

**1. PURPOSE**

This guide provides an overview of installing an ASI Self-Contained delivery unit.

**2. GENERAL SAFETY PRECAUTIONS**

In addition to observing the normal precautions associated with standard dental practices and procedures, the following additional precautions should be strictly noted and observed during the set-up, operation, and maintenance of this system.



**⚠ WARNING**

**QUALIFIED PERSONNEL ONLY**

The product should only be operated by qualified personnel only. The operator bears responsibility for the correct settings and proper use of the system. ASI Dental (ASI) cannot be held liable for any malfunction of this product, or performance failure and/or its designed or desired utility, nor can ASI be held liable for injuries to persons or animals, in any case when the device is misused or not operated, applied or maintained in strict accordance with user/owner instructions set out in the operation manual. In the event of any doubt or question, the user is to contact ASI for clarification or assistance.

Improperly maintained or operated systems or instruments may void the associated warranties.



**⚠ WARNING**

**COMPRESSED AIR**

The compressed air system that operates this unit is under pressure. Compressed air can propel dust or loose particles and can cause bodily injury or damage. Always turn the system off and bleed off air pressure before attaching or removing air lines or accessories or servicing this unit. All air lines should be periodically inspected and replaced if worn or damaged.

If an outside compressed air supply is used to power this unit, the air supply must be regulated to 80 psi or below. Excessive air pressure could cause certain components to rupture.



**⚠ WARNING**

**ELECTRICAL VOLTAGE**

This system is powered by high voltage electricity. Like any other electrically powered device, if it is not used properly, it can cause electrical shock. Always plug the power cord into an electrical outlet with adequate fuse protection and proper grounding. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. Improper grounding of the unit can result in a risk of electric shock. Always unplug the unit before doing any service or repair to the unit.

**3. ELECTRICAL INSTALLATION – SELF-CONTAINED**

Step 1 - Verify correct voltage selection.

Step 2 - Unwind the power cord from the back of the unit and plug into a dedicated electrical outlet for the plug voltage. (Fig. 1; Fig. 2; Fig. 3)



Fig. 1



Fig. 2



Fig. 3

Step 3 - Turn the Main Power Switch ON, located at the rear of the system.

Turn the Air Compressor Switch ON. The air compressor will turn on and begin pressurizing the system. The air compressor will automatically shut off after a few minutes when the air tanks have reach full pressure.

Turn the Suction Switch ON.

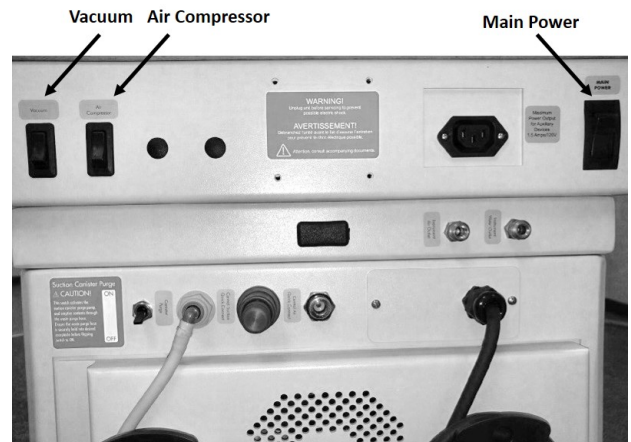


Fig. 4 Switch Locations

**4. INSTALLATION OF THE OPTIONAL PURGE HOSE QUICK CONNECT KIT (MODEL 90-2712)**  
**General Information**

Dishwasher installation kits are readily available from your local plumbing supply store. These kits normally contain the items that allow you to connect the purge hose to a sink drain using a dishwasher branch tailpiece. Depending on your application, it may be necessary to substitute components to match the plumbing fixtures used with your sink. If you need additional information, please consult with a plumber to assist you with the installation.

Dishwasher installation kits usually contain the following items:

- Dishwasher branch tee
- Flanged washer
- Rubber connection boot
- Hose clamp

The items contained in the Purge Hose Quick Connect Kit are:

- Plastic discharge hose 3/8" ID
- Bulkhead connector fitting

Step 4 - To connect the dishwasher branch tailpiece, follow the instructions in the plumbing supply kit for installing a dishwasher branch tee.

