



SolmeteX Hg5<sup>®</sup>-HV Amalgam Separator  
Type 2 – Maximum Flow 2000 ml/min  
Maximum Fillable Volume 1900 ml  
Installation and Maintenance Instructions



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Thoroughly read and understand instructions prior to installing, operating and servicing the Hg5<sup>®</sup>-HV Amalgam Separator. These instructions are also available on our website at [www.solmetex.com](http://www.solmetex.com)



**The waste stream treated by the SolmeteX Hg5<sup>®</sup>-HV is generated by a dental vacuum system and as such may contain concentrations of solid and soluble mercury and silver. Because of this, any spills should be considered hazardous and should be handled in accordance with standard hazardous materials (HAZMAT) handling procedures.**

**Full Collection Containers are a HAZMAT and should be handled, stored and disposed of according to regulations applying to hazardous waste containing mercury. Always wear protective gear when handling full SolmeteX Hg5<sup>®</sup>-HV collection containers (latex gloves, safety glasses or face shield) and dispose of per local regulations and codes.**

**SolmeteX Warranty**

SolmeteX Hg5<sup>®</sup>-HV Air Water Separators are warranted against defects in material and workmanship for a period of two (2) years from the date of purchase, established by proof of purchase or formal warranty registration. During the warranty period SolmeteX will at its option repair or replace products that prove to be defective.

SolmeteX Hg5<sup>®</sup>-HV Collection Containers are warranted against defects in material and workmanship for a period of one (1) year from the date of purchase, established by proof of purchase or formal warranty registration. During the warranty period SolmeteX will at its option repair or replace products that prove to be defective.

Labor, transportation and service charges are not included.

**Limitations of Warranty**

The warranty shall not apply to defects resulting from improper installation, maintenance, abuse, unauthorized modification, or operation outside of the environmental specifications for the product or damages that occur due to improper repackaging of equipment for return to SolmeteX.

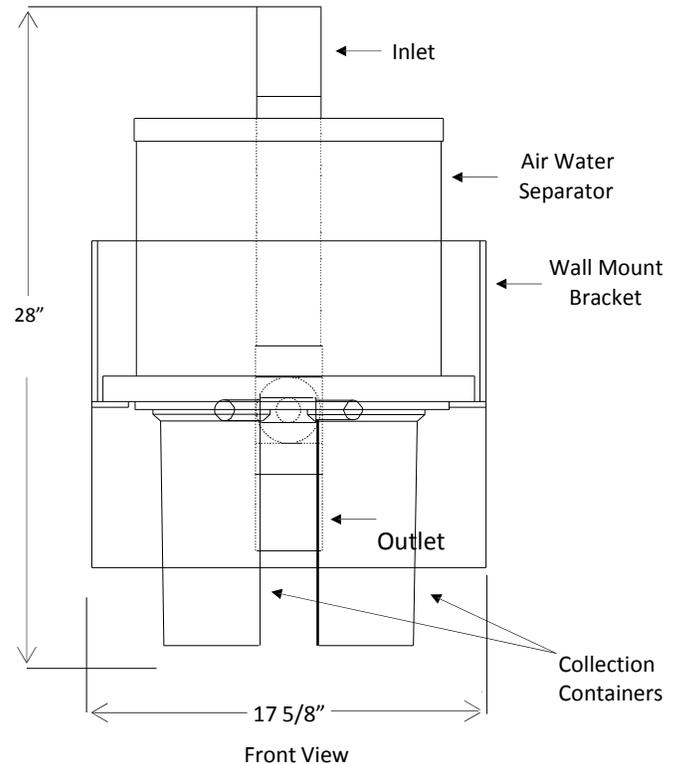
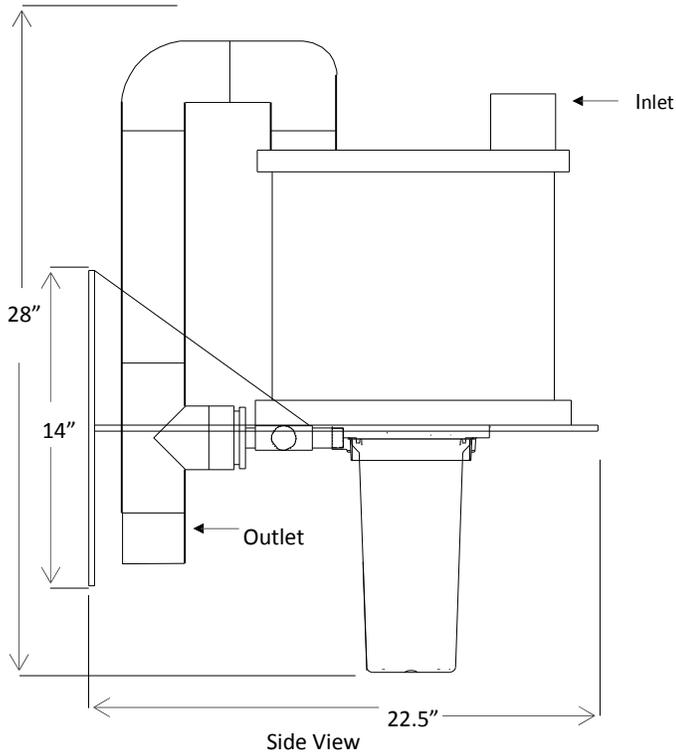
**USE OF THIRD PARTY COLLECTION CONTAINERS OR LINE CLEANERS HAVING A pH LESS THAN 6 OR GREATER THAN 10 WILL VOID THESE WARRANTIES.**

