

## ENVIRONMENTAL CONTAINMENT UNIT™ PRODUCT SPECIFICATIONS

### FRAME

- › Lightweight, collapsible frame
- › Spring-loaded piston top frame assembly, with non-porous, zero-memory foam strip
- › Sturdy, non-skid polyurethane wheels

Collapsed Dimensions: 10.0" x 10.0" x 62.0"

#### Extended Dimensions

FOOTPRINT: 58.0" x 28.0"

HEIGHT: 7'6" to 9'5"

Weight: 45 pounds

### ECU-ANTEROOM™ ENVELOPE

- › Durable CA State Fire Marshal flame-rated PVC sheeting - hospital white, easy to clean with standard cleaner
- › Flange: Flared from 43.0" to 52.0"
- › Four Doors (one on each side):
  - FLANGE SIDE: 38.0" door within a 49.0" door
  - NON-FLANGE: 38.0"
  - NARROW SIDES: 20.5"
- › Four clear panel windows - 14.0" x 40.0"
- › Two negative air ports in one removable panel for placement on either side of unit
  - 11.0" round port with drawstring and seal
  - 3.5" round HEPA vacuum port with drawstring and seal

› Double-reinforced floor

› Clear pouch to display work/infection control permit

Weight: 25 pounds

### ECU-CEILING CAVITY™ ENVELOPE

- › Durable CA State Fire Marshal flame-rated PVC sheeting - hospital white, easy to clean with standard cleaner
- › One 20.5" door
- › Two clear panel windows - 14.0" x 40.0"
- › Two negative air ports
  - 11.0" round port with drawstring and seal
  - 3.5" round HEPA vacuum port with drawstring and seal

› Double-reinforced floor

› Clear pouch to display work/infection control permit

Weight: 15 pounds

YOUR CHOICE OF ENVELOPE

## ENVIRONMENTAL CONTAINMENT UNIT™ CEILING CAVITY



Ceiling Cavity Projects

Wall Access Projects

Construction Anteroom

Isolation Room Conversion

ENGINEERED TO PROTECT  
HEALTHCARE ENVIRONMENTS  
FROM HARMFUL CONTAMINANTS

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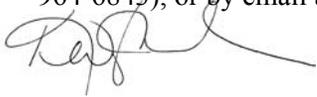
MINTIE® TECHNOLOGIES, INC.

[www.mintie.com](http://www.mintie.com)

Dear Customer,

Thank you for your purchase of the Environmental Containment Unit™–Ceiling Cavity by Mintie Technologies, Inc. The ECU–Ceiling Cavity™ is the only portable, collapsible containment product that protects healthcare and other sensitive environments from harmful airborne particulates during construction, maintenance and abatement activities. The ECU–Ceiling Cavity™ has been clinically tested for use in healthcare environments and meets all CDC and CSA containment standards.

Your satisfaction as a customer is extremely important to us. If you have any questions that are not answered by this instruction manual or enclosed video, or if you would like to offer feedback on the ECU–Ceiling Cavity,™ please contact us at (800) 9-MINTIE (800-964-6843), or by email at [ecu@mintie.com](mailto:ecu@mintie.com).



Kevin Mintie  
Chief Executive Officer

### **LIMITED PRODUCT WARRANTY**

Mintie Technologies, Inc.,<sup>®</sup> warrants to the original purchaser that each part of the Environmental Containment Unit Ceiling Cavity™ (ECU–Ceiling Cavity™) to be free from defects in material or workmanship for a period of six months after the date of original purchase. This warranty applies only for normal and expected uses, as determined by the manufacturer and explained and demonstrated in the accompanying instruction manual.

### **REMEDY LIMITATION**

Mintie Technologies, Inc.’s<sup>®</sup> obligation and liability under this warranty is limited to the repair or replacement (at its option) of the product or its parts, after its own review and examination. This will be purchaser's exclusive remedy under this limited product warranty. Mintie Technologies,<sup>®</sup> Inc. will not be liable for incidental or consequential damages even if its attempts to repair the defects fails, but in such case (or if Mintie Technologies, Inc.<sup>®</sup> elects not to repair or replace) the purchaser will be entitled only to a refund of monies paid to Mintie Technologies, Inc.<sup>®</sup> for the ECU–Ceiling Cavity™.

This warranty shall be void as to any product which has been altered or modified in any manner. This warranty does not apply to damages caused by any force of nature, to accidental or deliberated damage of the product, or to use of the product that does not conform with the product instructions.

