DUAL-VAC USE AND INSTRUCTIONS

WHEN YOU TAKE A BREAK, GIVE YOUR VAC A BREAK!

THERE ARE BRUSHES IN THE MOTOR, THEY CAN WEAR OUT.

CLEAN FLOAT SWITCH DAILY! FAILING TO DO SO WILL VOID MANUFACTURER'S WARRANTY!

See cleaning instructions on page 7

Dual-Vac (Patented)

A continuous water removing wet-vacuum:
May also be used for light debris and dirt.

All of producer's products are guaranteed against defects of material and workmanship for 90 days from the date shipped when such products are used in service for which they ere made. Producer's liability shall be limited to replacement free of charge of any items found to be defective by producers inspection, and shall not include claims for labor cost expense of purchaser arising from such defects. Recovery under strict liability for damages arising from delays and consequential damages of any kind.

The warranty is expressly in place of all other warranties expressed or implied, including the warranty of merchantability and fitness for particular use, which exceed the foregoing warranty.

All other representation, warranties and conditions expressed or implied, statutory, or otherwise, relating to products supplied by producer in connection with this sale are herby excluded unless specifically agreed to in writing.

Wet Vacuum Safety Guidelines

1. Must be connected to 110 volt alternating current (110 vac) to operate warning-risk of electrical shock!
2. Dual-Vac is supplied with a grounding type attachment plug to reduce the risk of electrical shock. Be certain that it is connected to a properly grounded receptacle.
3. The national electrical code requires a ground fault circuit interrupter (GFCI) be installed in the branch circuit supplying equipment, pools, etc.
4. Dual-Vac is supplied with a 3-prong electrical plug. The third plug is to ground vacuum and pump to prevent possible electrical shock hazard. DO NOT cut plug from the cord. If the plug is cut or the cord is shortened, then this action will void the warranty. When using a 14 gauge extension cord, be sure it is properly grounded, and **no longer than 25'.**
5. DO NOT use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. DO NOT use in explosive atmospheres. Dual-Vac should only be used to pump water. DO NOT vacuum burning material.
6. Before starting work, check that your dual-vac is operating correctly and in good condition. Pay special attention to the power cable and plug.
7. Disconnect power supply before servicing or removing any component.
8. Connect only to 110 volt alternation current (110 volt)
9. Do not handle Dual-Vac with wet hands or stand in water when operating Dual-Vac.

Directions For Use

Cautions:

1. Use at own risk.
2. Flooding of Dual-Vac will void warranty.
3. Dual-Vac may be connected to piping that is non pressurized, it must never be connected to pressurized piping. Use only as a suction device. Drain all pressure from piping before connecting.
4. Water discharge pump is automatic. When Dual-Vac is plugged into 110 volt current (110 vac). Water pump may operate and discharge water whether vacuum head is operating or not, be sure discharge hose is connected to outlet and routed to a suitable area of discharge before plugging in unit.

Uses:

1. Remove water from piping-thus reducing associated repair problems.
2. Change pendent fire sprinklers. Effectiveness is reduced but not completely lost with drop sprinklers over 5 feet long. Works very well with flush or recessed sprinklers.
3. Evacuate water from tripped pre-action or dry pipe systems.
4. Check the extent of a tripped and frozen dry pipe sprinkler system by loosening sprinklers and listening for suction (be sure to re-tighten sprinkler).
5. Rebuild alarm valves that have incomplete control valve shut off after removing face plate, place vacuum hose inside of alarm valve and proceed with repair.
6. Remove water from CPVC or copper piping so a new joint may be easily made.
7. Changing or repairing pipe.
8. Changing "victaulic" style gaskets.
9. Wherever water is a problem.

How to use:

1. Shut off supply to piping.
2. Thoroughly drain piping to zero pressure.
3. Connect ¾" garden hose to discharge. Do not kink hose. ¾" garden hoe may be connected directly to outlet. For greater discharge, 1-1/4" (32M) reducer may be removed and larger hose connected to 1-1/4" (32MM) nipple.
4. Plug into 110 volt outlet that is protected by a ground fault circuit interrupter. If not available, use a portable GFCI as listed in Grainger catalog #382 PG 509 stock #6A675.
5. Connect suction hose to piping then to inlet of Dual-Vac. (If suction hose is not long enough, you may extend its reach with a piece of pipe coupled to 1" brass nipple which is furnished with 7' vacuum hose).
6. Turn on Dual-Vac.

