battery Safety	UN38.3: Fanbox and Controller may be transported as hand luggage on commercial airlines

Operating Environmental Conditions

Environment - Operation

Temperature	5 – 40°C / 41 – 104°F
-------------	-----------------------

Relative Humidity (non-condensing)	30 – 80 %
------------------------------------	-----------

Air Pressure	700 – 1060 hPa
--------------	----------------

Environment – Transport & storage

Temperature	-10 – 65°C / 32 – 149°F
-------------	-------------------------

Relative Humidity (non-condensing)	30 – 95%
------------------------------------	----------

Air Pressure	700 – 1060 hPa
--------------	----------------

Sustainability and Disposal

Sustainability and quality are some of our core values, which translates into the materials we use.

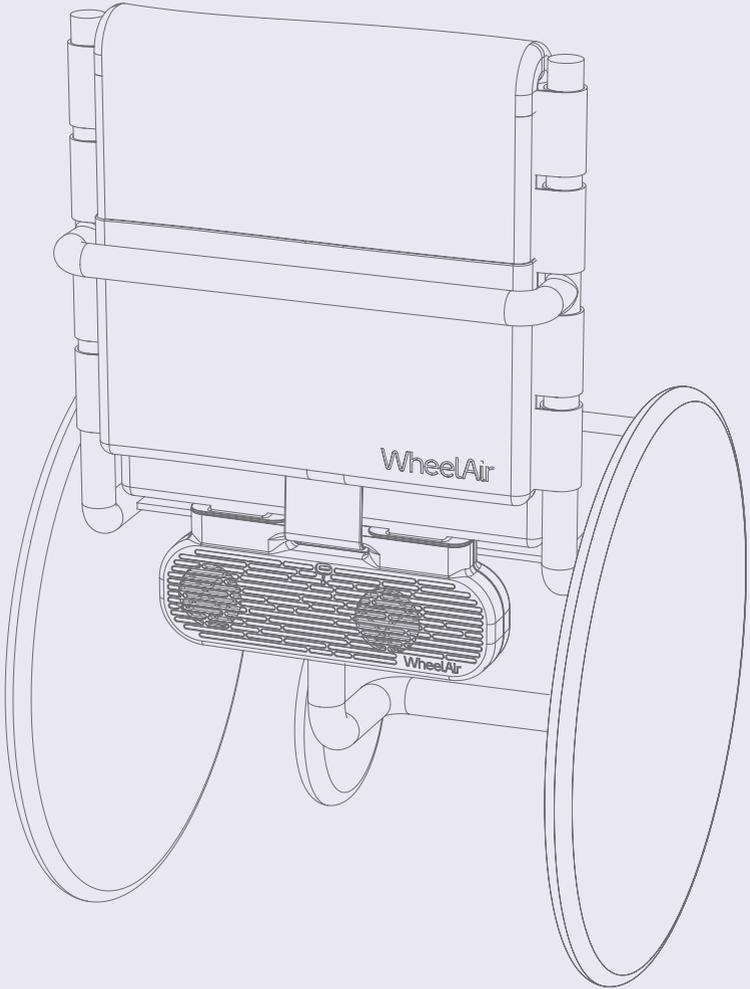


This Device contains no natural rubber, is latex free, and has no animal leather.



WheelAir and its distributors comply with the EU WEEE and Battery directives so this device may not be disposed of as part of normal household waste. Please contact your distributor for details when you wish to dispose of this product so that it can be recycled correctly.

WheelAir parts may be replaced individually – please contact your Distributor for details.

