



OPERATING INSTRUCTIONS
& Safety Guide
HafcoVac Compressed Air
Industrial Vacuum Product Line



HafcoVac
A product of
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Thank You for your purchase of a HafcoVac product. Please follow these assembly and operating instructions for your new industrial vacuum cleaner to ensure optimal operating performance. For your safety, observe all warnings contained herein.

Please keep this instruction manual in a safe place for future reference. Should you misplace this manual, you can download a copy from the HafcoVac website.

If you encounter difficulties operating the vacuum, do not hesitate to contact us by any method listed above.



Unpacking



After removing your unit from the shipping box, check for parts that may have been placed inside the vertical pieces of cardboard in the box corners.

HafcoVac vacuum heads are shipped fully assembled and ready to use. If you ordered a head with a tool kit, or a la cart tools or hoses, they are generally included in the same box, so please check carefully to avoid discarding with the packaging. If you ordered a liquid shut off valve (HV-7031), it is installed inside the standard filter for shipping purposes, though it is advised that you use ONLY the liquid shut off OR the filter at any given time, depending upon your application.

Complete units ship fully assembled, with the exception of the caster base (dolly). See the subsequent section for assembly instructions.

If your unit is a demonstration unit, or you think you may need to return the vacuum, you should save the original packaging to ensure that the unit is not damaged upon return shipping. Units returned improperly packaged, damaged or missing parts will be the responsibility of the customer.

Caster Base Assembly

The caster base (HV-30-20 or HV-55-20), or dolly, is the only component that needs assembly. You will need the following parts for assembly, all of which are included:

- (20) 7/16 bolts
- (20) 7/16 nuts
- (2) Steel cross members (one should have an offset)
- (4) Casters

You will also need 2 - 7/16 ratchet or wrenches, not provided.

Place the cross members perpendicular to one another. Place the piece with the offset in the center of the bar on the bottom. Align up the holes and bolt the pieces together. Attach the 4 swivel casters with 4 bolts each to each corner of the cross members.



Air Supply / Compressor Requirements

Your HafcoVac vacuum is designed to work optimally at 60 or 80 cubic feet per minute (CFM) at 100 pounds per square inch (PSI). Dual venturi models require double the CFMs. Air supplies that don't meet these minimums will drastically reduce the performance of your vacuum. Follow the guidelines below to ensure that your unit will perform up to specifications.

- 80 CFM at 100 PSI for models designated HV-**-**10*
- 60 CFM at 100 PSI for models designated HV-**-**60*
- All hoses and fittings from the compressor to the vacuum must be a minimum of 3/4" inner diameter. If you wish to change fittings to a different style, ensure they don't restrict this dimension.
- 3/4" hose is recommended. Be sure to verify the inner diameter of the hose, not just the outer.

If you are unsure of your air supply, the table below will serve as a general guide for sizing your compressor. Keep in mind that horse power is not the only requirement, and that factors such as storage tank size and duration of use play a large role also.

CFM	HafcoVac Model	Compressor HP
80–100	HV-**-**10*	20
40–60	HV-**-**60*	12

It is NOT necessary to condition the air supply with driers, lubricators or filtration, as HafcoVac vacuums contain no moving parts, though doing so will not interfere with function, so long as the volume of air is not restricted.

NOTE *To safely disconnect an air supply line, it must first be depressurized. Turn the air supply off at nearest supply valve, then open the valve on the vacuum to release residual pressure before disconnection.*

NOTE *Should you need to pick up combustible materials, or if you operate a unit in a hazardous environment, you should only use a properly equipped anti-static model, designated with an "X" model number suffix.*

Operating Instructions

To operate the vacuum, you must connect the airline between the vacuum and your air supply. The Chicago, or Universal fittings connect and disconnect by pushing in and twisting. Be sure to connect them securely by twisting them until they stop and the safety clip pins are aligned. Use the supplied safety clips at all times.

If your application does not require full suction, simply open the ball valve to vacuum head only partially. Lower airflow results in a correspondingly lower suction, but with less of a demand on your compressed air.

