



OLYMPIC INSTALLATION INSTRUCTION MANUAL

INSTALLATION COMPONENTS

FIRST THING

Unpack the carton that came with your system and carefully lay each of the components out on the floor. It contains:

Part# A3000 Central Vacuum System

This is the heart of the vacuum portion of your machine. Depending on your country location it will require plugging into an 220/240 volt or 120 volt grounded electrical outlet controlled by a dedicated circuit breaker – in the case of 120V systems – 15amps, and in the case of 220/240V systems – 8 amps. For additional safety we recommend the use of a Ground Fault Circuit Interrupter (GFCI) plug or breaker with our systems.

NOTE: it is the responsibility of the purchaser to ensure that local Electrical Codes are met. Anivac assumes no responsibility for the improper electrical hookup of our systems. Please consult a certified electrician for assistance.

Part# A3500 Central Vacuum Inlet Assembly

This assembly is the starting point for the vacuum tubing that will run to each of the stations that you install in your facility. The top access port enables you to clean out any clogs that may form just at the entrance into the vacuum housing (the most common area for clogs). This is also the reason for the clear tubing. The second port houses the spray nozzle that wets down the incoming debris that you vacuum up. This ensures that all of the dirt ends up in the water and not in the vacuum motor.

A3800 Water Line Supply Assembly

This assembly attaches into your cold water supply line and feeds water directly to the A3000 Vacuum System via a water line that comes out of the back of the machine. This line supplies water that is used to wet down and filter out debris from incoming air and water stream. The continual spray of water onto incoming dirt and debris ensures that all of the dirt goes into the water tank. Without this it would remain in a dust format and would be vacuumed into the vacuum motor, thereby causing serious damage to your system. It is imperative that this system be left operational at all times!

Failure to hook up this system WILL destroy your vacuum motor – this type of failure is NOT covered by your warranty so please be careful and ensure it is used.



A3600 Central Vacuum Exhaust Muffler

This attaches to the exhaust port of the vacuum on the right hand side of the system (with the rubber outlet) and dramatically reduces the sound output of the system. Your kit also contains a second muffler, which may be used to further muffle sound.



A3700 Vacuum Motor Inlet Muffler

This sits directly over the air inlet on the TOP of A3000 Central Vacuum System. It blocks the sound of the motor coming out into the room and makes a large difference to the amount of noise where the system is installed.



A3400 Central Vacuum Line Fittings

This box contains the PVC Vacuum Line fittings that you will need in order to install the vacuum portion of the system. NOTE: Anivac does not supply the straight runs of PVC Vacuum tubing that you will need to install your vacuum lines. These are relatively inexpensive and readily available at most home improvement centers and are sold as tubing for central vacuum systems.

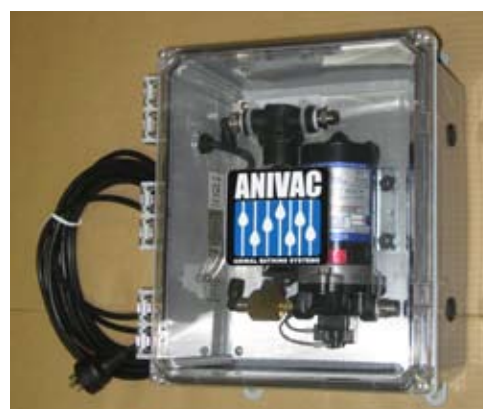


A3100 Pump & Filter Assembly

This is the heart of the water system for this machine. On the right side of the cabinet you will find an inlet (top) and outlet (bottom) port. The inlet port is where warm water feeds into the cabinet, runs through the filter, past the Pure Oxygen mixing valve, into the pressure boosting pump and back out the bottom port on it's way to the cleaning station(s) you've installed.

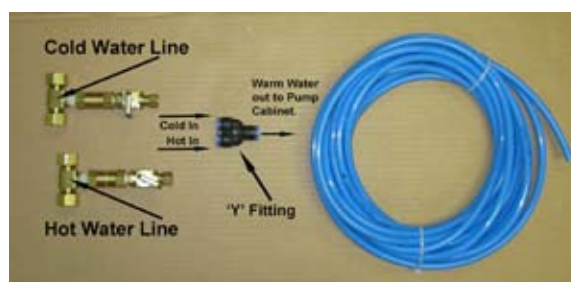
NOTE: It is the responsibility of the purchaser to ensure that local Plumbing Codes are met. Anivac assumes no responsibility for the improper hookup of our systems.

Please consult a certified plumber for assistance. When dealing with local authorities, ensure that they are aware that the plumbing involved in this installation is related to equipment and not for drinking water use. This should facilitate the way to approval.



