



**WM. W MEYER & SONS, INC.**  
**SKOKIE, IL**

# **OPERATION AND MAINTENANCE MANUAL**

**MEYER HI-RANGE VAC**

291-F-001

**MANUFACTURED BY:  
WM. W. MEYER AND SONS, INC.  
8261 ELMWOOD  
SKOKIE, ILLINOIS USA 60077  
888-463-3908  
847-673-0312**

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#### GENERAL PROVISIONS AND LIMITATIONS

Wm. W. Meyer and Sons, Inc. (the "Company") warrants to each original retail purchaser ("Purchaser") of its new products from the Company or its authorized distributor that such products are at the time of delivery to the Purchaser, made with good material and workmanship. No warranty is made with respect to:

- 1) Any product, which has been repaired, disassembled, or altered in such a way in the Company's judgement, as to affect the product adversely.
- 2) Any product which has, in the Company's judgement been subject to negligence, accident, improper storage, or improper installation or application.
- 3) Any product whose performance or fitness for service is alleged to have been adversely affected due to the passage of, or exposure to materials, environments or operating conditions with abrasive or corrosive characteristics.
- 4) Any product which has not been operated or maintained in accordance with normal practice and with the recommendations of the Company.
- 5) Components or accessories manufactured, warranted and serviced by others.
- 6) Any reconditioned or prior owned product.

Claims for items described in (5) above should be made directly to the original manufacturer.

#### **WARRANTY PERIOD**

The Company's obligation under this warranty is limited to repairing or, at its option, replacing, during normal business hours at its Skokie plant or factory authorized service depot, any part which in its judgement proved to be not as warranted within the applicable Warranty Period as follows:

##### **Meyer Power Vacuums**

All "Meyer Power Vacuums", and consisting of all components manufactured by Wm. W. Meyer and Sons are warranted for 24 months from the date of initial use or date of shipment to the first purchaser.

Any disassembly or partial disassembly of the vacuum, or the failure to return the component part per Company instructions, will be cause for denial of warranty.

##### **OTHER ACCESSORY PACKAGES AND COMPONENTS**

All other components are warranted for 12 months from the date of initial use or 18 months from the date of shipment to the first purchaser, whichever ever comes first.

Engines, motors, compressors, controls and/or any accessory item furnished by the Company but manufactured by others are warranted only to the extent of the original manufacturer's warranty.

##### **LABOR AND TRANSPORTATION**

The Company will provide labor, by Company representative or authorized service personnel, for repair or replacement of any product or part thereof which in the Company's judgement is proved not to be as warranted. Labor shall be limited to the amount specified in the Company's labor rate schedule.

Labor costs in excess of the Company rate schedule amounts or labor provided by unauthorized service personnel is not provided for by this warranty.

All costs of transportation of product, labor or parts claimed not to be as warranted: to or from Skokie, Illinois or an authorized service depot, shall be borne by the Purchaser. The Company may require the return of any part claimed to be as warranted to its Skokie, Illinois plant or a facility as designated by Company, transportation to be pre-paid by Purchaser; to establish a claim under this warranty.

Replacement parts provided under the terms of the warranty are warranted for the remainder of the Warranty Period of the product upon which installed to the same extent as is such parts were original components thereof.

##### **RETURNED GOODS**

All claims must be communicated to a Company Sales/Service person prior to shipment at which time a Returned Goods Authorization number (RGA No.) will be issued. All shipping containers must be clearly marked with this RGA No. All returned goods must be shipped freight prepaid only and within 15 calendar days of authorization. Failure to do so may result in refusal of the shipment and/or warranty claim, delay in handling and/or additional charges.

##### **DISCLAIMER**

THE FOREGOING WARRANTY IS EXCLUSIVE AND IT IS EXPRESSLY AGREED THAT, EXCEPT AS TO TITLE, THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY.

THE REMEDY PROVIDED UNDER THIS WARRANTY SHALL BE THE SOLE, EXCLUSIVE AND ONLY REMEDY AVAILABLE TO THE PURCHASER AND IN NO CASE SHALL THE COMPANY BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES. UNDER NO CIRCUMSTANCES SHALL THE COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXPENSES, LOSSES OR DELAYS HOWSOEVER CAUSED.

