

# SPIROTHERM, INC.

## Suggested Specification

### **SPIROTRAP® Dirt Separator**

Furnish and install as shown on the drawings and schedule a full flow coalescing type dirt separator for the condenser water system. 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 and rated for 150 psig working pressure. The vessel diameter and distance below 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 minimum dirt separation efficiency of 80% of all particles 30 micron and larger within 100 passes. 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. A system strainer shall be installed upstream ahead of the dirt separator to catch all large material that may have been left in piping during construction. Basis of design for the dirt separator shall be the Spirotrap® Series TDT or THT as manufactured by Spirotherm, Inc., Glendale Heights, Illinois or approved equal as noted\*. Optional Series TDN or THN by Spirotherm, Inc. shall include removable lower head for internal inspection if so noted on the drawings and schedule.

\* Alternates must be approved to bid 10 days prior to bid date and include dimensional drawing to verify actual size of vessel and 150 psig design. 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.