



NUTWELL LOGISTICS

ResponStor[®] Morgue Storage Systems

User Manual (English)

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1. RESPONSTOR® STEP BY STEP GUIDE

The aim of this guide is to provide sufficient support to allow you to build your ResponStor® efficiently.

The topics included will help you become skilled and knowledgeable in the ResponStor® body storage system.

Got a question? Don't worry, we are here to help - just drop us an email on info@nutwelllogistics.com or call +1-888-884-0104.

The ResponStor® 12BSS consists of the following components. Before assembling the unit, ensure all component parts are intact.

ResponStor® TEMPORARY BODY STORE	
COMPONENT	QTY
Shell Roof Panel	1
Shell Base Panel	1
Shell Side, Non-Vented Panel	1
Shell Side, Vented Panel	1
Shell Rear Panel	1
Shell Door Panel	1
Racking Shelves	16
Racking Roof Section	4
Shelf 1 Grey/Cream Poles, Green Bag	16
Shelf 2 Red Poles, Red Bag	16
Shelf 3 Grey/Cream Poles, Black and Yellow Bag	16
Shelf 4 Grey/Cream Poles, Black Bag	16
Ducting Assembly	1
Chiller Unit	1
Body Trays (Scoops)	12
Manuals, complete with bag	1



12 Body Capacity System, other configurations and capacities available

TO BEGIN

The following assembly sequence, if followed correctly, will enable an untrained team of two people to assemble the ResponStor® system within 60 minutes. With training the operational setup times will typically decrease.

SPACE AND ENVIRONMENT REQUIREMENTS:

- The ResponStor® should be assembled on a flat, level, smooth and hard surface.
- The ResponStor® should not be assembled:
 - In direct sunlight
 - On soft ground or sand
 - Where water could freeflow or pool, around or under the body store
- The ResponStor® requires the following space once assembled:
 - Body store: 4m² / 43ft²
 - Chiller: 1.5m² / 16ft²
 - Loading Area: 4m² / 43ft²
- The loading area must be surveyed to meet user health and safety requirements.
- The body store should be located within distance of a suitable power source, do not use an extension cord.
- Before assembly, decide upon which side the ducting will be located. Right and left sides are interchangeable but cannot be changed post-assembly.

SPECIFICATIONS	
Dimensions	200 x 180 x 180 cm (6'6 x 5'11 x 5'11 ft)
Dimensions of the chiller (including trolley)	109 x 73 x 107 cm (3'6 x 2'5 x 3'5 ft)
Weight	From 660 lbs
Supply voltage	115V or 240V
Operating temperature	Between 32°F/0°C and 41°F/5°C
Materials	Aluminium, PVC, Polyethylene

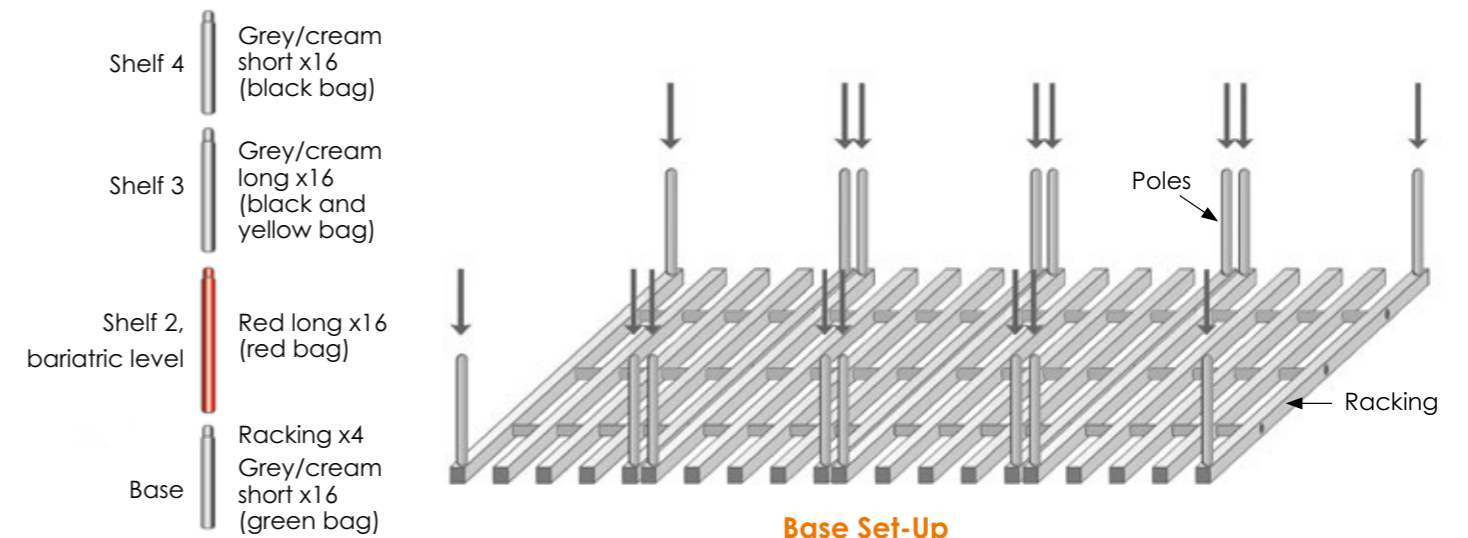
IF USING THE BOX STORAGE:

