

# AromaMist *Pump*

## Model AI-5

### Installation and Operation Manual



# AromaMist Pump Model AI-5

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## I. Introduction

Congratulations, you have just purchased the world's most advanced aroma oil metering pump, the **AromaMist** pump.

This instruction manual covers all facets of the installation and operation of the **AromaMist** pump including unpacking, mounting, electrical, plumbing, control, pump connections, and start-up.

All information in these instructions is based on the latest product information available at the time of publication. Accurate Industries Et Al., Inc. reserves the right to make changes at any time without notice. Please read this manual completely before proceeding.

Observe safety protocols and heed all warnings and precautions for safe and efficient installation and operation of the **AromaMist** pump.

**WARNING: It is recommended to have a certified licensed electrician and plumber install the AromaMist pump system.**

## II. Safety and Operating Information

**CAUTION: Please read this manual in its entirety prior to installing or operating the AromaMist pump system.**

### A. Chemical Compatibility

**AromaMist** metering pumps are designed to work with **AromaMist** oils only. Failure to do so may void the warranty or pose serious health hazards.

### B. Safety Equipment and Preparation

Always wear the proper protective clothing and gear when working around chemicals and chemical metering pumps. Safety glasses, gloves, and aprons can prevent accidental exposure to chemicals.

### C. In Case of Accident

If a chemical spillage occurs, consult the Material Safety Data Sheet (MSDS) for specific instructions regarding the chemical being used.

### D. Liquids Under Pressure

Liquids under pressure can present a special hazard when a line or seal is punctured resulting in the spraying of chemical many yards away.

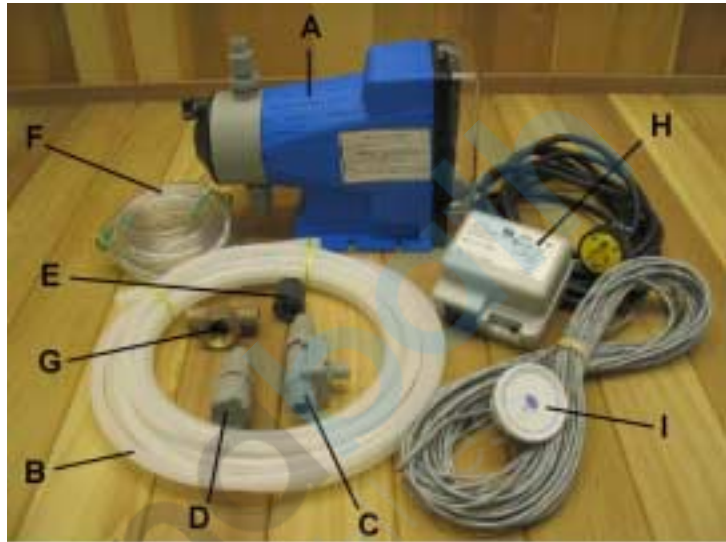
### E. Safe Installation

Do not install the **AromaMist** pump system without reading and understanding the Operation Warning section (V) and Operation section (VII) of this manual.

### III. Pump Package Contents

#### AromaMist Pump Package Contents

- A. AromaMist Pump
- B. 3/8" Discharge/suction tubing, 20'
- C. 3-function valve
- D. Foot valve
- E. Ceramic weight
- F. 3/8" Vinyl priming tubing, 10'
- G. 1/2" Brass T
- H. Power supply module
- I. Aroma switch



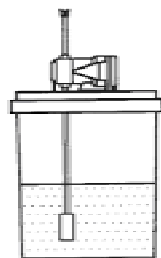
### IV. Installation

#### A. Location

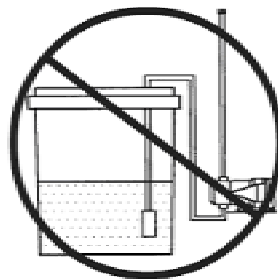
Select a pump mounting location convenient to the aroma oil supply and a source of power for the pump. Do not install the pump in a location where the ambient temperature exceeds 100 degrees Fahrenheit or where water can freeze. A location that is locked or secure from children is highly recommended.

The **AromaMist** pump should be installed no more than five vertical feet above aroma oil source. See Typical installation on page 7 of this manual.

