

Safety, Operations, and Maintenance Manual

HEPACART® or DUSTBUGGY® Mobile Containment Cart – US/Canada

The HEPACART® and DUSTBUGGY® family of products are class leading mobile containment carts that provide dust containment and environmental protection. The heavy-duty aluminum frame and retractable enclosure system in conjunction with an advanced HEPA filtration system contain contaminants such as dust, mold spores, and pollen.

HEPACART® US Classic Models	HEPACART® US AutoLift Models	DUSTBUGGY® US Models
HC55C	HC55A	DB55C, DB55A
HC74C	HC74A	DB7XC, DB74A
HC7XC	HC7XA	DB7XC, DB7XA

*Safety information, sequence of operations, and maintenance information contained in this manual are applicable for legacy models -L, -M, and -H.

READ AND SAVE THESE INSTRUCTIONS

SAFETY INSTRUCTIONS



WARNING! Electric shock hazard, rotating fan, and breathing hazard. Unit must be grounded. To reduce risk of electric shock do not expose to water or rain. Unplug unit prior to service or cleaning.

- Do not exceed maximum receptacle load as labeled.
- Do not use electrical outlet or power tools that are wet or have been exposed to water.
- Inspect the power cord prior to use. If cord or reel is damaged, do not use. Always grasp the plug (not the cord) to unplug.
- Only plug the power cord into a matching grounded outlet. Do Not remove third prong. Do not use with adapter. Do not use extension cord.
- Do not use power cord to maneuver the cart.

Use the equipment in conjunction with on-site safety protocols and regulations. Always inspect work area for hazards and be aware of your surroundings.

- Confirm work site regulations before use
- Always use swivel locks when moving the unit with only one person.
- Notify bystanders when using unit in crowded areas.

Keep away from open flame appliances such as gas or propane water heaters, furnaces, etc. Pressure differences could blow out flame or backdraft combustion products.

- Do not operate unit or power tools inside of the unit in the presence of flammable liquids, gasses, or other flammable environments.
- Keep retractable enclosure away from open flame.

Prior to use always inspect containment cart for damage. Inspect wheels, brakes, swivels, and casters. Stay alert and use caution, avoid unnecessary risks at all times.

- Do not use while under the influence of drugs, alcohol, or medication.
- Wear appropriate attire for work being performed in accordance with company and facility protocols.
- Do not wear loose clothing, jewelry, or other items while working inside of the mobile containment cart.
- Wear proper personal protection equipment as required.
- Always lock all (4) four casters before entering the cart.
- Ensure retractable enclosure is fully raised to the ceiling and locked before entering the cart.
- Do not stand on negative air machine assembly.

USAGE AND CARE

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning the use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

- Always follow provided operation manual and instructions.
- Inspect and change the pre-filter at regular intervals (weekly, monthly, quarterly), depending on usage and application. More frequent pre-filter changes extend the life of the HEPA filter.

HEPACART recommends the use of PureGreen24 citric acid based cleaner and disinfectant for everyday cleaning of all surfaces. See below for additional cleaning options for more set-in stains.

Window Care: Only use polycarbonate compatible cleaning agents to clean the windows on the HEPACART® or DUSTBUGGY®.

Retractable Enclosure Care: Retractable enclosure is made using healthcare fabrics offering “clean-in-place” convenience. Use neutral soap suds and lukewarm water. Rinse and allow fabric to dry. For hard to clean spots household/vinyl cleansers and/or a soft bristle brush can be used. **DO NOT USE HARSH CLENSERS OR SOLVENTS.**

Hard Sided Enclosure Care: Do not use abrasive or highly alkaline products, scrape walls with squeegees, razor blades, or other sharp instruments. Do not clean while booth temperature is elevated or when a high percentage of humidity exists.

If scratching should occur, minor abrasions can be removed or minimized by using a mild automotive polish. Examples include Johnson Paste Wax, Mirror Glaze Plastic Polish, Plexus, and Novus Plastic Polish #1 and #2. Always test the chosen product on a small area before overall use.