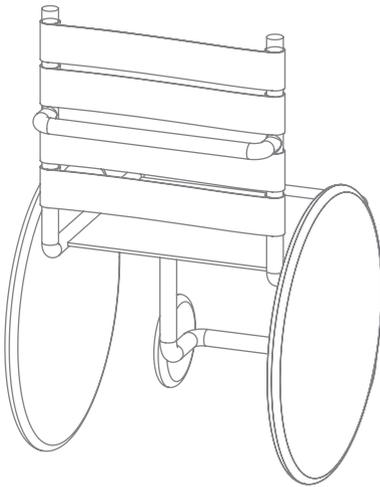


Installation

Your Sling Back may come packaged with the Fanbox already attached. If this is the case, remove Fanbox before installation. Fanbox is connected by a strap and is held in place by magnets. Disconnect strap and then the Fanbox may be pulled off.

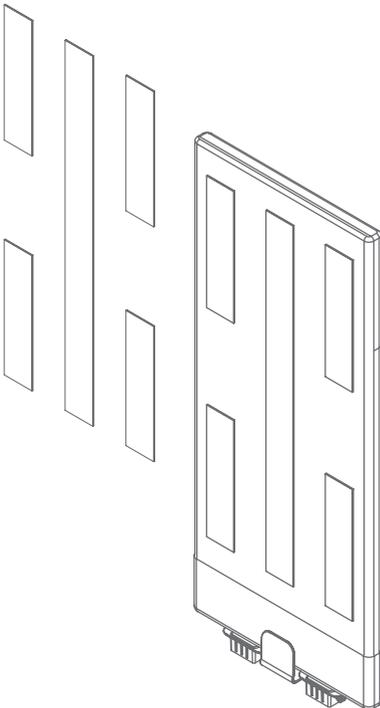
The Sling Back is designed to fit manual wheelchairs with a frame height of 300mm – 450mm and frame width of 320mm – 500mm.

The Sling Back is available in widths 290mm, 330mm, 360mm, 400mm, 420mm, 440mm to accommodate different frame sizes.



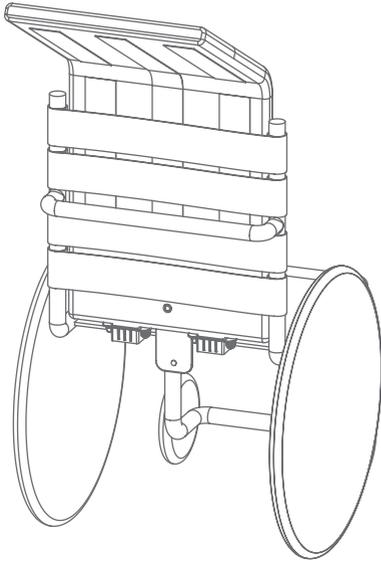
1.

Remove existing back rest from wheelchair, leaving support straps in place.



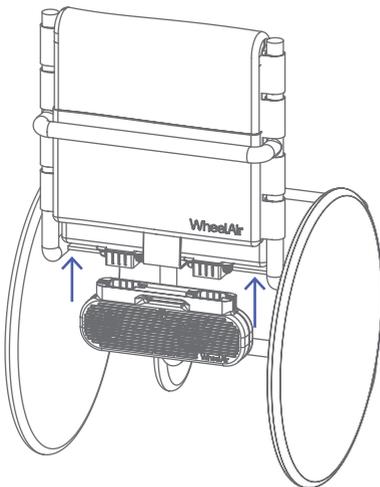
2.

Your wheelchair support straps should have hook-and-loop fasteners attached. Determine whether these are of the “hook” type or “loop” type. The Sling Back has “hook” type Velcro® fitted as standard. If your wheelchair also has “hooks” then you may use the Velcro® strips supplied with the Sling Back to allow the Sling Back to attach to your wheelchair.



3.

Attach the front of the Sling Back with the Velcro® to the wheelchair and fold the Device over the back so that the WheelAir logo is facing outwards on the back of the wheelchair.