Suction lift  
Not to exceed 5 ft



Not recommended



#### B. Mounting The Pump

Secure pump with appropriate hardware (not provided) to shelf or stand using the four (4) slots in pump base.

## C. Electrical

AromaMist pump model AI-5 is a 120V AC pump and has a voltage regulated internal power supply capable of operating in the range of approximately 95 to 135 VAC. Use a supply voltage of 100 to 120 VAC for best results. The 3-wire grounded plug must be used with provided power supply module in a 3-wire grounded wall outlet.

**CAUTION: Never remove ground wire from plug.**

**CAUTION: Do not position power supply cord in direct contact with steam line.**

## D. Plumbing

### 1. Tubing Connections

The AromaMist pump uses carefully matched components to achieve a predictable metering output. This predictability can only be maintained if all fitting sizes remain unaltered. **Do not** attempt to reduce tubing size. All tubing connection should be double checked to insure against leakage.

**CAUTION: Do not position tubing in direct contact with steam line.**

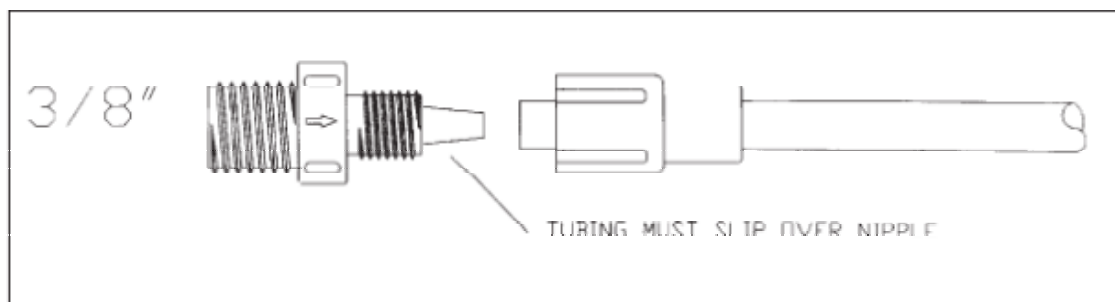
**NOTE: When cutting lengths of tubing for your installation, ensure a clean, square cut. Use short lengths of tubing whenever possible.**

### 2. Tubing nuts

Do not over tighten tubing nut connectors. Tighten no more than  $\frac{1}{4}$ " turn after the fitting contacts the seal. Hand tighten only. **Do not use a wrench or pliers** as they may damage the fittings. (See diagram below.) Do not use Teflon tape except on 3-function valve NPT fitting. **Be sure to observe applicable local plumbing codes.**

**WARNING: Clear flexible vinyl priming tubing is not intended for pressurized or pump discharge use.**

### 3. Tubing Connections



**3/8" Tubing Connections**

## E. Control (Aroma Switch)

### 1. Location

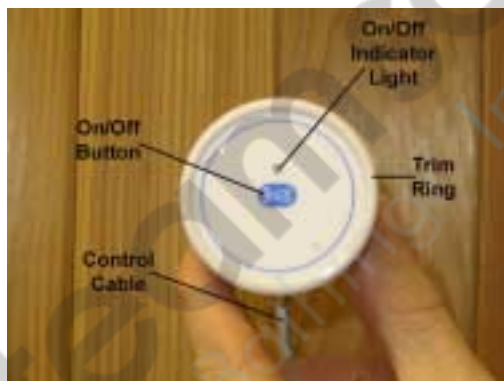
Determine the desired installation location for the aroma switch control. The aroma switch has a 60' integral low voltage cable and is designed to be installed inside or outside the steam room as a matter of personal preference.

If aroma switch is installed inside the steam room, it must be located 4-5 feet above the floor, on a vertical wall, convenient for user on/off operation and away from steam head or steam emissions.

**NOTE: For convenient use during steambathing, an aroma switch mounted inside the steam room is most preferred.**

### 2. Mounting Aroma Switch

Make a 1 $\frac{5}{8}$ " diameter hole in desired control location. Route the aroma switch integral control cable from the wall cut out to the **AromaMist** pump power supply module. With a clean and dry mounting surface, remove the peel-off paper from the back of the aroma switch, run a thin bead of 100% clear silicon completely around the aroma switch mounting flange and press the control against the wall until the adhesive sticks. Connect the aroma switch cable to the 3-pin terminal on the power supply module to complete the aroma switch installation.

