FOREVER WARRANTY

Guardair Corporation ("Guardair") warrants that its compressed air-powered vacuums are free from defects in materials and workmanship for as long as the original end-user purchaser owns the product, except as provided below. Guardair will, at its option, repair or replace with a comparable product, any product, part, or component that fails under normal use as a result of such defect.

This warranty does not apply to damage caused by the carrier; normal wear and tear; deterioration due to solvents, corrosives, environmental conditions, or harsh vacuumed material; soiling, saturation, or perforation of filters or exhaust silencers; consumable components; modifications to the product; attachments to the product not sold by Guardair; or any product not installed, used, or maintained in accordance with the foregoing and other published Guardair instructions and warnings. Consumables purchased from Guardair, including attachments, vacuum hose, filters, exhaust silencers, and cover gaskets are warrantied for a period of 90 days against defects in materials and workmanship, subject to the same exclusions noted above.

This warranty covers the original purchase of a new product by an end-user for normal industrial or commercial use only when installed and used as specified and in accordance with published operating instructions and within all applicable regulatory rules, limits, and guidelines.

THIS WARRANTY IS THE ONLY WARRANTY MADE BY GUARDAIR FOR THIS PRODUCT, AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE DISCLAIMED.

Guardair's sole obligation and the end-user purchaser's exclusive remedy under this warranty shall be limited to the repair or replacement, at the sole discretion of Guardair, of product or components. In no event shall Guardair be responsible for special, consequential, or incidental damages arising out of a claim for a defective product or failure of warranty. All labor and material costs of repair or replacement under this warranty shall be the responsibility of Guardair. Shipping costs to and from the purchaser associated with repair or replacement under this warranty shall be the responsibility of Guardair for a period of one year from the date of sale, and shall be the responsibility of the purchaser thereafter. This warranty applies to purchasers within and products used within the United States and Canada only. To obtain service under this warranty, within 30 days of the discovery of the defect, the end-user purchaser must contact the dealer or distributor from whom the product was purchased, or contact Guardair at the address shown below. The purchaser must provide a reasonable opportunity for inspection and investigation of the claim, prior to any repairs or alteration to the product. Until the claim is resolved, the purchaser must discontinue use of the product if continued use creates or exacerbates problems associated with, or incidental to, the defect. Proof of purchase will be verified by the selling party and applicability of the warranty will be determined by Guardair. Guardair will determine whether to provide replacement parts, provide repair service, or replace the product. Written approval from Guardair must be obtained before any warranty work is performed. Any repairs performed by persons other than Guardair or its authorized dealers or distributors will void this warranty.

QUESTIONS? Contact Guardair with questions concerning applications, operation, and performance of Guardair vacuums, regardless of the original purchase date.

WARNING!

Fire/Explosion Danger

Guardair vacuums, like all other electric and pneumatic vacuums can potentially generate static electric charges. The use of static conductive hoses in conjunction with Guardair vacuums are intended to control and eliminate static electric shocks only to the operators of the vacuums. Guardair vacuums are NOT APPROVED for use in any hazardous (classified) location, such as locations determined under NFPA 70 (National Electrical Code) to be Class I (flammable liquids, gases and vapors – includes all Class I Divisions and IEC Zones), Class II (combustible dust – includes all Class II Divisions and IEC Zones) and Class III (ignitable fibers and flyings – includes all Class III Divisions and IEC Zones).



Always wear eye and ear protection when operating this unit. Avoid bare skin.
Do not use on face including around the eyes, nose, mouth, or ears.

GUARDAIR®
INNOVATION IN THE AIR

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MADE IN THE USA

BH4000
Blind Hole Vacuum
Operating Manual



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Engineering Control Safety Solutions

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SET-UP AND OPERATION

Congratulations, you have purchased a Guardair Blind Hole Vac (BHV)! The BHV is the safest and most effective way to remove dust, powders and particulates from blind holes and crevices. This light-weight, rugged 5.5 gallon pneumatic vacuum runs on standard shop compressed air and mounts on any vertical surface, thus saving floor space. The BHV has no electrical motor to burn out, generates no sparks, and has no power cords to trip over. Maintenance is low and it's engineered for dry and wet applications with a liquid shut-off and canister drain. Emptying the polyethylene canister is quick and easy and the standard air filter is simple to replace.

For Your Safety

Make sure all compressed air connections to the compressed air supply are secure and the air line is turned off at the nearest valve. Disconnect compressed air connections only after the compressed air supply has been turned off and the air line had been vented by opening the valve on the vacuum head. NEVER disconnect a pressurized compressed air line. Always wear eye and ear protection when operating air tools and related equipment.

Air Supply

Adequate compressed air supply is essential to the proper performance of the BHV. Compressed air requirements include a 3/8" ID air line equipped with a 3/8" FNPT compatible connector capable of supplying a minimum of 33 cfm.

NOTE: *These requirements are for compressed air volume, not pressure. The recommended operating pressure for BHV is 80-120 psi, although the unit will operate at lower pressures with a corresponding reduction in performance.*

Set-Up

Mount the mounting plate as close as practical to the work area and hang the vac unit on the plate. Make sure the vacuum head is secured on the collection canister with both clamps locked. Attach vacuum hose portion of the vacuum/air hose assembly to the vacuum inlet on the canister and connect the air hose to air fitting on vacuum head. Connect the air-agitator brush attachment to the other end of the vacuum/air hose assembly by hooking up both the vacuum hose and the air line. Connect the BHV to air supply line.

