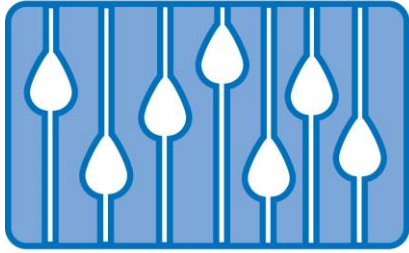




ANIVAC



Cleaning Systems

Animals, Facilities & Farms

INSTALLATION AND MAINTENANCE

INSTRUCTIONS – Part 1 of 2

Model A1450 Olympic II

&

Model A1460 Olympic

ProPak

**Please read these instructions prior to
beginning the installation of your system!**



Congratulations on your purchase of an Ogena Solutions ANIVAC Central Vacuum system. You are now equipped with the finest in animal bathing and facility cleaning systems available today. With good maintenance this system will provide you with many years of enjoyable service.

Main features of ANIVAC built in systems:

- ANIVAC automatic central vacuum systems are designed for both liquids and solids – they can be used for both wet AND dry vacuuming.
- skin deep cleaning when bathing animals
- drastic reduction in water usage
- virtually eliminates the mess associated with traditional bathing methods
- with only commons sense precautions safe winter bathing is possible
- reduces the need for traditional grooming appointments
- reduces the opportunity for fungal and other skin infections taking hold
- the person doing the bathing stays dry!
- By venting outdoors the system virtually eliminates the recirculation of dust or germs in the building.
- Drastic reduction in mold inviting condensation buildup in facilities.

IMPORTANT SAFETY PRECAUTIONS

WARNING

To avoid fire, DO NOT use with a flammable or combustible liquid to clean stalls, pens or any other surfaces.

Common sense is a powerful force in protecting the operator, animals, the equipment and others from serious injury and/or death. When using this system, basic precautions should always be followed, including the following:

- 1) **DO NOT** leave plugged in when servicing.
- 2) **DO NOT** allow unit to be used as a toy. Close attention is necessary when used around or near children.
- 3) **Use only** as described in this manual. Use only manufacturer's recommended attachments.
- 4) **DO NOT** use with damaged cord or plug. If unit is not working properly because it has been dropped, or damaged in any way please contact Anivac or a local service technician.
- 5) **DO NOT** handle plug or appliance with wet hands.
- 6) **DO NOT** use with any opening blocked. Keep free of dust lint, hair or anything else that may block air flow.
- 7) **DO NOT** pick up anything that is smoking or burning such as cigarettes, matches, or hot ashes.
- 8) **DO NOT** use to pick up hazardous chemicals.
- 9) **DO NOT** use citrus-based (D-Limonene or citrus based) cleaners in this machine as they will attack the plastic housing.
- 10) **Disconnect** all controls before unplugging.
- 11) **Turn unit off** immediately if foam or liquid comes from machine exhaust. Empty & clean out recovery (dirty water) tank. If this occurs you may have very soft water . To alleviate reduce the shampoo mixture until the foaming is eliminated. In rare instances it may be necessary to add a de-foaming agent to the system by way of the installation of an additional spraying mechanism at the main system.
- 12) **DO NOT** use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
- 13) **DO NOT** use where oxygen or anesthetics are used.
- 14) **Replace** damaged or worn parts immediately with genuine original equipment parts to maintain safety and ensure the long life performance of your machine.
- 15) **This unit must be connected to a properly grounded outlet only.**

DANGER : Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. **DO NOT** modify the plugs! If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

GROUNDING INSTRUCTIONS

This machine **must** be properly grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock. This machine is equipped with 2 pigtail cords having an equipment-grounding conductor and grounding plug. The pigtails must be inserted into an appropriate 120V plug with a dedicated 15 amp circuit breaker.

Note: For further protection we recommend the use of a GFCI (Ground Fault Circuit Interrupter) circuit breaker or outlet.

Central Vacuum System

This is the heart of the vacuum portion of your machine. Depending on model it will require plugging into a grounded electrical outlet controlled by a dedicated 15 amp (Olympic II) or 20 amp (Olympic ProPak) circuit breaker. For additional safety we strongly 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. Ogena Solutions assumes no responsibility for the improper electrical hookup of our systems.** Please consult a certified electrician for assistance.



Pump & Filter Assembly

This is the heart of the water system for this machine. On the right side of the cabinet you will find one inlet and two outlet ports. The inlet port is where warm water feeds into the cabinet, runs through the regulator, filter and pressure boosting pump, past the Pure Oxygen mixing valve(s) and then 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. Ogena Solutions assumes no responsibility for the improper hookup of our systems.** Please consult a certified plumber for assistance. When dealing with local authorities advise them that the plumbing involved in this installation is related to equipment and not for drinking water use.



