

Mobile Containment. Simplified.™



Kontrol Kube Advanced Owners Manual

KONTROL KUBE®
www.kontrolkube.com • 800.342.3755

IMPORTANT SAFETY INFORMATION

SAVE THESE INSTRUCTIONS.

CAREFULLY READ AND FOLLOW THESE INSTRUCTIONS.

WARNING: Failure to follow all instructions may result in serious injury.

INSPECTION

1. Inspect for damage or missing parts before each use.
2. Never use with missing or damaged parts.
3. Check to see that all parts are in good condition.
4. Never repair a damaged unit without consultation with the manufacturer.

PROPER SET UP AND USE

1. **Inspect for damage or missing parts before each use.**
2. **READ ALL LABELS!**
3. **DANGER! METAL CONDUCTS ELECTRICITY! BE CAREFUL! Use care when using near electrical lines and circuits.**
4. You should never use a unit if you are not in good physical condition.
5. Unit wheel base is designed to support the weight of one person and material. Maximum weight not to exceed 500 lbs.
6. Use caution when in front of and adjacent to unlocked doors.
7. Place unit on firm level ground.
8. Do not use on slippery surfaces.
9. Never place anything under unit wheel base to gain height or adjust for uneven surfaces.
10. Check that all four casters are locked and firmly supported to prevent excessive movement.
11. Use extreme caution getting into and out of the unit.
12. Never move, or have someone else move the unit while in the unit.
13. If using a ladder inside the unit, read, understand and follow ladder manufacturer's instructions.
14. Do not use any components not supplied or approved by the manufacturer of this product.
15. Do not use if interior surfaces are wet. If wet, surfaces may be slippery. Dry interior surfaces before entering enclosure.

PROPER CARE AND STORAGE

1. Always keep unit clean of all foreign materials.
2. Never store materials on unit.
3. Properly support and restrain unit in transit or storage. Wear damage from transit may weaken the unit.
4. For additional care, use, and safety instructions contact your employer, dealer or the manufacturer.

The Kontrol Kube must be used only as part of a comprehensive airborne contaminant control program. This program must include staff training in the set-up and use of the Kontrol Kube and related equipment. Unit should always be set up in advance in a mock situation to determine that the Kontrol Kube is performing to expectations, and that staff understands proper use

Table of Contents

IMPORTANT SAFETY INFORMATION	2
Initial Set Up	
Section 1: Initial Enclosure Set up	4
Part A: Inserting frame bottom into bottom of enclosure	4
Part B: Inserting poles into frame base	4
Part C: Inserting frame top into enclosure top	4
Part D: Final assembly of unit	5
Section 2: Attaching AirBase (negative air machine base)	6
Section 3: Attaching Negative Air Machine	7
Basic Operation	
Section 1: Raising and Positioning	8
Section 2: Lowering the Unit	8
Section 3: Collapsing the Unit	8
Section 4: <i>Quick Set Up</i> of the Unit	10
Section 5: Attaching Flange	10
Part A: Attaching anteroom flange	10
Applications	
Section 1: Construction and Maintenance	11
Part A: Overhead containment access	11
Part B: Wall containment	11
Part C: Anteroom containment	11-12
Section 2: Short Term Airborne Infection Isolation	12
Part A: Anteroom containment	12
Additional Information	
Washing & Care	13
Warranty	13

Initial Set Up

Section 1: Initial Enclosure Set Up

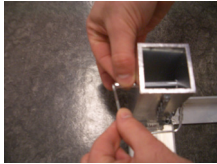
Part A: Inserting frame bottom into bottom of enclosure

1. Unfold enclosure and place bottom (*gray reinforced vinyl portion*) flat on the floor.
2. Place bottom frame into the enclosure, sockets up. Corners of frame should rest on the enclosures reinforced webbing.

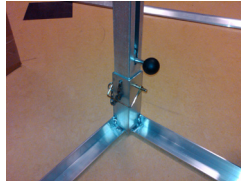


Part B: Inserting poles into frame base

1. Remove pins from bottom frame.



2. Insert pole into the bottom frame. **Make sure that all slots and channels in the poles are facing in.** Repeat for each pole.
3. Insert pins through frame and pole and reattach the locking clasp.
4. Lower each pole to the lowest position. **The black handle should rest on the bottom of the vertical channel.**



Part C: Inserting frame top into enclosure top

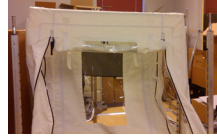
1. Insert top frame into the top of the enclosure. Corners of frame should rest into the enclosures reinforced webbing.
2. Wrap Velcro tabs near the top corners of the enclosure around the frame and secure (2 per corner).



