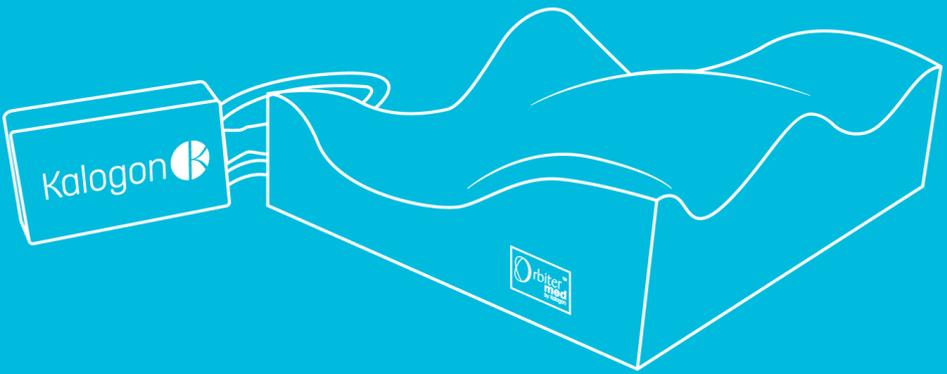


# ORBITER<sup>TM</sup>MED

Kalagon 



## Custom Cushion User Guide, Installation and Care Instructions

Kalagon 

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Orbiter Med 2025 - 07 - 07 rev2.2

# Table of Contents

Customer Satisfaction .....	2
General Information .....	2
Contents .....	3
Orbiter Med Intended Use .....	3
First Time Use Advisory .....	3
Conditions of Use .....	3
Getting Started .....	4
APMS Smartphone App .....	5
Ongoing Use .....	6
Accessories .....	6
Troubleshooting .....	6
Cleaning & Care .....	7
Storage .....	8
Disposal .....	8
Important Safety Information .....	8
Purchase Agreement .....	9
Warranty .....	9

## Customer Satisfaction

Kalogon strives for 100% customer satisfaction. Please contact us with feedback or suggested changes to help improve the quality and usability of our products.

### **Kalogon**

Address: 2412 Irwin St, Melbourne FL, 32901

Phone: (321)-465-4504

Email: [contact@kalogon.com](mailto:contact@kalogon.com)

Website: <https://www.kalogon.com>

## General Information

Read and understand all instructions prior to the use of the product. Failure to adhere to instructions and warnings in this document may result in damage to the product and may reduce or eliminate the cushion's benefits, increasing risk to the skin and soft tissue. Product misuse due to failure to adhere to the following instructions will void the warranty. Immediately discontinue use if any function is compromised, if parts are missing or loose, or if any component shows signs of excessive wear. Consult with your supplier for repairs, adjustments, or replacements.

# Contents

Each box contains the following:

- 1 Orbiter Med cushion with a cover and incontinence cover
- 1 Advanced Pressure Management System (APMS) control unit
- 1 APMS control unit mount and attachment hardware kit or pouch
- 1 APMS control unit charger
- 1 User manual

## Orbiter Med Intended Use

Orbiter Med is intended for use in power or manual wheelchairs of any kind. Its careful construction is designed to meet an individual's unique positioning and skin integrity needs. Orbiter Med creates a custom-designed and fabricated seated environment that contributes to improved posture and reduced risk of pressure injury. Our goal is for complete satisfaction for both clinicians and people sitting on the cushion.

Before Orbiter Med is installed, it is important to read and understand the instructions, warnings, care, and safety features of the cushion. For further assistance or more advanced applications, please contact Kalogon or the cushion supplier.

Always keep the operating instructions in a safe place so they may be referenced as necessary.

All information, pictures, illustrations, and specifications are based on the product information that was available at the time of printing. Pictures and illustrations shown in these instructions are representative examples and are not intended to be exact depictions of the various parts of the product.

Orbiter Med includes Kalogon's Advanced Pressure Management System (APMS), offering further customization options to augment offloading routines.

NOTE: The product and its components are not made with natural rubber latex. Consult with the manufacturer regarding any after-market accessories.

## First Time Use Advisory

During first-time use by the client, it is advised that a clinician, certified Assistive Technology Professional (ATP) or other licensed/certified medical professional (OT/PT) explain and assist in the configuration of user positioning to the customer. The professional helping with first time use should also establish appropriate settings in the Advanced Pressure Management System (APMS).