MAINTENANCE

For units with integral HEPA filtration, the HEPA filter has been tested and certified for one year. The HEPA filter provided with the HEPACART® is a robust, long lasting filter that has been tested and certified at the time of shipment. The HEPA filter, however, is made from a paper media that must be protected if there is chance it will be exposed to moisture.

Before Each Use: Inspect for damage to electrical cord, casters and wheels, retractable enclosure, and negative air machine. Clean up any debris left by the previous job and check negative air machine for a clean pre-filter.

Short term intervals: Inspect pre-filter for accumulated dust and debris that could restrict airflow through the filter. If filter is damaged or visibly dirty, change the pre-filter.

Long term intervals: Whenever damage is suspected or at a decrease in airflow, the HEPA filter should be re-certified. Testing is recommended annually, at a minimum.

When using in a healthcare application or for remediation: To mitigate the risk of cross-contamination, replace both of the filters and clean the unit thoroughly. Use a damp wipe and vacuum as required. Allow unit to dry before installing new filters.

CHANGING THE FILTERS

Pre-filter: Change the pre-filter whenever it shows accumulation of dust and debris. Always change the pre-filter between jobs where dangerous contaminants were present.

1. Unplug the power cord from line voltage power source.
2. Remove the (2) two screws from the pre-filter cover on the top of the negative air machine housing.
3. Remove the pre-filter cover.
4. Grasp the pre-filter and pull up to remove.
5. Insert new pre-filter from the top. (minimum MERV 8 pre-filter)
6. Reposition the cover and re-install (2) screws.

HEPA Filter: Re-certify HEPA filter on an annual basis and replace if shows signs of damage or reduced airflow. Always change the HEPA filter between jobs where potentially dangerous contaminants are present.

1. Unplug the power cord from line voltage power source.
2. Remove the (2) two screws from the pre-filter cover on the top of the negative air machine housing and remove the pre-filter cover.
3. Release (4) four clasps (2 on each side) of the fan housing.
4. Remove fan housing.
5. Remove the dirty HEPA filter from the filter flange.
6. Carefully install clean HEPA filter. Note direction of airflow and ensure filter media has upstream and downstream gaskets.
7. Replace fan housing.
8. Reattach the (4) four clasps (2 on each side) to secure housing to cart.
9. Reposition the pre-filter cover and re-install (2) screws.
10. Test for proper operation and have the unit re-certified.
 - a. Contact HEPACART® customer service representative for approved certifiers in your area.

TROUBLESHOOTING

FAULT	CAUSE	SOLUTION
Unit does not operate	GFCI Tripped (red light on receptacle)	Firmly press "RESET" button on GFCI receptacle.
	No Power (no light on GFCI receptacle)	Make sure unit is plugged in. Check for power at outlet
		Press "12" amp breaker to reset
Low Airflow	Dirty Pre-Filter	Change Pre-Filter
	Dirty HEPA Filter	Change HEPA Filter
Lighting Does Not Work	No Power	Plug in lighting power supply. Check GFCI for fault condition
	HALO or Shelf Light Not On	Check plug on back side of control box
	Switch not turned on	Turn on switch
Curtain Billowing Inward	Excessive negative pressure	Reduce fan speed

*For problems not listed in this table reach out to your HEPACART® sales representative for assistance.

STORAGE AND TRANSPORTATION

Always use care when transporting the HEPACART® or DUSTBUGGY® mobile containment cart. If being moved by one person always engage the two swivel locks. Prior to moving containment cart through a doorway ensure extension poles have been lowered.

- When transporting on uncovered trucks take care not to expose to moisture. Additionally, be sure to strap enclosure down over top.
- Do not store outdoors.
- Use care when loading and unloading from trucks. Use of a liftgate is recommended.

CUSTOMER RECORD

The model and serial numbers of this product are located on a blue and white sticker just below the window on the end of the unit which does not have a door. Complete the warranty activation upon receiving the Warranty Activation Email. Also, note the model and serial numbers of your unit in the space provided below. Retain this book as a permanent record of your purchase.

Model Number: _____

Serial Number: _____

Date Purchased: _____

If you wish to have an electronic copy of these instructions, please contact HEPACART, Inc Infection Control Technologies at 913-789-9590 or at info@HEPACART.com. Please have your model number and serial number ready for any correspondence.