When picking up liquids, uninstall the filter by removing the retaining springs and separate the head and the filter. Use of a liquid shut-off valve (HV-7031) is highly recommended when picking up liquids to prevent overflow and possible damage to the exhaust silencer. The liquid shut-off valve installs using the same retaining springs as those used for the filter.

When using the vacuum to pick up combustible liquids or material, be sure to use a properly equipped "X" anti-static unit, which will protect you from static electricity buildup. The following section describes HafcoVac anti-static features. If your unit is not so equipped, please contact us, as a retrofit may be available.

Anti-Static Units ("X" designation)



All operators of HafcoVac anti-static vacuums should be trained on and fully understand the topics discussed in this section. Failure to inspect integrity of safeguards, circumvention of safeguard systems or substitutions with components from other systems could be dangerous and are often unintentional. Proper training can greatly reduce risks associated with misuse of this product.

HafcoVac anti-static units ("X" model number suffix) are designed and factory assembled with a number of features to ensure static electricity is safely dissipated. Static electricity can pose a risk if allowed to build up and unintentionally dissipated when the vacuum is being used in hazardous environments or with combustible substances.

Anti-Static Units (“X” designation) (continued)

Static electricity should be continuously dissipated by ensuring the unit is properly grounded, and that all components of the vacuum maintain their electrical bonding.

GROUNDING

HafcoVac units offer multiple options for grounding, depending upon the environment you will be using your vacuum in. You **MUST** be certain that **ONE OR MORE** path to ground is present any time the vacuum is in operation! It is highly recommended that you verify any assumptions made about presence of ground in your facility.

Air Supply Grounding- HafcoVac anti-static vacuums are supplied with electrically conductive air supply lines. Most air supply systems utilize steel black pipe for delivery, which is typically grounded. Ground to the vacuum may be achieved by the conductive hose to a grounded air supply system. However, if your air supply system uses PVC pipes or rubber hoses, or if you extend your air supply hose with a non conductive hose, grounding through your air supply may not be a viable option.

HafcoVac ships static conductive air supply lines with an extra length of wire that protrudes where the hose meets the coupler at each end. It is not necessary to connect this wire to anything for the hose & couplers to be conductive. However, the wire should be left to serve as a confirmation that it is a conductive supply line, so as to not confuse it with non conductive lines which you may also have in your facility. Never extend a conductive supply line with a non conductive supply line, as the path to ground through your air supply system will break. Additionally, the wire can serve as an extra grounding option should you have doubts about grounding through your air supply system.

NOTE *For your safety, extend or replace the air supply line only with a conductive air supply line.*

Operating Surface Grounding—The drum dolly (or vacuum drum without dolly) sitting on a grounded surface is generally a suitable ground for the purpose of dissipating static electricity. Not all surfaces, however, are grounded.

Unpainted concrete slabs typically provide good ground conductivity, particularly if your facility was constructed to code requiring Concrete Encased Electrode or Ufer grounding.

Many surfaces aren't suitable to make assumptions about presence of a good ground, such as painted concrete, carpet, rubber mats, dirt, on a vehicle, etc.

Anti-Static Units (“X” designation) (continued)

Wire / Jumper Grounding—If you have any doubt about the presence of ground through either the air supply line or the operating surface, it is highly recommended that you use a grounding wire and clamp. HafcoVac provides a wire with clamp for this purpose, though you can certainly employ another solution should the provided cable & clamps not be suitable in length, or for the surface you are trying to ground to.

To use the provided clamps (or your own solution) attach the end of the cable with the wire connector to the post on the vacuum, located near the inlet. The green grounding sticker (pictured below) designates the grounding point of the vacuum. If you use an alternate grounding solution, ensure you are not clamping to a painted surface, as the paint will act as an insulator of static buildup, rather than a conductor. Connect the other end of the wire to a reliable ground. Examples could include a grounding post, metal electrical conduits or junction boxes, unpainted building structural components, etc. If you have any doubts, it is recommended that you contact an electrician to provide you a verified ground connection to use.



Bonding

Each component of the HafcoVac Anti-Static vacuum unit is bonded to ensure that no component of the system is isolated from ground. The operator should verify, prior to each use the following bonding points:



- 1) The green wire pictured is essential to bond the vacuum hose to the head.
- 2) The braided cable must be intact to ensure bonding of the head to the drum.

