



## **MODEL DSRS**

### ***Sediment Removal Separator.***

## *Operation, Maintenance and Installation Instructions*

### Description:

Delta sediment removal separators promote improved longevity for heating and cooling systems. They have two major functions. First, they separate and remove entrained air in hydronic and pumping systems. This is achieved by their tangential design which centrifuges the aerated water, separating the air centrally, and allowing for it to be released through the vent. Second, the sediment removal bowl present on the bottom of these vessels provides a collection area or sump where heavier particulate can accumulate and be easily removed

### Service Instructions:

1. There are no moving parts or strainers in the DSRS that requires any service.
1. The Blow down valve or any equipment associated with it, may require service or periodic inspection. Refer to their maintenance instructions for the required service details.
2. The DSRS should be inspected regularly for signs of corrosion. Excessive corrosion will cause the unit to leak or rupture. Failure could cause property damage or even serious personal injury.

### Operating Instructions:

1. The DSRS separates sediment from the system by utilizing the centrifugal force created by the tangential design of the separator. Heavier than water sediment particles are thrown against the inner walls of the DSRS and move down the walls to the sump in the bottom of the separator, where it collects.

Important: The DSRS is designed only for the removal of undissolved, inorganic, heavier than water sediment or solids that enter the system. The DSRS is not designed or intended to be used for removal of dissolved sediment or organic material, such as algae.

2. The sediment collected in the sump must be **periodically blown down or removed from the 2" NPT sump connection on the bottom of the DSRS.** If the sump is allowed to fill up with sediment without periodically being blown down, sediment will start to pass through the DSRS and not be removed from the system. Purging of the sump can be accomplished manually by blowing down the valve that is attached to the sump. An automatic valve with an adjustable timer can be used to blow down the system automatically.