

Trouble Shooting...

The Model 005 air-powered cleaning unit was expertly assembled and factory tested prior to shipping, and was found to meet the rigid standards of VAC-U-MAX. Improper installation may cause problems to be encountered.

- ◆ The compressed air hose used to power the unit must be a minimum 0.5" ID with a quick release disconnect also no less than 0.5" NPT. The compressed air hose should be free of restrictions that reduce the effective inside diameter of the air hose to less than 0.5". the air hose should be no longer than 50 feet. the hose should be inspected for damage, including any areas where the hose may have collapsed.
- ◆ It is necessary to ensure that there is at least 60 psig of air delivered into the unit, when the unit is on. With the manual control valve closed, set the compressed air to 60 psig. Open the unit's manual control valve. If a loss of air pressure is observed, the air supply line cannot supply enough air volume to satisfy the requirements of the unit because; 1) the air line is too small , or 2) the compressed air system capacity is insufficient. A loss of air pressure may also indicate that there are leaks in the compressed air system within the plant.

- ◆ If it is confirmed that there is sufficient compressed air volume to power the unit, a reason for the unit not working may be leakage. Check for leakage by placing a vacuum gauge over the inlet and 'dead ending" it. With the variable orifice needle in the "IN" position, the unit should achieve 8 inches of mercury. If the unit does not reach this level of vacuum, it may have a leak.

- ◆ Check for leaks in the container.
- ◆ Check cover gasket to ensure the cover fits securely on the container lip.
- ◆ Check the container for leaks which will prevent the unit from drawing a vacuum.
- ◆ Check filter and filter gaskets for leaks, tears or blinding (refer to Cleaning the Filter).

Preventative Maintenance...

The VAC-U-MAX Model 005 cleaning unit is ruggedly constructed for long and efficient service. However, a simple program of preventative maintenance will extend the life of the unit and its components. The extent and frequency of maintenance checks will vary with usage and the type of materials handled. The single best preventative maintenance procedure is the periodic replacement of the mufflers.

Warranty Information

RECONDITIONING

A factory reconditioning service is available for older VAC-U-MAX units. Contact the Sales Department.

ACCESSORIES

A complete line of vacuum cleaning accessories for general cleaning purposes is available. Request Bulletin 123.

VAC-U-MAX LIFETIME WARRANTY

VAC-U-MAX air powered vacuum cleaning units, exclusive of expendables, including filters, gaskets, mufflers, and hoses are warranted to be free of defects in material and workmanship for the life of the unit unless damage or defect is due to negligence or misuse by the buyer.

No equipment shall be returned to VAC-U-MAX under this warranty without prior written approval of VAC-U-MAX. Whenever possible, a field inspection will be performed by a VAC-U-MAX representative prior to equipment removal, ex-

cept where otherwise agreed. All shipments to VAC-U-MAX will be freight prepaid and equipment will remain the property and responsibility of the customer until an inspection at VAC-U-MAX (37 Rutgers Street, Belleville, NJ 07109) certifies that replacement or repair under warranty is called for.

VAC-U-MAX liability shall be limited to repairing or replacing the defective part. VAC-U-MAX shall not be liable for loss, damage, or any other expense arising from the use of its products or from any other case. This warranty is void if the equipment is modified in any manner without expressed written approval of VAC-U-MAX.

CAUTION

Air operated vacuum units eliminate electric and motorized sparking hazards. However, when handling potentially hazardous materials, or operating in hazardous areas, it is the responsibility of the user to clear the application of the equipment with a qualified safety authority prior to use. Volatile materials should never be picked up without first consulting the VAC-U-MAX Engineering Department. VAC-U-MAX assumes no responsibility for consequences of operation since actual use of equipment is beyond VAC-U-MAX control.



An Air-powered Vacuum Cleaner For Dry Material Applications Only

INSTRUCTIONS

FOR OPERATING MODEL 005 AIR-POWERED CLEANING UNIT

DESCRIPTION

The Model 005, air powered unit is built for economical cleanup of dry materials, when a compressed air supply is available or when the working environment prevents the use of an electric motor or mechanical engine. With few moving parts, the simple design of the Model 005 is reflected in the ease of its use. By injecting compressed air through the unit's venturi system, air is evacuated from the collection container creating a vacuum and air flow.

FEATURES

**Steel Cover Fabrication** - The Model 005 cover unit is a rugged, fabricated, heavy-duty metal cover, not cast. Few moving parts and simple design ensures years of effective use.

**Quiet!** - No motor noise. The Model 005 is equipped with a patented muffler system, which dampens the sound of discharging air, and keeps noise levels well below OSHA standards without the need for bulky auxiliary muffling system.