You should also inspect the drum rim at top and bottom where it has been ground free of paint, exposing bare metal. If the rim has rusted, been coated with paint or otherwise fouled, the contact between the vacuum head and drum or the drum and dolly may be broken.

You should use only metal tools, do not use plastic. If you extend any supply line or vacuum hose, be certain to do so with another conductive part. Connect wires between multiple lengths of hose.

Troubleshooting

If your vacuum doesn't perform as expected, verify the following items:

- Clean or replace filter. Compressed air can be used to clean filter media. When ordering replacement filters, be sure to differentiate between standard (HV-7037) and HEPA (HV-7063) models. HEPA filters will capture smaller particles, but also require more frequent cleaning / replacement.
- If installed, wash outer filter bag. The use of a filter bag is highly recommended, particularly with HEPA filters to extend the life of the filter element.
- Be sure air supply is adequate. Fittings with an inner diameter of less than 3/4" will restrict air supply.
- Vacuum hose and elbow on vacuum head should be free of obstruction.
- Vacuum head must make a good seal with the drum. Lip of drum should have no dents, and the drum should have no punctures. Check and replace seal on bottom of vacuum head if needed (HV-30-11 or HV-55-11).
- Check and replace gaskets under the venturi (HV-7028) and the elbow (HV-7054) on the top of the vacuum head.

Lifetime Warranty

HafcoVac takes pride in our product and values our customers. As such, HafcoVac offers a limited lifetime warranty to all original end-users of our products. Generally, this warranty applies to defects in material and workmanship when the product fails under normal conditions. Damage caused by conditions including, but not limited to the following are expressly excluded: modification to any component or assembly, solvents, corrosives, or harsh environmental conditions. Also excluded are all components considered consumables, such as gaskets, filters or exhaust silencers.

It shall be at the sole discretion of HafcoVac to either repair or replace a defective product or part with an identical or comparable unit. Shipping costs to and from HafcoVac will be the responsibility of the customer after 2 years from the date of purchase.

This warranty expressly excludes all claims of consequential or incidental damages which may arise as a result of product use or failure.



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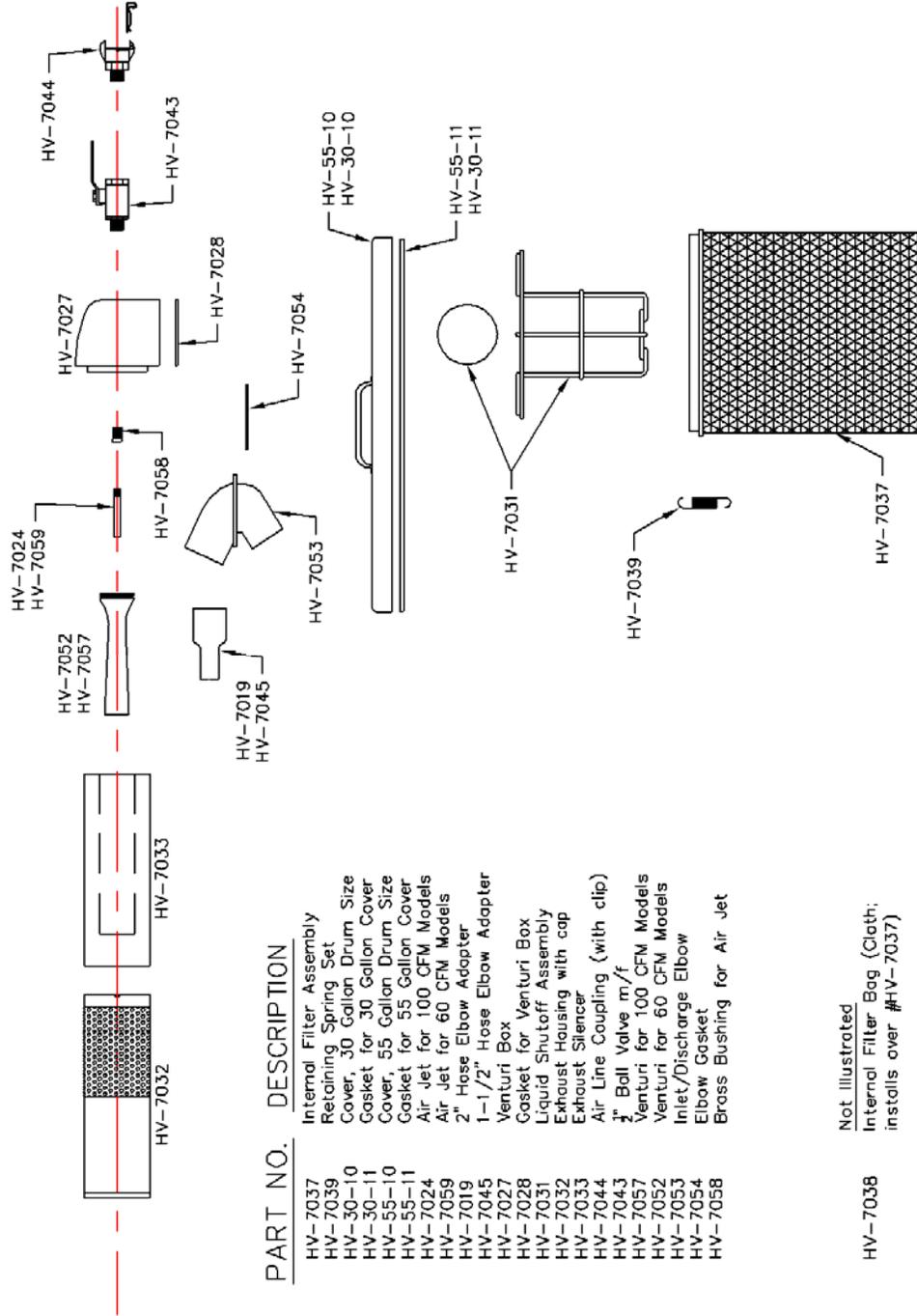
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Vacuum Head Parts Diagram