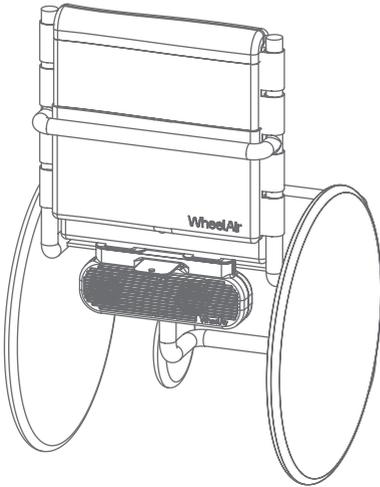


4.

Attach Fanbox into Sling Back adapters using magnets.

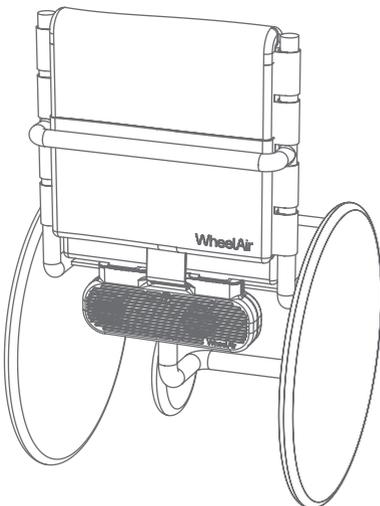
5.

Secure Fanbox using the magnetic strap.



6.

You are now ready to use your Sling Back.



Operation

Turning the Fanbox on

The Fanbox is turned on by pushing the Fanbox Standby button. The indicator light strip will flash blue to show Bluetooth® is searching for connection and turn green when connection is made with the Fanbox.

If you have issues connecting make sure Fanbox is not in flight mode. To take Fanbox out of Flight Mode hold down Fanbox Button for 5 seconds.

Controller Operation



The Controller buttons function with mid (c. 3 seconds) and short (instantaneous) presses.

	Short Press	Mid Press
Standby	Connect	Standby Mode
Up Arrow	Fan +1	Fan Maximum
Down Arrow	Fan -1	Fan Minimum
Battery	Fanbox Charge State	Controller Charge State

LED Indicator



NOTE: When no LED's are flashing on Fanbox, the unit is in Flight Mode.

Fanbox

The Fanbox can be controlled without the use of the Controller.

Short	Fan +1 (up to max and then cycles from min.)
Long (c. 5 Seconds)	Standby Mode / Flight Mode

Typical Runtimes

Fan Speed 1	c. 27 hours
Fan Speed 2	c. 22 hours
Fan Speed 3	c. 17 hours
Fan Speed 4	c. 15 hours
Fan Speed 5	c. 12 hours
Max	c. 4.5 hours

Charging

The Fanbox may be charged removed or attached.

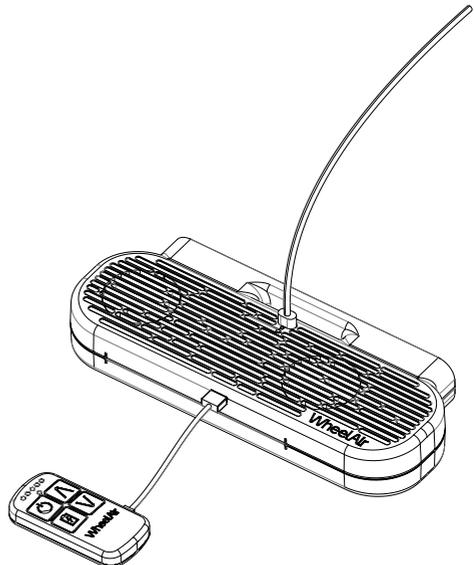
Connect Charger to the Fanbox and connect the Controller with the Controller Charging Cable as per the diagram below.

Fanbox LED and single controller LED will show charging state.

Pulsing Red	Low charge
Pulsing Orange	50% charged
Solid Green	Fully charged

Typical Charge Time

2 Hours	80%
---------	-----



Care and Maintenance

Maintenance

Light cleaning: wipe surfaces with a damp cloth.



Do not immerse Fanbox in water.

Service and Repair

If your device needs service or repair, contact your Distributor.



