SHOTTON PARMED

The AirCool

INSTRUCTION MANUAL

System Overview

The AirCool body storage system provides refrigerated body storage capacity to care for up to 12 deceased.

The system is flexible and can be adapted to allow for varying numbers of deceased. Please contact us for further information.

Components of the AirCool Portable Body Storage System

- 1 air conditioner unit (ACU), 240V
- 2 insulated ducts (1 x 2m, 1 x 1.3 m)
- Collapsible rack (3 required for 12 body system)
- Roller tracks (2 required per racking level, ie 24 required for 12 body system)
- Insulation cover set – supplied in a bag
- Body board – 1 per body

Setting up the System

The Insulation is designed to be a 2 person lift. Total weight 35kg

The total weight of each rack is 39kg

Safety Warning

Please follow all instructions carefully.

All racking supplied is NOT designed to be moved with deceased on. Care must be taken by users when erecting the racking as it is heavy. Racking should be set up by at least 2 persons. Maximum weight per level 100kg

The ACU runs at approximately 60dB

Assembling the Rack

Step 1

Hold racking upright, apply castor brakes & unclip the straps.

Step 2

Release the brakes from one side and fully extend the opposite side.

Step 3

Add the two long bars to the top of the rack, front and back.

Step 4

Add the rollers to the rack. Two rollers per row.

The front of the rack has a double bar.

The stopper end should be at the rear of the rack.

The rollers will secure onto the racking in three places, you may need to tap the roller into position on the bars.

Repeat steps 1 - 4 for each rack that you need to assemble.

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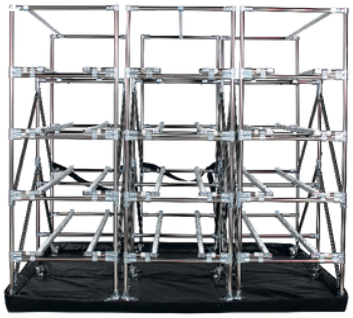
Assembling the Storage Unit



Place the base cover on the floor (inner edge Velcro tabs to the front) and roll the racking into position. Leave 50cm around the unit to aid air flow.

Place the roof insulation into position (inner edge Velcro tabs to the front). Ensure the edges are pulled over the racking.

Attach the side insulation panels (Velcro loops to the front) – Velcro to top and base.

Ensure that all Velcro contacts are completely sealed.

Before fitting the side and rear panels you need to decide where the ACU will be placed so that you can pick the correct side panel with the holes for the ducting. It can be placed on the rear or either side. The side panels are interchangeable to allow ACU fitment either side.

Secure the side panels to the frame at the front using the Velcro straps.

Attach the two Velcro door pillars to the racks. Ensure you get it the right way up.

Attach the rear panel and ensure all Velcro is sealed.

Attach the door panels using Velcro.

Attach both insulated ducts using the fitted quick release clips.

One end attaches to the ACU, the other to the insulation cover.
The shorter duct goes on the bottom and the long to the top.

Dismantling the System

The process to dismantle the unit is the reverse of the set up instructions described in the previous pages.

1. Turn off the ACU and disconnect from the power
2. Unclip the ducting from the ACU and insulation
3. Remove the door panels & return to storage bag
4. Release the Velcro straps at the front of each side panel
5. Remove the rear and side panels and return to the storage bag
6. Remove the door pillars
7. Remove the body boards
8. Remove the roof panel and return to the storage bag
9. Remove the rollers and the top bars
10. Holding vertically, release the brake from one end and push the racking back together to collapse – secure with the strap
11. Fold up the floor panel and return to the storage bag

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Using the AirCool System

Including Cleaning and Decontamination

Important Note

- All cleaning and maintenance operations of the chiller unit (ACU) must only be performed when it's switched off and disconnected from the power supply.
- The ACU must be kept in an upright position at all times.
- The manual for your ACU will have been delivered with your AirCool System. This is for specialist engineer use only as the ACU is pre-set by Flexmort to achieve your specific temperature requirements.

Turning the ACU On/Off

Once the system is fully assembled, connect the mains power plug of the ACU to a suitable socket. Directly to a wall socket is recommended, however, a single, short extension cable of suitable load rating is acceptable ensuring that no other appliances are also connected to the same extension and all cable is fully extended. For longer term use, the unit may be connected directly to a mains supply with a suitable Miniature Circuit Breaker (MCB) by an electrician.