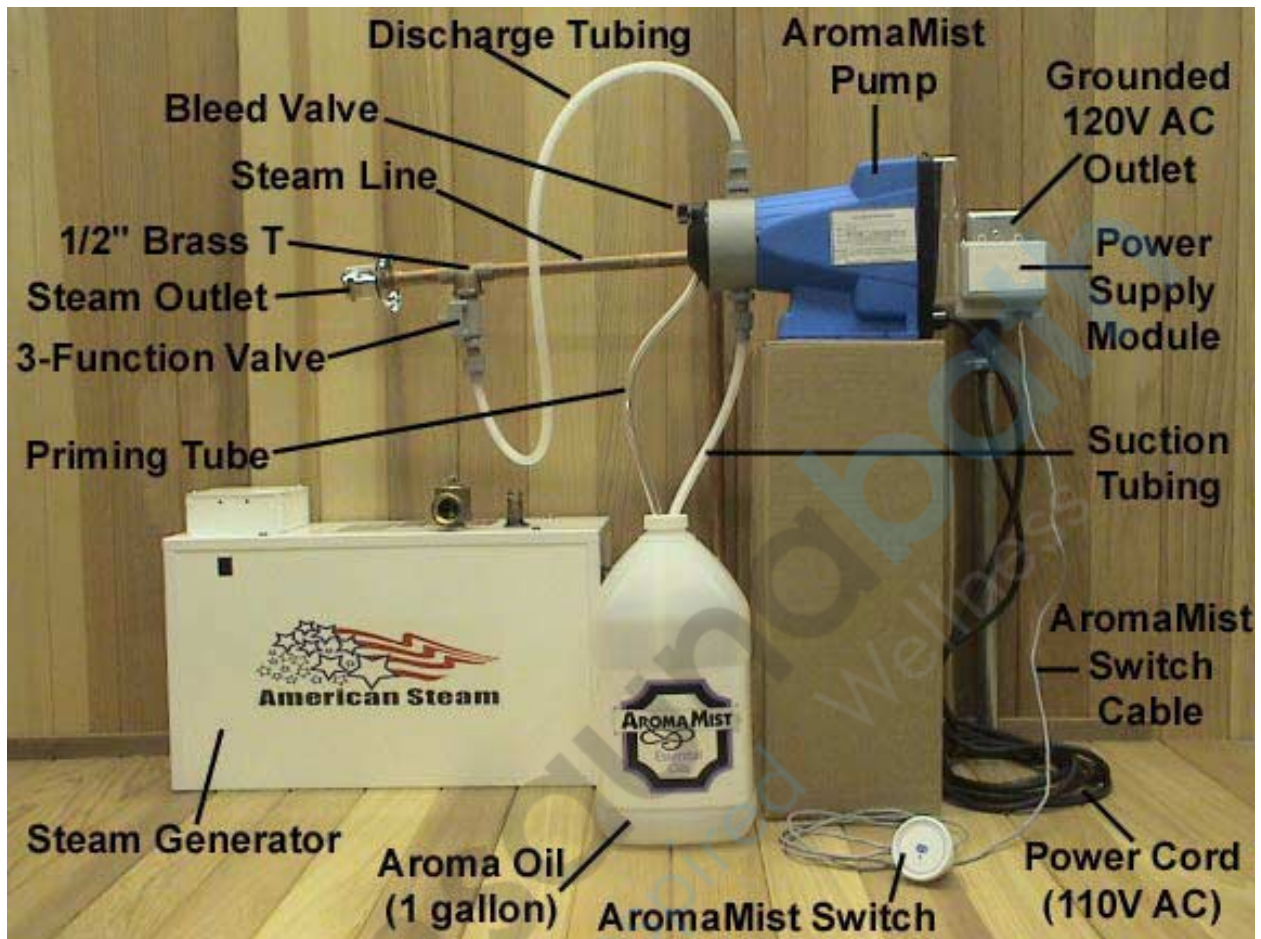


Aroma Switch (Front View)



Aroma Switch (Back View)

## F. Typical Installation



## G. Step By Step AromaMist Pump Installation



1. Verify carton components and mount pump on a level surface. See details on locating the pump on page 4 of this manual.