PART NO. DESCRIPTION

- HV-7037 Internal Filter Assembly
- HV-7039 Retaining Spring Set
- HV-30-10 Cover, 30 Gallon Drum Size
- HV-30-11 Gasket for 30 Gallon Cover
- HV-55-10 Cover, 55 Gallon Drum Size
- HV-55-11 Gasket for 55 Gallon Cover
- HV-7024 Air Jet for 100 CFM Models
- HV-7059 Air Jet for 60 CFM Models
- HV-7019 2" Hose Elbow Adapter
- HV-7045 1-1/2" Hose Elbow Adapter
- HV-7027 Venturi Box
- HV-7028 Gasket for Venturi Box
- HV-7031 Liquid Shutoff Assembly
- HV-7032 Exhaust Housing with cap
- HV-7033 Exhaust Silencer
- HV-7044 Air Line Coupling (with clip)
- HV-7043 3/4" Ball Valve m/f
- HV-7057 Venturi for 100 CFM Models
- HV-7052 Venturi for 60 CFM Models
- HV-7053 Inlet/Discharge Elbow
- HV-7054 Elbow Gasket
- HV-7058 Brass Bushing for Air Jet

Not Illustrated
 HV-7038 Internal Filter Bag (Cloth:
 installs over #HV-7037)

Parts List

Part No.	Description	Price
Replacement Consumables		
HV-30-11	Gasket for 30 Gallon Cover	\$20
HV-55-11	Gasket for 55 Gallon Cover	\$20
HV-30-16	30 Gal Drum Liner, Anti-Static, 10 mil	\$15
HV-55-16	55 Gal Drum Liner, Anti-Static, 10mil	\$15
HV-7028	Gasket for Venturi Box	\$4
HV-7054	Elbow Gasket	\$4
HV-7037	Standard Filter	\$50
HV-7037-6	Standard Filter 6-pack	\$250
HV-7038	Cloth Internal Filter Bag	\$24
HV-7038-6	Cloth Internal Filter Bag 6-pack	\$130
HV-7033	Silencer for Exhaust Housing	\$20
HV-7063	HEPA Filter	\$250