Thank you for purchasing a HEPACART® or DUSTBUGGY® Mobile Containment Cart. Using the product correctly and safely can significantly reduce dust and pathogen contamination to high-risk areas. Use of your HEPACART® or DUSTBUGGY® as prescribed by this manual will provide many years of mobile, portable dust containment.

SEQUENCE OF OPERATIONS

HEPACART® offers a Certification Training Course which can be found at www.HEPACART.com/training

All Classic Models; HEPACART® and DUSTBUGGY®

1. Position HEPACART® or DUSTBUGGY® under the ceiling tile to be removed.
2. Lock all (4) four brakes on the casters at each corner.
3. Secure the operational area when required by facility guidelines.
4. Raise the enclosure
 - a. **For 1 person:** Start with the upper section of the pole in raising the retractable enclosure. Extend both poles on one side by first using a quarter turn counter clockwise to unlock. (Figure 1) Then raise and twist clockwise to lock (about 1/3 to 2/3rds of the way up) Move to the other side and raise about 2/3rds of the way up. Move back to the other side and raise to the ceiling. Complete the other side. Make sure to compress the springs at the top of each pole to ensure a good seal. Utilize the second pole section as required to reach the ceiling height after the first section has been fully extended.

Hand tighten the poles with only moderate pressure.

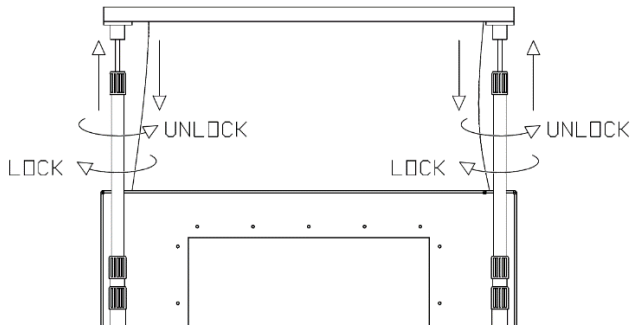


Figure 1

- b. **For 2 people:** Both workers should start with the upper pole section. Extend both poles on both sides simultaneously by first using a quarter turn counter clockwise to unlock. Raise the retractable enclosure and twist to lock. Repeat the unlock, raise, and lock sequence until enclosure is at the ceiling. Make sure to compress the springs at the top of each pole to

ensure a good seal. Utilize the second pole section as required to reach the ceiling height after the first section has been fully extended.

Hand tighten the poles with only moderate pressure.

5. Plug HEPACART® or DUSTBUGGY® into a grounded outlet. Pull enough cord from the reel to ensure cord lays flat on the floor to avoid a tripping hazard.
 - a. If using the DUSTBUGGY® with an external negative air machine connect ductwork between the export adapter and negative air machine inlet. Turn negative air machine on to desired setting.
 - b. Turn on HEPACART® negative air machine using the switch located on one end.
6. Open the door on one end by pulling on the installed latch.
7. Insert ladder into the HEPACART® or DUSTBUGGY®.
 - a. For a shelf ladder or extension ladder, use installed ladder stops on the floor and position ladder against installed ladder rest.
 - b. A 6 ft. or 8 ft. ladder can be used. A taller ladder can be used in conjunction with the Ladder Extension Module accessory. Sold separately.
8. Enter HEPACART® or DUSTBUGGY® and close the door.
9. Use HEPACART® fan control knob to set airflow as desired.
 - a. If flexible enclosure is billowing in making work difficult. Reduce fan speed.
10. Once work is complete, reinstall ceiling tile and clean the interior of the cart and workers clothing.
11. Leave the fan on and exit the containment area.
12. When ready to move to a new work area use the switch on the exterior of the containment cart to turn off the fan.
 - a. If using DUSTBUGGY® with an external negative air machine. Turn off fan and remove ductwork.
13. Lower containment enclosure using quarter turn counter clockwise lowering motion in reverse of Step 4. **Hand tighten the poles with only moderate pressure.**
14. Unplug electrical cord and retract into cord reel.
15. Unlock all (4) caster brakes. If necessary, engage the two swivel locks and move to the next work area.