**Safe!** - Operated entirely by air, the VAC-U-MAX Model 005 eliminates sparking hazards normally associated with electric and motorized vacuum cleaners.

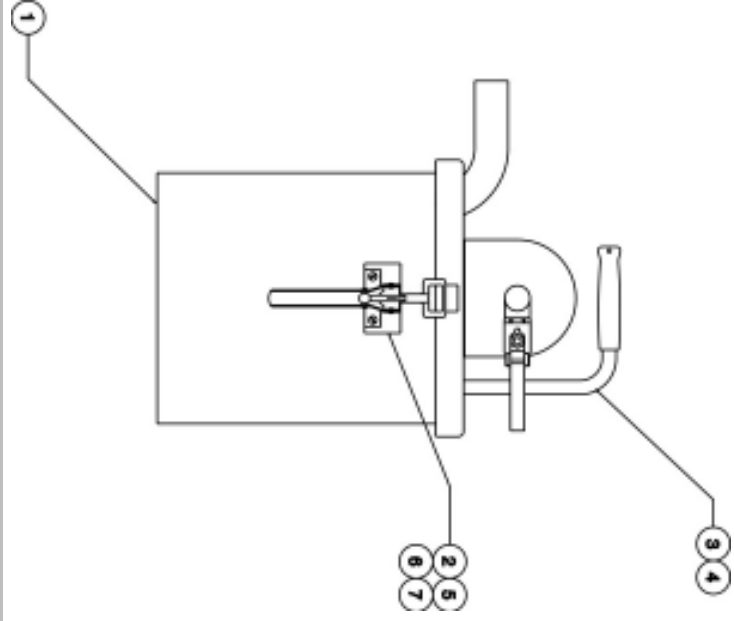
**Low Air Consumption** - Efficient venturi design provides maximum suction and air flow with minimum air consumption. A convenient needle valve on the variable orifice assembly provides easy adjustment of suction power from 8" Hg (110" water), as shipped from the factory, to 16" Hg (220" water) with an air supply at 60 psig.

**Vacuum Hose** - VAC-U-MAX recommends the use of a fifteen foot static conductive vacuum hose with end cuffs, and static conductive clips for most Model 005 cleaning applications.

**Effective Filtration** - A large cartridge filter ensures effective separation of fine pickup debris from the air stream. The filter is easily removed for maintenance or replacement.

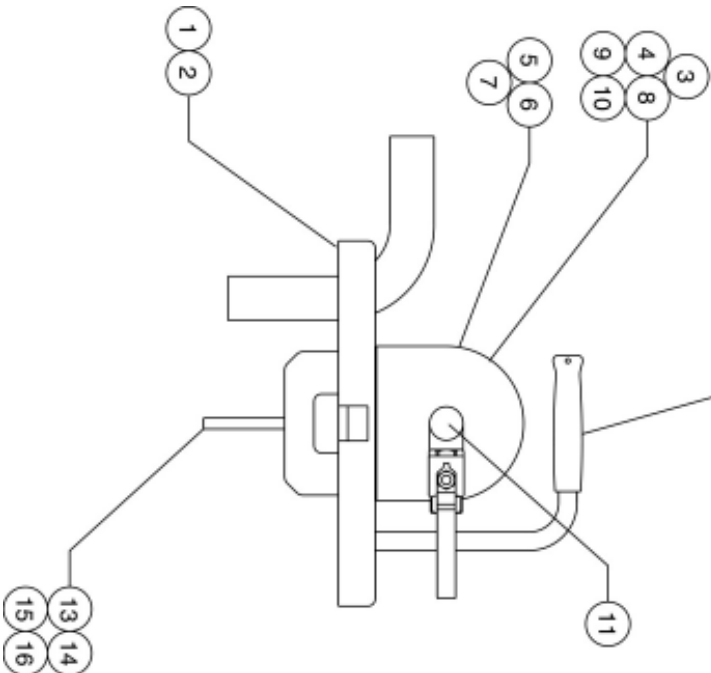
Major Parts Listing  
Complete Assembly

Catalog #: 61328(CS);61327(SS)				
Key#	Description	Qty	Cat. # (CS)	Cat. # (SS)
01	12D/5-GAL CONTAINER 005	1	38503	61229
02	KAISER DRAW CLAMP	1	21884	21884
03	COVER ASSEMBLY CLNU 1-JET	1	61325	61326
04	FILTER CARTRIDGE PAPER	1	12670	12670
05	ELASTIC STOP NUT	6	02197	06261
06	FLAT WASHER	6	02108	02116
07	PAN HEAD SCREW	6	02081	08758



