

User Manual

Central Vacuum System

Discover our other products at:
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HYBRID CYCLONIC FILTRATION CENTRAL VACUUM SYSTEM

GREAT HOUSEHOLDS

750 AirWatts

2 SQ 10,000 sq. ft. AREA

141" H₂O waterlift SUCTION

63 db NOISE

With or Without Disposable Filtration Bag

35 L / 9.25 Gal

LARGE HOUSEHOLDS

700 AirWatts

2 SQ 7,500 sq. ft. AREA

140" H₂O waterlift SUCTION

58 db NOISE

With or Without Disposable Filtration Bag

25 L / 6.6 Gal

REGULAR HOUSEHOLDS

630 AirWatts

2 SQ 7,500 sq. ft. AREA

120" H₂O waterlift SUCTION

56 db NOISE

With or Without Disposable Filtration Bag

25 L / 6.6 Gal

WHAT IS CYCLONIC FILTRATION SYSTEM

Combining the High-Efficiency Cyclonic Filtration and a disposable bag, the vitiated air is filtered twice (Up to 99.97%)

The Cyclonic Filtration combined with the permanent machine washable filter purifies the vacuumed air up to 99.99%

The triple layer disposable bags permits to conveniently dispose of the waste in the dirt receptacle without harmful airborne dust

Powerful
3 times more powerful than a portable vacuum cleaner

Silent
As noisy as an air conditioning unit

99.97% High-Efficiency Permanent Filter and Machine Washable

Triple Layers Filtration Bag
Disposable bag with three filtration layers to prevent any cuts or loss of dust.

EASY TO INSTALL

Plugs into a regular electrical outlet (15 amps)

Connects to existing central vacuum piping networks (2" outer diameter pipes as per ASTM 2158)

12" Flexible pipes for an easy fit into existing conduits (sold separately)

For the installation video Scan the QR code or visit YouTube video at: youtu.be/hJ9E5-jdj8



10 YEARS WARRANTY

ON CENTRAL VACUUM

The warranty below only covers parts and includes a **1-year labor warranty**. The use of electrical power other than prescribed on the unit and (or) any repair(s) made by other than authorized service personnel will render this warranty null & void. The warranty will also be null & void if the system and (or) its accessories have been used on wet surfaces. This warranty is for residential applications ONLY; this warranty does not cover commercial or industrial usage of the product. The manufacturer is not responsible for any transportation/freight. Proof of purchase is mandatory, and the invoice for the installation of the qualified electrician

The Central Vacuum Power Unit Body, Motor & Module – Ten (10) years

Nadair will, for Ten (10) years, repair or replace any defective parts of the central vacuum motor, electronic module, body, housing & dust bin as long as you own it and if used in normal conditions and properly maintained, as stated in the power unit instruction manual.

Certain conditions apply: The permanent washable filter should be replaced every 2 (Two) years, and the disposable bags must be changed a minimum of twice a year. This warranty will cover the replacement of a new unit per purchase. Afterward, the warranty will cover the repairs required.

ATTACHMENTS AND TOOLS

UNIVERSAL REPLACEMENT HOSE

OPTIONAL ATTACHMENTS AND TOOLS

GARAGE KIT

30 FT. crushproof hose with adjustable wand, combo brush, accessory holder bag, hose hanger, dusting brush, upholstery brush crevice tool.

UNIVERSAL PADDED HOSE COVER

Universal Machine Washable Wall and Corner Protector Hose Cover

ACCHO-COV30ZIP-GY (35" / 40" / 50" also available)

