



**mobl**vac® 

MULTIPURPOSE  
SUCTION UNIT



OPERATOR/MAINTENANCE  
M A N U A L

**Ohio Medical Corporation**

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**MEDICAL EQUIPMENT CLASSIFIED BY  
UNDERWRITERS LABORATORIES INC.  
WITH RESPECT TO ELECTRIC SHOCK,  
FIRE, MECHANICAL AND OTHER  
HAZARDS ONLY IN ACCORDANCE WITH  
UL 2601-1, AND CAN/CSA C22.2 NO.601.1**



**ATTENTION, CONSULT ACCOMPANYING DOCU-  
MENTS**



**TYPE B EQUIPMENT**

- 1. Protection against electric shock (5.1, 5.2) Class I, type B equipment.**
- 2. Protection against harmful ingress of water (5.3) ordinary equipment**
- 3. Degree of safety in the presence of a flammable anesthetics or oxygen.**

**NOT SUITABLE FOR USE IN THE PRESENCE OF  
FLAMMABLE ANESTHETICS OR OXYGEN.**

- 4. Mode of operation (5.6). Models 757000 and 767000 - continuous; Model 756000 and 766000 - intermittent and continuous.**

The purpose of the Moblvac® III is to perform all routine suctioning procedures. These may include tracheal and oral aspiration, wound drainage, gastrointestinal, and thoracic drainage.

The Ohio Medical Moblvac® III is a multipurpose suction unit designed for general use in the hospital, surgery center, and physicians offices. Because of the Moblvac® III's capacities, it can also be utilized as a back up to wall vacuum system. The Moblvac®'s constant and intermittent suction capabilities are driven by a fan cooled, rotary carbon vane pump. It comes equipped with a disposable exhaust filter, an in-line suction filter with 14" of tubing, a disposable 1200cc collection canister with mounting bracket, and a preventative maintenance kit.

This manual covers Moblvac® III in the following sections:

1.	INSTRUCTIONS FOR USE.....	Page 5
2.	MAINTENANCE .....	Page 9
3.	PERFORMANCE TEST & ADJUSTMENTS.....	Page 13
4.	TROUBLESHOOTING .....	Page 15
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If, after reading this manual you require additional information, please contact Ohio Medicals' Customer Service Department at 800-662-5822 or your local Ohio Medical distributor.

## 1. INSTRUCTIONS FOR USE

**IMPORTANT:** This device is for use only by persons properly trained in medical suction techniques and in the operations of suction equipment. Improper use could cause injury. Thoroughly read this operations manual to familiarize yourself with the Moblvac® III before using the device.

**DANGER: POSSIBLE EXPLOSION HAZARD IF USED IN THE PRESENCE OF FLAMMABLE ANESTHETICS.**

### PRIOR TO INITIAL USE

Upon receiving your new Moblvac® III, perform the following initial tests to ensure that your unit is in good working order and that no damage has occurred during shipment.

### SET UP INSTRUCTIONS

1. Visually inspect all components for physical damage that may have occurred during shipping.
2. After removing all components from their cartons, insert the backpole assembly into the back of the Moblvac® III base.
3. Align the two “collection mounting brackets” located at the top of the backpole assembly towards the front of the unit.
4. Tighten the 10-32 set screw located at the back of the base assembly with a 3/32” Allen wrench.
5. Connect the tubing from the bottom of the backpole to the safety overflow trap assembly.
6. Plug the power cord into an electrical outlet. Depress the “POWER” switch and listen to verify that the pump starts.
7. Verify that the vacuum port, located at the top of the backpole, is pushed down in the “OFF” position.
8. Switch the unit to “CONSTANT” suction with the “MODE SELECTION” switch.
9. Adjust the vacuum level by turning the vacuum regulator knob. Verify that the vacuum gauge reflects a change in vacuum level while turning the regulator knob.
10. Depress the “POWER” switch to turn the unit OFF (O).

**NOTE: 220V unit comes with a detachable power cord. Attach power cord to the appliance outlet located on the bottom of the unit before plugging unit in.**

11. Place a collection canister bracket (ring) in the mounting bracket of the backpole assembly or pedestal stand and insert a collection canister.

The Moblvac® III will use any collection device. However, if you are not using an Ohio Medical 1200cc disposable collection canister, make sure that the collection device that is being used is equipped with a safety overflow mechanism to protect the pump from accidental overflow.

Ensure that you have the appropriate collection device and suction tubing. Depending on the procedure, be sure that to have the appropriate Chest Drainage Unit, Nasal Gastric tube, aspirating tip, or wound drain for patient use. The Moblvac® III is now ready to place into service.

## **OPERATING INSTRUCTIONS**

Verify that a clean bacteriostatic exhaust filter, in line suction filter, collection canister, and the necessary tubing are installed on the Moblvac® III.

## **ORAL, NASAL AND TRACHEAL ASPIRATION**

1. Place a clean collection canister in the upper bracket, located on the backpole assembly of your Moblvac® III. Ensure that tubing is connected from the “VACUUM PORT ASSEMBLY” of the Moblvac® III to the “vacuum port” of the collection canister and from the “patient port” of the collection canister to the aspirating tip that is being used.
2. Verify that the vacuum port located on the “VACUUM PORT ASSEMBLY” is pushed down, in the “OFF” position.
3. Turn the Moblvac® III ON (I).
4. Switch the unit to “CONSTANT” suction with the “MODE SELECTION” switch.
5. Adjust the vacuum to the desired vacuum level by using the “VACUUM REGULATOR” Knob.
6. Open the vacuum port of the “VACUUM PORT ASSEMBLY” by pulling out the release knob and proceed with the suction procedure.

## **NASOGASTRIC INTERMITTENT SUCTIONING.**

1. Place a clean collection canister in the upper bracket, located on the backpole assembly of your Moblvac® III. Ensure that tubing is connected from the “VACUUM PORT ASSEMBLY” of the Moblvac® III to the “vacuum port” of the collection canister and from the “patient port” of the collection Canister to the Nasogastric tube that is being used.
2. Verify that the vacuum port located on the “VACUUM PORT ASSEMBLY” is pushed down, in the “OFF” position.