2. Locate AromaMist brand aroma oil and remove cap.

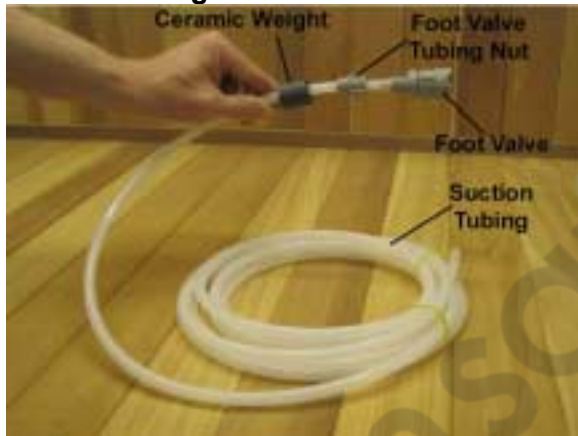
## G. Step By Step AromaMist Pump Installation (continued)



3. Drill 2 holes in aroma container cap: one  $\frac{3}{8}$ " hole for clear vinyl priming tube and one  $\frac{7}{16}$ " hole for the more rigid suction tubing.



4. Beginning with the more rigid 20' suction tubing, cut the required length necessary and string the ceramic weight followed by the foot valve nut.



5. Install foot valve next, pushing firmly until suction tubing is flush against foot valve threads.



6. Secure foot valve nut. Hand tighten only.



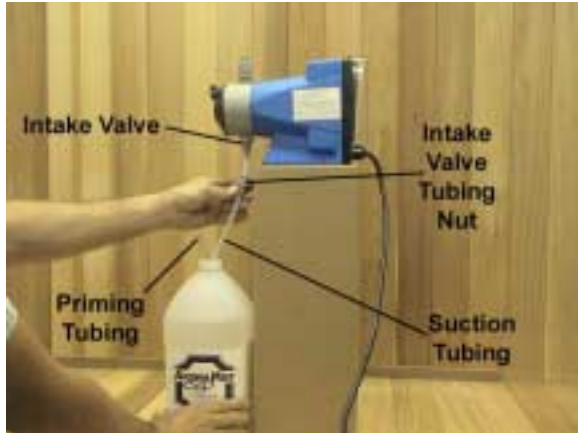
7. Thread suction tubing through aroma container  $\frac{7}{16}$ " hole and insert components into aroma oil container. Foot valve should remain vertical and resting on aroma container bottom.



8. With aroma container located beneath pump head and cap secure, insert clear vinyl priming tube through  $\frac{3}{8}$ " hole in cap to bottom of aroma container.



## G. Step By Step AromaMist Pump Installation (continued)



9. Remove intake valve tubing nut and red protective cap, slip nut on the suction tubing, secure suction tubing on intake valve and hand tighten intake valve nut.



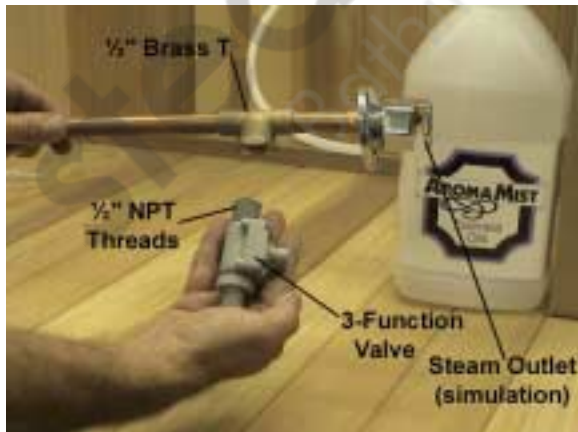
10. Cut required length of discharge tubing, remove discharge valve tubing nut and red protective cap, slip nut on discharge tubing, secure discharge tubing and hand tighten nut.