- Attached to the tallest wooden box, you will find a blue unclipping tool.
- Unclip black clips using the blue unclipping tool.

SET-UP:

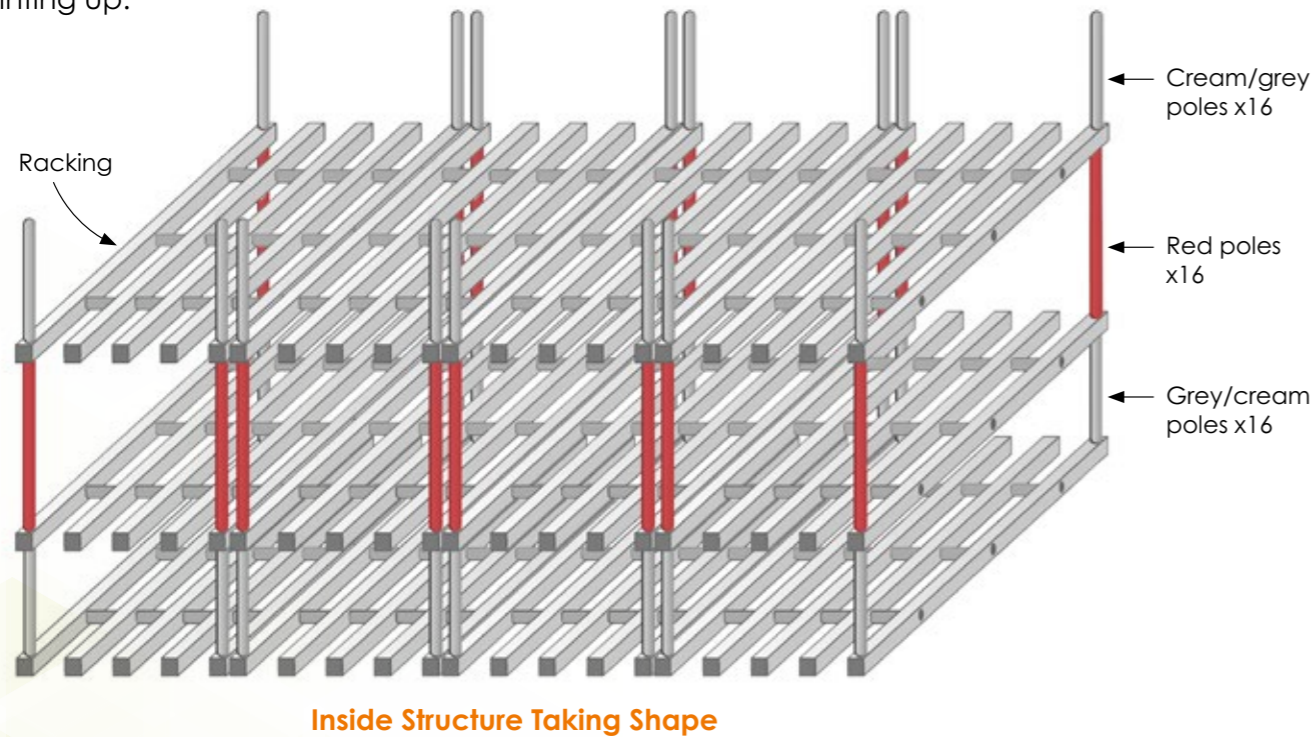
- Lay out the black bag, which holds the base and roof.
- Place the shell base panel on the floor, with the word 'base' facing up.
- Horizontally place four racking pieces on the base panel. This will make up the base of the unit.
- Take the 16 grey or cream coloured poles (green bag) and insert the shorter end into the holes of the bottom base racking, with the long insert pointing up.