Major Parts Listing  
Cover Assembly

Catalog #: 61325(CS);61326(SS)				
Key#	Description	Qty	Cat. # (CS)	Cat. # (SS)
01	COVER CLNU 005	1	61271	61272
02	GASKET USED WITH COVER	1	06994	06994
03	VENTURI WITH HARDWARE	1	21942	21942
04	VENTURI HOUSING	1	21555	21555
05	MUFFLER GUARD 1-JET	1	14337	14337
06	VENTURI EXHAUST MUFFLER	1	14375	14375
07	PAN HEAD SCREW	2	08758	08758
08	CAPSCREW	2	04059	07088
09	LOCK WASHER	2	02123	07089
10	HOUSING GASKET	1	03637	03637
11	ORIFICE ASSEMBLY	1	04455	04455
13	GUM RUBBER WASHER	1	15177	15177
14	FLAT WASHER	1	02112	02119
15	FOUR-PRONG KNOB	1	02455	02455
16	DISC WITH HOLE	1	16201	16201
17	HANDLE GRIP VINYL	1	60922	60922



Getting Started...

Take the Model 005 cleaning unit out of the box and remove all packaging materials, including the orange cap on the end of the material inlet.

Inspect the vacuum cleaning unit for loose or damaged parts. With the high pressure air supply OFF, connect the compressed air to inlet assembly (brass ball valve) using a minimum 0.5 inch air hose with proper NPT fitting.

**NOTE:** Using a smaller air hose with an adapter for a 0.5 inch connection will yield unsatisfactory performance of the cleaning unit and is not recommended. It is recommended that a VAC-U-MAX static conductive high pressure air hose be used to prevent static buildup on the cleaning unit.

**NOTE:** If your compressed air system uses PVC tubing, it is recommended that a separate ground wire kit be used to connect the cleaning unit cover to a nearby metal structure. PVC is not static conductive.

- ◆ Connect the vacuum hose to the material inlet.
- ◆ Turn on the compressed air supply and set for 60 psig minimum.
- ◆ Start the cleaning unit by turning the ball valve on the inlet assembly to the OPEN position.
- ◆ Begin cleaning procedure.

Cleaning the Dust Filters...

The VAC-U-MAX Model 005 dust filter prevents vacuumed material from entering the venturi and discharging into the atmosphere. Keeping the filter clean is important. Through general use or during specialty applications, dust will accumulate on the filter. An obstructed air filter will reduce air flow through the unit and impair the vacuum's capabilities. If the filter is torn, frayed or out of shape, it should be discarded.

Cleaning the Dust Filter Using a Reverse Air Flow:

- Turn on the manual air control valve.
- Remove the vacuum hose and place palm of hand over the material inlet. Hold hand in place until vacuum builds to a maximum (about five seconds).
- Without removing hand from inlet opening, close the ball valve. Maintain hand over inlet until no suction is felt. Result: a reverse air flow of air is drawn through the venturi system and filter thereby dislodging accumulated material.

Cleaning the Dust filter by Shaking or Brushing:

- Shut off the compressed air supply and remove the cover from the collection container.
- Loosen the filter retaining wing nut.
- Carefully remove the dust filter from the filter support cage.
- Clean by shaking and/or brushing in an approved and environmentally acceptable manner.

Changing the Mufflers...

Mufflers may eventually load with oil and/or moisture from the compressed air supply unless air is of instrument quality. Mufflers may also clog from vacuumed material escaping through the filter and venturi. Clogging creates back pressure and lowers the suction and efficiency of the unit. To replace the muffler, remove the (2) screws on the sides of the muffler guard and remove the guard. With guard off, the muffler is easily removed and discarded in an appropriate manner.

Enhancing Vacuum Performance...

The Model 005 is shipped from the factory with the variable orifice needle in the "IN" position providing 8" Hg (110" water) of vacuum. To increase the vacuum, screw the variable orifice needle counterclockwise to the "OUT" position. With the variable orifice needle "OUT", 16" Hg (220" water) is generated. The variable orifice needle is accessible by removing the yellow or black cap from the variable orifice assembly.

**NOTE:** Screwing "OPEN" the orifice needle increases the amount of compressed air consumed. It is necessary, therefore, to recheck the air pressure provided to the unit and readjust to 60 PSIG.

Vacuum Tips...

The Model 005 can be equipped with a number of different cleaning attachments for various cleaning applications (refer to VAC-U-MAX Bulletin 123). Experience has shown that the most effective way to clean a spill of dry material is to draw the cleaning attachment in a smooth and continuous motion toward the operator. When vacuuming a large volume of powder, always allow some air to enter the hose with the powder. Do not "bury" a hose or wand into a pile of powder.