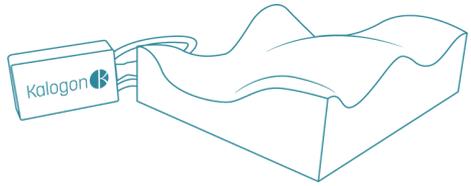
## Conditions of Use

Orbiter Med is intended for use as designated in the initial fitting by the clinician or dealer, in accordance with the installation instructions in this manual. The foreseen conditions of use are communicated by the dealer, clinician, or service technician to the user and/or attendant during the first-time use. If the usage conditions change significantly, please contact the clinician or dealer to avoid unintended damage.

# Getting Started

## Cushion Installation

- 1.Remove Orbiter Med from the packaging
- 2.Place it on wheelchair
- 3.Ensure the APMS hose exits the cushion so that the hose is on the LEFT HAND SIDE of the wheelchair when facing the chair



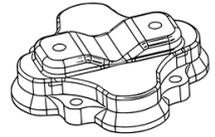
## APMS Controller Mount Install

You can mount the APMS controller to either a power or manual wheelchair using a mount kit or attach it in a pouch. Reach out to us with questions regarding mounting to a specific chair, and our team will be happy to assist.

## Clamp Mount

- 1.Select a location on the chair for the APMS mount such that it fits the controller:
  - a.within the frame of the wheelchair
  - b.without kinking the hosing from any angle
  - c.if the chair tilts, such that the controller will not be crushed
- 2.Remove mount from packaging and select the following:
  - a.APMS mount with clamp
  - b.Bolts
  - c.M4 Hex Key
- 3.Determine which provided bolt length is appropriate
- 4.Using provided Allen Key, loosen both bolts until the lower clamp is separated
- 5.Place the lower clamp where you want to mount the control unit
- 6.Keeping the bolts in the upper section of the mount, line up the bolt holes on the upper and lower clamp
- 7.Screw both bolts until mount is tightly attached to mounting surface
- 8.Slide box onto mount until it locks into place

Lower Clamp



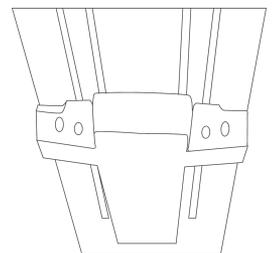
Upper Clamp



## T-Nut Mount

For chairs with a T-Bar, the mount can be installed within the bar's structure.

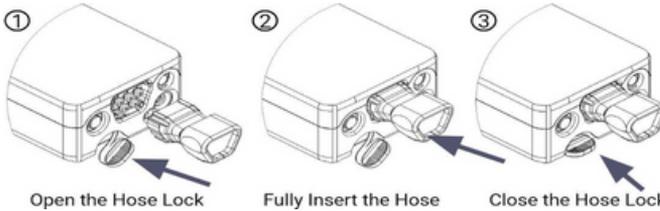
- 1.Remove mount from packaging and select the following:
  - a.APMS mount with clamp
  - b.M5 x 22mm bolt (2)
  - c.M5 x 10 mm T Nut (2)
  - d.4mm Hex Key
- 2.Place bolts into holes on the box side interface
- 3.Thread T nuts onto bolts, only a few threads
- 4.Find brackets with slots
- 5.Slide T nuts into slots
- 6.Tighten first T nut slightly with hex key
- 7.Slide mount into slot
- 8.Tighten second T nut
- 9.Check connection and tighten both T nuts as necessary



## APMS Hose Installation

APMS must be connected to the hose to function. The hose should be exiting out the back of the wheelchair on the left hand side (facing the wheelchair).

1. Swipe down to unlock the hose lock in the APMS unit
2. Firmly grasping the hose quick disconnect, slide in the hose until it cannot move
3. Rotate the hose lock to secure the hose



**DO NOT FORCE THE LOCK**– it will slide in if properly installed



NOTE: To remove the hose, open the hose lock first, then remove the hose.

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## APMS Smartphone App

### Download the App



**iOS Store**  
**Apple**



**Google Play**  
**Google**

Kalagon's smartphone app provides the ability to control APMS settings. Scan the QR code or visit the appropriate app store to download the app.

Download by using QR code or visiting:

iOS: <https://www.kalagon.com/iOSapp>

Google Play:  
<https://www.kalagon.com/GooglePlay>

## Connect to the Cushion & Adjust Settings

1. Open Kalagon app
2. Select "scan for devices"
3. Select Orbiter Med
4. Adjust each zone in the cushion based on the appropriate level of pressure
  - a. If appropriate, utilize a pressure map to ensure that each zone is set to the correct level
5. Select the timing for redistributions (either 2, 3, or 5 minutes)

The APMS will remember settings without being connected to the app. To update in the future, repeat steps 1 – 5.