Poles required:



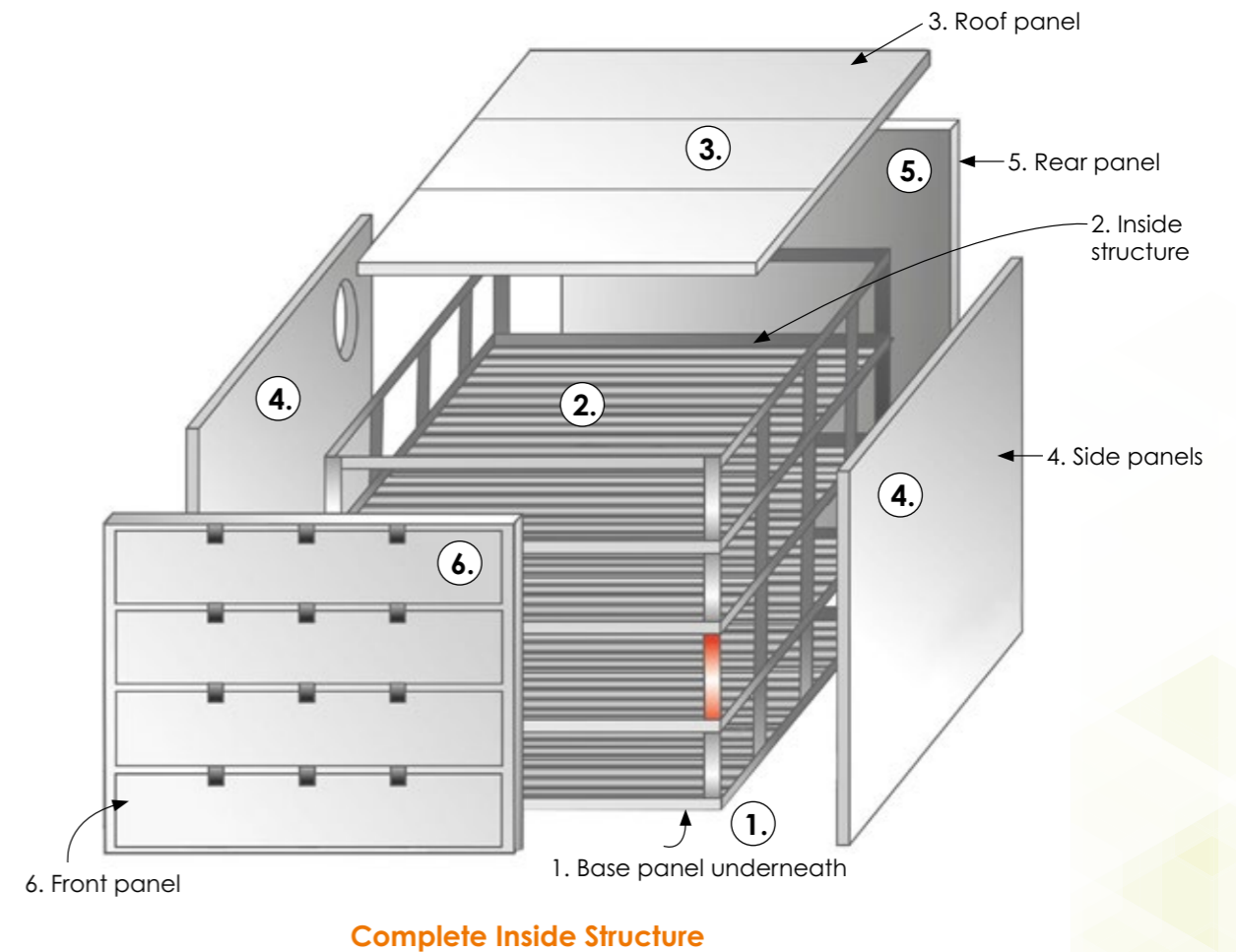
Note: Remember to place on top of base panel

5. Place four pieces of racking on top of the short grey poles. When inserting racking, ensure it is level.
6. Insert 16 red poles (red bag) into the grey/cream coloured poles, with the long insert pointing up.
7. Place four pieces of racking on top of red poles to make the third row.
8. On the third level, insert the 16 grey/cream poles (black and yellow bag), with the long insert pointing up.