For a complete list of recommended cleaners, visit our web site [www.solmetex.com](http://www.solmetex.com).

No other warranty is expressed or implied. SolmeteX specifically disclaims the implied warranties of merchantability and fitness for particular purpose.

**Exclusive Remedies**

The remedies provided herein are the buyer's sole and exclusive remedies. SolmeteX shall not be liable for any direct, indirect, special, incidental or consequential damages, whether based on contract, tort or any other legal theory.



## Instructions

When choosing the location to mount the Hg5<sup>®</sup>-HV, remember that you must leave room to:

- Complete the piping.
- Access the front and sides of the unit for collection container replacement.
- Have the unit mounted higher than the pump and drain.

The wall mounted support bracket must be mounted to the wall prior to installation of the Hg5<sup>®</sup>-HV unit.

The support bracket should be stud mounted in order to support the filled weight of approximately 100 pounds.

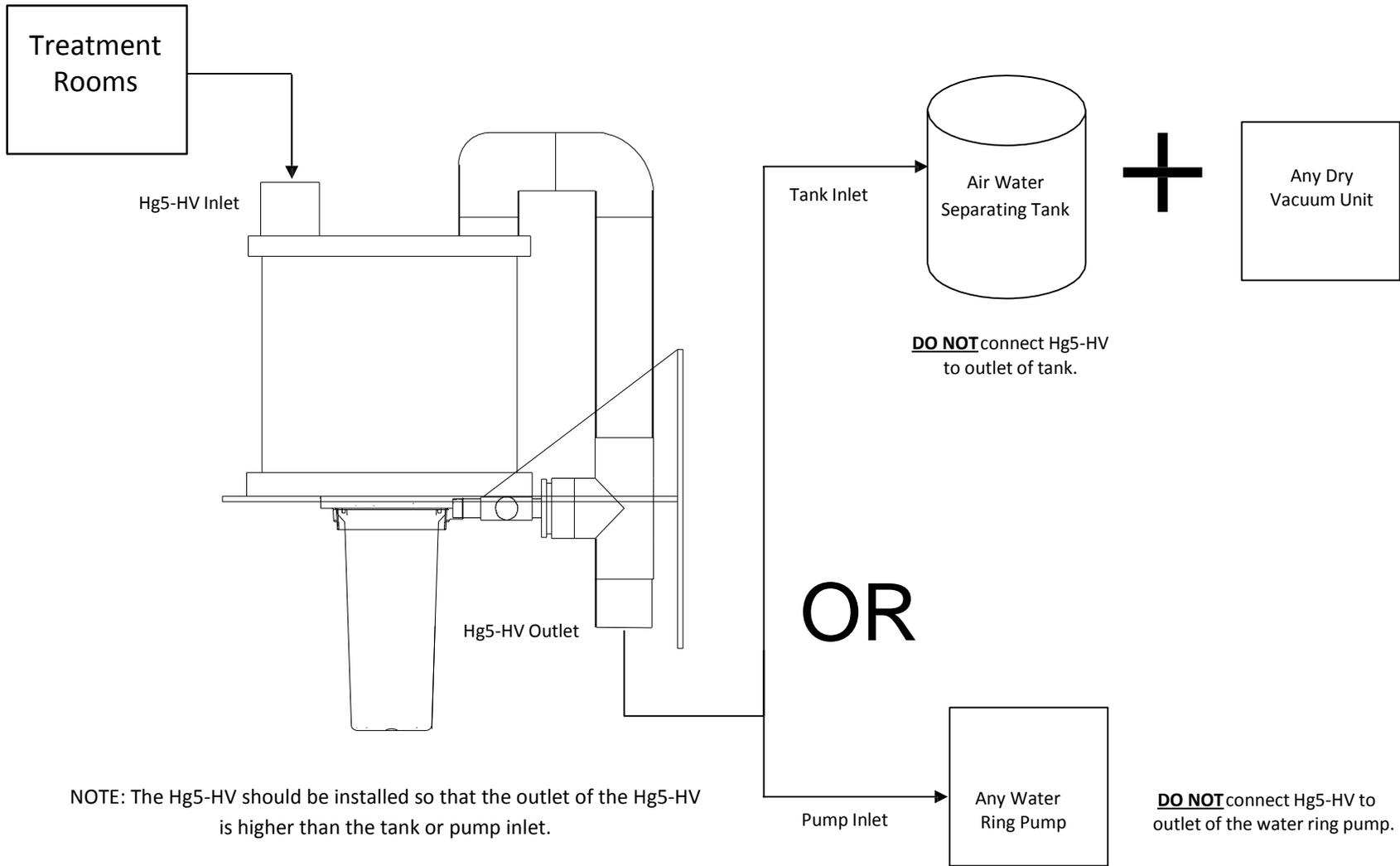
The inlet and outlet connections are 3" Schedule 40 PVC Pipe. It is recommended that flexible pipe couplings be used to connect the unit to the existing vacuum lines. Since pipe sizes can vary from site to site, bushings may be required to adapt the unit to the vacuum line piping at your facility.

- Remove all components from package(s) make sure you have everything, prior to proceeding.
- The unit is piped into the vacuum line between the treatment rooms and the vacuum source. The line from the treatment rooms is piped to the inlet of the Hg5<sup>®</sup>-HV and the outlet is piped to the vacuum source. **DO NOT** connect the unit to the outlet of the separating tank (dry vacuum system) or water ring pump (wet vacuum system).
- Determine the location of unit with respect to existing plumbing; pump location, drain and ease of collection container change out.
- Mount the back plate to an existing wall using lag bolts. The structure and bolts should be capable of supporting 100 pounds. Mount directly into the studs using the pre-drilled holes in the backplate. If no studs are available, molly bolts may be used providing they and the wall are capable of supporting the load.
- After mounting the bracket, lower the Hg5<sup>®</sup>-HV onto the bracket. It will sit between the two side supports. Use the four ¼-20 bolts supplied with the unit to secure the unit to the bracket.
- After the unit is installed, the two collection containers can be installed. (See included installation instructions).
- Write the installation date on each collection container.
- Complete the registration form and return to SolmetexX.

