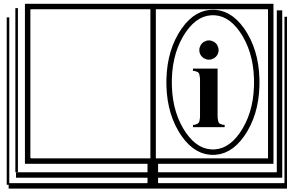





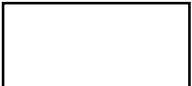
UTILITY VAC
77-000-01



	PIPE & VALVE
	MAINTENANCE PRODUCTS
Mod. 77-000-001 S/N: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
E.H. WACHS COMPANIES 100 Shepard St. Wheeling Il. 60090	

Part Number: _____

Revision No: 1



WACHS UTILITY VAC

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WACHS UTILITY VAC

SECTION I

SAFETY INSTRUCTIONS

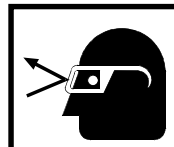
The E. H. Wachs Company takes great pride in manufacturing safe, quality products with user safety a priority. The E.H. Wachs Company recommends that all users comply with the following safety rules and instructions when operating our equipment. For your safety and the safety of others, read and understand these safety recommendations and operating instructions before operating.



**Read the Following thoroughly
before proceeding.**

1. **READ THE OPERATING MANUAL!!** Reading the setup and operating instructions prior to beginning the setup procedures can save valuable time and help prevent injury to operators or damage to machines.
2. **INSPECT MACHINE & ACCESSORIES!** Prior to machine setup physically inspect the machine and it's accessories. Look for worn tool slides, loose bolts or nuts, lubricant leakage, excessive rust, etc. A properly maintained machine can greatly decrease the chances for injury.
3. **ALWAYS READ PLACARDS & LABELS!** All placards, labels and stickers must be clearly legible and in good condition. Replacement labels can be purchased from the manufacturer.
4. **KEEP CLEAR OF ROTATING PARTS!** Keep hands, arms and fingers clear of all rotating or moving parts. Always turn machine off before attempting any adjustments requiring contact with the machine or it's accessories.
5. **SECURE LOOSE CLOTHING & JEWELRY!** Loose fitting clothing, jewelry; long, unbound hair can get caught in the rotating parts on machines. By keeping these things secure or removing them you can greatly reduce the chance for injury.
6. **KEEP WORK AREA CLEAR!** Be sure to keep the work area free of clutter and nonessential materials. Only allow those personnel directly associated with the work being performed to have access to the area if possible.

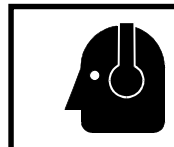
ALWAYS WEAR PROTECTIVE EQUIPMENT:



WARNING

Impact resistant eye protection must be worn while operating or working near this tool.

For additional information on eye and face protection, refer to federal OSHA regulations, 29 Code of Federal Regulations, Section 1910.133., Eye and Face Protection and American National Standards Institute, ANSI Z87.1, Occupational and Educational Eye and Face Protection. Z87.1 is available from the American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018.



CAUTION

Personal hearing protection is recommended when operating or working near this tool.

Hearing protectors are required in high noise areas, 85 DBA or greater. The operation of other tools and equipment in the area, reflective surfaces, process noises and resonant structures can substantially contribute to and increase the noise level in the area. For additional information on hearing protection, refer to federal OSHA regulations, 29 Code of Federal Regulations, Section 1910.95, Occupational Noise Exposure and ANSI S12.6 Hearing Protectors.

WACHS UTILITY VAC

SECTION II

MACHINE SPECIFICATIONS

VALVE MAINTENANCE SYSTEMS

Clean-out and exercise all valve boxes and valves with a complete maintenance system!

The **Utility Vac** can be ordered to meet specific customer needs or in conjunction with Wachs Portable Valve Operators, pipe cutters and other options such as water jet systems can be included.

- *Clean out valve boxes fast.*
- *Turn all valves safely and easily...for emergency or routine maintenance*
- *Automatically capture valve data. Download to utility computer system*
- *Operate other hydraulic tools*



Custom paint to match utilities vehicle fleet, with integrated wand storage system.



Curbside dump vac with 180° swiveling TM-7 valve operator.



Skid mounted unit with optional water jet system.



TM-7 valve operator with vertical tank Trav-L-Vac 300.