Slide out Enclosure Instructions

1. Loosen the thumb screws located on the inside of each end frame. (Figure 2)
2. In the center of the cart's top-frame, gently pull the slide mechanism to the desired extension.
3. Tighten the thumbscrews.
4. Refer to Classic or AutoLift sequence of operations for normal use.
5. When finished and just prior to moving. Loosen thumbscrews, slide the extension back and tighten thumbscrews to lock into place.

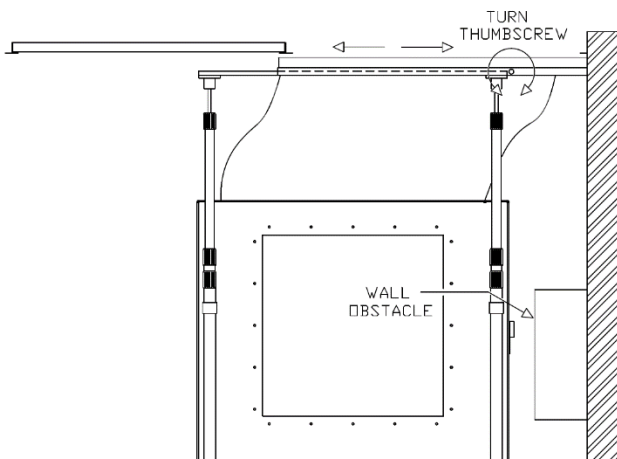


Figure 2

All AutoLift Models; HEPACART® and DUSTBUGGY®

1. Position HEPACART® or DUSTBUGGY® under the ceiling tile to be removed.
2. Lock all (4) four brakes on the casters at each corner.
3. Secure the operational area when required by facility guidelines.
4. Plug HEPACART® or DUSTBUGGY® into a grounded outlet. Pull enough cord from the reel to ensure cord lays flat on the floor to avoid a tripping hazard.
 - a. If using the DUSTBUGGY® with an external negative air machine connect ductwork between the export adapter and negative air machine inlet. Turn negative air machine on to desired setting.
5. Raising (and subsequently lowering) the enclosure via AutoLift push buttons located at the end of the unit with the negative air machine.
 - a. Locate AutoLift push buttons and push the top-half of the button to raise. Push buttons simultaneously to raise at an even pace. Adjust each side individually as required to accommodate uneven floors and ceilings. Pay close attention to top of unit during raising to monitor contact with the ceiling. Stop raising once foam has contacted to seal the containment area.
6. Open the door on one end by pulling on the installed latch.
7. Insert ladder into the HEPACART® or DUSTBUGGY®.
 - a. For a shelf ladder or extension ladder, use installed ladder stops on the floor and position ladder against installed ladder rest.
 - b. A 6 ft. or 8 ft. ladder can be used. A taller ladder can be used in conjunction with the Ladder Extension Module accessory. Sold separately.
8. Turn on HEPACART® negative air machine using the switch located on one end
9. Enter HEPACART® or DUSTBUGGY® and close the door.
10. Use HEPACART® fan control knob to set airflow as desired.
11. Once work is complete, reinstall ceiling tile and clean the interior of the cart and workers clothing.
12. Leave the fan on and exit the containment area.
13. When ready to move to a new work area use the switch on the exterior of the containment cart to turn off the fan.
 - a. If using DUSTBUGGY® with an external negative air machine. Turn off fan and remove ductwork.
14. Lower containment enclosure by pushing the bottom half of the two buttons simultaneously.
15. Unplug electrical cord and retract into cord reel.
16. Unlock all (4) caster brakes. If necessary, engage the two swivel locks and move to the next work area.

SPECIFICATIONS

All HEPACART® and DUSTBUGGY® models come standard with many safety and convenience features. While HEPACART® models come with integral negative air machine. DUSTBUGGY® models are for use with an external stand-alone negative air machine.

- Fully boxed aluminum frame and caster assembly rated for 1500lbs.
- Premium door package with lock and key, polycarbonate window, and work order/permit holder.
- 3-way electrical for control from inside or outside of the containment cart.
- LED lighting package including HALO light, shelf light, and in-use light.
- 25' retractable cord reel
- Every HEPACART negative air machine is factory tested for filter integrity and airflow and comes with a 1 year certification for HEPA filter performance.