No statement, representation, agreement, or understanding, oral or written, made by any agent, distributor, representative or employee of the Company which is not contained in this Warranty

Will be binding upon the company unless it is made in writing and executed by an officer of the Company.

This warranty shall not be effective as to any claim which is not presented within 30 days after the date upon which the product is claimed not to have been as warranted. Any action for breach of this warranty must be commenced within one year after the date upon the cause of action occurred.

Any adjustment made pursuant to this warranty shall not be construed as an admission by the Company that any product was not as warranted.

File number: 875-B-002

Effective: 2-1-97

***ADMINISTRATION:***

President	Wm. W. Meyer III	Ext. 223
Vice- President	Ken Nowak	Ext. 201

***SALES – COMMERCIAL PRODUCTS GROUP:***

National Sales Manager	Raymond J. Galuska	Ext. 235
Sales – Insulation Products	Alex Cvijovic	Ext. 231
Sales – Duct Cleaning	Phil Robichaud	888-463-3908
Sales	Kimberly Joice	Ext. 230

***FINANCE / CREDIT:***

Controller	Ken Nowak	Ext. 201
Credit Manager	Rosemarie Cozzi	Ext. 204

***ENGINEERING:***

Engineering Manager	Mark Dunn	Ext. 244
Product Engineer	Natalya Volchek	Ext. 258

***MANUFACTURING:***

Production Manager	Rich Gardner	Ext. 214
Operation Manager	Dan Meyer	Ext. 239

***SERVICE:***

Product Manager	Phil Robichaud	888-463-3908
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**PLEASE DO NOT HESITATE TO CONTACT ANY OF US. WE ARE HERE TO  
PROVIDE YOU THE BEST POSSIBLE SERVICE WE CAN**

**TELEPHONE: 847-673-0312**

**FAX: 847-673-5564**

**SECTION 2: SAFETY**

**2-1 GENERAL**

Safety is proudly built into every product manufactured by Wm. W. Meyer and Sons, Inc. Carelessness and / or negligence are the usual causes for personnel injury and equipment failure. Safety is very important to everyone so we insist that all operators read and understand this manual.

- 1) Equipment is to be operated by trained qualified personnel only.
- 2) Always read and follow the operating and safety procedures.
- 3) Do not operate without all guards and safety equipment installed in the proper location and in working order.
- 4) Do not disable any safety features. They are there for your protection.
- 5) Always use qualified personnel when repairing or maintaining the equipment.
- 6) This equipment must be used only for the purpose for which it was intended. Any other use will void the warranty and could cause bodily injury to the operator and costly damage to the equipment.
- 7) If a malfunction should occur, turn the machine off immediately and correct the problem, before restarting the machine.
- 8) Do not leave the equipment unattended while it is running.
- 9) Do not wear loose clothing or jewelry when operating this equipment. Long hair should be confined by a hat or a hair net.
- 10) Do not operate under the influence of alcohol or drugs.

**2-2 DUCT CLEANING SAFETY**

- 1) Limit the operation only to those personnel trained in the proper use and operation of the machinery.
- 2) Never operate the machine without proper ventilation.
- 3) Keep all clothing and your body away from the rotating equipment.
- 4) Obey all safety labels and instructions affixed to the machine.
- 5) Never run the machine speed faster than the factory settings.

If there are any questions as to the safe operation of this equipment, please do not hesitate to contact us at 1-800-797-8227

## **SECTION 3: SPECIFICATIONS**

### **3-1 PURPOSE**

The **Meyer Hi-Range Vac** is designed to safely and easily clean heating and cooling ducts. We recommend the owner / operator contact and become a member of the **NATIONAL AIR DUCT CLEANERS ASSOCIATION. (202) 737-2926**. Contact them if you have any questions concerning the proper approved mechanical cleaning methods.

Your **Hi-Range Vac** is usually sold as a package with a compressor and the proper duct cleaning accessories to do an effective job. If your **Hi-Range Vac** was not purchased as a system then you must have the following item to start cleaning ducts.

- A) Hose inlet adapter
- B) 8" or 10" hose
- C) When using more than one length of hose then you must use a hose connector.
- D) 8" or 10" duct collar (depending on the hose size)
- E) Air Compressor
- F) Duct Ball System
- G) Manual or Rotary Brushes
- H) Sheet Metal Screws
- I) Hole Saws
- J) Patches

If you do not have the cleaning accessories listed above call **Wm. W. Meyer and Sons** for assistance.