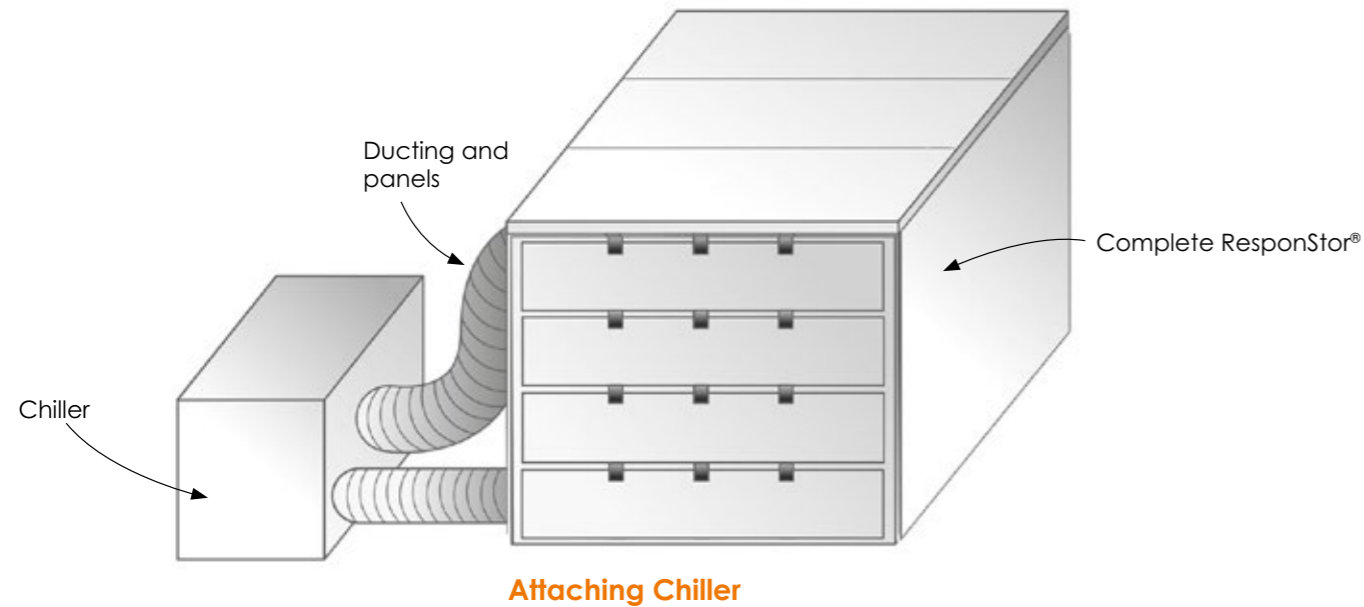
9. Place four pieces of racking on top of grey/cream poles to make the fourth row.
10. On the fourth level, insert the grey/cream coloured poles (black bag), with the long insert pointing down and the short insert pointing up.
11. The four rectangular pieces, with no racking make up the roof structure of the ResponStor®. Then place the roof panel piece on top of the unit, with the wording facing down, to the inside. You may require a ladder to place these on top.
12. Locate the two side panels and zip each one to the roof, with the wording facing in. Ensure that the side panel with the vent holes is on the side where the refrigeration unit will be positioned.
13. Locate the rear panel and zip to the roof, with the wording facing in.
14. Locate the front panel and zip to the roof, with the wording facing in.
15. On the front panel, the doors should be aligned horizontally, with a handle on the left and right side. The largest row should be the second from the bottom, in the same section as the red poles.

16. Zip the side panels to the front and rear panels, ensuring that zipper ends and inner panel ends are tucked in.
17. When zipping the panels together, you may have to partially unzip the roof to relieve pressure, in order to zip up sides, rear and front with ease.



18. Zip the base panel to the side, front and rear panels ensuring that zipper ends and inner panel ends are tucked in.
19. In order to zip up the bottom with ease, partially unzip sides and ends to relieve pressure.

20. Attach the ducting panel to the chiller with the long ducting on the top.



21. Push in twist lock and turn clockwise 90°.

22. Once switched on the chiller has a short start-up time before working.

Referring to the chiller user manual the following chiller settings can be modified:

- a. Temperature
- b. Fan run time
- c. Alert status.