POWER SOURCE:	20 H.P. Kohler air cooled gasoline engine (Standard) Optional: 27 H.P. Kohler air cooled gasoline engine with heavy duty air cleaner. (Required with pressure washer system.)
CONTROLS:	Curbside Control Panel includes: Tachometer, Hour Meter, Vacuum Break, Oil Sentry Light, Vacuum Gauge, Dump Switch, Warning Strobe Switch and optional Pressure Washer Switch.
BLOWER:	Belt drive, positive displacement rotary lobe impeller with 500 cfm @ 12" Hg max vacuum. 14,000 FPM air flow through 3" hose.
FILTRATION:	3 stage Filtration consisting of a heavy material drop out debris tank, a self-contained primary and secondary filter with 10 micron polyester reusable cartridge. All filters, washable with mild soap and water.
Optional Filtration:	Cyclone pre filter to remove medium dust particles prior to final filtering. (Recommended for high dust applications)
SPOILS TANK:	200 liquid gallon holding capacity. Top hinged full opening 42" diameter dump door with sure seal square gasket. 6" mechanical ball shut off and 3" drain valve.
DUMPING:	Twin cylinder electric over hydraulic dump system with the new slide and tip system for mounted applications. This unique system moves the tank 12" to clear the bed of the truck. Automatically tilts 60°. Designed to clear the truck bed while not compromising clearance.
PRESSURE WASHER:	(Only available with the 27 H.P. engine) 2.5 gpm, 3000 psi pressure washer with thermal overload protection. 5 gallon antifreeze tank, 125 gallon water holding tank and antifreeze/water selector valve.
TRAILERS:	5'x8' with single axle electric brakes rated at 3500# GVW. All steel construction with diamond plate metal deck. (Pintle or Ball hitch.) Optional Trailer: (Required when purchasing a pressure washer system.) 5'x12' with dual axle electric brakes rated at 7000 GVW. All steel construction with diamond plate metal deck. (Pintle hitch only.)
FINISH:	2 part urethane.
DIMENSIONS:	Power Plant: 54" wide by 46" Long, Tank: 45 1/2" wide by 55" long, Total Foot Print: 55" wide by 101" long.
HOSE:	3" x 20'
WAND:	3" x 6 1/2'
Optional Wands:	2" x 6 1/2", 1 1/4" 6 1/2", 3" Excavation Wand (emulsifier).

PRE-VACUUM CHECKLIST:

1. Insure all scheduled maintenance has been properly performed. See maintenance section in manual or refer to maintenance decal on *UTILITY VAC*.
2. Insure that the hitch assembly has been properly attached to the towing vehicle.
3. Check trailer brake lights and turn signals.
4. Check *UTILITY VAC* fuel level.
5. Make certain battery is charged and ready to start *UTILITY VAC* engine.
6. Make certain suction hose and suction tubes are stored on board *UTILITY VAC*

UTILITY VAC SET UP PROCEDURE:

1. Position *UTILITY VAC* near work area.
2. Connect coupling of suction hose to coupling on vacuum inlet port. (Figure 1)
3. Connect coupling on suction hose to coupling on suction tube (Figure 2).
4. Once assembly of these components is complete, unit is ready for operation.



FIGURE 1

UTILITY VAC OPERATING PROCEDURE:

FIGURE 2

1. Start engine and allow to idle several minutes to properly warm up. (Figure 3)
2. Bring engine RPM up to full running speed.
3. Insert suction tube into valve box and drop down until contact is made with debris. Continue to extract debris until valve box is empty or until holding tank is full.



FIGURE 3

4. If the unit fills with liquid to its limit, the high liquid level float will automatically shut off the air flow. Before restarting unit, the holding tank must be drained. If this is not done, unit will not operate.
5. After the vacuum operation is over, run engine for several minutes to clear out any moisture which may have reached the blower.
6. Consult the manufacturer for special operating suggestions concerning use in freezing weather.

UTILITY VAC DUMPING PROCEDURES:

Liquids:

1. Shut down engine.
2. Position vacuum system over designated dumping area.
3. If the material collected is primarily liquid, the holding tank drain valve should be used to remove holding tank contents (Figure 4).
4. Once liquid has drained, open dump gate and remove any remaining debris. (Figure 5)
5. Clean primary filter prior to next use. Filter can be cleaned with only water, however, mild soap and water are recommended if possible.