## **SECTION 4: PRE START-UP CHECKLIST**

### **4-1 RECEIVING YOUR HI-RANGE**

Immediately check the condition of your new **Hi-Range Vac** as received. The machine was shipped in perfect condition and should arrive the same way. If there are any visible problems, mark them on the Bill Of Lading that the carrier has and call his office immediately before the driver leaves your premises. As sympathetic as we are to any damages or shortages that occur in shipping **Wm. Meyer and Sons** has no legal recourse for such claims. Title to your machine was transferred to the carrier as soon as it left or dock. However, please let us know by phone and writing about any problems so that we can assist you with immediate replacement parts or information.

## 4-2 UNCRATING & INSTALLATION

Carefully remove all of the packing materials and check the parts against the Packing List. Your **Hi-Range Vac** was test-run and shipped with all fluids at the proper levels. Check them now and top off as required. Using a forklift or other means place the **Hi-Range Vac** in the truck body. The truck body must have two 48" side doors one on each side for proper engine ventilation. (Consult the factory for the proper location) Position the unit in the center of the body and drill one 1/8" in the center of the four mounting lugs. Check underneath the truck body and verify that the holes do not hit anything under the body. Drill out the holes to the proper size and bolt the unit in place. Drill a 1/4' dia hole next to the engine mount on the passenger side of the body. Run and attach the green ground wire to the truck chassis.

### **DANGER**

- 1) THIS MACHINE **MUST** BE GROUNDED
- 2) THE SIDE DOORS **MUST** BE OPEN DURING OPERATION

***FAILURE TO DO SO MAY LEAD TO AN ACCUMULATION OF STATIC ELECTRIC CHARGE AND VENTED FUEL FUMES THAT MAY IGNITE IN THE TRUCK BODY***

We recommend the truck be taken to a local muffler shop and the exhaust piping be fabricated from 2" rigid tubing. Do not run the pipe near anything flammable. Attach the muffler to the other end of the pipe and securely attach the muffler to the truck body cross members. Fill the gas tank. Your new **Hi-Range Vac** is now ready for operation.

## **SECTION 5 START-UP**

 **AT ALL TIMES KEEP YOUR HANDS, CLOTHING, ETC. AWAY FROM THE INLET AND DISCHARGE OF YOUR **HI-RANGE VAC**.**

- 1) Attach the hose to the inlet of the **Hi-Range Vac** using the clamp provided.
- 2) Additional hose lengths are then attached to the hose using hose connectors and clamps.
- 3) Drill the correct size hole in the ductwork and attach the hose and duct collar.
- 4) Attach the fuel tank to the engine. Keep the fuel line away from rotating or hot surfaces.



DO NOT OVERFILL THE GAS TANK. ALLOW ROOM FOR EXPANSION OF THE FUEL. DO NOT LET THE FUEL LINE COME IN CONTACT WITH THE EXHAUST SYSTEM.

- 5) Refer to the engine manual for the correct starting procedures for the engine. Start the engine.
- 6) Your **Hi-Range VAC** is now ready for service.