3. Turn the Moblvac® III ON (I).
4. Switch the unit to “CONSTANT” suction with the “MODE SELECTION” switch.
5. Adjust the vacuum to the desired vacuum level by using the “VACUUM REGULATOR” knob.
6. Switch the unit to “INTERMITTENT” suction with the “MODE SELECTION” switch.
7. Open the vacuum port of the “VACUUM PORT ASSEMBLY” by pulling out the release knob and proceed with the suction procedure.

## **PLEURAL DRAINAGE**

Moblvac® III can be utilized with any “Disposable Chest Drainage Unit” available on the market. Some chest drainage units come with a built in flow adjustment valve and some do not. The Ohio Medical Needle Valve Assembly is available for those units that do not offer this feature.

Follow all manufacturers’ directions on the Chest Drainage Unit for its setup and use.

### Chest Drainage Units Without Built In Flow Adjustment Valves.

Place the Chest Drainage Unit in the “optional” Ohio Medical Chest Drainage Unit Bracket. Ensure that tubing is connected from the “VACUUM PORT ASSEMBLY” of the Moblvac® III to the Ohio Medical Needle Valve Assembly which is mounted in the collection canister bracket of the backpole. Connect tubing from the Needle Valve Assembly to the vacuum port tubing of the Chest Drainage Unit.

## **OR**

### Chest Drainage units With Built In Flow Adjustment Valves.

Place the Chest Drainage Unit in the “optional” Ohio Medical Chest Drainage Unit Bracket. Ensure that tubing is connected from the “VACUUM PORT ASSEMBLY” of the Moblvac® III to the vacuum port tubing of the Chest Drainage Unit.

1. Verify that the vacuum port located on the “VACUUM PORT ASSEMBLY” is pushed down, in the “OFF” position.
2. Turn the Moblvac® III ON (I).
3. Switch the unit to “CONSTANT” suction with the “MODE SELECTION” switch.
4. Adjust the Moblvac® III to a low vacuum setting by using the “VACUUM REGULATOR” knob.

NOTE: the Chest Drainage Unit regulates the vacuum level provided to the chest cavity. Setting the Moblvac® to a low vacuum level ensures that you are producing sufficient vacuum to properly operate

the chest drainage unit.

## REPROCESSING AND CLEANING INSTRUCTIONS

1. Discard all contaminated parts after any suctioning procedure. These components may include the collection canister, disposable chest drainage unit, in-line filter, exhaust filter, and all suction tubing.
2. Wipe the surface of the unit clean with a mild antiseptic and a clean soft cloth.
3. Place a new collection canister, suction tubing, and filters with the Moblvac® III.
4. Check the air inlet filter at the back of the unit to see that it is clear of any dirt. If cleaning is necessary, vacuum the filter or, if dirt is excessive, wash in a mild antiseptic and thoroughly rinse in water. After the filter is completely dried, reinstall the filter.
5. Inspect the overflow trap assembly for any evidence of an accidental overflow. If an overflow has occurred, use the following guidelines.

**OVERFLOW** - Aspirant has contaminated the overflow trap assembly. Replace and/or clean parts according to procedures described in OVERFLOW CLEANING PROCEDURE below.

**SEVERE OVERFLOW** - Aspirant has contaminated the overflow trap assembly and the vacuum port tubing. Replace and/or clean external parts according to procedure described in OVERFLOW CLEANING PROCEDURE below. In addition, open the unit to assess the extent of the internal over flow.

## OVERFLOW CLEANING PROCEDURE

**NOTE:** THESE PROCEDURES ARE ONLY REQUIRED WHEN AN OVERFLOW HAS OCCURRED.

1. Discard all external contaminated tubing.
2. Clean the overflow trap assembly by unscrewing the cap and disassembling the various components. Wash all parts with mild antiseptic, dry, reassemble and verify that the float is in the down position and the cap seals tightly on the glass jar.
3. Replace all discarded tubing.
4. If the vacuum port tubing was contaminated, open the unit and inspect the following parts for contamination (see MAINTENANCE section below for opening the unit):

**All Internal Tubing:** If contaminated, replace.

**Regulator Assembly:** If contaminated, clean according to procedure on page 10.

**Solenoid Manifold Assembly:** If contaminated, clean according to procedure on page 11.

**Pump Assembly:** If contaminated, clean according to procedure on page 12.

## 2. MAINTENANCE

Tools required to service the Moblvac III.

- |                          |                          |
|--------------------------|--------------------------|
| (1) Pliers               | (1) Phillips screwdriver |
| (1) 11/32" nut driver    | (1) 5/64" Allen wrench   |
| (1) Adjustable wrench    | (1) 1/16" Allen wrench   |
| (1) Flathead screwdriver |                          |

To access the internal components of the Moblvac III, remove the two (2) Phillips head screws located in the rear of the unit near the back assembly. Tilt the cover forward.

## PREVENTATIVE MAINTENANCE

**CAUTION: NEVER DISASSEMBLE THE MOBLVAC III WHEN THE POWER CORD IS CONNECTED TO AN ELECTRICAL OUTLET.**

Preventative maintenance is recommended every six months. It is up to the user's discretion to clean the unit more often after frequent use or to lengthen the schedule if use is infrequent.

A Preventative Maintenance Kit is available which contains all necessary items and instructions for performing the preventative maintenance procedure.

## VACUUM REGULATOR REPLACEMENT

1. Tilt the shroud assembly forward off of the Moblvac® III base (make note of the orientation of all tubing and the regulator body).
2. Disconnect all three (3) tubing connections from the regulator body.
3. Use a small flathead screwdriver to loosen the set screw on the vacuum regulator knob. Unscrew and remove the vacuum regulator knob from the control panel.
4. Remove the outside locknut that secures the regulator to the control panel. The regulator can now be removed.
5. To mount the new regulator, first remove the knob from the body by loosening the set screw on the Vacuum regulator knob (Use a flathead screwdriver).
6. Mount the new regulator body to the control panel making sure the fittings are in the same orientation as the original, by re-installing the outside locknut.
7. Insert the regulator knob fully onto regulator adjusting shaft.
8. Tighten the set screw onto flat of shaft, until regulator knob is secure to shaft and cannot be pulled off by hand.