A3150 Incoming Solution Line Install Kit

This kit consists of two assemblies that will tie into your existing hot and cold water lines in your facility. They feed warm water into the Pump and Filter Cabinet above by way of the 10M coil of 9.5mm (3/8") polyurethane solution line supplied.



A3200 Outgoing Solution Line Install Kit

This kit consists of one roll of 6.4mm (1/4") polyurethane plastic solution line that you will run to each of the cleaning stations you decide to install, as well as the wall adapters and solution line fittings needed at each cleaning station. Shown at right is the standard kit that has (3) on-wall outlets and (3) in-wall outlets. You may choose to use all or any combination of these in your facility.



Bottom Funnel Assembly and "P" Trap

This funnel and drain are part of the A3000 Central Vacuum System. The funnel mounts directly below the main vacuum system and catches the dirty water that drains from the system when it flushes. The "P" trap ties directly into your existing drain system. Note: since we cannot know your facilities drain setup you will need to purchase some additional drain related components that correspond to your particular drain setup. These can normally be purchased at any local hardware store.

The funnel has a built-in strainer assembly that catches any hair and debris that is too large to go into your drain system.



Central Vacuum Hose and Wand Assembly

This is the hose assembly that you use when cleaning. One end has a metal band clip that plugs into one of the wall inlets for the vacuum system. The metal end of the wand touches two contact pins inside the wall inlet and tells the vacuum system to turn on. When the hose is removed from the inlet, the vacuum will automatically turn itself off. It also has the water line connection (shown in blue in the photo at right). This connection attaches with a simple 1/4 turn clockwise onto the water supply outlet, beside the vacuum inlet.

The other end of the hose assembly is where your cleaning wands plug in. Each system comes with two wands, one 90mm (3.5") and one 50mm (2"). Both wands come with Anivac's patented nozzles and a clip on brush that makes the wand suitable for hard surfaces or full body clipped areas on an animal. The wands are changed by means of a quick connect in front of the spray trigger that uses a simple 1/4 turn in a counter-clockwise direction to disconnect, and the opposite to connect.



NOW ON TO YOUR INSTALL!

Install Part# A3000 Central Vacuum Assembly

When deciding on the placement of your system, it's important to take into account the location of your existing hot and cold water supply and drain systems.

Locating closer to these will simplify the installation of the equipment. You'll enjoy years of use with this equipment, so picking a good location at the outset can pay dividends in the long term enjoyment of your purchase.

Firstly you will be hanging the system into its final location using the supplied hanger. The hanger for mounting the system is zip-tied to the back of the machine. Remove the hanger and secure it to the wall in the selected location.

IMPORTANT – The system weighs about 40 kg (85 pounds) when full of dirty water. The hanger **MUST** be mounted in a secure location. We suggest securely screwing a heavy piece of plywood between the building's wall studs using strong screws. The hanger can then be mounted to this, using heavy screws.

Your system should be mounted with the following points in consideration:

The total system (motor assembly and catch funnel assembly) is about 1.8 meters (6 feet) tall

- 25 cm (10") minimum of clearance should be allowed on each side of the machine.
- 45 cm (18") minimum of clearance is needed from the top of the machine to the ceiling.

Once you have hung the unit in place, remove the bottom tank by opening the two clips that are on the sides and dropping the tank down. Inside the machine, you will see two low voltage wires extending down – ensure that these wires are hanging straight down. These wires signal the system that the tank is full of dirty water. Once water touches the two wires, the system will shut down and flush the dirty water down into the catch funnel assembly.

Straighten the wires, and then reinstall the bottom tank onto the system.

NOTE 1 :

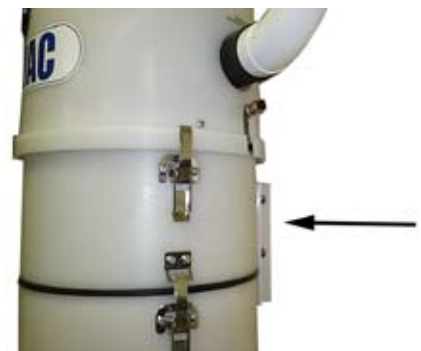
Where possible the power unit should be installed in a location where it will be protected from freezing. Should this not be possible, winterizing instructions are included in the Maintenance area of this manual.

NOTE 2 :

The system **MUST** be plugged into a dedicated circuit with a capacity to handle the system (in the case of 220/240V systems 6.5 amps, and for a 120V system 15 amps). For added protection we recommend the installation of a GFCI (Ground Fault Circuit Interrupter) plug.