Initial Set Up

Part D: Final assembly of unit - two person operation

1. With a person on each end of the unit, lift the top frame and enclosure over the top of the poles one at a time. **Lift the enclosure and top frame over one pole and then the other on the same long side of the unit. Repeat this on the other long side of the unit, lifting it over the two remaining poles.**



2. From inside the unit, place rubber gaskets on frame top over poles and pull down until the pole locks into place. Repeat for each pole.



3. Raise the enclosure, with each person holding two handles, by rotating handles into the vertical channel and lifting. Consider opening the 4-way clear vinyl ceiling zipper when partially raised before zipper tabs are out of reach. Once unit is raised, rotate handles into a support channel until they drop into the locking slots. It is recommended to raise at 3 or 4 increments per side until desired height is reached. Prior to lifting the unit to full height, be aware of any overhead obstructions (ceilings, sprinklers, etc.)



4. Wrap Velcro® tabs (anti-sag restraints), located half way up the enclosure at each corner, around pole and secure. Ensure that the Velcro is above the lower section of the pole and tight enough to prevent it from slipping over the lower section.



5. Place unit wheelbase flat on the floor and lock all four casters by pressing the locking mechanism into the down position.



Lift the containment unit, by the poles, and place unit onto the wheelbase. Watch out for overhead obstructions.

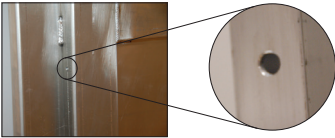
Initial Set Up

Section 2: Attaching AirBase (negative air machine base)

1. Lock all four casters on the unit wheelbase and ensure that the AirBase casters are unlocked.
2. Remove pins from the bottom of the unit wheelbase.
3. Position AirBase forks so they align with the unit wheelbase channels.*
4. Slide forks completely into channels until hole in the sides of unit wheelbase channels & AirBase forks align.



5. Slide pins through holes and lock in place to secure AirBase to the unit wheelbase.



6. Place Kontrol Kube negative air machine on AirBase. (see *Initial Setup, Section 3: Attaching Negative Air Machine* for additional instructions.)



If using a negative air machine other than the Kontrol Kube Negative Air Machine it may be necessary to use the alternate locking position which allows the AirBase to be secured with a 12" gap between itself and the unit wheelbase.

1. Slide AirBase forks completely into the unit wheelbase channels.
2. Slowly pull the AirBase out while looking at the holes located in the channels of the unit wheelbase.

When the secondary holes in the AirBase forks align with the holes in the unit wheelbase slide pins through holes and lock in place.



*Kontrol Kube units are machined to precise tolerances. To slide AirBase into the unit wheelbase, it may sometimes be easier to place both bases on their side. This will make it easier to insert the AirBase forks into the wheelbase channels.

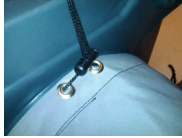
Initial Set Up

Section 3: Attaching Negative Air Machine

1. Place negative air machine with intake manifold facing the large enclosure port.



2. Pull port tube over intake manifold on the negative air machine and tighten using drawstrings. If using a flex duct, attach one end around the intake manifold and feed the other end through the large port.



3. See *Kontrol Kube Negative Air Machine Manual* for complete operating instructions. When attaching negative air machines other than the Kontrol Kube Negative Air Machine, please contact your Fiberlock area sales manager.

Basic Operation

Section 1: Raising and Positioning

1. Roll the unit into position and **lock all 4 casters on the unit wheelbase.**
2. From inside the unit, facing one of the short ends, grasp the handles located on the two poles, lifting and twisting the handles into the vertical channel.
3. Raise the handles approximately 6" and twist handles into a support channel until they drop into the locking slots. Move to the other short end and repeat. Continue raising the unit, one end at a time, until the desired height is reached. Make sure that all poles are locked into the support channel at the same level.

If the unit is being raised by two people, both people should twist the handles into the vertical channel and raise the handles until the unit is at the desired height simultaneously. Twist the handles into the support channels until they drop into the locking slots. Make sure that all poles are locked into the support channel at the same level.

Section 2: Lowering the Unit

1. From inside the unit, facing one of the short ends, grasp the handles located on the two poles, lifting and twisting the handles into the vertical channel.
2. Lower the handles approximately 6" and twist handles into a support channel until they drop into the locking slots. Move to the other short end and repeat. Continue lowering the unit, one end at a time, until the desired height is reached. Make sure that all poles are locked into the support channel at the same level.