9. Reconnect all tubing.

### **VACUUM REGULATOR CLEANING**

1. Remove the vacuum regulator assembly as described in the VACUUM REGULATOR REPLACEMENT on page 9.
2. Discard all tubing.
3. Open the regulator, by removing the two screws on the cap using a phillips screwdriver.
4. Dis-assemble black cartridge from unit by unscrewing it from the brass adjusting screw and cap sub-assembly and remove two o-rings.
5. Clean the body, adjusting screw and cap, fittings and O-rings in a mild soap solution or isopropyl alcohol and dry all parts completely. Do not wash black cartridge.
6. Apply a light coating of a silicone based lubricant (i.e.: Dow Corning 111) to the O-rings and re-assemble back onto the black cartridge.
7. Reassemble the vacuum regulator and remount the regulator in the Moblvac® III.
8. Attach new vacuum tubing.

### **SOLENOID MANIFOLD REPLACEMENT**

1. From the inside of the Moblvac® III base, locate and remove (4) 11/32" nuts that hold the chassis into the base.
2. Disconnect the three (3) wires from the power cord assembly.
3. Disconnect the four (4) wires from the solenoid to the Printed Circuit Board (PCB).
4. Disconnect the tubing from the solenoid manifold and the long tubing from the vacuum regulator.
5. Without disconnecting any of the switch wires, carefully lift the chassis up and rest the chassis on its side in the base.
6. Locate the two (2) Phillips screws on the underside of the chassis that secure the solenoid manifold in place and remove them. Remove the solenoid manifold.
7. Mount the new solenoid manifold by securing the two Phillips screws on the underside of the chassis.

8. Mount the chassis back in the Moblvac® base.
9. Reconnect all tubing.
10. Reconnect the four (4) wires from the solenoids to the Printed Circuit Board and the three (3) wires from the power cord assembly.
11. Proceed to page 13 for PERFORMANCE TEST & ADJUSTMENTS to set vacuum & flow.

### **SOLENOID MANIFOLD CLEANING**

1. Remove the solenoid assembly as described in the solenoid manifold replacement section.
2. Using a flat head screwdriver remove both solenoids from the manifold.
3. Loosen the set screw (located on the top of the manifold block) and remove the needle adjustment valve.
4. Remove and disassemble the relief valve and check valve assembly from the solenoid manifold.
5. With a cotton swab and an isopropyl alcohol solution, clean all internal areas of the manifold, check valve, relief valve, and flow adjustment valve.
6. After thoroughly drying all parts, reassemble the solenoid manifold. Please note: make sure upon reinstallation the internal diaphragm for the check valve is facing away from the solenoid manifold.
7. Proceed to page 13 for PERFORMANCE TEST & ADJUSTMENTS to set vacuum & flow.

### **PUMP REPLACEMENT**

1. Disconnect the three (3) pump wires from the PCB and two (2) wires from the capacitor.
2. Disconnect the tubing from the fittings on the pump.
3. If necessary, loosen the mounting bracket for the capacitor and remove the capacitor.
4. Using an 11/32" nut driver, remove the four (4) nuts from the base of the pump. Remove pump.
5. To mount replacement pump, insert the pump onto the four (4) vibration bumper posts and secure the pump in place.
6. Replace the capacitor and secure the mounting bracket.
7. Connect the pump wires to the PCB and the capacitor.

8. Reconnect all tubing.
9. Proceed to PERFORMANCE TEST & ADJUSTMENTS on page 13.

## **PUMP CLEANING**

**NOTE:** The heart of the Moblvac® III is a rotary carbon vane pump. It is NOT recommended that the pump be disassembled for routine cleaning. However, if performance has been affected by the pump becoming contaminated with aspirant, or if an overflow problem has occurred, the following procedure should be performed.

1. Remove the pump assembly from the Moblvac® III as described above in the PUMP REPLACEMENT section.
2. Remove the three (3) pump head screws located on the pump head.
3. Remove the cover plate, shim, wear plate and the four (4) vanes.
4. Wash all exposed areas with an isopropyl alcohol solution.

**NOTE:** Before you reassemble the pump make certain that all components are completely dry. Rust is likely to form if any moisture is present.

5. Replace the vanes, wear plate, shim, and cover plate.
6. Replace and equally tighten the three (3) pump head screws.
7. Reinstall the pump assembly.

## **3. PERFORMANCE TEST AND ADJUSTMENT**

The Moblvac® III's maximum vacuum on both "Constant/Intermittent" and the flow rate on "Intermittent" are present at the factory. Due to various circumstances, readjusting these levels may be necessary. It is recommended that you verify the specifications and the performance of the Moblvac® III after:

- An overflow.
- Preventative maintenance.
- Any maintenance.

### **To verify pump & regulator operation:**

1. Plug the power cord into an electrical outlet. Turn the unit ON (I) and listen to verify that the pump starts.
2. Open the vacuum outlet located at the top of the backpole assembly and place your finger over the outlet.

3. Switch the unit to “CONSTANT” with the “MODE SELECTION” switch.
4. Adjust the vacuum level by turning the vacuum regulator knob. Verify that the vacuum gauge reflects a change in vacuum level while turning the regulator knob. Also verify that you feel vacuum at your finger tip.
5. Turn the unit OFF (O).

**The following steps will verify the flow and the vacuum specifications:**

1. Connect a suction flow measuring device to the vacuum outlet of the Moblvac® III.
2. Turn the unit ON (I).
3. Adjust the Moblvac® III to full vacuum and verify that both the flow and vacuum specifications match the figures found on page 17 of this manual.