To use multiple presets, please contact the Kalagon team.

# Ongoing Use

## APMS Maintenance & Charging

APMS will arrive with a partial charge and must be charged for ongoing use. The battery life is approximately 16 hours and can be charged using the provided wall charger. APMS will provide notifications in the form of a voice warning when it has a low battery. APMS should only be charged with the provided APMS charger.

The APMS can be charged while in use, however, this should be done with either Kalogon's XLR charger on a power wheelchair, which is sold as accessory, or when the user is seated and will not be moving about.

To ensure that APMS is up to date, a clinician, certified Rehab Technology Provider (RTP) or other licensed/certified medical professional (OT/PT) should update the firmware using the app once every six months.

## APMS Controller Removal

1. Hold down on the circular cutout in the release tab on the back of the APMS controller
2. While firmly pressing down on the release tab pull back on the controller
3. Slide controller off the mount



**DO NOT FORCE THE MECHANISM**

This could damage the release tab and make it difficult to re-install the controller

## Cover Removal and Reinstallation

To remove and reinstall covers.

1. Unzip zipper fully
2. Unfasten the wrap from the base of the hose
3. Remove cover
4. To reinstall, place the foam inside such that the hose wrap aligns with your hose
5. Zip in the cushion and ensure that the Orbiter Med label appears on the sides of the cushion

# Accessories

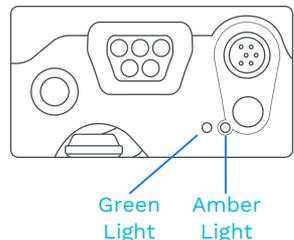
The following accessories are available for Orbiter Med:

- XLR Charger: Allows for charging from certain power wheelchairs
- Extender: Allows the user to power the APMS on and off from the hand controls

# Troubleshooting

## Common APMS Errors

- The APMS control unit is equipped with both an amber light and green light, as well as a speaker
- The green light will be solid when the unit is operating
- The unit is also equipped with an amber light and will blink with the following indications. An audible beep will accompany this visual cue



## Common Notifications

If the APMS unit needs to be charged, the device will both audibly announce “low battery” and provide a visual warning.

Blink	Beep	State
3	3	Disconnected
5	5	General Error

If a 3-Beep or 5-Beep error is observed:

- Check APMS hose to ensure the hose is fully seated within the controller
- Check for APMS system firmware updates on the smartphone app

The orange light will be SOLID ORANGE when charging. If you do not see a solid orange light:

- Check adapter connection to the wall outlet
- Check adapter, only use the adapter that came boxed with Orbiter
- Check charging plug connection to the controller

If the system continues to show an error state, reach out to our customer service team:

- (321) 465-4504
- [contact@kalogon.com](mailto:contact@kalogon.com)

## Cleaning & Care

### Inspection

Before installation of a new Orbiter Med, it is recommended that client and clinician perform a visual inspection. In the event of serious damage, contact the supplier for instructions. DO NOT attempt to make any repairs.

### Cleaning

Ensure all cleaners are approved for plastic and upholstered surfaces.

To clean the outer cover of the cushion:

- Remove the cover from the cushion.
- Machine wash cover with gentle detergent in cold water on a delicate cycle and drip dry.
- If only the top is dirty, wipe it down with a disinfectant wipe.
- Remove dirt and debris in the zipper teeth using a mild soap and water and a brush with soft bristles.

To clean the incontinence cover, wipe down with disinfectant wipe. Do not wash the incontinence cover as it contains the foam.

## Warnings: Cover Cleaning

 **DO NOT TUMBLE DRY**  **DO NOT IRON**  **DO NOT BLEACH COVER**

To clean the outside of your Advanced Pressure Management System (APMS) unit :

- Wipe with a dry or very slightly damp cloth
- Wipe with a 70% or less IPA alcohol-based or antibacterial cleaning wipe
- A light blast of air to clear out any visible dust



**WARNING: NEVER ATTEMPT TO CLEAN THE INSIDE OF APMS OR TO DISASSEMBLE IT FOR CLEANING**



**WARNING: NEVER CLEAN OR EXPOSE APMS TO:**

- Running water
- Sunscreen
- Dishwasher
- Bleach
- Acetone or other caustic cleaners
- Chlorine based solutions

## Storage

Orbiter Med should be stored in a clean, dry place at room temperature. Do not store in extreme hot or cold temperatures or in damp environments.