This product must only be repaired by WheelAir approved personnel and with WheelAir approved parts.



Only WheelAir parts and service providers may be used in order to maintain safety and essential performance with regard to electromagnetic emissions and disturbances.

Transportation and Storage

Aircraft Transportation

The Sling Back is designed to be allowed to be taken on commercial airlines. For traveling, remove the Fanbox and put it in flight mode. Store together with the Controller hand luggage.

Long Term Storage

If your Sling Back is not going to be used for an extended period (more than 2 months), your Fanbox and Controller should be fully charged before storage and thereafter should be fully charged again at least once every 3 months. Never store your Sling Back in conditions of extreme heat or cold.



Incorrect storage of your Fanbox will diminish the life of the battery.

Troubleshooting

Magnets connection

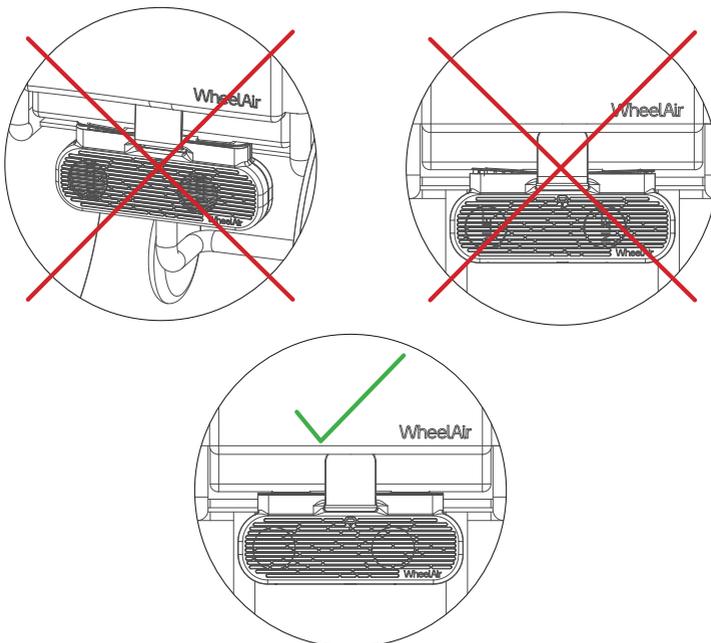
Make sure magnetic adapter is flush with Fanbox before securing the magnetic strap. If the magnet adapter is not flush, readjust the channel or flexible tube position to flatten.

Secure Strap

If not using the Fanbox bracket to secure the device to the wheelchair, please produce a safety strap to secure the Fanbox to the wheelchair (cover).

Reconnect Controller

Hold down the the Standby button and Up Arrow on the Contoller until the LED's on the Controller flash orange. Then click Fanbox button and the new/old Controller will be connected.



Warnings



This Device is designed for use in a Home Healthcare Environment and must not be used in Emergency Medical Services Environments.



Use only WheelAir approved accessories. Failure to do so will compromise EMC safety and may affect the performance of the device or other devices in the vicinity.



Do not operate the WheelAir without first reading this manual and retain for future reference. If the instructions or warnings are unclear contact your Distributor.



Do not use the WheelAir with any other backrest cushion product.



Only use this Device as instructed in this instruction manual.



The device uses ambient air so regulate the setting accordingly to avoid becoming too cold. If you or the user starts showing signs of hypothermia, seek medical attention immediately.



Only the Manufacturer's supplied external power supply may be used.

Symbols

Product Symbols



See User Manual



Battery Symbol



Latex free



CE Mark



Class II. Double Insulated



Manufacturer



Product Reference



Manufacture date (where
XXXX is year manufactured)



Product Serial Number



Bluetooth Communication



AC Current



Standby



DC Current



Party included in recycling
compliance scheme

Packaging Symbols



Fragile, handle with care



Temperature limits



This side up



Recyclable Material



Keep away from rain

Symbols Used in this Manual



Warning Symbol: Warning of a possible hazard may result in serious personal injury and / or damage to the product if instructions are not followed.