FIGURE 4



FIGURE 5

Solids:

1. Shut down engine.
2. Position vacuum system over designated dumping area.
3. If the material collected is primarily solid, first open the holding tank drain plug to allow any trapped liquids to escape. Back tank up to dump position. Open tank door and proceed to the 45 degree dump position.
4. It may be necessary to remove any remaining debris from the holding tank manually.
5. Clean primary filter prior to next use. Filter can be cleaned with only water, however, mild soap and water are recommended if possible.

SECTION III

SET-UP AND OPERATION (cont.)

OPERATING TIPS

1. While excavating water, always be sure to submerge the suction tube completely.
2. If debris is packed in the bottom of the valve box, rotate the suction tube assembly back and forth to break up debris.
3. For solid debris, pouring water into the valve box greatly speeds up debris removal.
4. If suction tube on the *UTILITY VAC* becomes clogged, use a rod with a smaller diameter than the inside of tube to assist in blockage removal.
5. For optimal efficiency, flush out suction tubes and suction hoses prior to storage.
6. Properly performing all scheduled operators maintenance at the designated times will insure continued peak performance and increase the longevity of the *UTILITY VAC* unit.

SECTION IV

MAINTENANCE

FILTER REMOVAL

1. Unscrew the four wing nuts that secure the filter cover to the filter housing. Remove cover (Figure 6).
2. Unscrew wing nut that secures filter to housing. Remove filter (Figure 7).



CAUTION: DO NOT remove filter while machine is operating. Always shut down vacuum during maintenance.



FIGURE 6



FIGURE 7

WACHS UTILITY VAC

SECTION IV

MAINTENANCE (cont.)

BLOWER MAINTENANCE SCHEDULE

WEEKLY

CHECK OIL LEVEL:

Stop blower. Wait 5 minutes. Remove oil breather and oil level plug. Add oil until oil runs out level holes. Replace breather and level plugs.

GREASE BEARINGS:

Grease drive end bearings with NLGI grade 2 EP grease in a pressure gun. Force into housing through grease fittings until clean grease emerges from relief fittings. Wipe clean all grease from around relief fittings to prevent spraying onto drive belts.

EVERY 1,000 HOURS

CHANGE OIL.

NOTES

Change oil after initial 100 hours.
Recommended oil: Mobil DTE BB, Amoco 220, Texaco R&O 220, or equivalent.

FILTER MAINTENANCE SCHEDULE

DAILY

Clean primary filter.

WEEKLY

Clean pre-filter

NOTES

Frequency of cleaning will increase under severe operating conditions.
All filters are washable with mild detergent and water.
Damaged filters must be replaced to prevent

GENERAL MAINTENANCE SCHEDULE

DAILY

Check suction hoses for any abrasions, holes, kinks or damaged connectors. Replace as needed.

Verify that all dump gate and filter lid camps are secured tight. Adjust if necessary.

Clean any debris from dump door seal.

Verify that all trailer and/or accessory lights are functioning properly. Repair or replace as needed.

WEEKLY

Clean holding tank from excessive debris build-up.

Check lug nuts and fasteners for tightness. Tighten as necessary.

MONTHLY

Check blower drive belts for proper tension, frayed or cracked condition. Adjust or replace as needed.

Check for loose piping, fittings, and connectors. Tighten as needed.

Check tire pressure. Fill as necessary.