STANDARD	DELUXE	DELUXE PLUS	CARPET DELUXE
Linoleum Ceramic	Linoleum Ceramic Wood	Linoleum Ceramic Wood Rug	Linoleum Ceramic Wood Rug Carpeted rooms
FOR ALL TYPES OF FLOORS	IDEAL FOR WOOD FLOORS	IDEAL FOR RUGS	6 ADJUSTABLE HEIGHTS
COMBO BRUSH	SUPERIOR FLOOR BRUSH WITH HORSE HAIR	AIR-DRIVEN CARPET BRUSH	CARPET BEATER
30' to 50' Crushproof Low-Voltage Hose, Universal Hose Cuff, fits in most inlets	30' to 50' Crushproof Low-Voltage Hose, Universal Hose Cuff, fits in most inlets	30' to 50' Crushproof Low-Voltage Hose, Universal Hose Cuff, fits in most inlets	30' to 50' Crushproof Low-Voltage Hose, Universal Hose Cuff, fits in most inlets
Chrome Hose Hanger	Accessory Holder Bag	Dusting Brush	Upholstery Brush
Adjustable Stainless Steel Wand		Crevice Tool	

Included in all above kits.

30 FT. ON-OFF Low-Voltage Hose, Universal Hose Cuff, fits in most inlets

ACCHO-30LV-BK (35" / 40" / 50" also available)

30 FT. ON-OFF High-Voltage Hose (for carpet beaters), Universal Hose Cuff, fits in most inlets

ACCHO-30HV-BK (35" / 40" / 50" also available)

2 year WARRANTY

ON ATTACHMENT KITS

Cleaning tools, carpet brushes, and flexible hoses, Two (2) years:

The cleaning tools, the carpet brushes, and the flexible hoses used adequately and in normal conditions are warranted for two (2) years, following the original date of purchase, against manufacturing defects.

Certain conditions apply: The warranty does not cover the normal wear of bristles, turbines, lamps, belts, carbon brushes, and roller bearings from the turbo brush and electrical carpet beater.

TO REGISTER YOUR WARRANTY:

USA: <https://nadair.com/vacuum/warranty-general/>

Canada: <https://nadair.ca/vacuum/en/warranty-general/>



**LOOK INSIDE THE
BOTTOM CANISTER TO
FIND THE MOUNTING
BRACKET**

User Manual Central Vacuum System



Model Number:

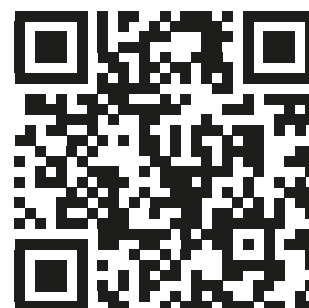
NAD-750ST-35H

NAD-630ST-25H

NAD-700ST-25H



For the installation video
Scan the QR code or visit YouTube video
at: <https://youtu.be/hJ9E5-jdjr8>



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1. Important instructions related to safety

CAREFULLY READ ALL OF THESE INSTRUCTIONS BEFORE USING THIS CENTRAL VACUUM SYSTEM

When using an electrical appliance, it is necessary to obey certain basic precautions.



WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCKS OR, INJURIES:

- Unplug the power cord from the electrical outlet before making any power unit maintenance.
- Do not install outdoors, protect against weathering, and do not use on wet surfaces.
- This appliance must not be used as if it is a toy. It is, therefore, necessary to be very prudent when children use the system or when in use in the proximity of a child or infant.
- This system must be used in conformity with the instructions provided in this manual. Only use the accessories recommended by the manufacturer.
- Do not use the system if the power cord or if the electrical outlet is damaged, if the system does not function normally, if it was dropped, was left outdoors in bad weather for an extended period of time or if it was immersed in liquid, the power unit must be sent to an authorized service center.
- Do not use the power cord to pull or lift the power unit, nor use it as a handle. Be careful not to pinch it in a door, do not let it hang on a sharp corner or edge.
- Examine the openings for foreign objects which may have remained in the pipe. If any, remove the obstructing objects to ensure maximum airflow.
- Keep the power cord from contact with any warm objects or surfaces.
- **Do not unplug the power cord by pulling on it. Always remove directly at the electrical outlet.**
- **Do not use the system or its accessories with wet hands.**
- Keep hair, clothing, fingers, body parts or other objects out of / away from any openings or moving parts of the system.
- All functions of the system must be deactivated before removing the power cord from the electrical socket. Take the necessary precautions when using the system in the stairs.
- **Do not use the system to pick up flammable liquids or fuels (i.e., gasoline) or use the system in areas where such liquids may be present.**
- Only plug the power cord into a properly grounded electrical socket. For more information on this subject, please see "Grounding specifications" in section 2.
- **The exhaust of the power unit must not be directly against a wall, a ceiling, or be inside a closed space inside a building or structure. It is recommended that the exhaust be vented outdoors.**
- Do not pick up hot ashes, red ambers, smoking hot material, incandescent material, cigarette butts, matches, etc...
- Do not put anything on top of the power unit or near it, because this could cause the unit to overheat
- DO NOT use the power unit if the pipe network is clogged. This will cause the unit to overheat.