### **EXCLUSION OF ALL OTHER WARRANTIES**

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED PRODUCT WARRANTY SET FORTH ABOVE. MINTIE TECHNOLOGIES, INC. DISCLAIMS ANY WARRANTY OF ANY OTHER KIND, INCLUDING WITHOUT LIMITATION, ANY WARRANTY THAT THE GOODS ARE MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE

Ceiling Cavity™

Mintie Technologies, Inc.<sup>®</sup>  
**Environmental Containment Unit™**

**ECU-Ceiling Cavity™**



**Instruction Manual**

**INITIAL SET UP**

**Part A: Initial Set Up of ECU™ Frame**

1. While standing on one of the two long sides of the frame, simultaneously grasp two of the white plastic sliders and open ECU™ Frame until the Outer Legs on the long sides of the ECU™ Frame are approximately 2' apart. (Fig. A-1) **CAUTION: Do not grasp Outer Legs below chrome Push Buttons during opening of ECU™ Frame to prevent accidental pinching of fingers.**
2. Push down floor trusses with foot to square off unit. (Fig. A-2)
3. Finish by pushing up on each plastic Slider until each chrome Push Button locks into place. (Figs. A-3, A-4)



(Fig. A-1)



(Fig. A-2)



(Fig. A-3)



(Fig. A-4)

12. Flip up the four Upper Folding Frame Pistons and place in white storage box in front pocket of blue cover sleeve. (Fig. III-9)
13. Slide blue sleeve over closed ECU™ so that the front pocket is opposite wheeled side of unit below the Height Adjustment Release Knobs. (Figs. III-10, III-11)



Fig. III-7



Fig. III-8



Fig. III-9



Fig. III-10



Fig. III-11

## Part B: Attachment of ECU-Ceiling Cavity™ Containment Envelope to Frame

1. Remove ECU™ Ceiling Cavity containment envelope from the polybag, unfold and position inside the ECU™ Frame so that the door is on the wheel side of frame.
2. Attach each of the four large Velcro Cuffs, located at the top corner of the envelope, to each of the Outer Legs. The cuff should be attached between each of the Sliders and Outer Leg Caps near the top of the ECU™. (Fig B-1)
3. Attach Velcro cuffs to each of the four floor trusses. (Fig. B-2)
4. Attach top three of the smaller Velcro straps located on each side of the ECU-Ceiling Cavity™ envelope to the Outer Legs of the ECU™ frame. (Fig. B-3)



(Fig. B-1)



(Fig. B-2)



(Fig. B-3)

## Part C: Preparation of Upper Folding Frame

1. Remove Upper Folding Frame from white box. **DO NOT DISCARD WHITE BOX.** Place the Upper Folding Frame (still folded) on a large flat surface. Remove two long foam strips and four short foam strips from the long, narrow brown box.
2. Peel back paper backing from the bottom of one end of a long foam strip and carefully align that end (adhesive side down) with outer edge of plastic end plug on one of the long beams. Carefully apply remaining portion of strip along top of long beam, peeling paper backing as you go. Repeat this step with second long foam strip on other long beam. (Fig. C-1)

7. Disengage floor trusses by lifting with foot. (Fig. III-4) The weight of the ECU-Ceiling Cavity™ envelope may cause the floor trusses to collapse/reengage. Continue to circle around ECU™ frame, lifting floor trusses until all four have been disengaged.



Fig. III-3



Fig. III-4



Fig. III-5



Fig. III-6

8. Face long side of ECU™, grasp two plastic sliders and slowly draw inward. Do not grasp outer legs below sliders as this may result in pinched fingers. (Fig. III-5) **Be careful to not force the Outer Legs together quickly, as the Upper Trusses may encounter excessive force as they contact the collapsed ECU-Ceiling Cavity™ envelope.**
9. Avoid bunching of ECU-Ceiling Cavity™ envelope by pulling envelope upward. (Figs. III-6 and III-7) Make sure ECU-Ceiling Cavity™ envelope material is not caught in or resting on folding trusses at bottom of ECU™ Frame during closing. If material is caught, carefully pry material over top of folding trusses inboard away from trusses.
10. When completely closed, wrap blue Velcro Cinch Strap around ECU™ Frame and draw tightly about midpoint. (Fig. III-8) **NOTE: Do not attach cinch strap to outer leg as it may impede movement of sliders.**

## LOWERING/COLLAPSING THE ECU-CEILING CAVITY™

1. Together with partner on opposite short sides of ECU™ Frame, grasp both Height Adjustment Release Knobs located on each side of the ECU™ Frame and pull outward simultaneously and lower until unit reaches desired height. (Fig. III-1, next page). If working alone, this procedure should be done in stages.
2. If lowering ECU-Ceiling Cavity™ to change work location, unit need only be lowered a few inches from ceiling and repositioned by lifting short end (without wheels) and rolling or sliding down hall depending on distance.
3. If ready to close and store ECU-Ceiling Cavity,™ lower unit until bottom of outer legs has reached the corner foot pads. If working alone, this procedure should be done in stages.