23. Users should note that the chiller has an on and off button.

24. Set the temperature to 2°C(36.5°F).

25. Locate the body trays and insert into the ResponStor® unit. Three regular trays, or two bariatric ones will fit in each row.

26. Allow 30 minutes for the body store temperature to reduce to its operating temperature. Please note that the chilling time will be affected by humidity, ambient temperature and decedent heat loading.

27. The ResponStor® is now ready to use.



WARNINGS:

1. Do not use an extension cord.
2. Disconnect power before working on chiller.
3. Ensure casters on chiller trolley are locked before opening and when in use.

3. RESPONSTOR® TROLLEY SYSTEM

- A. Here you will find background information, component listings and assembly instructions for the ResponStor® Trolley System.
- B. This is not a controlled document.

BACKGROUND

1. The ResponStor® Trolley System has been developed to ease transportation, storage and deployment of the benign environment ResponStor® 12BSS temporary body storage system.
2. The ResponStor® Trolley System creates two trolleys to store and transport the standard 12BSS temporary body storage system. The trolley system does not include the refrigeration unit.
3. The ResponStor® Trolley System allows the body store to be moved easily on standard flooring, and also be deployed using a van with a tail lift or ramp.
4. When the ResponStor® has been deployed, the trolley components can be stored on top of the body store using the pole bags.

RACKING AND POLES TROLLEY - COMPONENTS

1. Trolley One stores and deploys the racking and poles.
2. Trolley One is comprised of the following components:
 - 2.1. Two non-locking castor
 - 2.2. Two lockable castors
 - 2.3. Four long, straight aluminium poles

See setup diagram
on page 12

BODY TRAYS, PANELS AND DUCTING TROLLEY - COMPONENTS

1. Trolley Two stores and deploys the body trays, panel and ducting.
2. Trolley Two is comprised of the following components:
 - 2.1. Two non-locking castors
 - 2.2. Two lockable castors
 - 2.3. Four aluminium poles, with tapered ends
 - 2.4. Two black frames

TROLLEY ONE – ASSEMBLY

1. No tools are required.
2. Take one body store shelf section and insert the castors in to each pole hole. The lockable castors should both be on the same end. Inserting two castors that are diagonally across from each other will make this easier.
3. Lay this on the ground and place the remaining fifteen shelf sections on top followed by the four roof sections.
4. Line up all of the holes and insert the aluminium tubes. Make sure to insert the tubes all the way down to meet the castors.
5. Put the pole bags inside the roof sections.

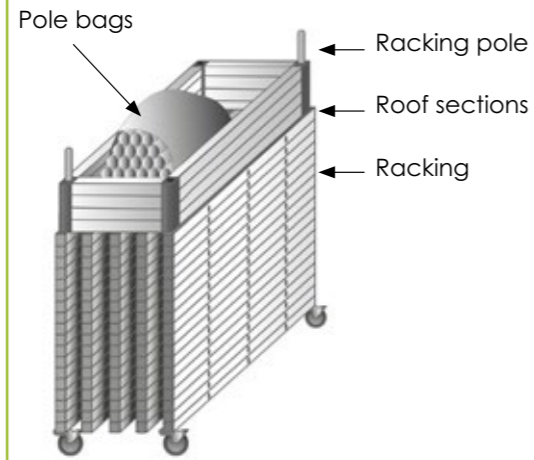
TROLLEY TWO – ASSEMBLY

1. No tools are required.
2. Take one frame and insert the castors in to each pole hole. The lockable castors should both be on the same end. Ensure that the black frame is level when inserting the castors. Inserting two castors that are diagonally across from each other will make this easier.
3. Insert all four caster poles, in the the shorter ends of the aluminum poles. The longer ends of the aluminum poles will be pointing up. Place the second black frame over the poles to form the top of the trolley.
4. Lay one body tray in the bottom of the trolley making sure that the body tray handles are inside the tray and not hanging outside of it or touching the ground.
5. Place the remaining trays on top of the first tray and again make sure handles do not touch the ground.
6. Place the panel(s) on top of the trays and the ducting on top of the panels.