KEEP THESE INSTRUCTIONS IN A SAFE PLACE
THIS POWER UNIT IS FOR DOMESTIC USE ONLY



GENERAL DIRECTIVES AND REFERENCES

ELECTRICAL GROUNDING SPECIFICATIONS

The system's power unit must absolutely be grounded. In the event of a malfunction or a power unit failure, the grounding provides the path of least resistance to any electrical current, minimizing the risk of electric shock. The power unit's power cord is 65'' (1,65m) and is fitted with a grounding wire and pin. The power unit's power cord must always be directly plugged into a suitable electrical outlet that is properly installed and grounded in conformity with the current local electrical standards.

Do not use an extension cord(s) to connect the power unit to the electrical outlet.

WARNING

Improper connection of the power unit grounding wire can result in the risk of electric shock. If you doubt of a proper grounding, contact a professional electrician. Do not modify the power cord supplied with this power unit. If this power cord connector does not fit your electrical outlet, have the proper electrical outlet installed by a professional electrician.

This power unit is designed to be used on a nominal electrical circuit of 15 A. 110-120 VAC in 60 Hz. The power cord is fitted with a grounding pin. Make sure that the power cord is plugged into an electrical outlet having the same specifications. This appliance should be used without an adapter. We recommend installing this unit on its independent circuit and breaker, but it is not necessary to do so.

IMPORTANT

The manufacturer shall not be held responsible for damages caused by the inappropriate use of this system. The warranty does not cover the damages caused by improper use of this system or the problems resulting from an installation that does not meet the specifications or any structural or functional alterations made to the power unit. An inappropriate, not-recommended installation of the system or the power unit made without respecting this document's directives will be considered misuse. The limited warranty and user manual outline all conditions and restrictions. To optimize the performance and the life of your Nadair's power unit, it is essential to do regular maintenance and cleaning of the filter according to the guidelines listed in this user manual.

General guidelines are to be respected at all times

1. The power unit must be installed in a well-ventilated area, protected from weathering and away from all sources of heat.
2. This central vacuum system is designed for dry surfaces and must not be used on wet surfaces or used in any circumstances to pick up liquids or clean wet carpets or any wet ground.
3. The filter cage must be covered at all times by the permanent filter during the system's operation.
4. The motor housing must never be obstructed to prevent damages or overheating.
5. Do not use this system to pick up mud or similar substances to vacuum baking flour, talcum powder, cement, or gypsum dust; it will obstruct and clog the filter media; you have to clean the filter several times during and after such pick-ups. Otherwise, the motor will overheat and may be damaged.
6. Do not attempt to shorten or modify the power cord in any way.
7. As a safety measure, unplug the power cord before proceeding to maintenance or servicing.
8. In order for the warranty to remain valid, any repairs or service on the power unit must only be performed by an authorized service center.
9. The power unit's position must be so that the power cord and electrical outlet are always easily accessible.
10. Pertaining to the use of an electrified valve (110 VAC) (intended for the connection of a current-carrying hose and electrically motorized brush):
 - Only connect a current-carrying hose to this wall valve
 - Do not install a current-carrying valve outdoors
 - Do not use a damaged hose; bring in the hose for repair at an authorized service center.