Vacuum Unit Components

- 1.5" clear vacuum piping that attaches to the vacuum unit on the left hand side.
- Hose Clamps for clear piping connections. In order to allow easy access to clean out possible blockages DO NOT GLUE these connections!
- Wrench for use on hose clamps
- 20 Amp Wall Plug matching the plug supplied with the ProPak system
- Exhaust Door for use when exhausting outdoors (recommended installation)
- Splash Curtain – Can be installed around base of unit to lessen the chances of soiled water splashing out of the funnel/strainer assembly.



Water Lines and Fittings

- This assembly attaches into your cold water supply line and feeds water directly to the Vacuum System via a water line that comes out of the back of the vacuum machine. **This line supplies the water that is used to wet down and filter out debris from the 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.
- 100 ft of 1/4" blue polyethylene water line that runs to:
 - each of the bathing stations
 - each of the floor and hard surface cleaning stations
- 30' of 3/8" water line that feeds water to and from the pump cabinet.
- Two Additional Brass Valve Assemblies – 1/2" Copper/PEX to 3/8" Blue Polyethylene Water Line that feeds hot and cold water to the Pump Cabinet.
- Fittings that are used at the outlets of the pump cabinet to bring the line size down from 3/8" to 1/4". Various fittings are supplied to aid in matching the requirements of your installation



Central Vacuum Line Fittings

This box contains the 1.5" PVC Vacuum Line fittings that you will need in order to install the vacuum portion of the system. NOTE: Ogena does not supply the 1.5" round 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.



Bottom Funnel Assembly and "P" Trap

This funnel and drain are part of the 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 is equipped with a back flow check valve and ties directly into your existing facility drainage system. Note: since we cannot know your facilities drain setup you will need to purchase some additional drain related components that relate to your particular drain setup. These can normally be purchased at any local home building center.

The funnel has a removable strainer assembly (right) that fits inside the funnel. It safely catches any hair and debris that is too large to go into your drain system so it can be disposed of in the compost (if hair) or trash.



Inlet Mufflers and Steel Heat Sink

- One inlet muffler for each of the two vacuum motors installed in the main vacuum unit.
- Steel Heat Sink (2" x 3.5" long metal pipe) is used with the Exhaust Muffler packaged separately in the box.



Vacuum Hose and Wand Assembly

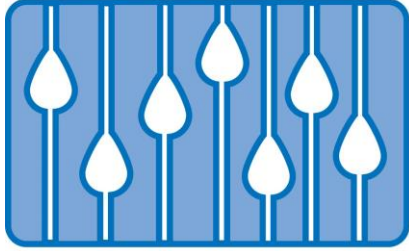
This is the hose assembly that you use when cleaning. One end plugs into one of the wall inlets for the vacuum system. The metal ring on the cuff touches two contact pins inside the wall inlet which completes a 24 volt circuit and tells the vacuum system to turn on. When the hose is removed from the inlet the vacuum will turn itself off. The water line connection attaches with a ¼ turn clockwise onto the water supply outlet that you will install.

Each system comes with two wands, one 3.5" (80mm) and one 2.0" (50mm). Both wands come with Ogena's patented nozzles and a clip on brush that makes the wand suitable for hard surfaces or full body clipped areas on animals. The wands are changed by means of a quick connect in front of the spray trigger that uses a simple ¼ turn counterclockwise direction to disconnect and the opposite to connect.





ANIVAC



Cleaning Systems

Animals, Facilities & Farms

INSTALLATION AND MAINTENANCE INSTRUCTIONS –

Part 2 of 2

Model A1450 Olympic II

&

Model A1460 Olympic ProPak

Please read these instructions prior to beginning the installation
of your system!



Now on to your install !

Install the Central Vacuum Assembly

When deciding on the placement of your system it's important to take into account the location of your existing hot & 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.

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 the Olympic - 15 amps 120V and for the ProPak 20 amps 120V). 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. Ogena Solutions assumes no responsibility for the improper electrical hookup of our systems. Please consult a certified electrician for assistance.

First you will be hanging the system into it's 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 systems weigh about 40 kg (85 - 110 pounds) when full of dirty water – as such the hanger **MUST** be mounted in a secure location. We suggest securely screwing a heavy piece of plywood between the buildings 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 that 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: ProPak requires approximately 17” of clearance between the two hangers (not 21.5”)

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 Olympic II (or 17.0” for the ProPak) 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 and then test to ensure you have enough clearance to remove the strainer easily.

Connect the check valve to the bottom of the machine (Olympic II only, the ProPak valve is installed at the factory), and hook the bottom funnel assembly to the facilities drain system.