**To adjust the vacuum level, locate the vacuum relief valve on the solenoid manifold.**

1. Turn the relief body (large knurled knob) counterclockwise to loosen while turning the locking ring (small knurled ring) clockwise. Do not remove the relief body, only loosen.
2. With a vacuum testing device attached to the vacuum outlet (located at the top of the backpole), turn the unit ON (I). Switch to “CONSTANT” suction and adjust the vacuum regulator knob, located on the control panel to full vacuum.
3. Slowly turn the relief body until you reach the vacuum specification found on page 16 of this manual. Once the desired vacuum level has been reached, and while holding the relief body in place, turn the locking ring counterclockwise until it locks the relief body in place.

**To adjust the flow level for intermittent, locate the flow adjustment valve on the end of the solenoid manifold. There is no adjustment to be made for the flow level on “CONSTANT”.**

1. With a flow testing device attached to the vacuum outlet, turn the unit ON (I). Switch to “INTERMITTENT” suction and adjust the vacuum regulator knob, located on the control panel to full vacuum.
2. With a 1/16” Allen wrench, loosen the set screw. Turn the flow adjustment valve until you reach the flow specification found on page 17 of this manual. Tighten the set screw.

#### 4. TROUBLESHOOTING

Problem	Cause	Correction
Low or no vacuum on running unit.	<ol style="list-style-type: none"> <li>1. Regulator is turned all the way off.</li> <li>2. An improper tubing connection or crimped tube in the system.</li> <li>3. Mechanical shut-off is activated in either the overflow trap assembly or the collection canister.</li> <li>4. Vacuum ports (Dual Vacuum Port) are turned OFF.</li> <li>5. Collection canister improperly installed or defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn regulator knob clockwise to start flow or increase vacuum.</li> <li>2. Check all external vacuum parts for crimped tubing. If still no vacuum check all internal tubing connections.</li> <li>3. If mechanical shut-off has been activated on a full canister, replace the canister. If the overflow trap assembly has been activated in the safety overflow jar. Follow <u>Overflow Cleaning Procedures</u> on page 7.</li> <li>4. Open vacuum outlet on the "Dual Vacuum Port".</li> <li>5. Check canister for any cracks. Verify that all ports on the canister lid are tight.</li> </ol>
Pump does not turn on when power switch is depressed.	<ol style="list-style-type: none"> <li>1. Unit is not plugged in.</li> <li>2. Faulty electrical connections.</li> <li>3. Pump has seized.</li> <li>4. The motor may be worn and cannot deliver the torque required to operate the pump, or the bearing is damaged and is locking the rotor in place.</li> <li>5. Blown fuse(s).</li> </ol>	<ol style="list-style-type: none"> <li>1. Plug the unit into an outlet.</li> <li>2. Make sure that all wires are secured tightly on the lugs and the lugs themselves are secure on the terminals.</li> <li>3. Clean pump according to <u>Pump Cleaning</u> on page 11.</li> <li>4. Replace the pump.</li> <li>5. Replace fuse(s). Also check #3 above.</li> </ol>
Low or no flow on INTERMITTENT mode.	<ol style="list-style-type: none"> <li>1. Faulty MODE SELECTION switch or its electrical connections.</li> <li>2. Faulty 3-way solenoid on manifold</li> <li>3. Flow adjustment valve for intermittent flow is set OFF or</li> </ol>	<ol style="list-style-type: none"> <li>1. Check that all wires are connected properly or replace switch.</li> <li>2. Check that the 3-way solenoid is operating properly.</li> <li>3. Adjust flow rate according to the directions found on page 12.</li> </ol>
High flow on INTERMITTENT model.	<ol style="list-style-type: none"> <li>1. Flow adjustment valve for intermittent flow is set too high.</li> <li>2. Faulty 2-way solenoid on manifold.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the flow rate according to the directions found on page 12.</li> <li>2. Check that 2-way solenoid is operating properly.</li> </ol>

<b>Problem</b>	<b>Cause</b>	<b>Correction</b>
gauge does not register vacuum	<ol style="list-style-type: none"> <li>1. Gauge is either not connected or is faulty.</li> <li>2. Blockage in vacuum lines</li> </ol>	<ol style="list-style-type: none"> <li>1. Check that tubing is properly connected between vacuum</li> <li>2. Check that the 2-way solenoid is not stuck in the pen position; or Check Valve is not stuck closed; of that the vacuum regulator is not completely turned off.</li> </ol>
High noise level.	<ol style="list-style-type: none"> <li>1. Unit enclosure is not properly closed.</li> <li>2. Pump is running a high pitch.</li> <li>3. Loose fittings on the exhaust side of the pump.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check that the unit is properly closed. Verify that the outer flanges of the edge trim are not stuck between the enclosures.</li> <li>2. Replace the vanes and clean the pump or replace entire pump.</li> <li>3. Check all fittings on the exhaust side of the pump for any loose</li> </ol>

## 5. DEVICE SPECIFICATIONS

### PUMP

Rotary Carbon vane type.

### PERFORMANCE

Vacuum Range: Up to 380mm Hg  
 Free Air Flow: 36 LPM minimum (constant mode)  
 8 LPM (intermittent mode)

### CONTROLS

Vacuum Regulator: Rotary type on panel.  
 Vacuum Gauge: Calibrated to 0-300mm/15" Hg

### ELECTRICAL REQUIREMENTS

AC: 120V, 60Hz, 3A  
 220V, 50Hz, 2A  
 Fuses: Slow blow.

### COLLECTION DEVICE

Canister: Disposable plastic with  
 mechanical shutoff.  
 Capacity: 1200cc standard.  
 Tubing: 14" with bacterial filter.

### PHYSICAL DIMENSIONS

Overall Height: 28"  
 Overall Width: 14"  
 Overall Depth: 16"  
 Weight: 35 lbs.