3. 1 MODELS

25L CANISTER

NAD-700ST-25H
NAD-630ST-25H



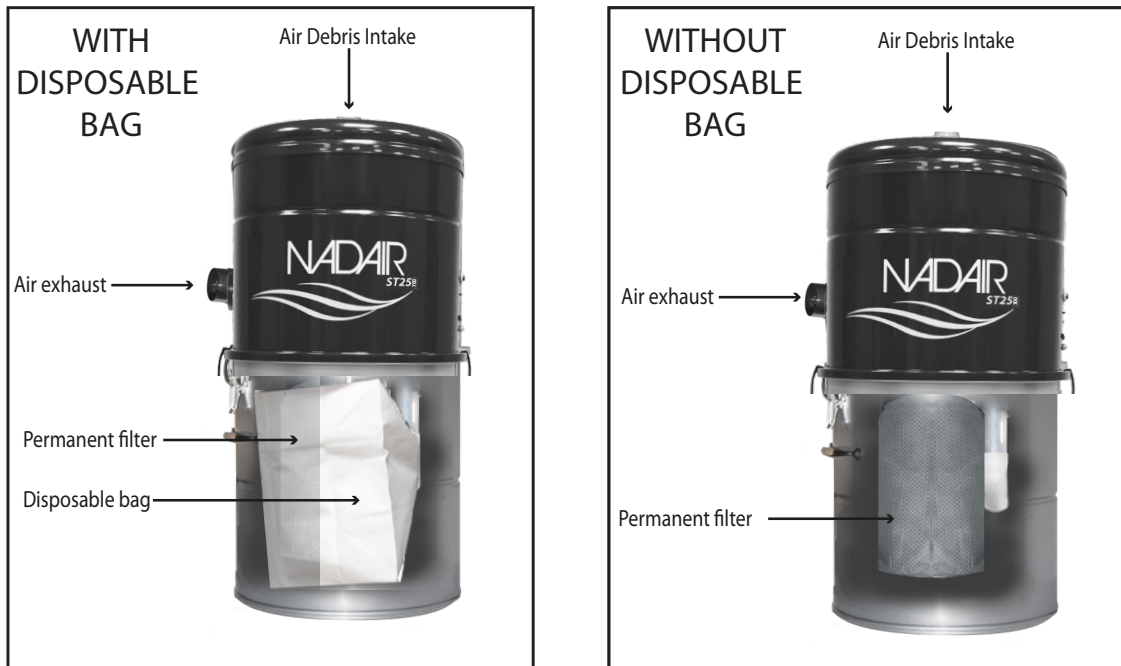
35L CANISTER

NAD-750ST-35H



3. 2 HYBRID SYSTEMS

Can be used with or without disposable bags



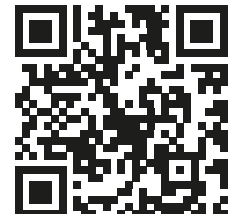
- Permanent filter must be **IN PLACE AT ALL TIME** even when using a filtration bag
- Must wash the permanent filter every time the canister is emptied to prevent debris from accumulating on the filter and to avoid debris from going in the motor compartment
- Permanent filter must be changed to a new one every 2 years to keep the vacuum's warranty. The New filter must be Nadair's filter: FP-8 (FOR Nadair 630ST-25H / Nadair-700ST-25H) OR FP-12(FOR Nadair-750ST-35H)

USA

CANADA

*To purchase bags and filters, scan QR code
or visit our web site*

USA: https://nadair.com/vacuum/product-category/bags_and_filter
CANADA: <https://nadair.ca/vacuum/product-category/bags-and-filters/>



