

# SPIROTHERM, INC.

## Suggested Specification

### **SPIROVENT® Air Eliminator**

Furnish and install as shown on the drawings and schedule a full flow coalescing type air eliminator for the hot and chilled water systems. Selection shall be based upon system flow with pipe size as a minimum in accordance with the basis of design. In no case shall entering velocity exceed 10 feet per second. Separator shall be fabricated steel, rated for 150 psig working pressure, and stamped and registered in accordance with ASME Section VIII, Division 1 for unfired pressure vessels. The vessel diameter and height above the inlet / outlet connections must be equal to the basis of design. Unit shall include internal Spirotube® elements filling the entire vessel to suppress turbulence and provide air elimination efficiency of 100% free air, 100% entrained air, and 99.6% dissolved air at the installed location. The elements must consist of a copper core tube with continuous wound copper wire medium permanently attached and followed by a separate continuous wound copper wire permanently affixed. Each unit shall have a separate venting chamber to prevent system contaminants from harming the float and venting valve operation. At the top of the venting chamber shall be an integral full port float actuated brass venting mechanism. Units shall include a valved side tap to flush floating dirt or liquids and for quick bleeding of large amounts of air during system fill or refill. Basis of design for the air eliminator shall be the Spirovent® Series VSR or VHR as manufactured by Spirotherm, Inc., Glendale Heights, Illinois or approved equal as noted\*.

\* Alternates must be approved to bid 10 days prior to bid date and include dimensional drawing to verify actual size of vessel, verification of 150 psi ASME construction, and venting mechanism. A detailed certified drawing and photos of alternate coalescing elements shall be included showing material, grade, style, type, and placement of such elements within the vessel. Reduced vessel size, partial fill, or elements spaced apart will not be accepted. Alternates submitted for prior approval will not be subject to Revise and Resubmit option and will receive only one review. If not approved, basis of design must be furnished.