2" Hose and Tools

HV-7017	2" Hose Coupler	\$12
HV-7018	2" Crevice Tool, Steel	\$30
HV-7019	2" Hose Elbow Adapter	\$30
HV-7020	2" x 25' Grey Polyethylene Hose with Cuffs	\$90
HV-7060	2" x 20' Heavy Duty Hose with Cuffs	\$230
HV-7064	2" x 15' Static Conductive Hose	\$225
HV-7064-25	2" x 25' Static Conductive Hose	\$295
HV-7021	12" Wet/Dry Floor Tool	\$60
HV-7022	4' (2 pc) Steel Wand, 2"	\$85
HV-7023	12" Wet/Dry Floor Tool with 4' (2 pc) Wand, 2"	\$130
HV-7026	2" Gulper Wand	\$28
HV-7066	2" Static Hose and Dissipation Kit	\$400

1 1/2" Hose and Tools

HV-7040	1 1/2" Hose Coupler	\$12
HV-7042	1 1/2" Crevice Tool, Aluminum	\$30
HV-7045	1 1/2" Hose Elbow Adapter	\$40
HV-7025	1 1/2" x 25' Grey Polyethylene Hose with Cuffs	\$58
HV-7061	1 1/2" x 20' Heavy Duty Hose with Cuffs	\$185
HV-7065-25	1 1/2" x 25' Static Conductive Hose	\$255
HV-7062	12" Wet/Dry Floor Tool	\$45
HV-7049	4' (2 pc) Steel Wand, 1 1/2"	\$60
HV-7049P	4' (1 pc) Plastic Wand, 1 1/2"	\$60
HV-7050	12" Wet/Dry Floor Tool with 4' (2 pc) Wand, 1 1/2"	\$100
HV-7051	1 1/2" Gulper Wand	\$25
HV-7047	12" Bristle Floor Tool, 1 1/2", Aluminum	\$52
HV-7047P	12" Bristle Floor Tool, 1 1/2", Plastic	\$52
HV-7048	12" Squeegee Floor Tool, 1 1/2", Aluminum	\$52
HV-7048P	12" Squeegee Floor Tool, 1 1/2", Plastic	\$52
HV-7048RB	12" Squeegee Replacement Blades	\$10
HV-7046	5" Round Brush Tool, 1 1/2"	\$40
HV-7041	6" Utility Tool w/ Detach. Brush, Aluminum, 1 1/2"	\$55
HV-7403-S	Curved Brush - For 3-6" Diameter Pipe	\$65
HV-7401-S	Curved Brush - For 6"+ Diameter Pipe	\$75
HV-7067	1 1/2" Static Hose and Dissipation Kit	\$450

Part No.	Description	Price
Accessories and Replacement Parts		
HV-30-10	20" Cover for 30 Gallon Drum	\$200
HV-55-10	24" Cover for 55 Gallon Drum	\$200
HV-30-15	30 Gallon Drum w/ Drainage Bung	\$150
HV-55-15	55 Gallon Drum w/ Drainage Bung	\$150
HV-30-20	Caster Base for 30 Gallon Drum	\$140
HV-55-20	Caster Base for 55 Gallon Drum	\$150
HV-7013	Caster	\$18
HV-7015	20' of 1/4" I.D. Air Supply Hose with Fittings	\$100
HV-7024	Air Jet Replacement (100 or 60 CFM)	\$12
HV-7027	Venturi Box, Aluminum	\$250
HV-7031	Liquid Shut-Off	\$60
HV-7032	Exhaust Housing With Cap	\$95
HV-7039	Springs(set)	\$3
HV-7043	1/2" (M/F) Ball Valve	\$25
HV-7044	1/2" Universal Coupler	\$8
HV-7052	Venturi Replacement (100 or 60CFM)	\$50
HV-7053	Inlet Elbow	\$35
HV-7033X	Extra Silent Exhaust	CALL
HV-7084	54" Wand Extension (1-1/2")	\$50
HV-7088	54" Wand Extension w/Coupler (1-1/2")	\$60

A Wide Variety of 1-1/2" Accessories are Available. Please Call



All prices are current as of February 2014. Prices are subject to change without notice.

***** Please see DISCOUNT coupon on previous page *****



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