4. INSTALLATION

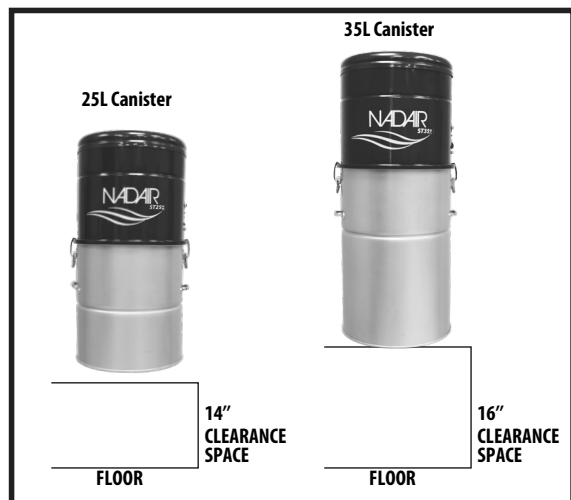


NOTE

APPLICABLE TO ALL POWER UNITS:

The power unit must be installed by a qualified electrician. It must be installed in a well-ventilated area, away from weathering. It must be easily accessible and away from any heat source. The power unit must be installed near an adequate electrical outlet. You must have at least 6" of clearance space all around the unit

1. Measure the bottom clearance space to be able to remove your bag and your canister easily



For 25L canister (NAD-700ST-25H AND NAD-630ST-25H):
Minimum of 14" clearance space

For 35L canister (NAD-750ST-35H):
Minimum clearance space of 16"

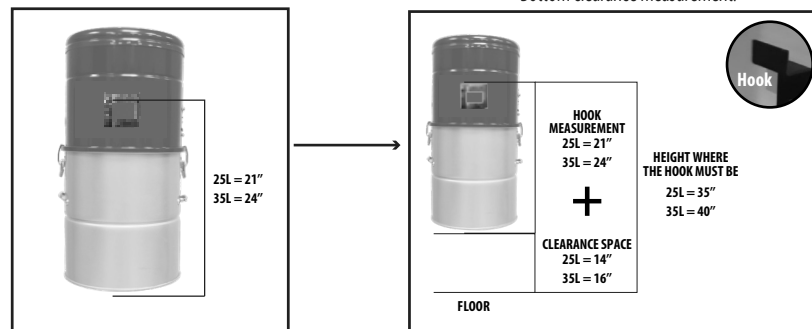
2. Measure where your bracket must be installed



NOTE: We suggest to install a wood board to solidify the bracket

Take the measurement from the bottom of the Vacuum to where the hook will be inserted in the vacuum.

Add this measurement to the Bottom clearance measurement.



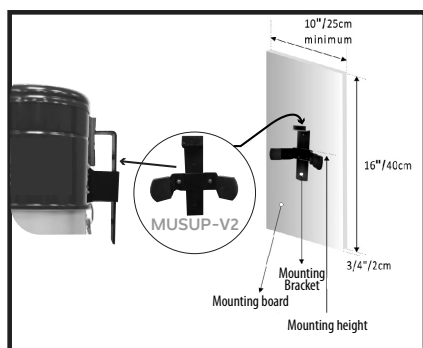
Installation on a gypsum wall (Gyprock):

- Prepare the wall by installing a plywood mounting board (not provided) of Wide enough to be screwed to at least 2 studs.
- Drill three (3), 3/8" (10 mm) holes with a wood drill bit. Insert the supplied Rubber inserts. Fasten the steel mounting bracket with the supplied screws.

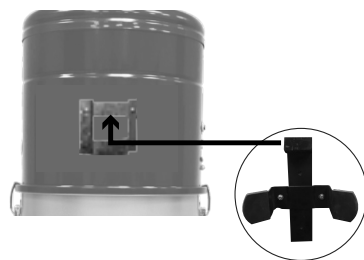
Installation on a concrete wall:

- Drill three (3), 3/8" (10 mm) holes with a concrete drill bit.
- Insert the supplied rubber inserts.
- Fasten the steel mounting bracket with the supplied screws.

3. Hang your unit on the bracket



Insert the hook in the middle of the bracket on the vacuum.