ISO 13485



FM 33489

110 VAC



MEDICAL EQUIPMENT  
 LISTED 544U



9N56

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 UL 2601-1, AND CAN/CSA C22.2 NO. 601.1

EXPLODED VIEW FOR  
120 VAC 60 HZ. UNIT ONLY

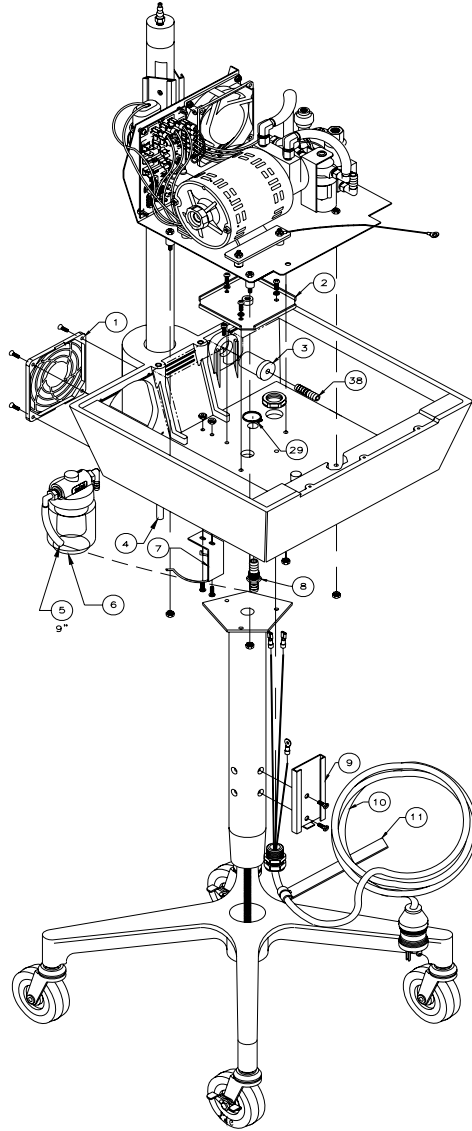


FIGURE 1

# EXPLODED VIEW FOR 120 VAC 60 HZ. UNIT ONLY

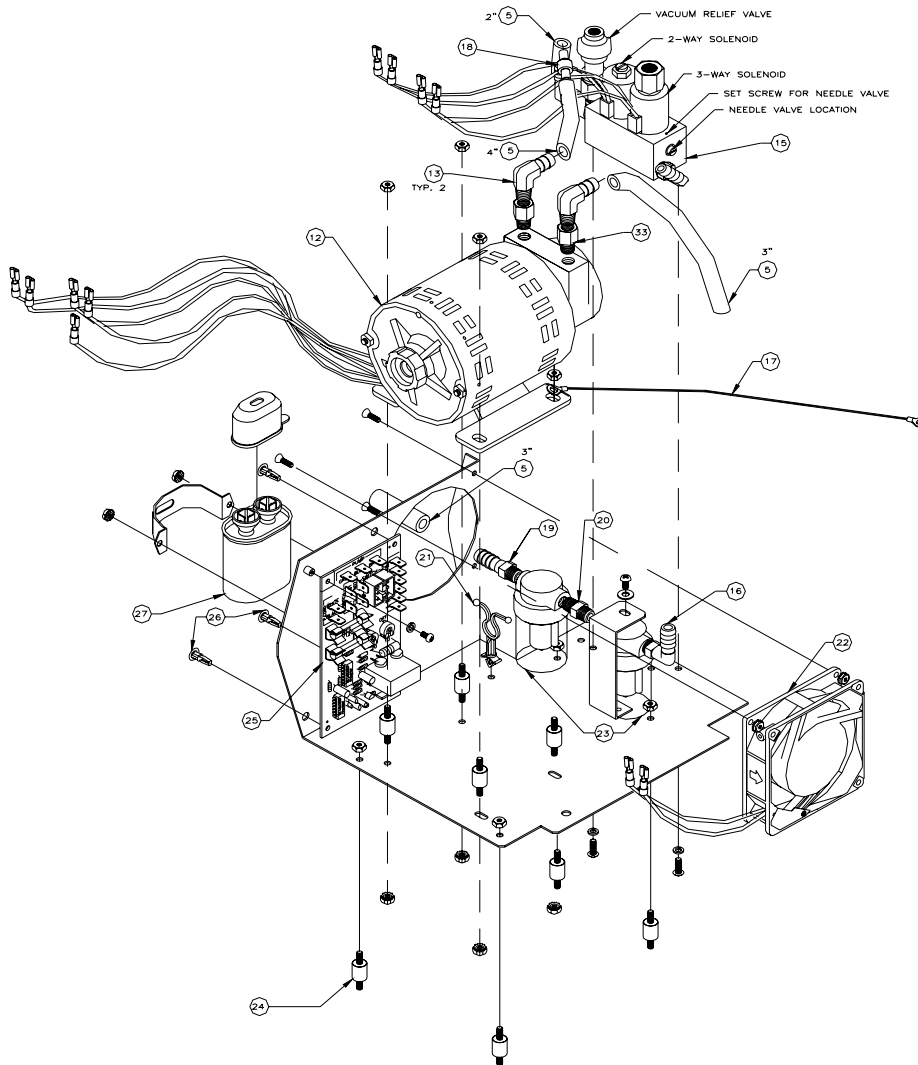


Figure 2

# EXPLODED VIEW FOR 120 VAC 60 HZ. UNIT ONLY

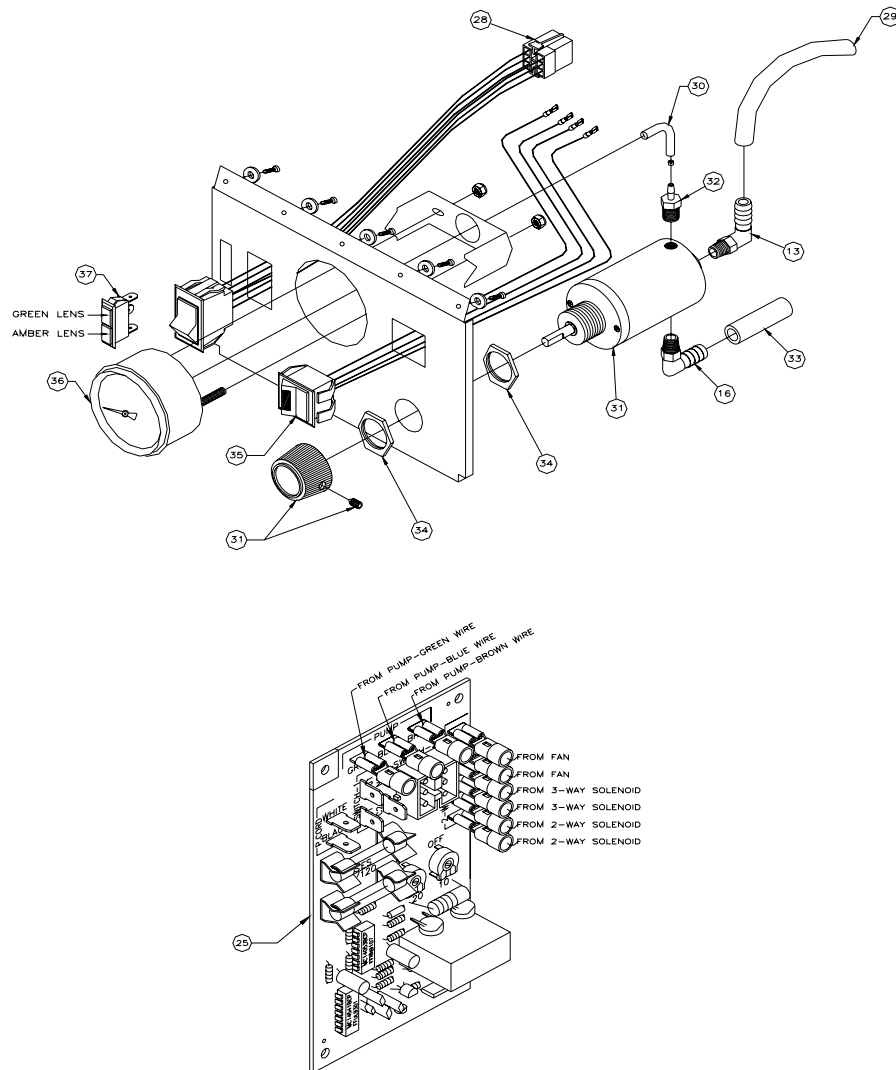


FIGURE 3

MOBLVAC 120 VAC PARTS LIST REFERENCE FIGURES 1,2,3 ONLY			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	756303	FILTER ASSEMBLY, INLET
2	1	756309	BRACKET, BASE SUPPORT
3	1	AI5581	MOUNT, DISPOSABLE FILTER
4	33	703501	TUBING, VINYL 3/8ID X 9/16OD
5	45	AI5100162	TUBING SILICONE 5/16"ID
6	1	756400	OVERFLOW TRAP ASSEMBLY
7	1	756310	BRACKET, OVERFLOW TRAP
8	1	756318	CONNECTOR, BRASS PANEL FOR 3/8" TUBING
9	1	756307	BRACKET, COLLECTION CANISTER
10	1	756020	8' POWER CORD REPLACEMENT KIT, MOBLVAC III
11	1	754004	STRAP, ONE WRAP VELCRO
12	1	AI5511	KIT, PUMP REPLACEMENT
13	2	AI5100102	FITTING, BARB 1/8NPT X 3/8 ID BRASS
14	1	703002	FITTING, ELBOW 3/8 BARB X 1/8 NPT BLACK
15	1	756320	SOLENOID MANIFORLD ASSEMBLY, MOBLVAC III
16	2	703003	FITTING, ELBOW 3/8 BARB X 1/8 NPT WHITE
