

TIGER INDUSTRIES, INC.

Reference # 150660

February 12, 2016

Attn:

Ref: Air Cooled Heat Exchanger For Cooling 50 MM SCFD of Wet Sour Natural Gas With 4 % CO2 and 20 PPM H2S From 200 F to Less than 120 F at 105 Ambient at 1,000 PSIG Operating Pressure. Ambient: 105 F. This is a unused surplus alloy air cooler in stock in Houston.

Dear Sir:

Tiger Industries, Inc., is a fabrication company that is authorized to use the "R SYMBOL" in accordance with the provisions of the National Board. We supply new and reconditioned air cooled, shell and tube heat exchangers and vessels for sale and lease. In addition, Tiger provides refurbishment, repair, and modification of client's existing inventory. We are pleased to propose the following information.

Air Cooled Heat Exchanger

1. Tube Materials	: SA-163 UNS (NO8825) SB-163, Alloy 825(incoloy)	10. Nozzles, Inlet	: (2) 4" 1500 # RTJ-Top
2. Header Materials	: SB-424 UNS NO8825 SB-424, Alloy825(incoloy)	11. Nozzles, Outlet	: (2) 4" 1500 # RTJ-Bottom
3. Design Press / Temp	: 3,585 PSIG / 350 F	12. Rows / Passes	: 4R / 4P
4. # of Tubes/Tube Length	: 208 / 34 Ft.	13. Fans / Diameter	: 2 @ 10 Ft.
5. Tube Size / Wall	: 1" / 0.075 MW	14. Motors / Hp.	: 2 @ 30 Hp. (Exp. Proof)
6. FOD / FPI / Pitch	: 2 1/4" / 11 / 2 3/8"	15. Dimensions	: 11' W x 34 TL x 12' H
7. Surface-Bare / Ext.	: 1,812 / 42,086 Ft2	16. Model #	: 1B-208-1"-34TL-2F10Ft.
8. Manufacturer	: GEA Rainey	17. Louvers	: Automatic (Fisher Op.)
9. Code Stamp/Serial #	: ASME / R-3989-1-A	18. Vibration Sws.	: (2) Murphy VS2EX
		19. Weight	: 40,000 Lbs.-estimated
		19. F. O. B.	: Houston, Texas

The tube bundle will be hydro tested to MAWP of 2,160 PSIG. Two new 30 Hp. explosion proof motors (460V/3P/60Hz), new bearings, new belts and new fans will be installed. The motors and fans will be test run. The frame system is galvanized.

Sales Price...(No taxes are included).....

Automatic Louvers with New Fisher Operator are Included

Terms: 40% invoiced w/P. O., due prior to start of refurbishment, 60% upon completion

Delivery: 1 to 2 weeks: Unit is in stock in our Houston shop

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Available on website: ASME U1A, Drawings, Pictures and Original GEA Data Sheet

Note # 1: Leg length will be adjusted to client's needs.

Note # 2: We have engineered the above process conditions and have confidence in the final outlet temp. and press. However, all units are sold refurbished/tested as stated and loaded on a client's truck.