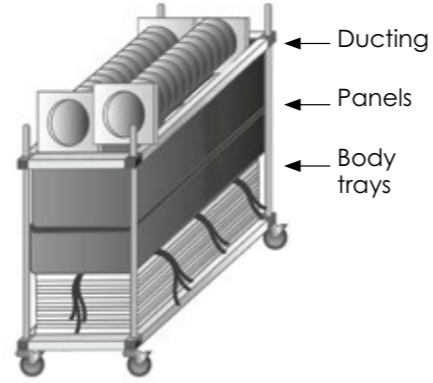
**Chiller trolley
(ready assembled)**



Racking and pole trolley

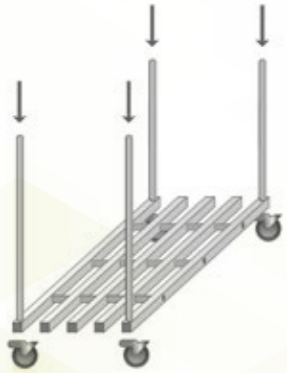


Body trays, panels and ducting trolley

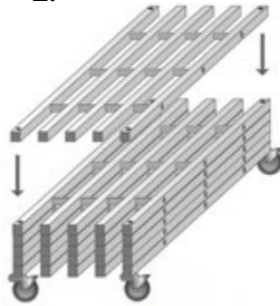


Assembling the racking and pole trolley

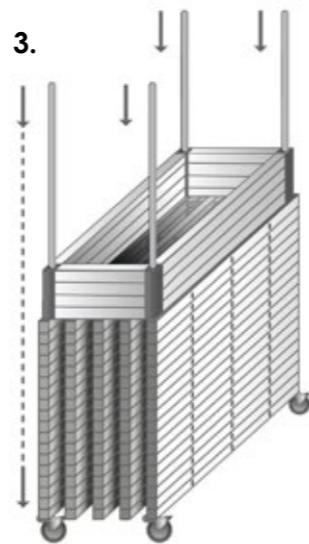
1. Assemble base first



2.

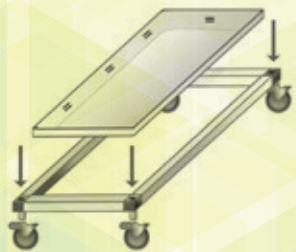


3.

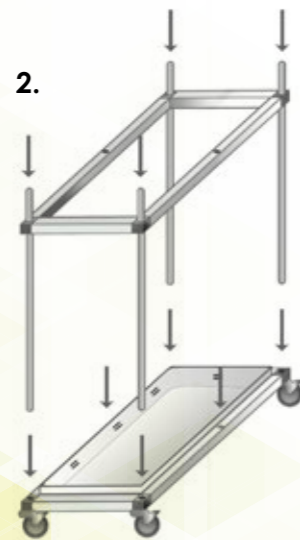


Assembling the body trays, panels and ducting trolley

1. Assemble trolley base first



2.



3.



4. RESPONSTOR® HIGH INSULATION SHELL (HIS)

HIGH INSULATION BASE (HIB) ASSEMBLY INSTRUCTIONS

The HIB is comprised of:

- 4 panels – single body store.
- 8 panels – two body stores joined together.

1. Place the panels on the floor and arrange them side-by-side and in a square where the body store will be assembled.
2. Each panel has a sprung handle that should face upwards. The handles are located on the front and back of each panel, across from each other (see photo).



HIGH INSULATION SHELL (HIS) ASSEMBLY INSTRUCTIONS

The HIS is comprised of:

- 1 one-piece body store shell.
- 2 ducting covers, the shorter one is for the bottom duct.
- 1 chiller cover.

SINGLE BODY STORE:

The following instructions assume that the body store has been assembled on a HIB.

1. If connected, disconnect the chiller from the body store ducting.
2. Locate the HIS shell that when laid-out flat will resemble a cross, with the central area being the section that covers the roof of the body store.
3. Put the shell on the body store and rotate so that the HIS door is aligned with the door, and also the ducting holes are aligned with the vent holes.