17	1	756358	CABLE, SHROUD RESTRAINT
18	1	756359	VALVE CHECK
19	1	703010	FITTING, 1/8 NPT X 5/16" BARB
20	1	AI5657R	HEX NIPPLE
21	1	756354	MOUNT, STANDOFF WIRE W/LOCK
22	1	756260	KIT, FAN, MOBLVAC III
23	2	AI5526-01	MUFFLER EXHAUST BOTTLE
24	8	756353	BUMPER, VIBRATION 3/8"L STUDS
25	1	756355	TIMER, CIRCUIT BOARD MOBLVAC III C/I 120V
26	3	AI5100073	SPACER, PC BOARD
27	1	756370	CAPACITOR KIT
28	1	756205	SWITCH ASY, C/I
29	1	756321	RING, RETAINING 1/2" SHAFT
30	5	AI8023	TUBING, SILICONE 1/8 ID
31	1	756530	KIT, REGULATOR ASSEMBLY MBV III
32	1	AI5591	CONN 1/8 NPT X 1/8 BARB
33	2	AI5543-A	EXTENSION 1/8 MPT X 1/8 FPT
34	2	AI3609	LOCKING NUT, REGULATOR
35	1	756204	SWITCH, POWER
36	1	756250	VACUUM GAUGE KIT 0-300 MMHG
37	1	756214	LIGHT, NEON INDICATOR
38	1	703009	FITTING, TUBING CONNECTOR

REPLACEMENT KITS	PARTS INCLUDED
756250	GAUGE
VACUUM GAUGE KIT 0-300 MMHG	MOUNTING BRACKET
	MOUNTING NUTS
756530 REGULATOR KIT	REGULATOR
	FITTING, ELBOW 3/8 BARB X 1/8 NPT WHITE
	FITTING, ELBOW 3/8 BARB X 1/8 NPT BLACK
	CONN 1/8 NPT X 1/8 BARB
756370 CAPACITOR KIT	CAPACITOR 5 MFD
	CAPACITOR TERMINAL COVER BOOT
	MOUNTING STRAP D
AI5511 VACUUM PUMP REPLACEMENT KIT	VACUUM PUMP
	FITTING, BARB 1/8NPT X 3/8 ID
	EXTENSION 1/8 MPT X 1/8 FPT
AI5801ASY P.M. MOBLVAC	FILTERS
	TUBING

