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AIR COOLED EXCHANGER SPECIFICATION SHEET

Table with 4 columns: Equipment Owner, Plant Location, Service, Size and Type, Surface/Unit - Finned Tube, Heat Exchanged, Transfer Rate-Finned Tube. Includes details like Air Products Manufacturing LLC, World Energy, Paramount, CA, USA, Isomerization Effluent Air Cooler, 11.708 x 24.000 ft, FORCED, No. Bays 2, etc.

PERFORMANCE DATA - TUBE SIDE. Table with 6 columns: Fluid Name, Total Fluid In, Vapor, Liquid, Noncond, Steam, Water, Temperature In/Out, Pressure In / Out, Velocity, Press. Drop Allow/Calc. Includes values for Isomerization Reactor Effluent, Specific Heat, Viscosity, Conductivity, Density, etc.

PERFORMANCE DATA - AIR SIDE (Air). Table with 4 columns: Std. air flow rate/item, Air Quantity/Fan, Actual Static Press, Face Velocity, Max Mass Velocity. Includes values for (SCFM), (ACFM), in H2O, (SFPM), lb/h.ft2, Altitude above Sea Level, Temperature In (Dry Bulb), Temperature Out, Min. Design Ambient, Fan Air Temperature.

DESIGN - MATERIALS - CONSTRUCTION. Table with 6 columns: Design Pressure psig, TUBE BUNDLE, Size, No./Bay, Arrangement, Bundles, Bays, Bundle Frame Finish, Header Finish, Structure Finish, Mounting/C TO C, Surf Prep, Louvres / Guards, Vibration Transmitter. Includes details like FV@350F, 550, Test Pressure psig, 727, Design Temperature, 555.0, 32, etc.

MECHANICAL EQUIPMENT. Table with 4 columns: Fan Mfg, Model, No./Bay, Fan Diam. Ft, Manual Adjust, Mat'l/Blade, hp/Fan, Design, hp/Fan, Min Amb, Plot Area per bay, Weight per bay lbs., Weight per unit lbs., dBA @ 3', Fan Wt Lbs. Includes details like MOORE, VE 36, 10000, Type, MOTOR, HTD, etc.

- 1. 10% plug & plug gasket included as spares
2. The motors will have a 1.15 SF on sine-wave power (constant frequency/speed) and will have a 1.0 SF at variable frequency.
3. Tube-tubesheet strength welded (no PWHT). Mockup required. Helium leak test
4. 100% RT header box external welds; 100% UT nozzle attachemnt after PWHT.
5. Wall thickness under fin = 0.109"
6. UOP 4-13-11 SPEC REQUIREMENTS APPLY. FLAMMABLE REQUIREMENTS IN ATTACHMENT C APPLY
7. Air seal provided between bays. Thrust blocks required for multi bay service
8. Surface prep and primer for short columns and spanning beams: Table A-2 System 4B of A8KM-PP-000-500520-A Painting.
9. Individual header compartments shall have provision for vent/drain. Split header vents and drains shall be 1" RFWN with 90deg elbow w/ blind
10. Front header split between row 1 & 2. Row 1&3 = 50 tubes; Row 2&4 = 49 tubes
11. 2 X API nozzle loads, except 3200 ft-lb for Mz.
12. Galvanized per A8KM-PP-000-500540 except fireproofed Structural Steel
13. System 2 after Hydrotest per A8KM-PP-000-500520
14. The exchanger shares piperack with 18-XF-355. Rear header walkway for 18-XF-353A/B provided, however the walkway for 18-XF-355 will be by others.
15. Anti-rotation safety device provided on fan shaft bushing per fan: MOORE FAN MODEL "AIRBRAKE F BUSHING MOUNT"