SECTION VII

PARTS LIST

**BILL OF MATERIALS
UTILITY TRAV-L- VAC
77-000-01**

Ref. #	Part #	Qty.	Description
20	77-001-00	1	TANK
30	77-002-00	1	FRAME
40	77-003-00	1	RAIL
50	77-004-00	1	FRAME
60	77-005-00	1	DOOR
70	77-006-00	1	PANEL
80	67-002-01	1	BLOWER-400 CFM
90	77-007-00	1	FILTER
100	77-008-00	1	POWER SUPPLY
110	77-009-00	1	COVER (FALKNER)
120	77-010-00	1	WOODS DRIVE COUPLING
130	77-011-00	1	WOODS DRIVE COUPLING
140	77-012-00	2	DRIVE COUPLER FALKNE
150	77-013-00	1	FLEX ELEMENT FALKNER
160	59-033-01	1	KOHLER CH20S
170	59-035-00	1	TACH / HOURMETER
180	77-014-00	1	SILENCER
190	77-015-00	2	CHIEF 2018 WC CYLIND
200	77-016-00	1	RAIN CAP
210	77-017-00	2	TEFLON WASHER
220	67-050-00	1	BATTERY, 12V-880A
230	67-051-00	1	CASE, BATTERY
240	62-054-00	1	FILTER
250	17-088-00	1	TANK, FUEL
260	17-070-00	2	ANCHOR, TIE DOWN
270	17-067-00	1	STRAP, TIE DOWN 19"
280	77-018-00	1	WEATHER STRIP ADHEAS
290	77-019-00	2	BLACK PIPE FITTING
300	77-020-00	2	BLACK PIPE FITTING
310	77-021-00	1	BLACK PIPE FITTING
320	77-022-00	1	BLACK PIPE FITTING
330	77-023-00	1	BLACK PIPE FITTING
340	77-024-00	1	BLACK PIPE FITTING
350	77-025-00	4	3" PIPE TO 3" HOSE
360	59-135-00	1	GAUGE, VACUUM
370	67-058-00	2	BLOCK, SQ.D.-KA1
380	67-059-00	1	SWITCH, SQ.D OPERATOR
390	67-060-00	1	KNOB, SQ.D-RED GLOVED
400	77-026-00	30"	VACUUM HOSE
410	77-027-00	2	3/8 JIC TEE
420	77-028-00	4	3/8 NPT X 3/8 JIC EL
430	77-029-00	6	3/8 JIC SWIVEL F CON
440	77-030-00	2	3/8 JIC 90 DEG HOSE
450	77-031-00	25"	HYDRAULIC HOSE
460	67-074-00	1	CLAMP, WAND-END HOSE
470	59-061-00	1	VALVE, 2" BALL VLVE*
480	77-032-00	20"	1"-14 TREADED ROD
490	90-235-01	2	NUT, NYLK. THN 1-14
500	67-402-01	1	WAND, 3"X6-1/2'
510	77-033-00	1	5" BALL STOP 1/4-20
520	59-034-00	1	MUFFLER, KOHLER CH20
530	77-034-00	4	CLAMPING HANDLE
540	77-035-00	4	SWING BOLT
550	90-500-05	5	GRSE. FTG, 1/4-28 STR
560	77-036-00	4	3/8-16 FLANGE BOLT
570	90-075-06	4	NUT, FLANGE 3/8-16
580	59-071-00	1	GUARD, MUFFLER
590	59-072-00	1	DEFLECTOR, EXHAUST

ORDERING INFORMATION

To place an order or to get more detailed information on any E.H. Wachs products, call us at:
1-800-323-8185.

ORDERING REPLACEMENT PARTS

Please use parts list provided in manual. Have part description and part number of required replacement part or parts to help expedite order and insure proper parts are being ordered.

REPAIR INFORMATION

Please call E.H. Wachs Company prior to returning any equipment for repair. We will advise you of shipping and handling. Please enclose with equipment to be repaired your name, address, phone number and a brief description of problem or work to be done or estimated.

All repair work done at our plant will be estimated and the customer advised of cost and time required to complete repair.

WARRANTY INFORMATION

Enclosed with the manual is a warranty card. Please fill out the registration card and return to E.H. Wachs. Retain the owners registration record and warranty card for your information.

RETURN GOODS ADDRESS

E.H. Wachs Company
100 Shepard Street
Wheeling, Illinois 60090

Call or Write:

E.H. Wachs Company
100 Shepard Street
Wheeling, Illinois 60090

847-537-8800

FAX: 847-520-1147 • 847-520-1168

Toll-Free: 1-800-323-8185

www.wachsco.com



PIPE & VALVE

MAINTENANCE PRODUCTS

Mod. **99-020**

S/N:

Enter your machine's serial number here for proper record keeping and ordering reference.