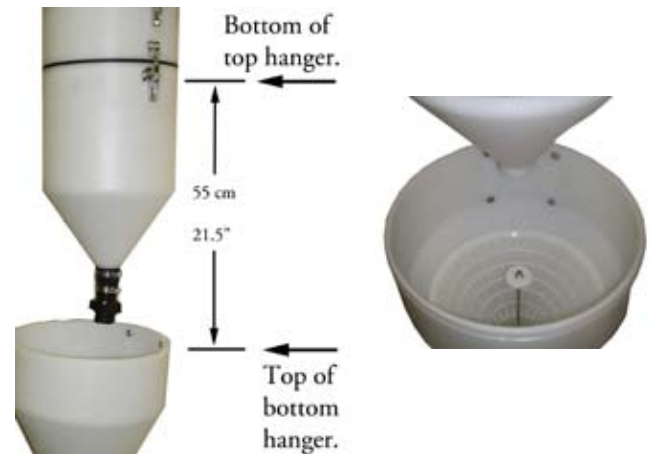
NOTE 3:

It is the responsibility of the purchaser to ensure that local Electrical Codes are met. Anivac assumes no responsibility for the improper electrical hookup of our systems. Please consult a certified electrician for assistance.



Install Bottom Funnel Assembly

This unit installs with the same type of hanger as the main motor assembly above. The hanger is also zip tied to the back of the funnel. Hang the funnel assembly directly below the motor assembly with about 55 cm or 21.5" of clearance between the two hangers (the bottom of the top hanger to the top of the bottom hanger). This will allow you clearance to remove the funnel strainer when it becomes full of debris and hair. You can adjust this clearance to suit your personal preferences without affecting the performance of the system. Screw the funnel in place with just a couple of screws, then test to ensure you have enough clearance to remove the strainer easily.



Connect Check Valve and Bottom Funnel Assembly.

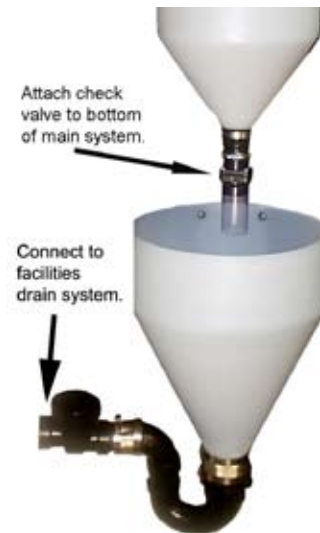
In your kit there is a check valve that attaches to the bottom of the main unit, and a "P" trap assembly that attaches to the bottom of the bottom funnel. Securely tighten in place, then tie the bottom funnel drain into your facility's drain system. Due to the various nature of the components needed for each individual install, Anivac does not supply the components needed to tie this into your facilities drain system.

NOTE: Due to the changing requirements by regions, Anivac does not assume any responsibility for the "to government code" installation of its systems. The Buyer assumes all responsibility for this – should you have any doubts, please ensure a licensed plumbing contractor completes the installation.

Installation of System Water Supply

Prior to completing any of the next steps related to the installation of the water supply, ensure that your water supply has been shut off.

NOTE: The installer of the water supply systems for this product must have strong fundamental skills in plumbing. If you are not well versed in the various standard requirements of plumbing, as well as the requirements of your local governmental regulations, you must hire a qualified plumber to complete this portion of the install. Due to the different regulations of the areas this system may be installed in Anivac cannot assume any responsibility for the "to code" installation of any of its products.

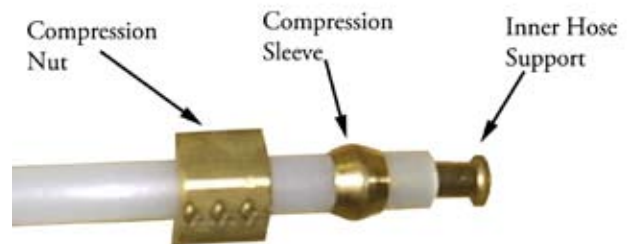
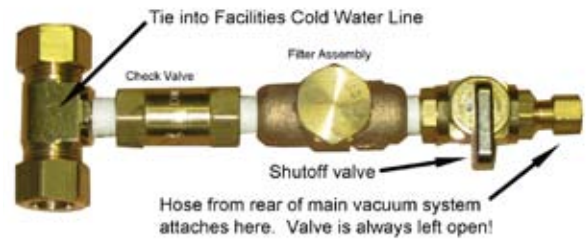


Install A3800 Main Vacuum System Water Line Supply Assembly

Cut approximately 25cm (1") out of your cold water supply line, then install the assembly into place using the supplied compression fittings. Compression fittings should be tightened quite well to ensure they do not leak. Should you find them leaking after installation, give them another ¼ turn until they stop leaking. (Replacement fittings are available at most hardware stores in the unlikely event that you need them.)