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 and then tie the bottom funnel drain into your facilities drain system. Due to the various nature of the components needed for each individual install, Ogena Solutions does not supply the components needed to tie this into your facilities drain system. **NOTE: Due to the changing requirements by regions, Ogena Solutions do not assume any responsibility for the “to government code” installation of it's 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 install of the water supply ensure that the water supply to the area 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 Ogena Solutions cannot assume any responsibility for the “to code” installation of any of it's products.

Install Vacuum System Water Line Supply Assembly

Cut approximately 25cm (1”) out of your cold water supply line and 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. 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 it's place on the machine, slide it over the tubing, on the solution line insert the supplied inner hose support into the end of the hose, insert the hose into the base of the compression fitting and then tighten snug with a wrench. **DO NOT** tighten excessively or the compression sleeves may collapse. It is better to start off by tightening snug and 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 and 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. Do not overtighten or the plastic may break. Flip the cabinet over and securely screw to the wall in a suitable location close to vacuum system. Reference the following photo for a typical installation layout.

Connect the Pump Cabinet Solution Line Assemblies and water lines

Connect the two assemblies shown above to your facilities 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.**

Complete the Cabinet Installation

The solution lines push snugly into place by hand (until you feel a solid stop. Once inserted rotate the line a half turn in each direction to aid in the setting of the seal – they will need no further adjustment.

The supplied clear lines that are inside the box with the Pump Cabinet are attached to the nipple on the bottom of the Pure Oxygen mixing valve(s) on the side of the Pump Cabinet. The other end is dropped into the container of Pure Oxygen or disinfectant solution (ProPak). The mixing valve has been calibrated at the factory to mix the recommended amount of Pure Oxygen or disinfectant solution 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 meter of hose and form it into a loop. This will aid in the mixing of the hot and cold water.

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

Due to its bulk, the PVC tubing required for your system is not supplied by Ogena Solutions. 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 purchase 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. Due to this 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 at the vacuum machine by installing the vacuum inlet fittings. The fittings install as per the following drawing:

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 and then reinstall the nut. Tighten the nut by hand and then only $\frac{1}{2}$ a turn more using a wrench.

Installation of the Vacuum Piping

Note that excessive length of runs will lower the vacuum performance of the system. As such 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 one exception being 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 diagrams on the following page show the necessary method for all junction points.

Failing to follow these drawings will result in poor performance, leaks, and clogs in your system!

Mandatory Vacuum Piping Installation Directions

Install Vacuum Inlets and Solution Line Ports (in-wall installation)

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 by using the port assembly as a guide to 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 from the floor of about one meter (39 in) **The solution line port must be installed within 6” of the vacuum inlet port.**

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, being sure to always connect 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.

Run Solution Line to Cleaning Stations

Install the adapters to the outlets on the Pump Cabinet per your layout ie: you may have 1, 2 or perhaps more stations that you have run the vacuum piping to – each of these will require a dedicated run of the blue 1/4” water line supplied. DO NOT put any junctions inside walls – every station should be fed with a continuous length of water line from the pump cabinet all the way to the wall outlet. While installing ensure that the line does not come into contact with any sharp materials inside the wall – failing to do so WILL result in leaks that could cause major damage. It is your responsibility to ensure the water lines are well protected. The lines are 'Push Connect' fittings that only require you to firmly push the line into the fitting until you feel a solid stop. Then gently rotate the water line ½ turn back and forth once or twice to help seat the sealing rings. This will complete the installation.

On-Wall Installations

On wall outlets are available from Ogena Solutions. These can allow you to put outlets in areas where the installation of in-wall piping is either impractical or not possible (concrete walls).

Install Mufflers

Install Exhaust Muffler by using the supplied piece of 1/5” 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.

Olympic II Installation

Install Inlet Muffler(s) by first cleaning the area around the air inlet hole on top of the machine and in the case of the ProPak also on the side 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.

On the ProPak the second inlet is on the right hand side of the vacuum unit and is held in place with the supplied self drilling/tapping screws.

ProPak Installation

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 (ex. 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 volts 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 contactor on the machine is defective, call a service agent.

If you need a service agent contact your supplier or call us!

Toll Free: 1-855-900-8822 Fax : (905) 664-2125 or email to support@ogenasolutions.com

WARRANTY

Ogena Solutions warrants to the original purchaser that products manufactured are free from defects of workmanship and material, provided such goods are operated and maintained in accordance with the instructions herein for a period of one year from the date of purchase delivery. If you have any trouble with your machine please contact us directly and we will be happy to take care of the warranty settlement.

Labor charges for repairs are included as part of the warranty.

Alterations and changes made to the machine without written approval of Ogena Solutions and use of unapproved spare parts will not be covered by warranty.

**Ogena Solutions Canada Corp., 442 Millen Rd, Unit 6, Stoney Creek, ON, Canada L8E
6H2**

Toll Free: 855-900-8822

Fax: 905-664-2511 Ph: 905-664-2125

www.ogenasolutions.com