HEPACART® US/Canada Models			
Model	HC55C, HC55A	HC74C, HC74A	HC7XC, HC7XA
Weight	350 lbs [159 kg]	375 lbs [170 kg]	400 lbs [181 kg]
Dimensions (Enclosure down)	60 x 29 x 76.5 in. [1520 x 733 x 1950 mm.]	80 x 29 x 76.5 in. [2030 x 733 x 1950 mm.]	80 x 39 x 76.5 in. [2030 x 990 x 1950 mm.]
Max Ceiling Height Options ¹	10.5 ft. [3200 mm] 12 ft. [3650 mm]		
Electrical (including receptacle power)	120v 60hz 11.8 amps		
Fan Power	160 watts		
Power Cord	25 ft. [7600 mm]		
Airflow	500 cfm [850 m ³ /hr]		
Construction	Aluminum		
Safety	Filtration unit conforms to UL Standard 507 and Certified to CSA STD 22.2 No. 113		

*Specifications are subject to change without notice

1 AutoLift configuration is only available with a 10'-6" total enclosure height.

2 Standard enclosure height is 10.5 ft. 12 ft. option must be specified at time of purchase.



DUSTBUGGY® US/Canada Models			
Model	DB55C, DB55C21A	DB74U18, DB74A	DB74UX18, DB7XA
Weight	300 lbs [136 kg]	325 lbs [147.5 kg]	350 lbs [159 kg]
Dimensions (Enclosure down)	60 x 29 x 76.5 in. [1520 x 733 x 1950 mm.]	80 x 29 x 76.5 in. [2030 x 733 x 1950 mm.]	80 x 39 x 76.5 in. [2030 x 990 x 1950 mm.]
Max Ceiling Height Options ¹	10 ft. [3000 mm] 12 ft. [3650 mm]		
Electrical (including receptacle power)	120v 60hz 10.4 amps		
Fan Power ²	N/A		
Power Cord	25 ft. [7600 mm]		
Airflow ²	N/A		
Construction	Aluminum		

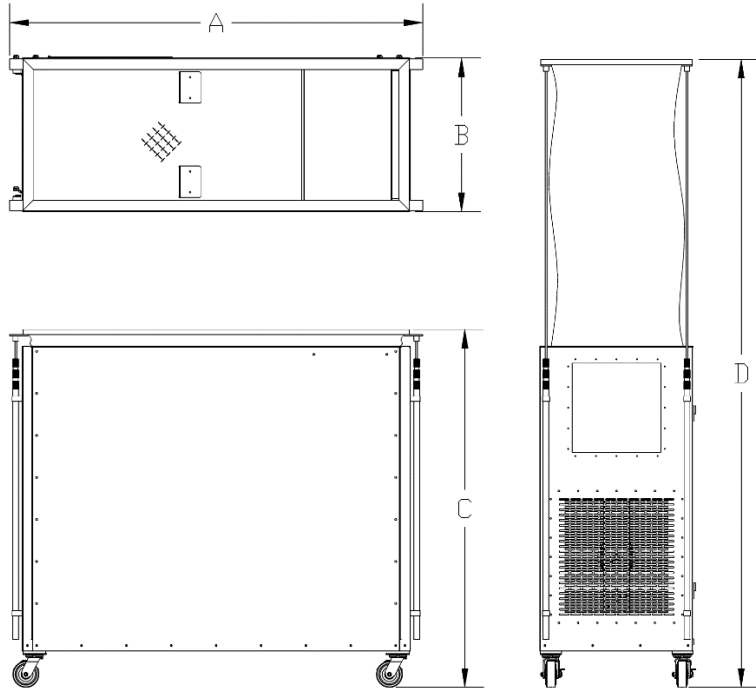
*Specifications are subject to change without notice