4. INSTALLATION (Cont.)

4. Connect the top air and debris intake pipe to the PVC piping network



We suggest to use flexible pipes (**SOLD SEPARATELY**) For faster and easier installation



NOTE: Our flexible pipes are 12" long and comes in a set of 2 with connection pieces . You can connect two (2) flex pipes together by using the PVC pipe pieces and the provided metal ring. (NEVER USE GLUE) - OUR FLEXIBLE PIPE KIT IS SOLD SEPARATELY

Step-1



- Connect one side of the flex pipes to the Piping network. Secure it with the ring. **DO NOT GLUE**

Step-2



- In the top air intake of the vacuum, Insert a coupling. **DO NOT GLUE**

Step-3



- Insert a 2" PVC pipe piece in the top Air intake coupling **DO NOT GLUE**

Step-4



- Connect the other end of your flex pipe to the PVC pipe piece and secure it with Provide metal ring (**NEVER USE GLUE**)

If using Hard pipe

1st, you must determine the trajectory of your piping

Than you must glue pipes and elbows together all the way to the top air intake

This method requires: Cement, 2" PVC pipes, Sweep Elbows, Couplings



Scan to purchase Flex pipe or piping installation kit on our web site

Canada web site



US web site



5. Connect your low-voltage wire

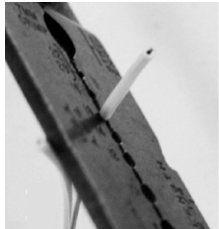
IF YOU HAVE MULTIPLE INCOMING WIRES, FOLLOW STEP 5.1 TO 5.5

IF YOU HAVE ONLY 1 INCOMING WIRE, FOLLOW STEP 5.1, 5.4 AND 5.5



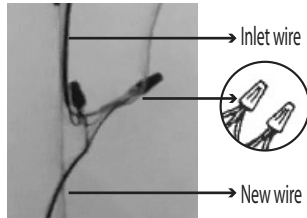
Note: Never connect more than 1 wire into the Low-Voltage socket

Step 5.1



- First, Take a new low-voltage wire And strip the conductors for about 3/8" (10 mm).

Step 5.2



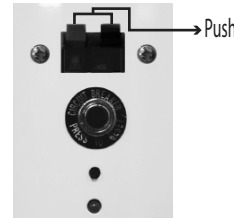
- Connect one side of this wire with all the other wires by connecting all the positive sides together and all the negative Sides together

Step 5.3



- Than, secure each side With electrical tape

Step 5.4

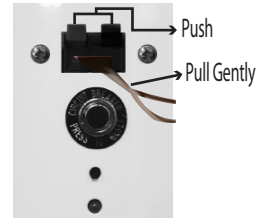


- Connect the other side of your new wire (conductors) into the low-voltage socket on the vacuum while simultaneously pushing on their respective button.

- Give a light pull to the wire to make certain that it is well secured in the terminal.

(Live (negative side) in the black terminal And neutral (positive side) in the red terminal)

Step 5.5



- To remove the conductors out of The terminals, lightly Push the Button as you are simultaneously Gently pulling the wires out.

6. Plug-in your vacuum



Plug your vacuum into a regular electrical outlet.



LED light

The LED light will flash green and become solid green

Your vacuum is ready to be used.

NADAIR®
Since 1980

5. SYSTEM OPERATING INSTRUCTIONS

Your new system is now ready to be used. Here are a few simple guidelines to follow when using your Nadair Central Vacuum System: Insert the wall end of the hose into one of the vacuum wall inlets installed throughout your home. When ready to start, press the ON-OFF switch on the hose handle!

NOTE: In regards to the low-voltage system, all vacuum inlets are fitted with two (2) spring-loaded metal pins. When the hose wall-end cuff's two (2) metal parts are in contact with the two (2) pins inside the inlet, the system is energized. You may now turn it on or off from the hose handle switch (if this option was selected). The low-voltage cable is connected in parallel from every inlet. It runs all along with the piping network and brings the power to the switch to remotely start or stop the power unit in all safety. A standard flexible hose, not fitted with an interrupter, will start the power unit as soon as it is inserted into the valve opening.