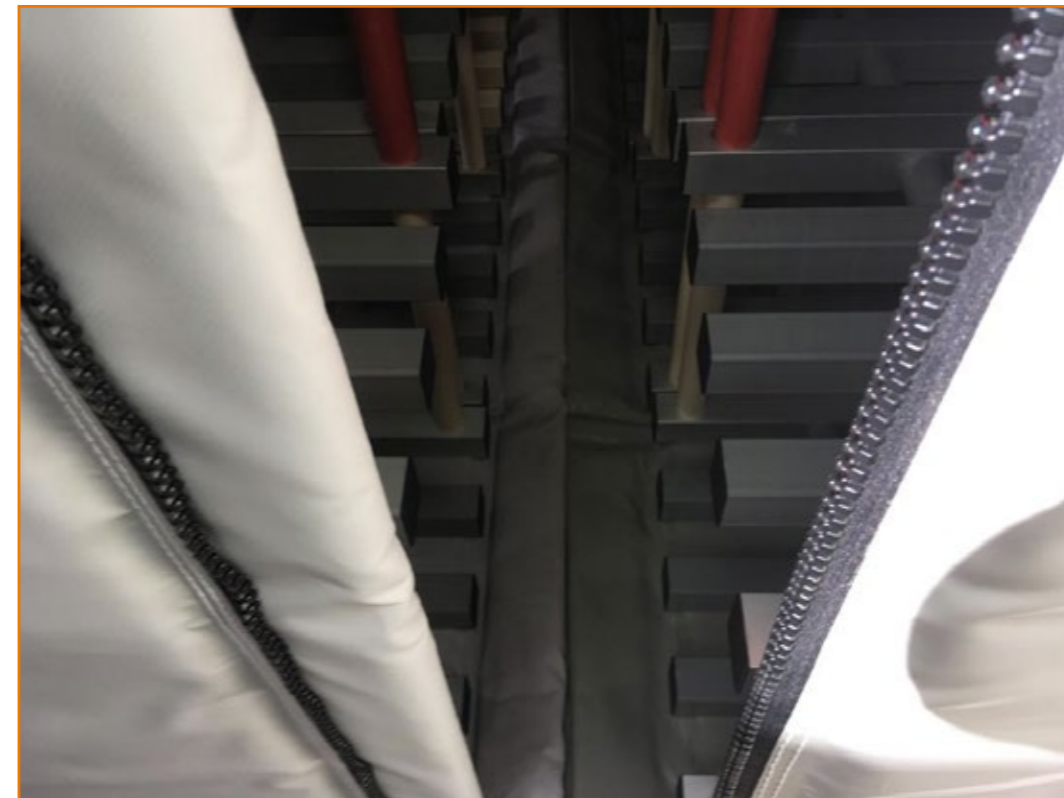
4. Join all the sides together by securing the Velcro®, making sure all sides are properly aligned.
5. Attach the ducting on to the body store, securing with the quarter-turn fasteners.
6. On the opposite end of the ducting, take the square panel off, and feed the HIS ducting cover on to the ducting.
7. Secure the HIS vent cover, and Velcro® it on to the body store.
8. Cover the chiller with HIS chiller cover, Velcro®-ing it on. Do not cover the fans (see photo below).



9. Attach the ducting to the chiller, securing it with quarter-turn fasteners.
10. The system is now ready to be switched on.

ZIPPER COUPLER

1. The zipper coupler is used to connect two or more body stores together.
2. Place the two base panels of the body stores on the ground, or on the High Insulation Base. Connect the two base panels together with the zipper couplers.
3. Assemble the body store racking on the base panels, as per regular set-up instructions. Note that there will be a gap between the racking and joining strip.



4. Join the two roof panels together with the joining strip, this is easiest to assemble on the ground.
5. Lift on to the roofs of the two body stores.
6. Join the two rear panels together with the zipper coupler.

7. Join the two front panels together with the zipper coupler.



8. Attach the two sides and zip all panels together as per regular set-up instructions. In order to relieve pressure, zips may need to be partially unzipped on panels, before zipping them all up tightly.
9. Attach chillers as per regular set-up instructions.



HIGH INSULATION SHELL (HIS) ASSEMBLY INSTRUCTIONS – DOUBLE BODY STORE

The following instructions assume that two body stores have been joined and assembled on two HIB sets.



1. If connected, disconnect the chiller from the body store ducting.
2. Locate the HIS shells that when laid out flat will each resemble a "T," with the central area being the section that covers the roof of the body store.
3. Lay both shells out on the ground and join the longest sides using the Velcro® joiner. Line up the fronts and bottoms, and secure Velcro® strip all the way across. When joined together the shell should resemble a large cross.

5. CLEANING INSTRUCTIONS

4. Put the shell on the body store, by fitting it on the roof first, and then rotate so that the HIS doors are aligned and also that the ducting holes are aligned.
5. Join all the sides together by securing the Velcro®, making sure all sides are properly aligned.