If the unit is being lowered by two people, both people should twist the handles into the vertical channel and lower the handles until the unit is at the desired height simultaneously. Twist the handles into the support channels until they drop into the locking slots. Make sure that all poles are locked into the support channel at the same level.

Section 3: Collapsing the Unit (on unit wheelbase)

1. Disconnect the Velcro "anti-sag restraints" located halfway up the enclosure and wrapped around each pole.



2. From inside the unit, facing one of the short ends, grasp the handles located on the two poles, lifting and twisting the handles into the vertical channel.
3. Lower the handles approximately 6" and twist handles into a support channel until they drop into the locking slots. Move to the other short end and repeat. Continue lowering the unit, one end at a time, until the handles are locked into the lowest support channel.



If the unit is being lowered by two people, both people should twist the handles into the vertical channel and lower the handles until they reach the lowest support channel. Twist the handles into the support channels until they drop into the locking slots.

Basic Operation

4. From inside the unit lift each corner of the top frame separating it from the pole. Repeat for each pole.



5. Lift the top frame and enclosure over the top of the poles and place on the floor.



6. Remove the locking pins from each pole.

7. Lower poles until the handle sits at the bottom of the vertical channel and set poles diagonally across the floor of the enclosure.



8. Lift and place top frame and enclosure onto the lower frame. Bunch the enclosure neatly into the center of the collapsed unit ensuring that it does not hang over the edges of the unit wheelbase.



9. When completely collapsed slide one Velcro synch strap under the based from one long side to the other.
10. Attached the end of one Velcro synch strap to one of the Velcro straps located on the outside of the enclosure above the door opening. Attach the other end of the Velcro synch strap to the Velcro door strap on the other side of the unit. Ensure that the Velcro synch strap is tight and adjust if necessary.



11. Repeat steps 9 -10 with the second Velcro synch strap using the second set of Velcro door straps.
12. Once unit is secured ensure that the top and bottom frame corners align.

Basic Operation

Section 4: Quick Set Up of the unit

1. Follow **Part B** and **Part D** from *Initial Setup, Section 1: Initial set up of Enclosure*.

Section 5: Attaching Flange

When flange is not being used it should be removed and stored.

Part A: Attaching anteroom flange

1. Zip anteroom flange to one of doors located on the wide side of the unit and ensure that the zipper is completely zippered.
2. Position unit as anteroom and attach to walls or door frame with tape or similar to additional inhibition of particulate release.

Applications

Section 1: Construction and Maintenance

Part A: Overhead containment access

1. Raise and position the unit under the work area as instructed in *Basic Operation, Section 1: Raising and Positioning* (pg. 8).
2. **Ensure that all four casters on the unit wheel base are locked before entering the unit.**
3. When properly raised, the top of enclosure should rest against the ceiling.
4. Open ceiling zippers as necessary to access work area.
5. Attach the negative air machine as instructed in *Initial Setup, Section 3: Attaching Negative Air Machine* (pg. 7) and turn on. See *Kontrol Kube Negative Air Machine Manual* for complete operating instructions.
6. If needed, open pressure relief panel located on the same end as the negative air machine ports.
7. When inside containment make sure that doors are closed and Velcro located on the bottom of the doors are secured to the enclosure.



8. **Follow all applicable infection control and containment procedures.**

Part B: Wall containment

1. Raise and position the unit against the wall work area as instructed in *Basic Operation, Section 1: Raising and Positioning* (pg. 8). **Check to make sure that the unit is tight against the wall.**
2. **Ensure that all four casters on the unit wheel base are locked before entering the unit.**
3. From inside the unit unzip the door which is against the wall work area. Roll door up and secure with Velcro straps located inside and outside the unit above the door panel.
4. Attach the negative air machine as instructed in *Initial Setup, Section 3: Attaching Negative Air Machine* (pg. 7) and turn on. See *Kontrol Kube Negative Air Machine Manual* for complete operating instructions.
5. If needed, open pressure relief panel located on the same end as the negative air machine ports.
6. When inside containment make sure that any door which does not need to be open is closed and Velcro located on the bottom of the doors are secured to the enclosure.
7. **Follow all applicable infection control and containment procedures.**
8. **When using the unit on the unit wheel base ensure that the unit is sufficiently close to the wall work area to prevent material from falling down between the unit and wall work area. If this is not possible remove the unit from the base and tape the bottom of the enclosure to the wall to prevent material from falling between the open door on the unit and wall work area. (Recommended tape is: Berry Plastics PATCO 535 Clear or equivalent)**

Part C: Anteroom containment

1. **When used as an anteroom the unit must sit on the floor without the unit wheelbase and there must be adequate clearance above the door for the unit to be fully raised.**
2. Attach anteroom flange to the enclosure on the side of the unit which will be against the construction

Applications

doorway as instructed in *Basic Operation, Section 5: Attaching Flange*.