Run the supplied 1/4" and 3/8" plastic solution lines from the A3000 vacuum system to the A3800 Water Line Supply Assembly, and connect them to the appropriate fittings on the machine as per the following photos (at right). In some cases, your system may be outfitted with push connect fittings that simply require you to push the plastic line into the fitting until it stops. In others you may have connections as per the following photos.

When assembling the hoses to the fitting, remove the compression nut from its place on the machine, slide it over the tubing on the solution line. Then, insert the supplied inner hose support into the end of the hose, insert the hose into the base of the compression fitting, and tighten snug with a wrench. DO NOT tighten excessively or the compression sleeves may collapse. It is better to start off by tightening snug, then testing for leaks. Should there be leaks, you can then tighten more – ¼ turn at a time until the leak stops.



Installation of the A3100 Pump and Filter Assembly

This is the system that will filter the water. Add Pure Oxygen cleaning solution, boost the pressure of the solution, then feed it to the corresponding cleaning stations in your facility.

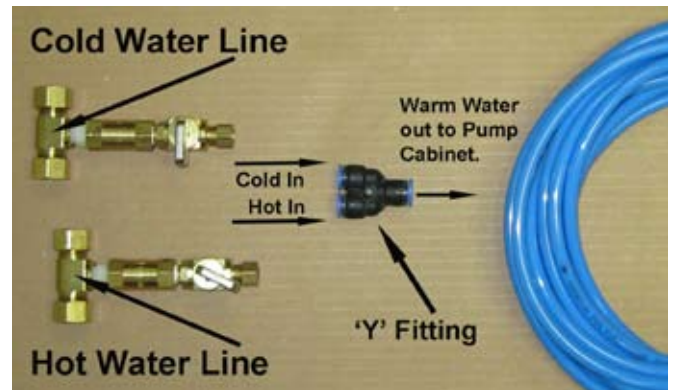
Open the front of the cabinet and remove the small package of screws and plastic adapters. These are used to modify the cabinet so that it can be surface mounted onto a wall. Flip the cabinet over and install one adapter to each corner of the cabinet using the supplied screws. Only tighten snugly or the plastic may break.

Flip the cabinet over and securely screw to the wall in a suitable location close to vacuum system. Refer to the following photo for a typical installation layout.



Connect the A3200 Solution Line Kit

Connect the two assemblies shown at right to your facility's water lines, one to the cold line and one to the hot. Run solution line from each of the assemblies to the supplied 'Y' fitting, and push one line into each port. Securely push the line into place until you feel it hit a stop – that is all that's required for these connections. **These valves will be used to set the temperature of the water going into the pump.** Note that the fittings on the assemblies are compression fittings and will need to be assembled in the same manner as the previous fittings at the vacuum unit water inlet.

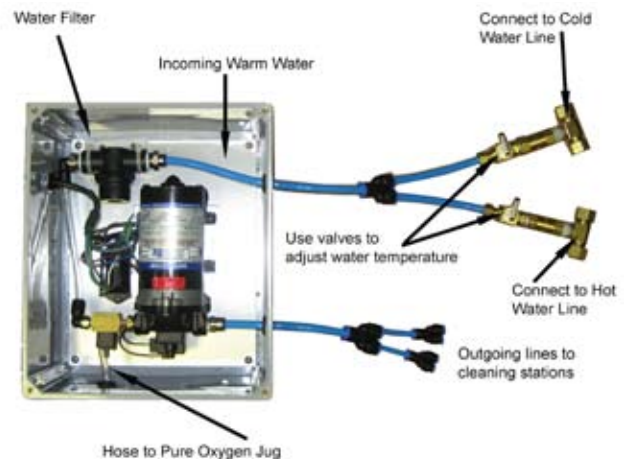
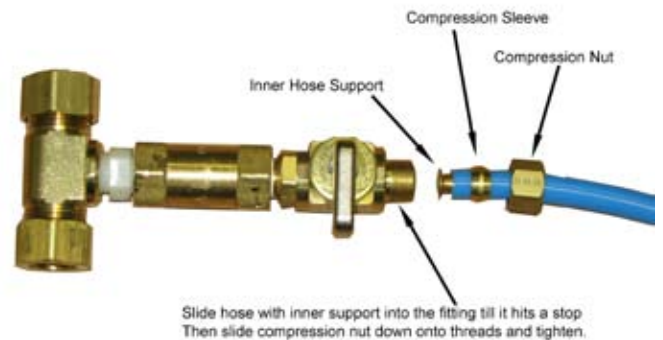


Complete the Cabinet Installation

As shown in the above photo, continue connecting the solution lines to the cabinet. Each line pushes snugly into place by hand and will need no further adjustment.