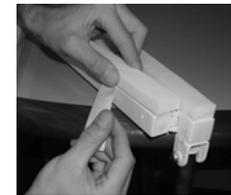
Fig. III-1



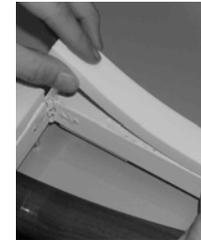
Fig. III-2

4. Detach all small Velcro straps along edges of ECU-Ceiling Cavity™ (Fig. III-2) Do not detach large Velcro straps attached to ECU™ Frame just above sliders.
5. Detach ECU-Ceiling Cavity™ envelope from Velcro on Upper Folding Frame. To remove Upper Folding Frame, disengage both sliding latches, slide to the left and lock into position. Grasp pistons of Upper Folding Frame and lift upward. Gently bring the two pistons of each short end together. **Be careful to avoid placing fingers, etc. between ends of short beams at center hinge points.**
6. Disengage each Slider one at a time by pushing in the Snap Button and then pushing down the Slider just past the Snap Button. (Figs. III-3 and III-4, next page)

3. Next, remove paper backing from bottom of one end of short foam strip and carefully align end (adhesive side down) approximately 3/16” beyond outer end of plastic end plug on one of the short beams. (Fig. C-2)
4. Carefully apply remaining portion of short foam strip along top of long beam. [You will need to trim the end of the foam with a knife or razor. When finished, the foam strip will extend beyond the frame approximately 3/16” on both ends.] Repeat this step for second short foam strip on other short beam.



(Fig. C-1)



(Fig. C-2)

5. Grasp pistons at one short end and pull open. At this point, latches on Upper Folding Frame should not be engaged. Be careful to avoid placing fingers, etc. between ends of short beams at center hinge points. (Fig. C-3, opposite page)
6. Place Upper Folding Frame horizontally over top of ECU™ Frame and insert the four hinged Pistons into round holes at top of Outer Leg Caps. (Fig. C-4)
7. Engage both slide latches by loosening each thumbscrew then sliding until latch enters receiver bracket. Lock latch by tightening thumbscrew clockwise. (Fig. C-5)



Fig. C-3



Fig. C-4



Fig. C-5

8. Beginning in one corner, attach Velcro at top edge of ECU-Ceiling Cavity containment envelope to Velcro on inside of Upper Folding Frame. (Figs. C-6, next page)
9. Place white box in blue ECU Sleeve for storage of Upper Folding Frame when not in use. (Fig. C-7, next page)

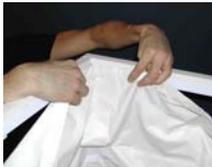


Fig. C-6



Fig. C-7

## BASIC OPERATION PROCEDURES

### A. Raise and Position ECU-Ceiling Cavity™ Using Two People

1. Position ECU-Ceiling Cavity™ directly beneath ceiling tile to be accessed.
2. With partner doing same, stand on one of two short sides of the ECU-Ceiling Cavity™ unit, and place foot on the foot pedal of floor trusses.
3. With partner, grasp Outer Legs and simultaneously lift upward until left and right Height Adjustment Ratchet Pins engage in the first set of bottom holes. (Fig. II-1)
4. From this position, lift unit until foam strips make contact with ceiling tile and slightly compress spring-loaded Upper Folding Frame. (Fig. II-2) Ensure that all four Height Adjustment Ratchet Pins are engaged in their respective holes. **Note: To ensure level engagement with ceiling, be sure to position ECU-Ceiling Cavity™ so that same number of holes on Inner Legs are visible and that Upper Folding Frame is flush against ceiling tile frame. There should be no visible gaps under foam.**
5. Attach all remaining small Velcro straps to the Outer Legs.

### B. Raise and Position ECU-Ceiling Cavity™ Using One Person

1. Position ECU-Ceiling Cavity™ directly beneath ceiling tile to be accessed.
2. Stand on one of the two short sides of the ECU-Ceiling Cavity™ unit, and place foot on the foot pedal between the folding trusses.
3. Grasp Outer Legs and lift upward until left and right Height Adjustment Ratchet Pins engage in the first set of bottom holes. (Fig. II-4)
4. Move to opposite side of unit and repeat Step 3. The unit should be level and ready for engagement with ceiling. (Fig. II-5)
5. When properly positioned, again stand on short side and grasp Outer Legs and lift upward until left and right Height Adjustment Ratchet Pins click by a maximum of approximately 6" of holes.
6. Move to opposite side of ECU-Ceiling Cavity™ unit and repeat Step 5.
7. Continue to raise ECU-Ceiling Cavity™ until foam strips engage ceiling tile and compress spring loaded Upper Folding Frame. (See Fig. II-2) Ensure that all four Height Adjustment Ratchet Pins are engaged in their respective holes. **Note: To ensure level engagement with ceiling, be sure to raise ECU-Ceiling Cavity™ so that same number of holes on Inner Legs are visible and that Upper Folding Frame is flush against ceiling tile frame. There should be no visible gaps under foam.**
8. Attach all remaining small Velcro straps to the Outer Legs.



Fig. II-1



Fig. II-2



Fig. II-3



Fig. II-4



Fig. II-5