

TERMINAL HEAT TRANSFER UNITS

1. GENERAL

1.1 Scope

- .1 Glycol Unit Heaters
- .2 Related accessories and specialties

1.2 Quality Assurance

- .1 Unit construction shall be per the construction details included at the end of this Section, and as described herein.
- .2 Terminal heat transfer units shall be product of manufacturer regularly engaged in production of such units who issues complete catalogue data on such products.

1.3 Submittals

- .1 Submit Shop Drawings and product data in accordance with Section 01300 – Submittals and Section 15010 – Mechanical General Requirements.
- .2 Provide all technical information relevant to the product being provided, including but not limited to all the information shown in the schedules of the Specification. It is the responsibility of the vendor to highlight any variances the equipment has with the requirements of this Specification.
- .3 Product data shall include dimensions, weights, capacities, component performances, electronic characteristics, construction details, required clearances, field connection details (indicating size and location) and proposed test descriptions, pressure drops, vibration isolation, gauges and finishes of materials.
- .4 Provide fan performance curves depicting the operating point described on the schedule for each individual fan.
- .5 Provide coil data sheets, clearly showing input data with proper consideration for altitude, air density, glycol correction, as well as clearly indicating the selected coils' output data.
- .6 Submit electrical requirements for power supply wiring including wiring diagrams for interlock and control wiring; clearly indicating factory installed and field installed wiring and accessories.
- .7 Submit manufacturer's recommended installation instructions.
- .8 Omission of any of the above information will cause submittal package to be immediately returned without review.

TERMINAL HEAT TRANSFER UNITS

2. PRODUCTS

2.1 Components

- .1 Casing: 16-gauge, separate top and bottom enclosures to allow for ease of maintenance, with epoxy powder coat.
- .2 Coils: mechanically bonded copper/aluminum formed coil tested for minimum 1240 kPag (180 psig) working pressure with fins oriented to resist collection of dirt and foreign particles.
- .3 Fan: lightweight, dynamically balanced and designed to move air efficiently and quietly with minimum power consumption.
- .4 Motors: high efficiency, totally enclosed, permanently lubricated for extended motor life, with easy motor removal and equipped with thermal overload protection. Explosion proof motors, thermostats and wiring to be suitable for Class 1, Div 1 application.
- .5 Air Outlets: die-formed venturi outlet draws air through unit for maximum airflow and equipped with one-way louvre.
- .6 Mounting: heavy duty threaded hardware allows unit to be mounted with threaded rod.

3. EXECUTION

3.1 Installation

- .1 Provide each unit heater with shut-off valve on supply and lockshield balancing valve on return piping.
- .2 Unit heater T620-UH shall be securely mounted as high as possible to the side of DAF Thickener Tank 2.

3.2 Performance

- .1 Refer to Equipment Schedules.

END OF SECTION