Operation

Activate the unit by turning the shut-off valve to on position. The BHV is now on and will continuously vacuum until shut-off valve is turned off. Position the air-agitator brush attachment over any hole or surface that has material to be vacuumed. For stubborn crevices or deep holes, use the clear view window to aim the agitator tube and press the air-agitator lever. This will direct a jet of compressed air into the crevice, loosen the debris, render it airborne, and into the vacuum. When finished vacuuming, turn the shut-off valve to off position.

Emptying Collection Canister

To empty waste from the canister, turn the shut-off valve to off position, disconnect air line, remove unit from mounting plate, and set on a flat surface. Unfasten latches, lift vacuum head off canister, and empty debris. For liquids, loosen the drain valve, and drain into another container. **WARNING:** ***Do not loosen latches and remove canister while unit is mounted on mounting plate.***

Maintenance

The BHV is rugged and practically maintenance free, however the Standard Air Filter (MV2000F1) will need cleaning or replacement when dirty. Periodically check the Lid Gasket (MV2000G) and replace if worn or damaged. The Exhaust Bag (MV2000EB) provides added filter protection and serves as a muffler. Clean and replace if ripped or damaged.

The BHV comes with a 10" air-agitator tube that can be cut to a custom length to better suit your application. If needed, a 3-Pack of Air-Agitator Replacement Tubes (BH4000A4) can be purchased. No tools are required to change the agitator tube. First, remove the existing agitator tube from the handle. While pressing down on the black locking ring, pull the tube out. It helps to look through the clear view window while performing this step. Next, cut new tube to desired length. Finally, install the new air-agitator tube by simply pressing the tube into the locking ring. These parts can be purchased directly from Guardair or from your BHV distributor. See REPLACEMENT PARTS for a complete list.

Questions? Contact Guardair Customer Service at 800.482.7324 or email insidesales@guardair.com.

MOUNTING OPTIONS

Blind Hole Vac hangs on the mounting plate by two steel knobs **(fig 1)**. Rubber bumpers (included) space the plate away from the mounting surface so that the steel knobs can reach thru and slide into the two slots **(fig 2)**.

The rubber bumpers can be screwed onto the mounting plate to any desired location **(fig 3)**. As seen in **(fig 4)**, holes are usually in pairs, allowing fasteners to be placed close to a bumper. Though not necessary, this practice will keep the mounting plate flat. The thickness of the mounting plate plus the bumper is 5/8". Recommended fasteners include:



Lashing Strap – Max 2" width. Strap mounting plate to support columns or other structure without drilling.



Concrete Anchors



Carriage Bolts



Wood Lag Bolts



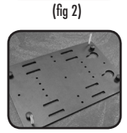
(fig 1)



(fig 2)

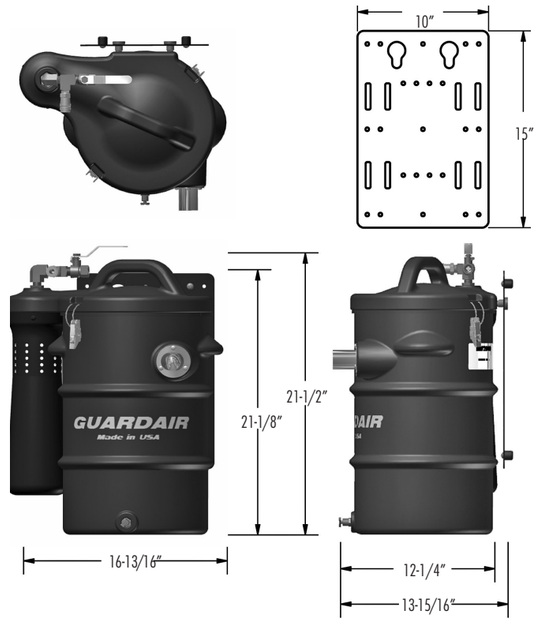


(fig 3)



(fig 4)

TECHNICAL SPECS



CAPACITY
NOMINAL: 5.5 GALLONS
DRY: 3.5 GALLONS
WET: 4 GALLONS

WEIGHT
VAC (EMPTY CARRYING WEIGHT): 13 LBS
MOUNTING PLATE: 4.5 LBS

MATERIAL
VACUUM UNIT: POLYETHYLENE
MOUNTING PLATE: STEEL

AIR REQUIREMENTS
AIR CONSUMPTION: 33 CFM
AIR PRESSURE: 80-100 PSI
INLET: 3/8" FNPT

VACUUM PERFORMANCE
VACUUM FLOW: 73 CFM
VACUUM HEAD: 77 IN H_2O
NOISE LEVEL: 88 DBA
(Measured Indoors @ 3')

FILTRATION
CARTRIDGE FILTER
77% EFFICIENT @ 0.8 MICRONS

VACUUM HOSE
SIZE: 1-1/2" ID
LENGTH: 5'

REPLACEMENT PARTS



ITEM	PART #	DESCRIPTION
1	MV2000MP	Vertical Mounting Plate
2	MV2000G	Lid Gasket
3	MV2000F1	Standard Air Filter — *Includes Washer (A) and Wingnut (B)*
–	MV2000F2	HEPA Air Filter — *Includes Washer (A) and Wingnut (B)*
4	MV2000EB	Exhaust Bag — *Includes Hose Clamp (C)*
5	2000A04	1 ½" ID x 5' Vacuum Hose Assembly
6	2000A12	Air-Agitator/Brush Attachment
7	BH4000W	Clear-View Window
8	BH4000AH	Air-Agitator Tube (3 Pack)