Caution symbol: Warning of a possible hazard may result in minor personal injury and / or damage to the product if instructions are not followed.



Information Symbol:
Recommendations to follow.

Warranty

Apart from general wear and tear, we warrant the WheelAir against specific defects for two years from the date of the original user's purchase. To qualify for warranty, the WheelAir must have its original serial number tag (located on the Fanbox) and you must have proof of purchase. We will send you a prepaid packaging slip to return your WheelAir to us.

Warranties are not transferable.

We do not warrant damage caused by poor treatment, accident, misuse or from improper installation or any exterior modification. We do not warrant if the Fanbox has been opened by the user or dropped/smashed. We do not warrant use in commercial activities, hire, reward or rental. We do not warrant if you simply change your mind after a 14 day return period.

However, we do service our products for a fee if there has been wear and tear or it has passed the 2 year warranty period. Claims can be made using the contact information provided on page 5. We do not pay for postage in this instance.

Only express warranties will be accepted – other warranties including implied warranties of merchantability and warranties of fitness for a particular purpose are not accepted. The only express warranties that are accepted are to repair or for replacement of the goods. No damages for breach of any warranty include any consequential damages or exceed the cost of non-conforming goods sold.

Declaration of Conformance

This product has been designed and tested according to the WEEE directive 2012/19/EU, Battery directive 2013/56/EU, General Product Safety Directive 2001/95/EC, RoHS Directive 2011/65/EC, Packaging and Packaging Waste Directive 94/62/EC and EMC Directive 2014/30/EU. This device is tested to IEC60601-1-2.

Emissions Tested

EN55011:2009 +A1: 2010

Radiated emissions tested only in normal (battery powered) mode. Class B.

Immunity Tested

EN61000-4-2:2009

Tested only in normal (battery powered) mode. Tested at +/- 4kV & +/- 8kV contact, +/- 8kV & +/- 15kV air, Home Healthcare Environment.

EN61000-4-3:2006 + A1:2008 + ISI:2009 + A2:2010

Tested only in normal (battery powered) mode. Tested at 3V/m, 80-6000MHz & 10V/m, 80-2700Mhz plus proximity fields, Home Healthcare Environment.

Radio Tested

EN301 489-17

Tested only in normal (battery powered) mode.

EN55032: 2015

Tested only in normal (battery powered) mode. Class B.

Effects of electromagnetic interference on the product and on the user



CAUTION Use of mobile devices with electromagnetic emissions (e.g., mobile phones) and should be used no closer than 30cm (12 inches) to any part of the Device, including cables specified and supplied by WheelAir.

Unpredictable operation of Device and controlling fan speeds due to interference with the control signals

Turn off all mobile devices if unpredictable operation of Controller is experienced since the communications may be affected by electromagnetic fields.

Turn the Sling Back off when it is not required, since the product may generate electromagnetic fields that can cause interference with other devices. The product has been tested according to EMC regulations.

Notwithstanding compliance with all applicable EMC directives and standards, the product can be affected by interference from other electric devices (e.g., department store EAS systems) or cause interference with such devices. If this occurs, move your product outside the interference range. • The Device may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones. • The interference (from radio wave sources) can inconsistent operation of the Device when changing fan speeds • Because EM energy rapidly becomes more intense as one move closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy very close to the Device's control system while using these devices. •Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, and cassette players, and small appliances, such as electric shavers and hair dryers, so far as we know, are not likely to cause EMI problems to your Device.

Thank you for choosing the WheelAir! We strive to provide high quality and functional products that never compromise on style.

WheelAir - Staels Design LTD,
PO Box 7428,
Glasgow, G51 9ER
www.wheelair.co.uk

2019 - Version 2
Designed in Glasgow, Scotland

Staels Design LTD has a policy of continual product improvement and may use their right to amend this document at any time. A current version of this document is available at www.wheelair.co.uk.