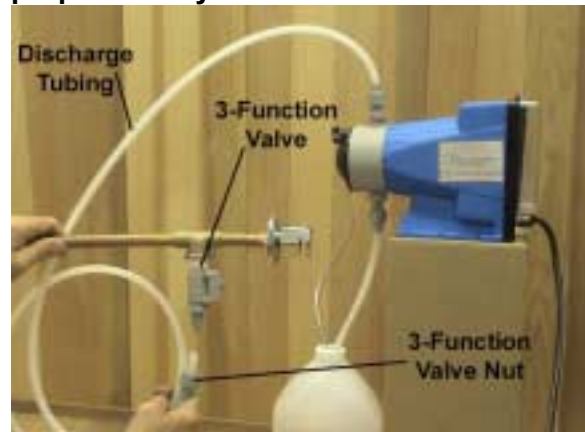
11. All pump priming, discharge and suction tubing connections should appear as detailed above.



12. Cut existing steam generator steam line and solder in provided 1/2" brass T. Steam outlet head shown for illustration purposes only.

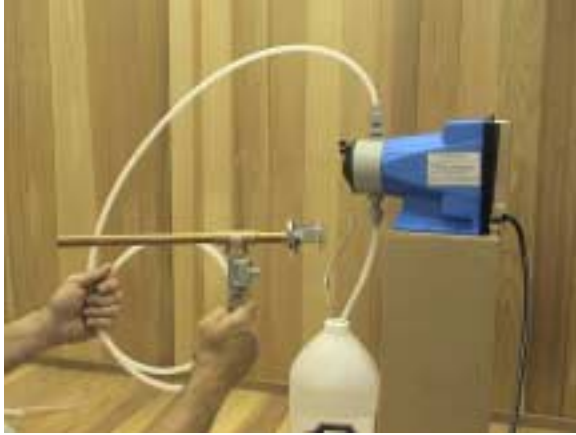


13. Locate 3-function valve, apply Teflon tape or joint compound to 1/2" NPT threads and secure 3-function valve in bottom of 1/2" T.



14. Remove 3-function valve tubing nut, slip nut on discharge tubing and hand tighten nut to 3-function valve.

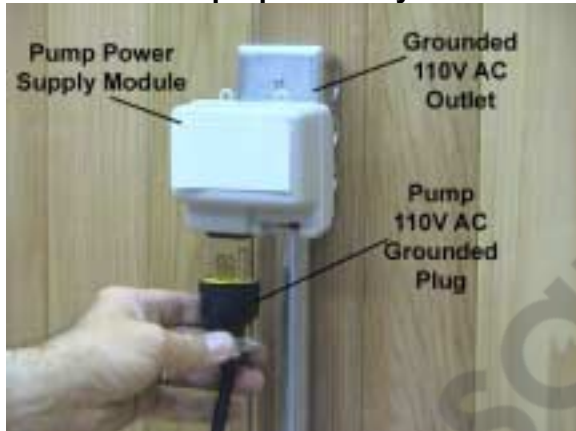
## G. Step By Step AromaMist Pump Installation (continued)



15. All pump connections should appear as detailed above. Steam head shown for illustration purposes only.



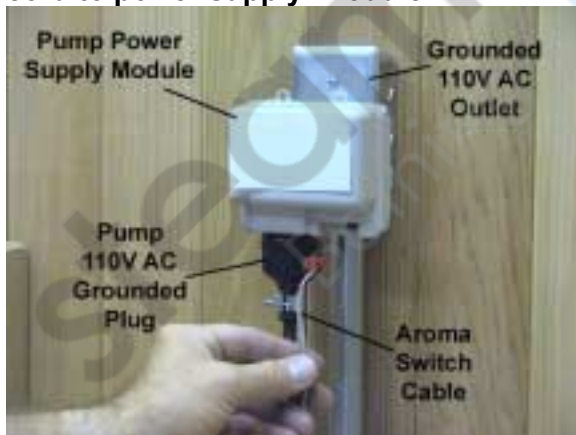
16. Run a 110V AC grounded outlet within 6' of pump installation location and insert pump power supply module.



17. Plug in pump 110V AC power supply cord to power supply module.



18. Locate pump switch with integral 3-pin 60' low voltage cable



19. Cut a  $1\frac{5}{8}$ " hole in desired switch installation location and run control cable from switch mounting hole to power supply module 3-pin connection terminal pressing firmly to affix cable. See page 6 for control installation details.