Turn On

- Switch on at the wall socket.
- After a few seconds the ACU's LED display will alternately display 'OFF' and the current system temperature.
- Turn the ACU on by pressing and holding the 'on/off' button on the keypad for up to 10 seconds. The unit may not immediately appear to start up. This is due to soft start programming to protect internal components.
- The current system temperature is displayed and the snowflake symbol LED is illuminated to confirm active cooling.

Using the AirCool System

Turn Off

Important: never turn the ACU off just by using the wall socket; always use the ACU's keypad first.

- Turn the system off by pressing and holding the 'on/off' button on the ACU's keypad for up to 10 seconds.
- The LED display will alternately display 'OFF' and the current system temperature.
- Leave the mains socket switched 'on' for approximately 30 - 60 minutes. The ACU has an internal heating element to manage excess condensation which is operational even if the chiller is switched off at the keypad. Avoid moving the ACU during this period.
- Turn off at the wall socket.
- The ACU can now be moved if required. Note that any water drips from the base of the unit are purely remaining excess condensation and is normal.

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Daily Checks

- When the equipment is being used, the ACU should be checked to ensure it is running at the correct temperature. This is done by looking at the ACU's LED screen. In normal operation the temperature will vary approximately 1.5°C to 2°C +/- setpoint.
- The mortuary insulation should be checked to ensure there's no tears or gaps.
- Ensure all side grilles around the ACU are clear of dust and debris and not obstructed with air flow available to all the grilles. We recommend a minimum of 50cm of space around the unit for optimal air flow.
- Ensure the top fan grille and air gap around the base of the ACU are free of obstruction.

- If required, gently wipe or brush the side grilles clean. Do not spray cleaning liquids directly on to any part of the unit.
- The body boards should be cleaned/ decontaminated after each use using plasticsafe disinfectant such as *BioGuard* (common in mortuaries).

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Monthly Checks

It's recommended that the insulation and racking should be cleaned/ decontaminated at least monthly using plastic friendly disinfectant such as BioGuard. Body fluid spills should be cleaned immediately following your company procedure.

Quarterly Checks

Racking should be checked to ensure that it is structurally sound and that brakes/ screws are properly tightened.

Annual Checks – Refrigeration Specialist Required

The refrigeration system should have a preventative maintenance visit. This should be carried out by a qualified person. An electrical safety check (PAT inspection) may also be required as per your internal procedures.

NB. Maintenance access inside the unit is gained by removing the handle assembly and the 2 screws behind the top fan grille and carefully pulling the cover panel rearwards and away from the main body.

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Troubleshooting

There is condensation dripping from the bottom of the ACU and/or the ACU displayed temperature is not reaching setpoint:

• The ACU contains a condensation management system which could become overwhelmed in extreme circumstances. To mitigate this, ensure that there is sufficient air gap around the ACU.

• Check that there are no kinks in the two grey ducts connecting the ACU to the mortuary and they are connected securely with no gaps.

• Thoroughly check there are no gaps in the mortuary insulation, paying special attention to the doors.

• Ensure sufficient room ventilation by opening doors and windows. The use of an electric fan can help air circulation.

The compressor operates uninterruptedly or for long periods

Check for ice build-up on the evaporator:

1. Remove the top grey ducting tube from the front of the ACU and ensure that the evaporator fins are clean and that there is no build-up of ice. Safety note: do not touch the evaporator, use a soft brush only, as the fins are sharp.

2. If the evaporator is clogged with ice, after the manual cleaning tasks have been completed and the unit is powered back 'on', carry out a manual defrost cycle by holding down the 'UP' button of the control panel for more than 10 seconds.

3. Repeat this procedure until the evaporator is completely clean. Check after 12 hours.

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Disposal of the System

Once the ACU has come to the end of it's useful life the gas remaining in the chiller unit must be recovered by a qualified technician. Once this has been completed the unit can be dismantled and recycled.

The insulation, racking and boards, once completely decontaminated, can be dismantled and recycled where possible.

Servicing

Parmed offers fully comprehensive service agreements to maintain equipment and products.

Speak to us today about our servicing agreements by contacting service@parmed.com.au .