



## AIR SEPARATOR

w/ Removable Vent Head & Coalescing Medium

## INSTALLATION & SERVICING INSTRUCTIONS



### INSTALLATION INSTRUCTIONS

**See reverse for full Pro-Connect™ Press connection installation instructions.**

The Webstone Air Separator should be installed at the point where the temperature is the highest (i.e. after the boiler and/or heat exchanger) and the pressure is the lowest (i.e. before the pump suction). It is recommended that an expansion tank be mounted before the pump suction as well.

The Air Separator must be installed in a straight run of horizontal piping and positioned precisely upright. Designated lengths of straight piping before and after the unit are not required. Neither side is designated as an inlet or outlet; the flow may be directed in either direction. Do not exceed a 50% water/glycol ratio in the system.

### SERVICE INSTRUCTIONS

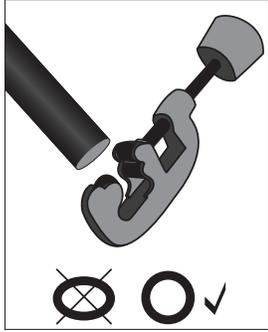
Regular maintenance of the unit is not required. However, over time debris may collect in the unit and impact performance. Should this occur, use the following instructions to clean the unit.

**CAUTION!** System fluid under pressure can be very hazardous. Before removing the vent head for inspection, reduce system pressure to zero, or isolate the Air Separator from the system. Water temperatures above 100°F can also be very hazardous. Allow the system to cool to below 100°F before proceeding. Keep body away from valve while open. Failure to follow these instructions may cause serious bodily injury or property damage.

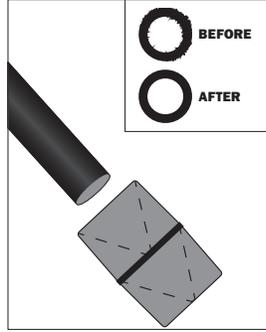
1. Using two strap wrenches, hold the upper body in place and remove the vent body cap ring, taking care not to damage the o-ring. Lift up on the vent stem to remove the vent head assembly.
2. Use a mild detergent or water/vinegar solution to clean the vent head assembly. If there is excessive build up, soak the vent head assembly in mineral spirits for several hours and then clean thoroughly.
3. If cleaning the coalescing material is also required:  
While the vent head assembly is removed, remove the upper body by using two strap wrenches on the lower and upper bodies of the air vent. Take care not to damage the o-ring.
4. Remove the coalescing medium from the lower vent body.  
**CAUTION!** Coalescing Medium is very sharp
5. Rinse thoroughly with mild detergent or water/vinegar solution to remove any build up that may have occurred.
6. Examine the o-ring before installing on the air separator to ensure no damage has occurred.
7. Reassemble the air separator.
8. Return system to operating condition.
9. If system was completely drained, minimal manual bleeding may be required to ensure the system is completely full of water and able to circulate.

# Installing Pro-Connect™ Press Connections

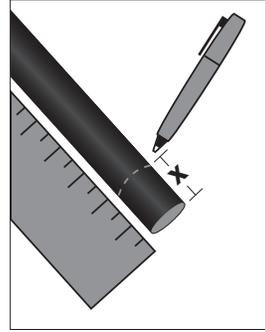
**STEP 1: CUT**



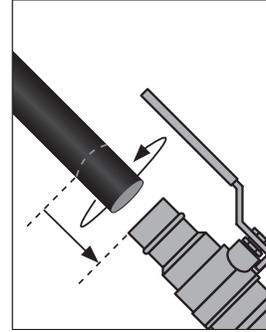
**STEP 2: DEBURR**



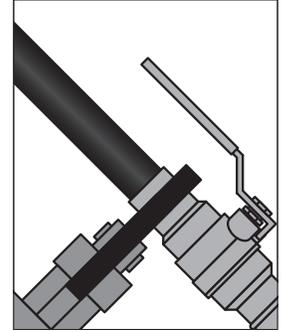
**STEP 3: MEASURE**



**STEP 4: INSERT PIPE**



**STEP 5: PRESS CONNECTION**



## Step 1 – Match Tubing and Valve Size, Cut Tubing

Match the copper piping with the appropriate Pro-Connect™ Press Air Separator. Verify that both the pipe and Pro-Connect™ Press Air Separator product are clean, undamaged and appropriate for the intended service. Cut the tubing to the proper length necessary for the installation.

**IMPORTANT: The pipe must be long enough to fit inside the Pro-Connect™ Press Air Separator, not just to reach its face.**

PRODUCT SIZE	INSERTION DEPTH
3/4"	1 9/16"
1"	1 9/16"
1 1/4"	1 11/16"
1 1/2"	1 7/8"
2"	2 1/8"

The approximate depth that the pipe will be inserted is shown in the table above.

When cutting the pipe, care must be exercised to ensure that it remains round and does not get flattened into an oval. Failure to do so may affect the performance of the joint.

## Step 2 – Deburr Pipe

Both inside and outside of the tubing must be cleaned of burrs prior to installation. Failure to properly deburr the interior and exterior of the tubing may result in damage to the product's o-ring and cause the product to leak.

## Step 3 – Measure Pipe Insertion Depth

Prior to installing the pipe into the Pro-Connect™ Press Air Separator, measure the approximate insertion depth from the end of the line and mark it with felt tipped pen.

## Step 4 – Insert Pipe

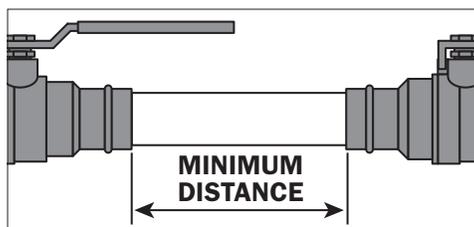
Insert the pipe into the Pro-Connect™ Press Air Separator and slowly turn the tube or product until pipe reaches fitting stop. Water may be used as a lubricant if desired, HOWEVER NO OTHER LUBRICANTS MAY BE USED. Verify the tubing has been fully inserted into the valve by measuring the distance between the end of the product and the line drawn on the tubing in Step 3. The line should be no further than 1/16" (1.5 mm) from the end of the press connection.

## Step 5 – Pro-Connect™ Press Fitting

Verify that the pipe is fully inserted to the mark. Keeping the jaw of the tool at a right angle to the product, center the jaw on the ring in the connection. Follow the instructions provided by the tool manufacturer to press the connection.

# Minimum Distance Between Pro-Connect™ Press Connections

To ensure a proper seal, a minimum distance is required between fittings. Failure to provide the required distance may distort the pipe, resulting in an ineffective seal.



TUBING DIAMETER	MINIMUM DISTANCE
1/2"	0"
3/4"	0"
1"	0"
1 1/4"	7/16"
1 1/2"	5/8"
2"	3/4"

# System Testing

The piping system can be checked for leaks once all connections have been completed. In the event a leaky connection is found, re-press the fitting following the instructions above. System testing should be completed in accordance with requirements or codes of any federal/state/local governing body having jurisdiction over the installation. Pro-Connect™ Pressure testing should not exceed the Pro-Connect™ Press Air Separator's maximum pressure rating of 150 PSI.