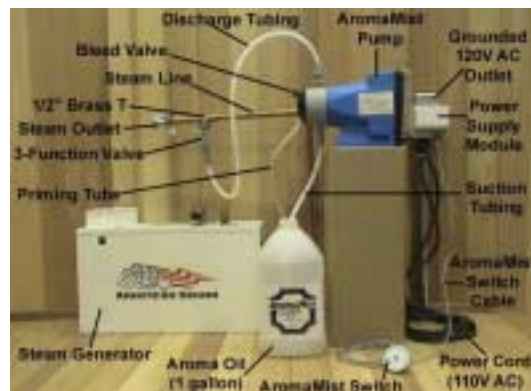
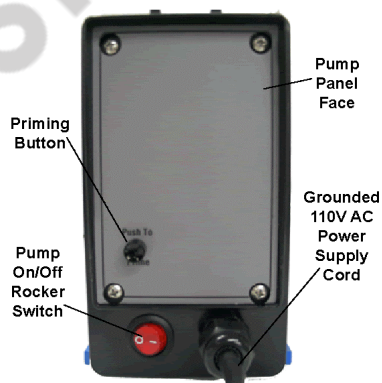
20. After testing pump switch for operation, secure in newly created  $1\frac{5}{8}$ " diameter hole using 100% clear silicon and let dry for 24 hours prior to use.

## V. Start-Up - Priming the AromaMist pump

**CAUTION: Please read all 7 steps prior to priming the AromaMist pump**

1. Insert **AromaMist** pump power supply cord into pump power supply module.
2. Insert **AromaMist** pump power supply module into grounded 110V AC outlet.
3. Power up integral **AromaMist** pump rocker switch located on the pump panel face. Switch LED will light when on.
4. Initiate the remote-mounted aroma switch by pressing gently on jet icon. Aroma LED will light when on and pump will start moving aroma oil.
5. With **AromaMist** pump on, push and hold the priming button located on the pump panel face. This will initiate the priming process where aroma oil will be drawn at a faster rate to fill the suction and discharge tubing. Releasing prime button will stop priming process.
6. With pump in priming mode, if fluid begins moving up suction tubing without hesitation, bleed valve adjustment is not required. If fluid is not moving up suction line, open bleed valve (counter-clockwise) approximately one (1) turn or until fluid begins to move. When fluid level reaches the pump head assembly, close bleed valve allowing fluid to flow through pump head and up to the steam line. **NOTE: Do not over tighten bleed valve as damage may occur.**
7. Once aroma oil has reached the 3-function valve, release the priming tubing and turn off the remote-mounted aroma switch. **AromaMist** pump is now ready for use.

**NOTE: Pump integral On/Off rocker switch must stay in the on position to operate pump from remote-mounted aroma switch.**



## VI. Operation Warnings

1. Do not use a sharp object or fingernail to press on the **AromaMist** pump switch. Sharp objects will penetrate the face plate and damage the aroma switch.
2. Do not pump unapproved aroma oils with the **AromaMist** pump system. Use of foreign oils may pose serious health hazards or damage to equipment.
3. Check with a physician prior to using the **AromaMist** pump system if you are pregnant, have a coronary condition, are in poor health, are using medications or drugs, have allergies or are being treated for any other medical conditions.
4. Children under the age of 17 should not use a steambath.
5. Exit the steam shower immediately if you feel uncomfortable, faint, dizzy or tired.
6. Aroma oil residue, steam shower condensation and moisture will cause the steam room floor and other surfaces to become slippery. Installation of non-skid floor materials and caution while walking is always recommended.
7. Do not walk near or by steam outlet head during steam shower operation.
8. Do not activate the **AromaMist** pump while the steam generator is off or not producing steam. If pump is accidentally activated with steam generator off, operate steam generator for 10 minutes with aroma switch in the off position to flush the steam line. Follow with water spray to wash the steam shower floor of excess aroma oil residue.
9. Aroma oil is an oil-based product which will make the steam shower floor slippery. It is important to wash down floor with water immediately after each use and use caution while walking.
10. Should you have any questions about the safe installation or operation of the **AromaMist** pump system, we encourage you to call us at (847) 465-8990.

## VII. Operation

During the steambath session, initiate the **AromaMist** pump by pressing the mist icon below the on/off LED indicator light on the aroma switch. Once activated, the red LED will light and the aroma oil will begin to flow into the steam line.

Once satisfied with the steam shower aroma, depress the aroma switch once again to stop the flow of aroma oil. The red on/off LED will indicate the pumps status at all times. Start and stop the aroma oil flow as required to maintain the desired steam bathing fragrance.