EXPLODED VIEW FOR  
220 VAC 50 HZ. UNIT ONLY

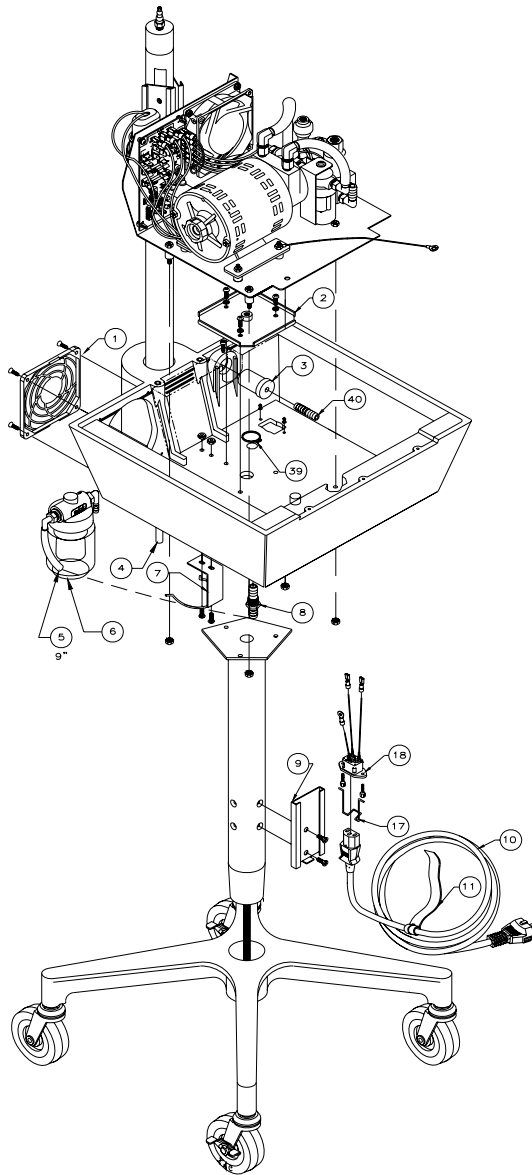


FIGURE 4

## EXPLODED VIEW FOR 220 VAC 50 HZ. UNIT ONLY

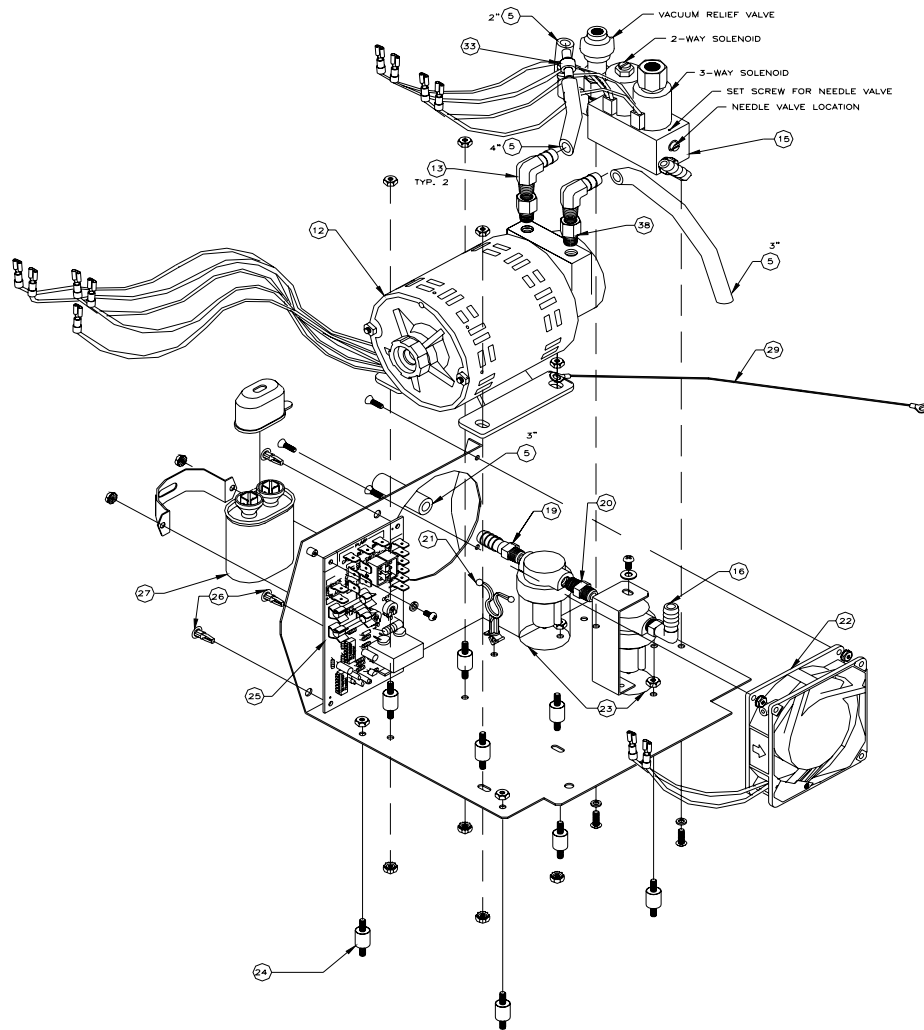


FIGURE 5

# EXPLODED VIEW FOR 220 VAC 50 HZ. UNIT ONLY

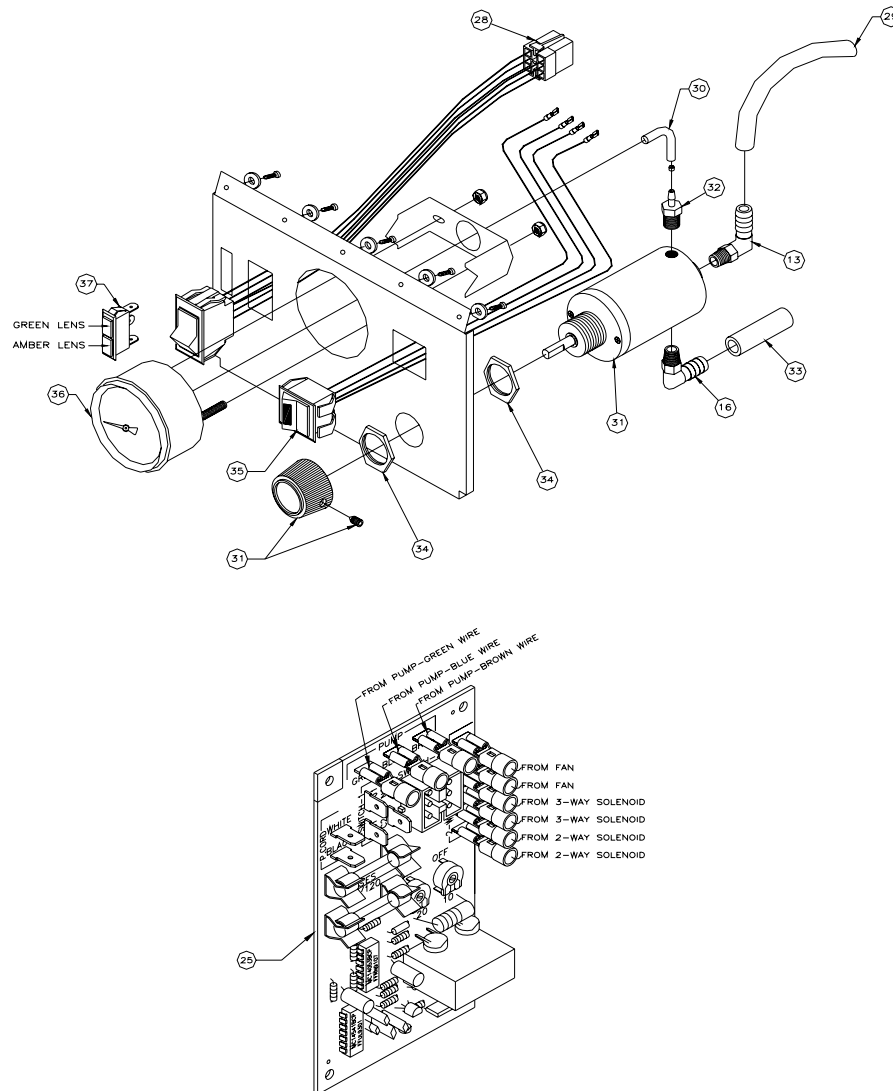


FIGURE 6

MOBLVAC 220 VAC PARTS LIST REFERENCE FIGURES 4,5,6 ONLY			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	756303	FILTER ASSEMBLY, INLET
2	1	756309	BRACKET, BASE SUPPORT
3	1	AI5581	MOUNT, DISPOSABLE FILTER
4	33	703501	TUBING, VINYL 3/8 ID X 9/16 OD
5	45	AI5100162	TUBING SILICONE 5/16"ID
6	1	756400	OVERFLOW TRAP ASSEMBLY
7	1	756310	BRACKET, OVERFLOW TRAP
8	1	756318	CONNECTOR, BRASS PANEL FOR 3/8" TUBING
9	1	756307	BRACKET, COLLECTION CANISTER
10	1	766401	POWER CORD, 220 VAC DETACHABLE
11	1	754004	STRAP, ONE WRAP VELCRO
12	1	766414	KIT, PUMP REPLACEMENT 220 VAC
13	2	AI5100102	FITTING, BARB 1/8NPT X 3/8 ID BRASS
14	1	703002	FITTING, ELBOW 3/8 BARB X 1/8 NPT BLACK
15	1	766320	SOLENOID MANIFOLD ASSY, MOBLVAC III 220 VAC
16	2	703003	FITTING, ELBOW 3/8 BARB X 1/8 NPT WHITE
17	1	766412	KIT, RETAINER CLIP
18	1	766413	KIT CONNECTOR, BUSINESS MACHINE
19	1	703010	FITTING, 1/8 NPT X 5/16" BARB
20	1	AI5657	HEX NIPPLE BRIGHT NICKEL PLATED