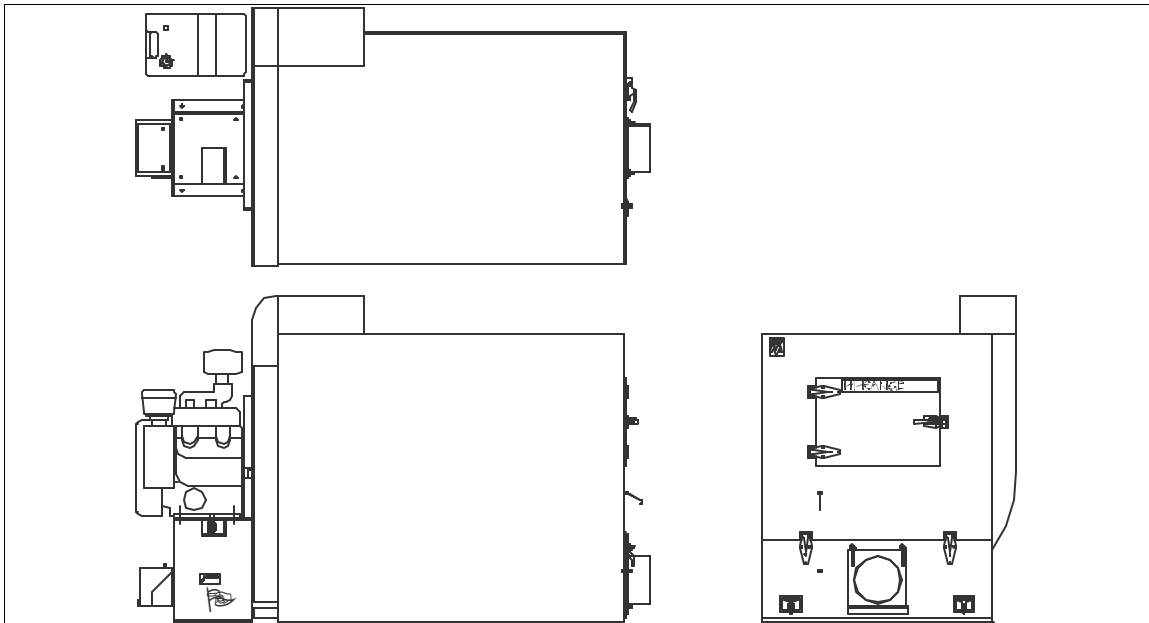
REMEMBER SAFETY FIRST!!!!!!

- 1) When not using the **Hi-Range Vac** move the throttle to the slow position.
- 2) Your **Hi-Range Vac** is a powerful vacuum and should be treated as such. Wooden boards, nails and other foreign materials other than dust are commonly found in duct systems. There is always the possibility of these objects penetrating the filter bag. Keep children and pets away from the machine while it is running.

## **SECTION 6: SHUT DOWN**

- 1) Move the throttle to the slow position. Run the machine for approx. 5 minutes.
- 2) Turn the engine off.
- 3) Disconnect the hose.

**SECTION 7: PARTS LIST / MAINTENANCE**



PART NUMBER	DESCRIPTION	QTY
421D-209	HI-RANGE ASSEMBLY	1
450U-001	65 HP ENGINE	1
450U-087	FUEL TANK	2
450HK030	12V BATTERY	1
450HK013	RED BATTERY CABLE	1
450HK014	BLACK BATTERY CABLE	1
450Q-030	TACHOMETER / HOURMETER	1
421D-001	FAN WHEEL	1
450TB078	FILTER BAG	50
450JF014	LATCH ASSEMBLY	2
450JF018	CLEAN OUT DOOR LATCH	2
450U-096	FUEL FILTER	1
450TA227	METAL MESH FILTERS 20" X 20"	4
450TA225	METAL MESH FILTERS 20" X 25"	6

## 7-2 MAINTENANCE

- 1) ENGINE: Refer to the attached service manual for the engine servicing.
- 2) BATTERY: The battery provided with your equipment is of the lead acid type. The battery cables should be checked daily for corrosion and tightness.
- 3) FAN HOUSING AND WHEEL: During the normal use of your **Hi-Range Vac**, no maintenance is required on the fan wheel or housing.

**If a problem, noise, or vibration should occur stop the equipment immediately!!** Contact the factory as soon as possible. Do not operate this equipment until it has been thoroughly checked by the factory.



The fan assembly has been balanced at the factory. If noises or vibrations are coming from the fan means for some reason the fan assembly has become out of balance. The assembly is rotating at 2100 rpm. If it becomes out of balance the possibility of the wheel exploding in the housing is very great if allowed to continue. The possibility of injury or death to the operator or any bystanders is very real.

Do not replace the original fan with any other fan other than the factory-approved replacement. Contact **Wm. W. Meyer** for replacement parts.

## **SECTION 8 TROUBLESHOOTING**

ENGINE: Refer to attached owner's manual for engine servicing and troubleshooting

NO SUCTION FROM THE END OF THE HOSE:

- 1) Stop engine
- 2) Check hoses for blockage
- 3) Check fan inlet for blockage
- 4) Check discharge for blockage
- 5) Inspect fan interior for blockage or damage.