The supplied clear line, that was inside the cabinet, is run into the cabinet from underneath and pushed over the Pure Oxygen mixing valve. The other end is dropped into the jug of Pure Oxygen. The mixing valve has been calibrated at the factory to mix the recommended amount of Pure Oxygen into the water – no further adjustment is needed.

NOTE: If you have a very short distance (one meter or less) between the 'Y' fitting that mixes the cold and hot water, it is possible that the water will not mix thoroughly. In this instance, install an extra metre of hose, and form it into a loop. This will aid in the mixing of the hot and cold water.



**Install the Vacuum Piping
(A3400 Box of Fittings and customer supplied tubing)**

Due to its size, the PVC tubing required for your system is not supplied by Anivac. This tubing can be purchased at most hardware centers and is normally referred to as “Central Vacuum Tubing”. While installing your tubing and fittings, it is imperative that you use a cleaner on both sides of all joints prior to gluing the connections together. This cleaner will be available at the same place you purchased the tubing. Acetone is an excellent cleaner that can be a more cost effective solution to purchasing the branded tubing cleaners on the market. This too, is normally sold in most hardware stores.

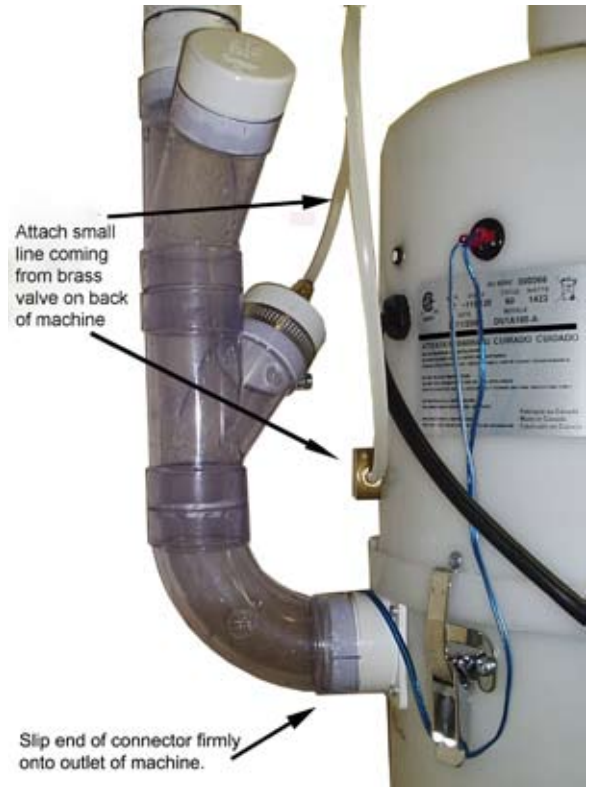
This tubing installs quite similarly to a household central vacuum system with one notable exception – this system will be handling water and water runs downhill. Therefore, you need to ensure that every connection takes this into account (**ie: all connections MUST flow water towards the machine and not away from it**).

Start the installation of the vacuum machine by installing the A3500 Inlet Assembly. The inlet assembly installs as per the following drawing (at right).

When installing the vacuum inlet, first slide the assembly onto the plastic port coming out of the left hand side of the machine.

Note: you must ensure that you have connected the plastic water line that is running from the brass valve on the back of the machine.

To connect the hose to the fitting, remove the nut from the end of the nozzle and place it over the plastic tube. Then, insert the tube onto the small fitting the nut just came off of, then reinstall the nut. Tighten the nut by hand only ¼ turn more – using a wrench.