1 AutoLift configuration is only available with a 10' total enclosure height.

2 DUSTBUGGY® models are not equipped with an integral negative air machine.

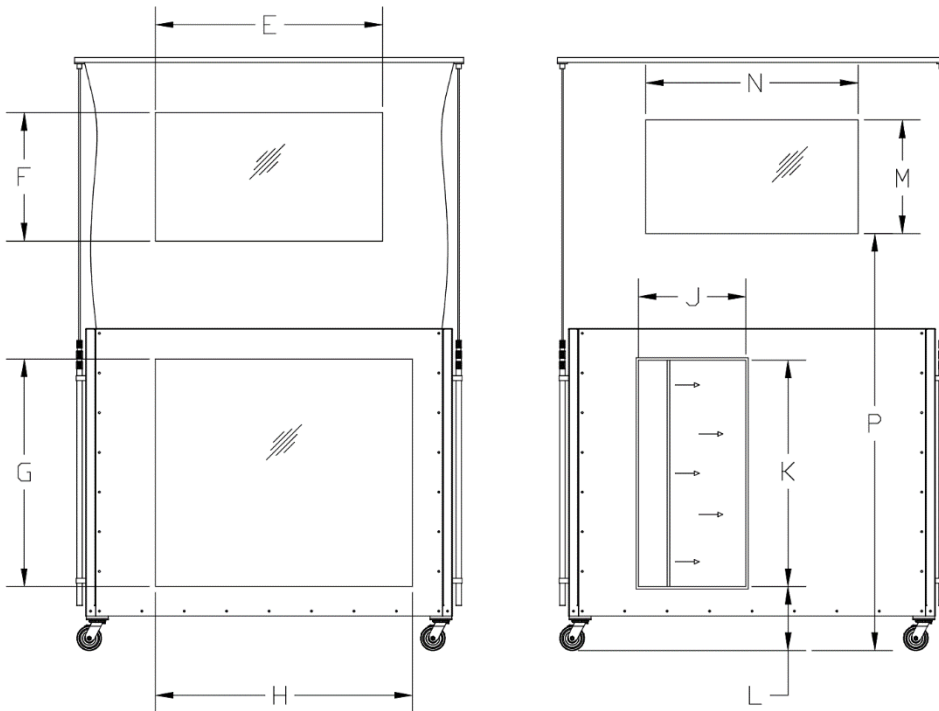
3 DUSTBUGGY® models are not equipped with an integral negative air machine.

DIMMENSIONS



HEPACART Classic Model Pictured

	55 Series	74 Series	7X Series
A	60 in [1520mm]	80 in [2030mm]	80 in [2030mm]
B	29 in [733mm]	29 in [733mm]	39 in [990mm]
C	76.5 in [1950mm]	76.5 in [1950mm]	76.5 in [1950mm]
D ³	10.5 ft. or 12 ft. [3200 mm or 3650 mm]		
E ²	34 in [860mm]	46 in [1160mm]	
F ²	26 in [660mm]		
G ²	46 in [1160mm]		
H ²	33 in [840mm]	52 in [1320mm]	
J ¹	15.75 in [400mm]	21.75 in [550mm]	
K ¹	45.75 in [1160mm]		
L	13 in [330mm]		
M ¹	20 in [508mm]		
N ¹	31 in [787mm]	42 in [1055mm]	
P	91 in [2310mm]		



HEPACART Classic Model Pictured

- 1 Dimensions are free opening for optional wall access
- 2 Dimensions show size of optional windows for vision panels.
- 3 12' Only available on Classic Carts with optional curtain accessory.

Replacement Parts	
Extension Pole (4 Pack)	EP4
Cord Reel Bracket	CRB
Cord Reel Replacement	CR
Swivel Caster	SC
Swivel Locks for Casters	SL-C
Caster Brake Pad Standard	CBP
Ceiling Frame Foam HC55	CFFHC55U
Ceiling Frame Foam HC74	CFFHC74U
Ceiling Frame Foam HC7X	CFFHC74UX
Ceiling Frame Foam Dual Access	DAFF
Enclosure Bracket	EB
GFCI Replacement Kit	GFCIRK
HEPACART® Clean Mats w/ Frame	CM
Clean Mat Refill (60 clean mats) No Frame	CMR
Door Lock and Key Set	KS
Negative Air Indicator	NAI
Pole Clamp Unibody Ver2 ¹	PCV2
Pole Retainer Socket	PRC
Rubber Pole Grips	RPG
Slide-Out Encloser	SOCO
Variable fan Speed Control	VFSC
Replacement Classic Halo Power Supply	RHPS-C
Replacement AutoLift Halo Power Supply	RHPS-A
NAM Latch and Clasp (4 Pack)	NAMFL
Replacement Enclosure Parts	
Upper Enclosure Frame HC55	UCF55
Upper Enclosure Frame HC74	UCF74
Enclosure Clamping Material HC55	ECMHC55U
Enclosure Clamping Material HC74	ECMHC74U
Enclosure Clamping Material HC7X	ECMHC74UX
10ft White HC55	PTC157x64-W18
10ft White HC74	PTC195x64-W18
10ft White HC7X	PTC215x64-W18