The control box, or outer electrical component, of the Advanced Pressure Management unit and any associated chargers and cables must be stored in environment away from running water. Please refer to the Cleaning section for additional warnings.

## Disposal

For proper disposal of your Orbiter Med and components, please contact your local authorities for regulations that may impact disposal of electronics, foam, cloth, and other components.



## Important Safety Information



### Warning Labels: Purpose

Warnings are included for the safety of the user, client, operator, and property. Understanding how to care for your product is key to proper and safe use.

### Warning Labels: Types

<b>DANGER</b>	Identifies an imminent situation which, if not avoided, may result in severe injury, death, and/or property damage.
<b>WARNING</b>	Identifies a potential situation which, if not avoided, may result in severe injury, death, and/or property damage.
<b>CAUTION</b>	Identifies a potential situation which, if not avoided, may result in minor to moderate injury, and/or property damage.
<b>SAFETY</b>	Indicates steps or instructions for safe practices, reminders of safe procedures, or important safety equipment that may be necessary.
<b>IMPORTANT</b>	Indicates a hazardous situation that could result in property damage if not avoided.



**WARNING:** All Orbiter Med cushions are designed to help reduce risk of pressure injury. However, no cushion can completely eliminate pressure as a result of sitting or prevent pressure sores. Orbiter Med is not a substitute for good skin care including proper diet, cleanliness, and regular pressure relief techniques.

-  **WARNING:** The maximum user weight of each cushion is dependent on the cushion correctly fitting the end user (aka client) and the selected foam stack-up of the cushion. Ensure the client buttocks do not overhang the edges of the cushion whilst seated, as this would mean the client is too wide for the specific size cushion. Cushion dimensions must be provided at time of order.
-  **CAUTION:** Installing new parts or accessories to a wheelchair may alter the intended use of Orbiter Med. Any revisions to wheelchair should be discussed between clinician and client to ensure the continued proper use of Orbiter Med.
-  **IMPORTANT:** During initial use it is recommended a healthcare clinician perform skin checks to assess any issues related to skin breakdown on areas in contact with the product. Skin checks should continue routinely as recommended by a clinician. Consult with a healthcare clinician for any concerns with skin integrity.
-  **CAUTION:** This product is designed to be fitted, applied, and installed in consultation with a clinician. As Orbiter Med is custom designed for one specific individual, it cannot be used with any other person.

## Purchaser's Agreement

By accepting delivery of this product, you agree that you will not change, alter, or modify an Orbiter Med, either as a clinician or an individual using this cushion.

-  **IMPORTANT** You must read and follow all instructions, warnings, and notes in this manual before using the device for the first time. Understanding proper care is necessary for safe and proper use.
-  **IMPORTANT** If there is any information in this manual which you do not understand, or you require additional assistance for setup or operation, please contact your Kalogon representative or authorized dealer.
-  **CAUTION** Failure to follow the instructions in this manual may result in damage to, or inadequate performance of the product.
-  **CAUTION** Cutting any part of Orbiter Med (cushion, cover, hose, or any other component) may damage the Advanced Pressure Management System or alter the intent of the design to address seating concerns.

## Warranty

Kalogon products are designed, manufactured, and produced to the highest of standards. If any defect in material or workmanship is found, Kalogon will repair or replace. Kalogon does not warrant damage due to, but not limited to misuse, abuse, misapplication, and/or modification of product without written approval from Kalogon.

Kalogon is liable for replacement parts only. Kalogon is not liable for any incurred labor costs. No person is authorized to alter, extend, or waive the warranties of Kalogon. Kalogon warrants against failure due to defective materials or workmanship for a period of:

- Covers (top and incontinence covers): 18 months
- Foam: 18 months
- Hardware: 18 months
- Advance Pressure Management System (APMS) Hardware: 18 months

Kalagon cannot be held responsible for damage or injury due to the misuse of the product or failure to follow instructions.

Kalagon is not liable for personal injury or damage to property that may arise from the failure of the user or other persons to follow product recommendations, warnings, and instructions.



**CAUTION:** Installing new parts to a wheelchair may alter the intended use of the product. Be sure to discuss any revisions to wheelchair with clinician and client to ensure the continued proper use of Orbiter Med.



**WARNING:** Any alterations to the product conducted by anyone other than a representative of Kalagon will result in the immediate termination of the product warranty.

In the event of product failure covered by our warranty, please call Kalagon at 321-465-4504 or email us at [contact@kalagon.com](mailto:contact@kalagon.com).

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.