## Environmental Specifications

- Overall Dimensions: 17.625" W x 28" H x 22.5" D
- One Hg5-HV will serve up to 20 chairs
- Minimize water lift height.
- Maximum Temperature = 120<sup>o</sup> F (52<sup>o</sup> C).
- Maximum Vacuum = 15" Hg (51 kPa)
- For Dental Use ONLY

# Hg5<sup>®</sup>-HV Installation Diagram



NOTE: The Hg5-HV should be installed so that the outlet of the Hg5-HV is higher than the tank or pump inlet.

## MAINTENANCE

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- Collection Container must be replaced/changed once every twelve (12) months or when the sediment level reaches the full line; whichever occurs first.
- Check the sedimentation level of the collection container weekly
- Line Rinsing & Vacuum Line Cleaners - Cleaners should have these qualities: Non-Foaming, De-Odorizing, Sanitizing & pH between 6 and 10.

**USE OF LINE CLEANERS OUTSIDE OF THIS pH RANGE WILL VOID THE WARRANTY.**

For a complete list of recommended cleaners, visit our web site [www.solmetex.com](http://www.solmetex.com).

#### WITH DENTAL VACUUM SYSTEMS: Follow manufacturers instructions.

**Note:** Plan to rinse no more than 5 chairs every 10 minutes. Limit the total maximum flow to the Hg5<sup>®</sup> during rinsing to 1 liter per minute. Rinsing too much or too rapidly can overfill the Hg5<sup>®</sup> and could affect the unit's efficiency.



### SERVICE

The Hg5<sup>®</sup>-HV is designed to provide years of trouble-free service, with minimal attention. In the unlikely event of system related problems, please consult the troubleshooting and maintenance chart below.

Problem: Little or No vacuum at the hand piece

1. Check sediment level of collection container, if full change the collection container.
2. If the vacuum gauge reads normally but there is little or no vacuum to the hand piece, there is probably a clog or a leak between the hand piece and the Hg5<sup>®</sup>-HV.
3. If the vacuum gauge reads lower than normal these are the possible causes:

Did you just replace the collection container?

Yes:

Check installation of the new collection container. If the vacuum is low there is a possibility that the o-rings on the collection container did not seal into the receivers. Remove the collection container, check the o-rings and re-install per the collection container installation procedure.

No:

If you have a solids collection cup (installed by others) - Check & Clean or replace element/screen if necessary. Check operation of the vacuum pump.

- Listen for vacuum leaks.
- Check all connections for breaks or cracks.

Check all flexible hose for kinks, breaks, or loose clamps.

Problem: Water in the Upper Chamber (Air Water Separator)

1. Check sediment level of collection container, if full change collection container.
2. Check the pH of vacuum line cleaner, if below 6 or above 10 change collection container and line cleaner. Visit [www.solmetex.com](http://www.solmetex.com) for a recommended list of cleaners.
3. Call your dental dealer.
  - If the problem cannot be solved easily, call or e-mail your dealer for support.

Problems	Solution
Solids reach full line of collection container	Change the collection container Leave the vacuum running during process
Solids above full line of collection container	Change the collection container Inspect the top chamber for solids
Top chamber has some solids	System is backed up <ul style="list-style-type: none"> <li>• Turn on vacuum</li> <li>• Remove pins</li> <li>• Tilt container towards manifold to allow air into top chamber</li> <li>• Place container back on and insert pins</li> </ul>
Top chamber is full with solids	System is in bypass <ul style="list-style-type: none"> <li>• Reduction in suction</li> <li>• Solids released into waste stream and environment</li> <li>• Top chamber needs to be replaced</li> <li>• Full top chamber needs to be recycled</li> </ul>
Bring a flashlight	<ul style="list-style-type: none"> <li>• Most equipment/utility rooms have poor lighting. Using a flashlight from the backside of the system and shining it forward will help determine the level of sedimentation. Also can be used to inspect the top chamber using the same procedure.</li> </ul>