6. Attach the ducting on to the body store, securing with the quarter-turn fasteners.
7. On the opposite end of the ducting, take the square panel off, and feed the HIS ducting cover on to the ducting.
8. Cover the chiller with HIS chiller cover, Velcro®-ing it on. Do not cover the fans.
9. Attach the ducting to the body store and rotate the eight quarter-turn fasteners on each body store to lock the ducting in place.
10. The systems are now ready to be switched on.

1. Ensure bodies are placed in a body bag prior to putting the deceased into the ResponStor®.
2. Wear appropriate personal protective equipment (PPE) for cleaning of the ResponStor®.
3. All interior surfaces are to be cleaned and disinfected using a non-chlorine based disinfectant approved by the user's respective hospital/organization policies or regulations such as those promulgated by OSHA every two to three weeks and before system storage. The ResponStor® is very heavy duty and works very well with any sporicidal cleaner as long as there is no chlorine in it.
4. A defogger should be used with the chiller running so that the disinfectant gets into the ducting. Use every 30 days or as required. The use of aerosol defoggers with chlorine should be avoided and will void the product warranty. We recommend SaniGuard.
5. A defogger can be utilized when the ResponStor® is occupied, or unoccupied. Ensure that bodies are in body bags prior to defogging.
6. Prior to dismantling, it is recommended that the ResponStor® is thoroughly cleaned with a sporicidal cleaner.

6. LIFTING PROCEDURES

MANUAL LIFTING (NO MECHANICAL LIFT):

1. The deceased should always be lifted on to the body tray with a minimum of four people, depending on the size of the patient and the size and strength of the health care providers.
2. Ensure that the health care providers move the deceased from autopsy table, bed, etc, on to the tray, ensuring correct body positioning including:
 - 2.1. Keep your head and neck in proper alignment with your spine.
 - 2.2. Maintain the natural curve of your spine; do not bend at your waist.
 - 2.3. Avoid twisting your body when carrying the tray.
 - 2.4. Always keep the body tray close to your body.
 - 2.5. Keep your feet shoulder-width apart to maintain your balance.
 - 2.6. Use the muscles in your legs to lift and/or pull.
 - 2.7. Two people move the patient on to the body tray, while the other two people hold the body tray level with the bed.
3. Depending on the size of the deceased, two to four health care providers can move the tray to the ResponStor® unit.
4. Ensure middle two rows are filled first. Followed by the bottom and then the top rows.

USING A MECHANICAL LIFT:

1. Lift body tray on to shelves according to mechanical lift instructions.

Please note that these lifting procedures are to act as a guide, and are not to supersede the safe lift procedures set out by your hospital or organization.

7. RESPONSTOR® WARRANTY

ResponStor® provides a limited, one (1) year standard manufacturer's warranty against manufacturing defects.

ResponStor® warrants the product to be free from defects in workmanship and materials, under normal use and conditions, for a period of three hundred and sixty-five (365) calendar days from the date of delivery or purchase of the product, whichever is later.

INCLUDING:

- The warranty applies to the panels, racking, poles, trolley system, box system and body trays as well as the refrigeration unit.

WARRANTY LIMITATIONS:

The following shall expressly void the warranty, in full:

- Any condition resulting from use other than what the product was intended;
- Modifying, altering, disassembling or otherwise tampering with the product will void the warranty;
- Cleaning the ResponStor® with any type of chlorine-based product;
- Damages incurred during transportation, storage, and unloading of the product except where manufacturer has expressly assumed liability for the same pursuant to the freight terms of the applicable purchase order;
- Damages resulting from misuse, abuse, negligence, or accidents, except where attributable solely to manufacturer; and
- Damages incurred during assembly or maintenance where conducted by a third party and not manufacturer.


The manufacturer agrees, during the warranty period, to repair any defect in material or workmanship, or to replace the unit, without charge, should it be necessary in manufacturer's exclusive discretion. Such repair or replacement is subject to verification of the defect or malfunction and proof of purchase as confirmed by showing the original dated purchase order.


Where a claim pursuant to this warranty is declined by manufacturer, inspection of the product shall be subject to a \$450 USD service fee, plus actual shipping and handling costs. Should a claim be accepted, this service fee shall be waived together with related return shipping and handling costs.


GET IN TOUCH

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