Refurbishment and Upgrade Kits	
HC55C Top Frame Replacement Kit	TFRK55C
HC74C Top Frame Replacement Kit	TFRK74C
HC7XC Top Frame Replacement Kit	TFRK7XC
6" NAM DUSTBUGGY® Upgrade	N6
Replacement Filters	
HEPACART® Pre-Filters	PF24241
HEPACART® 6" HEPA Filter	HF24246

*Contact your HEPACART® sales representative with any questions regarding replacement parts or upgrade kits.

1 Version 2 pole clamps come as standard equipment on all new HEPACARTs

Safety, Operations, and Maintenance Manual

Model # HCNAM - HEPACART® NEGATIVE AIR MACHINE

HEPACART® models HC55, HC74, and HC7X come equipped with an integral negative air machine. This advanced HEPA filtration system is designed to trap contaminants such as dust, mold spores, and pollen.

READ AND SAVE THESE INSTRUCTIONS

SAFETY INSTRUCTIONS

WARNING

WARNING! Electric shock hazard, rotating fan, and breathing hazard. Unit must be grounded. To reduce risk of electric shock do not expose to water or rain. Unplug unit prior to service or cleaning.

- Do not exceed maximum receptacle load as labeled.
- Do not use electrical outlet or power tools that are wet or have been exposed to water.
- Inspect the power cord prior to use. If cord or reel is damaged, do not use. Always grasp the plug (not the cord) to unplug.
- Only plug the power cord into a matching grounded outlet. Do Not remove third prong. Do not use with adapter. Do not use extension cord.
- Do not use power cord to maneuver.
- Do not step on the filter box.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning the use of the appliance by a person responsible for their safety.

OPERATION

In its installed condition the HCNAM negative air machine can be switched on-off from either inside or outside of the HEPACART®. Fan speed control is only available from the inside.

See Figure 1 and Figure 2 for component and control locations while installed in HEPACART®.