3. Raise and position the unit against the construction doorway as instructed in *Basic Operation, Section 1: Raising and Positioning* (pg. 8). **Unit must not be sitting on the unit wheelbase.**
4. From inside the unit unzip the door which is against the construction doorway. Roll door up and secure with Velcro straps located inside and outside the unit above the door panel.
5. Tape anteroom flange to the outside of the construction doorway. **Ensure that the entire flange is securely fastened and that there are no gaps. (Recommended tape is: Berry Plastics PATCO 535 Clear or equivalent)**
6. Attach the negative air machine as instructed in *Initial Setup, Section 3: Attaching Negative Air Machine* (pg. 7) and turn on. See *Kontrol Kube Negative Air Machine Manual* for complete operating instructions.
7. If needed, open pressure relief panel located on the same end as the negative air machine ports.
8. **Follow all applicable infection control and containment procedures.**

Section 2: Short Term Airborne Infection Isolation

Part A: Anteroom containment

1. **When used as an anteroom the unit must sit on the floor without the unit wheel base.**
2. Attach anteroom flanges to the enclosure on the side of the unit which will be against the isolation doorway as instructed in *Basic Operation, Section 5: Attaching Flange*.
3. Raise and position the unit against the isolation doorway as instructed in *Basic Operation, Section 1: Raising and Positioning* (pg. 8). Unit must not be sitting on the unit wheel base.
4. From inside the unit unzip door which is against the isolation doorway. Roll door up and secure with Velcro straps located inside and outside the unit above the door panel.
5. Tape anteroom flange to the outside of the construction doorway. **Ensure that the entire flange is securely fastened and that there are no gaps.**
6. Attach the negative air machine as instructed in *Initial Setup, Section 3: Attaching Negative Air Machine* (pg. 7) and turn on. See *Kontrol Kube Negative Air Machine Manual* for complete operating instructions.
7. If needed, open pressure relief panel located on the same end as the negative air machine ports.
8. **Follow all applicable infection control and containment requirements. Ensure that proper procedure is followed when entering and exiting the isolation area including the opening and closing of the unit doors.**

Washing and Care

The Kontrol Kube Advanced enclosure may be machine washed using cold water and a mild detergent or disinfectant such as Fiberlock ShockWave® Disinfectant. Allow enclosure to air dry. Do not put enclosure in a conventional or high temperature dryer.

When moving the assembled unit, always be mindful of overhead obstructions. When moving the unit by pulling or pushing on the extended poles, tempting to force unit through narrow openings and/or when the wheelbase is heavily loaded, can cause poles to bend or break. Pulling too hard on zippers can cause them to break or rip the enclosure. Keep these tips in mind when assembling, disassembling or using the unit. It may be possible for minor tears to be repaired locally. Please contact your Fiberlock area manager for details and for further washing and care instructions as needed.

Limited Warranty

Fiberlock Technologies, Inc. ("Fiberlock") warrants Kontrol Kube products against defect in material or workmanship for the time periods and as set forth below. Pursuant to this Limited Warranty, Fiberlock will, at its option, (i) repair the product or (ii) replace the product. **In the event of a defect, these are your exclusive remedies.**

Advanced Enclosures (6546/6547) - For a period of 1 year from the original date of purchase of product, Fiberlock will repair, refund or replace the parts determined to be defective.

Frame (6540/6541), Unit Wheel Base (6543) and AirBase (6542) - For a period of 5 years from the original date of purchase of product, Fiberlock will repair, refund or replace the parts determined to be defective.

This warranty covers only product issues caused by defect in material or workmanship during normal use as described in the manual. It does not cover cosmetic damage or damages caused by any other reason, including but not limited to, acts of God, misuse, modifications of or any part of the product, or normal and expected wear and tear.

Proof of purchase in the form of a bill of sale, receipt or invoice which documents that the unit is within the warranty period, must be presented to obtain warranty service.

Instructions: For specific instructions on how to obtain warranty service for your unit call Fiberlock at 1-800-342-3755.

LIMITATION ON DAMAGES: FIBERLOCK SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THESE PRODUCTS.

DURATION OF IMPLIED WARRANTIES: EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may have other rights which vary from state to state.