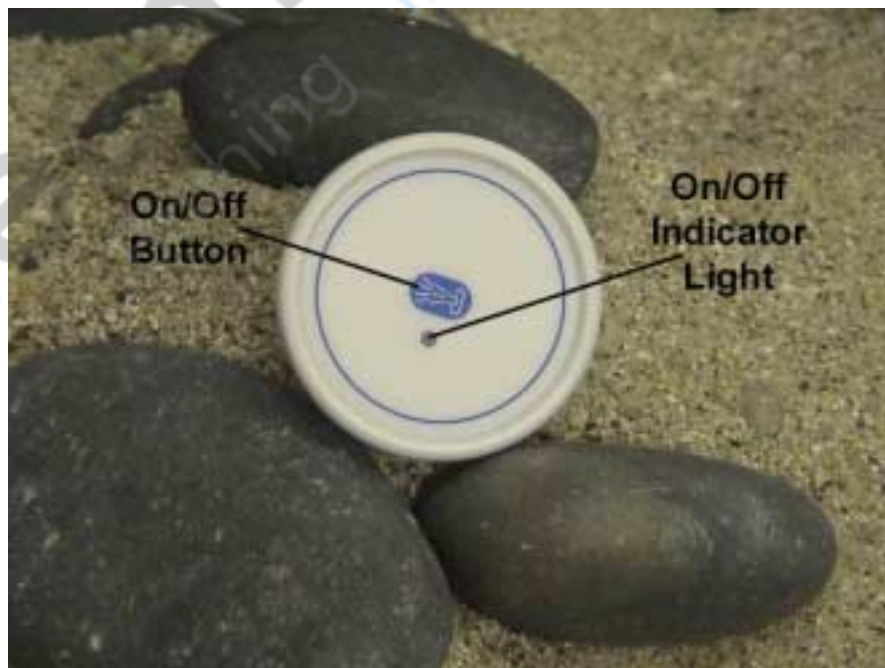
**NOTE: Frequent starting and stopping of aroma oil will not adversely affect the AromaMist pump.**

The **AromaMist** pump has no adjustment for aroma oil flow rate. For increased fragrance intensity, initiate the aroma switch earlier in the steambathing session.

**NOTE: The AromaMist pump system has a built-in timer and, if not manually turned off, will automatically operate for a 10-minute session.**

For care of your aroma switch, only use mild soap and water on a soft cloth. Do not use any abrasive or chemical cleansers.

**CAUTION: Aroma oil is an oil-based product which will make the steam shower floor slippery. It is important to wash down floor with water immediately after each use and use caution while walking.**



## VIII. Troubleshooting

Problem	Cause	Remedy
Pump does not achieve or maintain prime	Air Trapped in suction line	Straighten suction line so as to eliminate high spots
	Foot Valve contaminated or improperly installed	Inspect foot valve screen and assure that foot valve is in a vertical position below fluid level
	Excessive lift	Maximum suction lift is 5 feet with water or fluids of similar specific gravity; less with heavier liquids such as acids. Mount pump in a lower position relative to the chemical container.
	Suction fittings not properly tightened	Check fittings. Over tightening may cause restriction. Conversely, if <b>any</b> leakage occurs, pump will suck air and fail to prime.
	Worn or contaminated check valves	Inspect check valves in fluid end for cleanliness. Clean or replace as necessary.
	Kink or pinch in suction tube	Inspect suction tube through its full length to assure that there are no kinks or other restrictions
	Low chemical level	Check fluid level in chemical supply tank
Insufficient fluid	Obstruction in suction line	Check suction line for obstructions, clogging, kinks or pinch points
	Clogged foot valve screen	Clean or replace foot valve screen
	Diaphragm worn or torn	Replace diaphragm, making sure that it is screwed on fully to shoulder of shaft
	Electronic failure	Consult factory
Excessive fluid	Failure of anti-siphon valve	Inspect or add anti-siphon valve. This is caused when system is in a vacuum condition.
	Improper stroke length	Consult factory
Pump will not run	Pump not turned on or not plugged in	Check outlet with meter to assure that 95-135 VAC is present on 120V systems and that the power supply cord is in good condition and plugged in
	Electronic failure	Consult dealer or factory

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