Step 5 - To attach the rubber connection boot, place the rubber connection boot over the tailpiece branch and tighten clamp. Then, insert the discharge hose into the other end of the boot and tighten clamp.

Step 6 - Installing the Bulkhead Connector Fitting:

Determine a location on the front or side of the sink cabinet for placement of the bulkhead connector.

Drill a 3/4" hole into the cabinet using a drill bit or hole saw.

Remove the nut from the bulkhead connector and place the bulkhead connector through the 3/4" hole in the cabinet (the hose barb end of the connector should be placed to the inside of the cabinet) and tighten the nut securely.

**i** *If the wall of the cabinet is too thick, it may be necessary to file away excess material from inside the cabinet surface in order to attach the nut to the bulkhead threads.*

Place the hose clamp over the discharge hose and push the hose fully onto the barb of the bulkhead connector. Tighten the hose clamp firmly.

Step 7 - Checking the Installation:

Unwind the purge hose from the back of the self-contained system and place the male connector into the bulkhead fitting.

Using the oral evacuation system, pump clean water into the waste container and pump out using the purge pump switch.

Check for leaks. If some leaks appear, additional tightening of nut(s) may be needed. If leaks continue, turn off the system and disconnect. Loosen plumbing attachments, check alignment of washer(s), and tighten again. (Fig. 5)

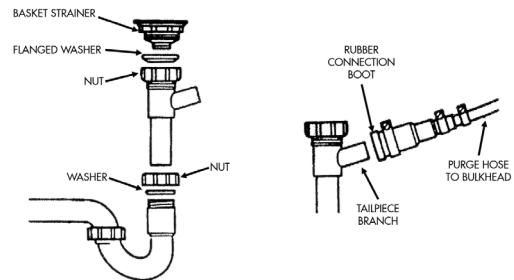


Fig. 5

**5. OPTIONAL UTILITY CENTER SYSTEM**

Self-contained systems may also have an option to be connected to a central air supply and optional vacuum. Connection of umbilical lines from the cart to an appropriate junction box are the responsibility of the user and should only be performed by knowledgeable individuals. (Fig. 6; Fig. 7; Fig. 8)



Fig. 6



Fig. 7

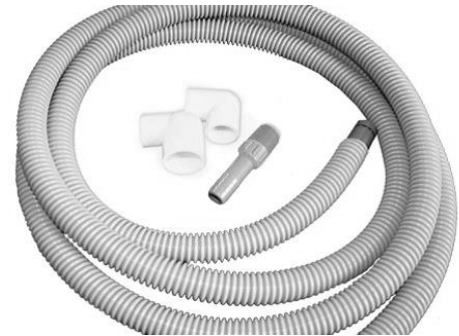


Fig. 8

**6. START UP**

Please refer to the “Getting Started” instructions that are sent with the unit (located on the worktop surface).

**7. OPERATIONAL FUNCTION CHECKLIST**

- Ensure all required safety notification labels are attached.
- Partially fill bottles and optional irrigator bottles with clean water and turn on to load into system. For umbilical units, ensure system is connected to a regulated air supply of 80psi. Check inside and under system for the absence of any water or air leaks.
- Plug the system into the appropriate electrical supply, then plug the circuit tester into rear accessory outlet and the interior outlet (if applicable) and verify wiring is properly configured.
- Check all of the functions (pressure, air purge, solution selector) of the clean water system and optional irrigation system.
- Test the air/water syringe for air and water spray. Adjust the flow valves accordingly to create a strong mist when both buttons are pushed at the same time. Adjust optional micro air syringe pressure to 5-10 psi working pressure, while operating.
- Attach a test handpiece to each handpiece tubing. Test each handpiece from left to right by operating the handpiece and setting the handpiece air pressure to recommended handpiece settings per the manufacturer.
- Turn on handpiece coolant spray and chip air to adjust the flow to each handpiece to achieve a fine mist. Ensure that the water stops and does not drip after releasing.
- Verify proper operation of all other installed accessory items according to their individual testing requirements per their installation instructions (e.g., electric instruments). Ensure all items using an auto-holder shut off properly when placed in the holder.