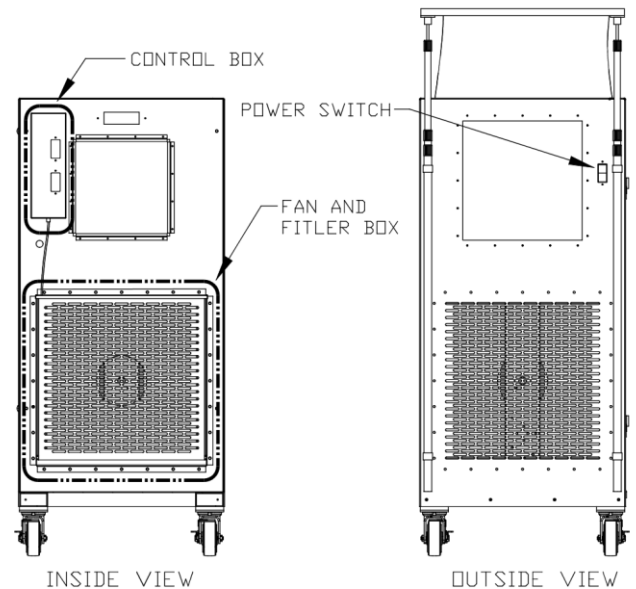


Figure 3

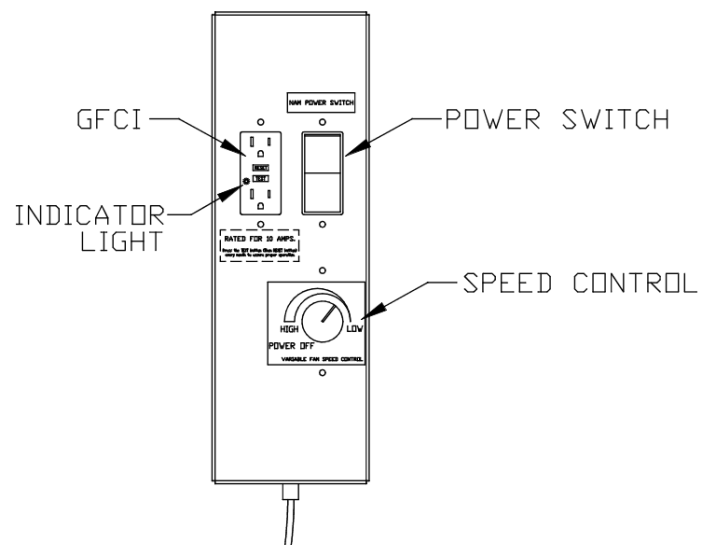


Figure 4

MAINTENANCE

The HEPA filter has been tested and certified for one year. The HEPA filter provided with the HCNAM negative air machine is a robust, long lasting filter that has been tested and certified at the time of shipment. The HEPA filter, however, is made from a paper media that must be protected if there is chance it will be exposed to moisture.

Before Each Use: Inspect for damage to electrical cord, controls, and filter box. Clean up any debris left by the previous job and check negative air machine for a clean pre-filter.

Short term intervals: Inspect pre-filter for accumulated dust and debris that could restrict airflow through the filter. If filter is damaged or visibly dirt, change the pre-filter.

Long term intervals: Whenever damage is suspected or at a decrease in airflow, the HEPA filter should be re-certified and replaced as required. Testing is recommended annually, at a minimum.

When using in a healthcare application or for remediation: To mitigate the risk of cross-contamination, replace both of the filters and clean the unit thoroughly. Use a damp wipe and vacuum as required. Allow unit to dry before installing new filters.

CHANGING THE FILTERS

Pre-filter: Change the pre-filter whenever it shows accumulation of dust and debris. Always change the pre-filter between jobs where dangerous contaminants were present.

7. Unplug the power cord from line voltage power source.
8. Remove the (2) two screws from the pre-filter cover on the top of the negative air machine housing.
9. Remove the pre-filter cover.
10. Grasp the pre-filter and pull up to remove.
11. Insert new pre-filter from the top. (minimum MERV 8 pre-filter)
12. Reposition the cover and re-install (2) screws.

HEPA Filter: Re-certify HEPA filter on an annual basis and replace if shows signs of damage or reduced airflow. Always change the HEPA filter between jobs where potentially dangerous contaminants are present.

11. Unplug the power cord from line voltage power source.
12. Remove the (2) two screws from the pre-filter cover on the top of the negative air machine housing and remove the pre-filter cover.
13. Release (4) four clasps (2 on each side) of the fan housing.
14. Remove fan housing.
15. Remove the dirty HEPA filter from the filter flange.
16. Carefully install clean HEPA filter. Note direction of airflow and ensure filter media has upstream and downstream gaskets.
17. Replace fan housing.
18. Reattach the (4) four clasps (2 on each side) to secure housing to cart.
19. Reposition the pre-filter cover and re-install (2) screws.
20. Test for proper operation and have the unit re-certified.
 - a. Contact HEPACART® customer service representative for approved certifiers in your area.

TROUBLESHOOTING

FAULT	CAUSE	SOLUTION
Unit does not operate	GFCI Tripped (red light on receptacle)	Firmly press "RESET" button on GFCI receptacle.
	No Power (no light on GFCI receptacle)	Make sure unit is plugged in. Check for power at outlet Press "12" amp breaker to reset
Low Airflow	Dirty Pre-Filter	Change Pre-Filter
	Dirty HEPA Filter	Change HEPA Filter

1. *For problems not listed in this table reach out to your HEPACART® sales representative for assistance.