Installation of the vacuum piping

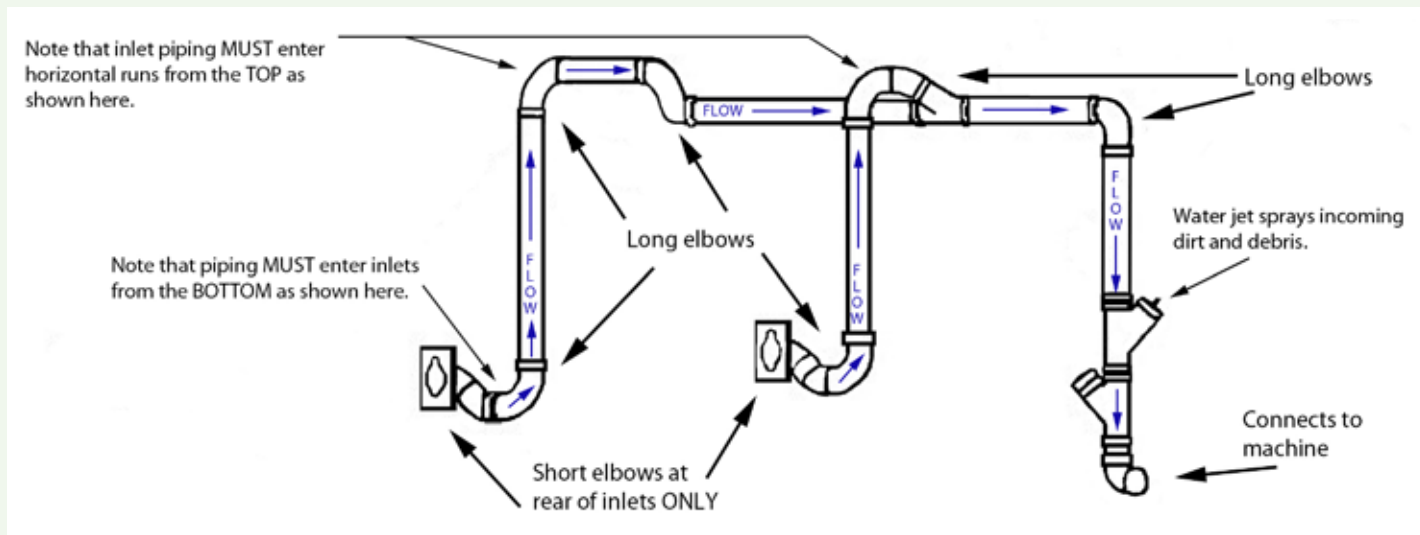
Note that excessive length of runs will lower the vacuum performance of the system. We do not recommend installing any runs of more than 25 meters (82 ft) in length. To determine the air inlet valve locations, use the suction hose length as a measuring device and extend between the farthest point you wish to reach, and the wall where the air inlet valve will be installed. Proceed in the same manner for all the air inlet valves until the entire floor area of the building may be reached with the suction hose by jumping from one air inlet valve to the other.

NOTE : Inlet valves and solution lines must be securely fastened to a suitable framing member or other solid surface. For in-wall construction you will have to drill holes through the framing members for the piping, or alternatively, run the piping from a space above or below.

Piping preparation :

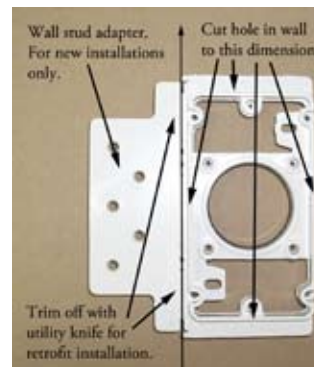
- Cut with a saw at 90°
- Remove all internal and external burrs.
- Apply glue only to the male part of the joint
- **All joints MUST be thoroughly cleaned with primer BEFORE glue is applied.** Failure to do this may result in broken seals and leaks!

Note that long radius elbows must be used at all bends, with the exception of the final connection to the back of each of your vacuum inlets. In these locations, a short radius 90 degree elbow can be used. The following diagram shows the necessary method for all junction points. Failing to follow this drawing will result in poor performance and clogs in your system.



Install Vacuum Inlets and Solution Line Ports

Inlet/Outlet Ports can be installed in any hollow wall space of 90mm (3.5") depth or greater. Ports come complete with a mounting flange that is intended for new installations where access to wall studs is available. For other installations, use a jigsaw or other tool to cut out an opening the size of the port. Using the port assembly as a guide, draw an outline of the port on the area of installation (drywall, wood etc). We recommend installing ports (one for vacuum and one for solution) beside each other at a level of about one meter (39") from the floor. The solution line port must be installed within 150mm (6") of the vacuum inlet port.



On-Wall Installations

On wall installation involves using the following inlets and outlets. These are installed onto the surface of the wall and do not require extensive drilling or modification of your facility.

NOTE: the On-Wall Vacuum Inlet above is made on site from parts in the installation kit. You will use three elbows for each inlet and the supplied door assembly. Secure all components carefully to the facility's structure.



Run Solution Line to Cleaning Stations

Starting at the cabinet, use the supplied 'Y' fittings and plugs to set up the number of stations you intend to install.

Run the solution line from each of these ports to the cleaning station(s), and plug the end of the hose onto the single barbed fitting on the solution outlet. For in-wall installations it's at the back of the fitting and for on-wall installations it's at the top of the outlet assembly. To connect, simply push the hose onto the barb until it's against the stop. There is no need for hose clamps.

Multiple cleaning stations can also be covered by way of using a 'T' fitting (supplied) to interrupt a run and drop a line to a station.

NOTE: all joints made in water lines should be installed in a location that is fully accessible and viewable. Not doing this could lead to leaks going undetected for long periods of time and causing damage.