6. FILTRATION SYSTEM MAINTENANCE

In order to maintain optimal air quality in your home, the power unit comes supplied with a high-efficiency HYBRID filtering system. A permanent polypropylene washable and reusable filter together with an optional 12.5L OR 22.5L disposable filter bag.



NOTE: The permanent filter **MUST BE IN PLACE AT ALL TIMES**; the filter securing strap must be tight and adjusted to ensure there are no fly-by of debris into the motor housing.

PERMANENT FILTER



The permanent filter must be washed every time the canister is emptied to prevent debris from accumulating on the filter and to avoid debris from going into the motor compartment.

To keep the vacuum's warranty, the permanent filter must be changed for a new one every two (2) years. The New filter must be Nadair filter: FP-8 (FOR NAD-630ST-25H / NAD-700ST-25H) OR FP-12 (FOR NAD-750ST-35H)

FILTRATION BAGS



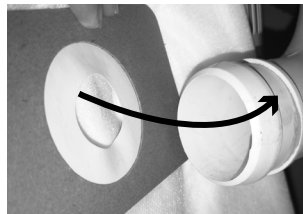
IMPORTANT

When using with disposable bag, The permanent filter **MUST BE IN PLACE AT ALL TIMES**. The filter securing strap must be tight and adjusted to ensure there are no fly-by of debris into the motor housing.

This Nadair hybrid power unit may be used with OR without a disposable bag. Bags are sold in 3-pack:FD-12.5L-3NAD: For NAD-700ST-25H / NAD-630ST-25H and FD-22.5L-3NAD: FOR NAD-750ST-35H

The disposable bag must be installed as described here:

- 1- Remove the debris canister
- 2- Remove the dirt-filled bag
- 3- Install the new bag by twisting it
- 4- Verify and clean (If necessary) the permanent filter.
- 5- Replace the debris canister and secure the latches



NOTE

When replacing the disposable bag, make sure that the rubber diaphragm is correctly installed onto the intake PVC pipe. Make sure that the bag is not cut or damaged. Make sure that the canister is secured in place prior to restarting the power unit. It is recommended to replace the disposable bag or to empty the debris canister as well as to clean the permanent filter 3 or 4 times per year. If the system is used more frequently than normal, repeat the above procedure more often.



IMPORTANT

NEVER USE this system to pick up liquids, mud, or combustible materials. To vacuum baking flour, talcum, powder, cement or gypsum dust, will have for effect to obstruct and eventually clog the filter media; you have to clean the filter several times during and after such pick-ups. Otherwise, the power unit performances will be affected, and the motor will overheat and may be damaged.



7. TROUBLESHOOTING

GENERAL

The following may cause failure of the power unit:

- Inadequate electrical power (Voltage or Amperage), verify that the electrical power supplied complies with the power unit's requirement. or;
- Abnormal performances of the electronic control module or the motor

Before calling a service technician, in case of a malfunction, please review the following situations by running the following simple diagnostics:

SITUATION	VERIFICATION
THE POWER UNIT DOES NOT OPERATE	Verify that there is power in the electrical outlet.
	Verify the breaker or the fuse in the electrical panel.
	Verify that the power cord is adequately plugged in the electrical outlet.
	Verify that the mini-breaker button on the side of the unit is pushed-in.
	Short-circuit the low voltage connections on the side of the power unit. If the power unit starts, the problem is somewhere else in the valve network wiring or on the current carrying hose.
	Verify that all low voltage connections are adequate at every valve location. Open every valve, one at a time, and make contact between the two (2) small pins with a metal object. If all the valves work properly, take a look at the low voltage circuit or switch on the hose.
	If the power unit still does not work after the above diagnostic, bring the unit to the nearest authorized service center.

