

SECTION 238239 - UNIT HEATERS – PROPELLER

PART 1-GENERAL

1.1 SECTION INCLUDES

- A. Horizontal propeller unit heaters.

1.2 SUBMITTALS

- A. Submit shops drawings and product data per applicable Division I Specification
- B. Shop drawings shall include product data noting capacities at the specified conditions, materials, sizes, and dimensions.

1.3 QUALITY ASSURANCE

- A. Capacity rated in accordance with ARI.
- B. Hydronic coils shall be pressure tested to 400 psig.
- C. Units shall be UL or ETI listed and labeled.

PART 2-PRODUCTS

2.1 MANUFACTURERS

- A. Sterling
- B. Vulcan
- C. Trane
- D. Daikin

2.2 COMPONENTS

- A Hydronic Propeller Unit Heaters
 - 1. Coils: Seamless copper tubing, .025 inch minimum wall thickness, silver brazed to steel headers, and with evenly spaced aluminum fins mechanically bonded to tubing.
 - 2. Casing: 18 gage steel with threaded pipe connections for hanger rods.
 - 3. Finish: Factory apply baked enamel on visible surfaces of enclosure or cabinet.
 - 4. Fan: Direct drive propeller type, statically and dynamically balanced, with fan guard; horizontal models with permanently lubricated sleeve bearings.
 - 5. Air Outlet: Two- way adjustable louvers on horizontal throw models.

6. Motor: Horizontal models with permanently lubricated sleeve bearings.
7. Provide with: Local disconnect switch.
8. Capacity: Based on 65 °F entering air temperature, 180 °F entering water temperature, 30% propylene Glycol mixture, and a 30° F Delta T.

PART 3-EXECUTION

3.1 INSTALLATION

- A. Install per manufacturers requirements.

END OF SECTION 238239