NOTE: in areas where cold weather is encountered, covering the solution lines with a suitable insulation will aid in keeping the solution warm on its way to cleaning your animal and reduce the risk of freezing.



Cabinet outlets configured for four cleaning stations.

Install Mufflers

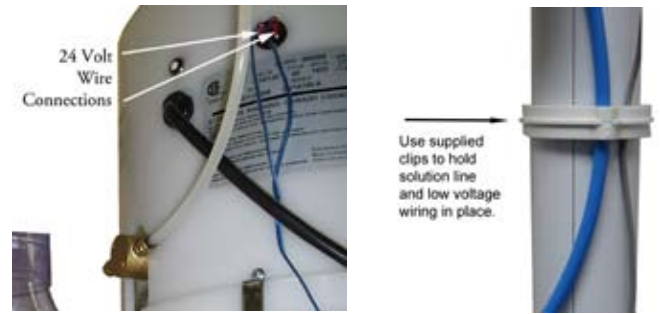
Install A3600 Exhaust Muffler by using the supplied piece of metal tubing and one 90 degree long radius elbow. The metal piece acts as a heat sink, that draws some of the heat from the motors exhaust away from the plastic fittings. Leave half of the metal tube exposed to the air in order to aid the extraction of heat from the air.

Install A3700 Inlet Muffler by first cleaning the top of the A3000 Vacuum System all around the air inlet hole on top of the machine. Then, peel the protective covering off of the tape on the bottom of the inlet muffler and place the muffler carefully so that it completely covers the inlet hole. Press firmly in place to set the adhesive.



Install 24 Volt Wiring to Vacuum Inlets

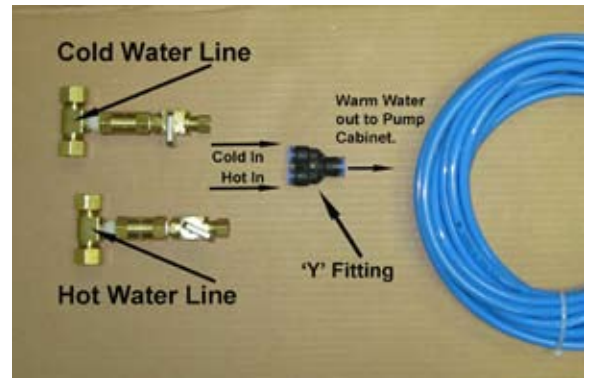
The 24 Volt wiring supplied with your machine is used to tell the vacuum portion of the system when to turn on and off. Run the wires from the two clips on the side of the A3000 Vacuum Assembly to each vacuum inlet, ensuring that it always connects the same wire to the same pin contact (left or right) at each inlet. Secure the wire in place at regular intervals, by use of the small wire clip that is part of the supplied vacuum tube clamps.



SETTING UP YOUR SYSTEM FOR USE

IMPORTANT – Turn on Water supply for vacuum inlet

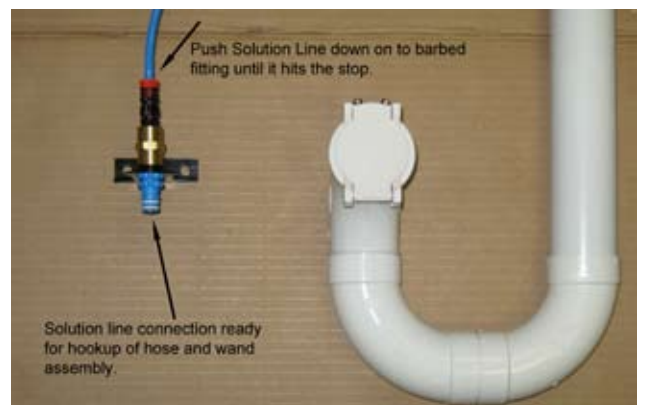
On the A3800 Water Line Supply Assembly that takes cold water to the A3000 Vacuum System - Turn on the valve that supplies water to the 1/4" line (the smaller of the two) and leave this on at all times. This supplies water to the incoming air stream and ensures all dirt is caught and flushed into your drain system and not carried into the vacuum motor. Not having this on will cause dust to be carried into the vacuum motor which WILL cause severe damage to your system, which is not covered by warranty.



Set Water Temperature for the System

Plug in Vacuum System and Water Pump. Connect a hose/wand assembly to one of the solution outlets installed previously and pull the trigger on the wand. Hold until water comes out and let run for several minutes so the water temperature can stabilize. Should adjustment be needed you can adjust the cold and hot water valves (the ones you installed to feed water to the pump cabinet in the kit below) so that you get warm water coming out of the wand.