SITUATION	VERIFICATION
LOW OR NO SUCTION OR AIR FLOW AT ALL	Verify the cleaning tool or the hose for possible obstruction. If the hose is obstructed, try to "massage" the clog out. Try to "reverse" the hose by inserting the cleaning end of the hose in the wall valve and making contact with the two (2) small metal contact pins, hold your hand around the opening for air tightness.
	Verify if the disposable bag is full, if so replace disposable bag and/or that the filter may be clogged, if so clean the permanent filter.
	Verify if the debris canister is adequately placed on the unit with no air leaks.
	Verify that all other valves are shut and that there is no air leaks.
	If one of the vacuum valves has noticeably less power than the others, it is a sign of a clog at this particular valve. Write a different number on a few paper tissues and pick one up in every valve in the home; see in the debris canister which one is missing so to find which valve is obstructed
	If none of the valves function properly and that the power unit is running; unhook the flexible pipe on the top of the power unit from the debris intake line. If you have plenty of power there, it is a sign that the clog is between the last valve and the power unit.
	If the power unit still does not work after the above diagnostic, bring the unit to the nearest authorized service center.



SITUATION	VERIFICATION
VACUUM WON'T START OR STOP	Hose on/off switch When setting the hose switch to "OFF", you must wait 3 seconds before the vacuum shuts down. If you pressed the "ON/OFF" switch quickly many time; The vacuum will seem to always stay on. Set the switch to "OFF" and wait 3 seconds, the unit should stop.
	Hose not properly plugged in Make sure to properly plug the hose in the inlet. (See the picture to see proper plug-in method) Make sure the black part is well aligned in the middle of the 2 small pins
	Option 3: The pin's spring could be broken If the pins, once pushed, do not come up; the spring is probably broken and could cause the vacuum not to start or stop. In which case the spring must be fixed.
	Option 4: If all of the above work, please proceed to bypass. If the vacuum starts, see the Technician as there is a problem with the cable.

SITUATION	VERIFICATION
HOW TO DO A BYPASS TO TEST THE VACUUM	Step 1 Use wire or paper clip OR
	Step 2 Insert 1 side of the wire, or paper clip, in the black inlet and the other one in the red inlet Unit should start
	Step 3 Remove the wire and wait 3 seconds - Unit should stop..

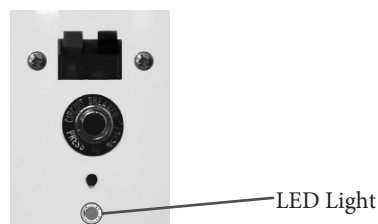
FAQ and Trouble Shooting Guide available on our web site at:

USA: nadair.com/vacuum/trouble-shooting/

Canada: nadair.ca/vacuum/en/trouble-shooting/



9. LOW VOLTAGE SYSTEM TECHNOLOGY



LED status interpretation guide

This **Nadair** Central Vacuum Power Unit is provided with an LED status indicator to keep you informed on the different states and functions during its operation. Reading the following table will allow you to identify the status of your appliance by the different behaviors of the LED.

Status	Color	Legend
○	OFF	The power unit is not connected to an electrical outlet.
☀	GREEN	The power unit has just been connected. Will change solid green after a few seconds.
●	GREEN	The system is operational and is well functioning
☀	GREEN	Stop power unit and change bag or empty canister and wash the filter Press reset button. The light will stop blinking and return to solid green
●	ORANGE	Service Due
☀	ORANGE	Stop power unit and change bag or empty canister and wash the filter Press reset button and the light will return to solid orange
●	RED	Stop using. Service Overdue
Solid  Operational/ Requirements Blink slow  Warning Action Required Blink fast  Booting System		

10. SAFETY NOTES

- Make certain that the work area is safe and clear prior to installing your new **Nadair** Central Vacuum Power Unit.
- Wear the necessary safety clothing & equipment prior to start any work i.e.: goggles, gloves etc.
- Use the right tools & in good working order:
 - Hammer
 - Phillips head screwdriver (cruciform) 
 - Measuring tape
 - Level
 - Drill; with wood or concrete bit of 3/8" (10mm)
 - Pliers
 - Wire stripper

