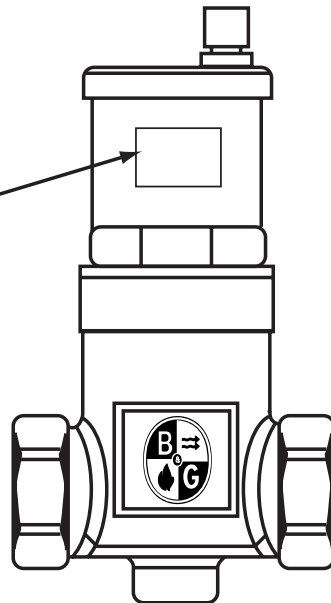


Warning label V56871 installed in this location. If missing, it must be replaced.



# Enhanced Air Separator Model EASB-JR

## Installation, Operation, & Service Instructions

**INSTALLER:** PLEASE LEAVE THIS MANUAL FOR THE OWNER'S USE.

### DESCRIPTION

The Bell & Gossett Model EASB-JR Enhanced Air Separator automatically removes entrained air bubbles in hydronic systems. As fluid enters the EASB-JR, the velocity is slowed down creating a low pressure area. The air bubbles are then released from fluid and collect on the coalescing medium. As the bubbles coalesce, they will rise to the top of the air separator where they can be released to atmosphere through the built-in automatic air vent. The air separator has a bottom 1/2" NPT connection to accommodate a B&G diaphragm expansion tank. The compact design and brass body construction make the EASB-JR ideal for residential and commercial hydronic heating systems.

### TECHNICAL SPECIFICATIONS

**Available Sizes:**

3/4" NPT	3/4" Sweat
1" NPT	1" Sweat
1 1/4" NPT	1 1/4" Sweat
1 1/2" NPT	
2" NPT	

**Materials:**

Body .....Brass  
 Coalescing Medium . . . .Stainless Steel



### SAFETY INSTRUCTIONS

This safety alert symbol will be used in this manual to draw attention to safety related instructions. When used, the safety alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! FAILURE TO FOLLOW THE INSTRUCTIONS MAY RESULT IN A SAFETY HAZARD.

**Chart A**  
**Working Pressure & Temperature Limits**  
 (Solder Type Limits Per ASTM Std. B16.18-1979)

FLOW-CONTROL STYLE	TYPE OF SOLDER	MAXIMUM LIMITATIONS	
		PRESSURE PSI	TEMPERATURE °F
NPT	–	150	250
SWEAT	95-5 Tin-Antimony	150	250



## INSTALLATION INSTRUCTIONS

### Enhanced Air Separators with Sweat Connections

1. Install the air separator in horizontal piping so that the air vent is in the top vertical position. The air separator is bi-directional so that water can flow in either direction (see Figure 1).
2. Use a torch with a sharp pointed flame.
3. Clean tube ends and air separator connection thoroughly.
4. Use 95-5 (Tin-Antimony) solder and a good grade of flux.

**CAUTION:** Heat associated with the use of silver solder may damage a Air Separator voiding the warranty. Do not use silver solder. Failure to follow these instructions could result in proper damage and/or moderate personal injury.

5. When sweating joints, first wrap the air separator with a cool wet rag, then direct the flame with care to avoid subjecting the EASB-JR to excessive heat.
6. Refer to Chart A for the maximum operating pressure and temperature based on the type of solder used.
7. After sweating the joints, check the connections for leakage.

### Enhanced Air Separators with NPT Connections

1. Install the air separator in horizontal piping so that the air vent is in the top vertical position. The use of Teflon tape sealer or a high quality thread sealant is recommended. The air separator is bi-directional so that water can flow in either direction (see Figure 1).
2. Check connections for leaks.

**CAUTION:** The use of Teflon® impregnated pipe compound and Teflon tape on pipe threads provides lubricity which can lead to overtightening and breakage. Do not overtighten. Failure to follow this instruction can result in moderate personal injury from hot water and/or property damage.

**WARNING: State of California Residents**  
This product contains a chemical known by the State of California to cause cancer. This product contains a chemical known by the State of California to cause birth defects or other reproductive harm.

## OPERATING INSTRUCTIONS

**CAUTION:** Contaminants and scale from the system can foul the automatic air vent operation mechanism. Keep vent cap closed tight during the system filling to prevent contaminants from running into valve vent mechanism. Failure to follow these instructions could result in property damage and/or moderate personal injury.

**CAUTION:** Hot venting can be hazardous. Avoid contact with venting fluid and only manually vent when system temperature is below 100°F (38°C). Failure to follow these instructions could result in property damage and/or personal injury.

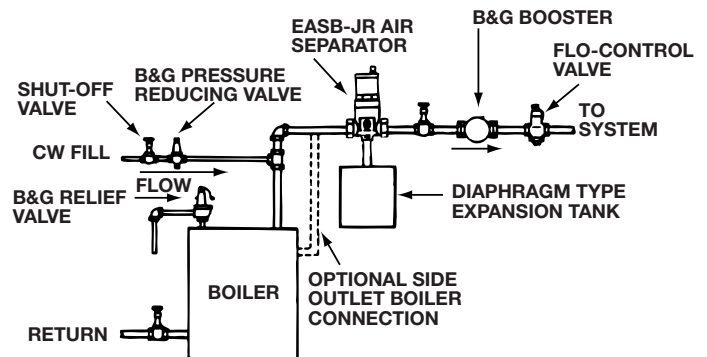
Turn the cap on top of the vent counterclockwise one full turn to allow the EASB-JR to automatically remove the air from the system. This is the normal operating position.

To shut down the automatic air vent, turn the cap tight. Be sure to turn the cap back to the open position (one full turn) for normal operation.

## SERVICE INSTRUCTIONS

**WARNING:** Servicing the Enhanced Air Separator with unit pressurized or at temperatures above 100°F (37.8°C) can cause personal injury. Make sure pressure is removed from unit and temperature is below 100°F (37.8°C). Failure to follow these instructions could result in serious personal injury or death and property damage.

The Enhanced Air Separator should not require servicing. If the system fluid contains large amounts of contaminants, the perforated metal strainer may become contaminated with foreign substances. The Enhanced Air Separator cap unscrews from the body for easy cleaning of strainer.



TYPICAL INSTALLATION – FIGURE 1

**CAUTION:** Uncontrolled venting of water can occur with automatic air vents if foreign material prevents vents from closing. Unwanted flow should be directed to a drain. Failure to follow these instructions could result in property damage and/or moderate personal injury.

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