Plug your vacuum hose assembly into one of the vacuum inlets – this will trigger the system to turn on. Then plug in the solution line that is at the end of the vacuum hose. The line is connected by pushing it lightly onto the fitting inside the inlet and turning it ¼ turn clockwise. In the case of on-wall installations the connection is at the bottom of the solution assembly – refer to the following photos. Enjoy your system!

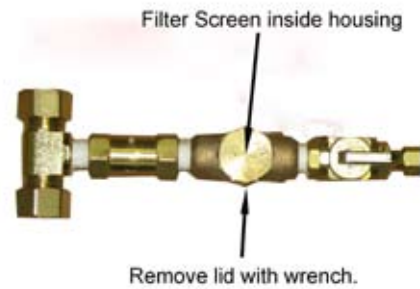


MAINTENANCE PROCEDURES

All mechanical systems require some maintenance. Your ANIVAC system is no exception. Beyond the occasional external cleaning, we recommend a complete cleaning and inspection after 500 hours of usage.

- 1) Keep the equipment clean, both inside and out.
- 2) Flush solution systems regularly by replacing your shampoo bottle with one of pure white vinegar. Run the system until you can smell the vinegar solution coming out of the end of the wand. Then let sit overnight prior to flushing with clean water. This will counter act hard water and alkaline deposits and will aid in keeping the spray nozzles clean. Do this at least on a monthly basis for best results.
- 3) Clean the water filters on a regular basis. Since we cannot determine the level of cleanliness of your water supply, we recommend that both filters be removed and inspected after the first months of operation and then at intervals deemed adequate thereafter. Under no circumstances should the filters be left more than 6 months without cleaning. Not doing so will shorten the life of your pump. There is one filter on the main system water inlet and one inside the pump cabinet. Remove the cover and the screen inside. Clean the screen thoroughly and replace. Do not overtighten the lids when reassembling!
- 4) **Do not allow the unit to freeze!** Do not store in freezing temperatures unless a suitable amount of "Plumbing Line Anti-Freeze" has been run through the entire system, including tank, pump, solution lines and all wands. Plumbing line anti-freeze is safe for human and animal use and is available at most hardware or recreational vehicle stores.

DO NOT USE AUTOMOTIVE ANTI-FREEZE !!



WINTERIZING PROCEDURE

First, turn off the water supply to the entire system and unplug the electrical cord of the A3100 Filter and Pump Assembly. Then remove the plastic water line that runs into the filter assembly by pressing in on the sleeve collar and gently pulling on the hose. Run a length of 9.5mm (3/8") hose into a jug of Plumbing Line Anti Freeze and back to the filter port. Then plug the electrical cord of the pump back in. Starting from the inlet farthest away from the vacuum system, plug your hose assembly into each of the solution line ports and pull the trigger on the wand assembly until the anti freeze solution comes out the end (you will be able to tell by the colour). Repeat for each of your cleaning ports and you're done – this portion of the system will be protected for the winter.

Remove the line running into the cold water supply for the main vacuum system (not the supply lines for the pump and filter cabinet above). Drop the end of this line into the jug of plumbers line antifreeze. Plug back in the pump and main vacuum system. Have someone turn on the vacuum by plugging in a vacuum hose. This will force the antifreeze into the internal workings of the machine.

Now the winterizing is complete. If you turn off the water to the entire barn then leave all valves in the open position until such time as you set the system up to run again.

If any questions please contact Anivac directly and we will be glad to help you through the process!

The pump components are very expensive and freeze damage is not covered by Warranty.



TROUBLE SHOOTING

Unit will not start

- 1) Check the circuit breaker in your electrical panel.
- 2) Check fuse and breaker in the unit.
- 3) Verify the 24 volts circuit. To check proceed as follows :

With a piece of metal (eg. coin) make contact between the two metal pins inside of the air inlet valve you are having the problem at.

If the system starts, the metal end of the suction hose is defective – clean the end thoroughly and retry. If the system does not start check the volts unit circuit as follows: using the same metal piece, make contact between the two screws of the 24 volt air inlet circuit plate.

The 24 volt wire may be cut somewhere OR an air inlet valve is defective. To check, disconnect the 24 volt wires from the machine. Then use a small piece of wire to connect the two contact pins on the machine together. If the machine starts then there is a defect in the 24 volt wire circuit. If the unit does not start then call a certified electrician to check the 110 Volt circuit.

If the unit will not stop

Check the 24 volt circuit as follows:

Disconnect one of the two 24 volt wires on the unit. If unit stops, the two wires are in contact somewhere in the circuit OR an air inlet valve is defective. If unit does not stop, the contractor on the machine is defective, call a service agent.

If you need a service agent contact your local supplier or email support@anivacfirst.com

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