21	1	756354	MOUNT, STANDOFF WIRE W/LOCK
22	1	766415	KIT, FAN 220 VAC
23	2	AI5526-01	MUFFLER EXHAUST BOTTLE
24	8	756353	BUMPER, VIBRATION 3/8"L STUDS
25	1	766304	TIMER, CIRCUIT BOARD MOBLVAC III C/I 220 VAC
26	3	AI5100073	SPACER, PC BOARD
27	1	766416	KIT, CAPACITOR 3 MFD
28	1	756205	SWITCH ASY, C/I
29	1	756358	CABLE, SHROUD RESTRAINT
30	5	AI8023	TUBING, SILICONE 1/8 ID
31	1	756530	KIT, REGULATOR ASSEMBLY MBV III
32	1	AI5591	CONN 1/8 NPT X 1/8 BARB
33	1	756359	VALVE CHECK
34	2	AI3609	LOCKING NUT, REGULATOR
35	1	766214	SWITCH, POWER 220 VAC
36	1	756250	VACUUM GAUGE KIT 0-300 MMHG
37	1	766207	LIGHT, NEON INDICATOR 220 VAC BLUE/WHITE
38	2	AI5543-A	EXTENSION 1/8 MPT X 1/8 FPT
39	1	756321	RING, RETAINING 1/2" SHAFT
40	1	703009	FITTING, TUBING CONNECTOR

REPLACEMENT KITS	PARTS INCLUDED
756250 VACUUM GAUGE KIT 0-300 MMHG	GAUGE MOUNTING BRACKET MOUNTING NUTS
756530 REGULATOR KIT	REGULATOR FITTING, ELBOW 3/8 BARB X 1/8 NPT WHITE FITTING, ELBOW 3/8 BARB X 1/8 NPT BLACK CONN 1/8 NPT X 1/8 BARB
766416 CAPACITOR KIT	CAPACITOR 3 MFD CAPACITOR TERMINAL COVER BOOT MOUNTING STRAP D
766414 VACUUM PUMP REPLACEMENT KIT	VACUUM PUMP FITTING, BARB 1/8NPT X 3/8 ID EXTENSION 1/8 MPT X 1/8 FPT
AI5801ASY P.M. MOBLVAC	FILTERS TUBING

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