7. Dual-Vac will have maximum suction when water quits discharging.
8. Loosen head or pipe, do not remove, listen for suction or gurgling, continue to carefully remove if vacuum is present. Be very careful, some water may remain.
9. When changing heads or drops, do 1 at a time.
10. For "maximum effect" size of working opening should not exceed 1" pipe.

Where To Connect

Determine best location to connect Dual-Vac:

1. Connect into: main drain, ¼" 3-way valve for gauge on riser, inspectors test, drop sprinkler, auxiliary drain- DO NOT open too wide, you may flood the canister. Vacuum becomes reduced when connection to opening smaller then 1". Connect as close to work as possible.
2. A 1" brass nipple is provided in an adapter, that presses into the small end of the 7' flexible suction hose, simply adapt the 1" male NPT to the pipe of your choice by using bushings, reducer couplings or mechanical tees. After your connection is made, insert larger end of hose into suction inlet located on side of Dual-Vac and follow all cautions as previously noted. For maximum efficiency, keep closed all other openings not connected to vac. Allow a minute for piping to build up vacuum.

General Information:

1. Empty and clean every day. Be sure to unplug unit.
2. Use only on hard level surface.
3. Keep foam filter in place (under lid below motor).
4. Store in cool place.
5. Do not allow to freeze.
6. Lid must be securely fastened to canister (failure to secure in place will reduce suction).
7. Brushes need to be replaced in electric motor of vacuum head after about 300 hours of use.
8. Turn Dual-Vac off when not in use. This will extend the motor brush life.
9. Discharge 300 GPH thru ¾" garden hose or 2000 GPH (est.) thru 1-1/4" nipple. Maximum discharge height of 20'.
10. Unit weights 70 lbs.
11. After every use, clean debris from bottom of canister (Do NOT allow junk to build up)
12. Use minimum size #14 electric extension cord (Dual-Vac has 2 motors to operate).
13. Dual-Vac is warranted for 90 days from date of purchase for labor and material. Exclusions: Abuse, misuse, negligence, flooding of canister, and modification.

Tips

1. If 7' suction hose is too short, extend with pipe.
2. Too much water trapped in dead end pipe? Rig a siphon hose from ¾" garden hose and connect to inlet hose of dual-vac.
3. Handles must be secured to vacuum canister or some vacuum will be lost thru holes. Do not plug opening in ¼" brass pipe located in lid. You will not increase vacuum. If you plug this opening you will burn out vacuum motor.
4. Dual-Vac is shipped to you with wheels, handle, vacuum hose, 1" hose to pipe adapter, and instructions.
5. You will additionally need: A 14 gauge electric extension cord and ¾" garden hose to discharge water.

Produced by:
Harold Allen Company/Ram Products
PO Box 1101
Athol, ID 83801
USA

208-683-1556
cthompson@haroldallencompany.com

CLEAN SWITCHES DAILY!

-To clean the float switch, remove the bottom clip by pulling straight out. See Fig. 1.

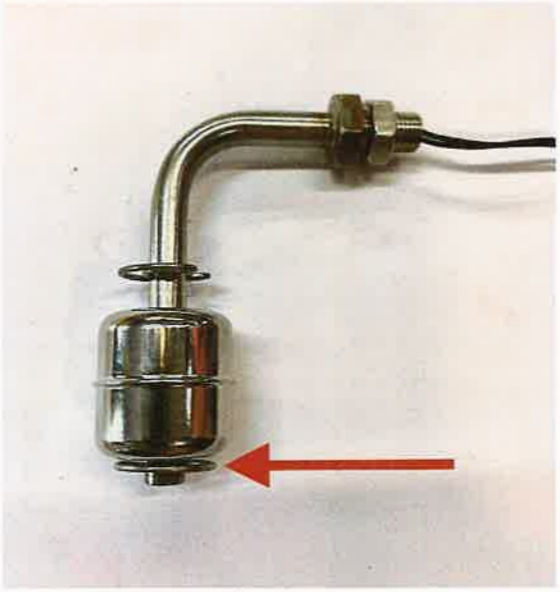

Figure 1

-Barrel of float switch will fall off shaft when clip is removed. Clean all debris off the shaft of the float, and the barrel of float (inside and outside). See Fig 2.

Figure 2

-When reassembling float switch, TRIANGLE SYMBOL MUST BE FACE UP. Slide float barrel onto shaft. See figure 3

Figure 3

-Re-attach clip for float switch, with barrel in place.

-BEFORE USE, CHECK FLOAT SWITCH IS INSTALLED PROPERLY!

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Proudly made in USA
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