

<b>1. Inquiry Data Sheet</b>		<b>GasTech</b> <i>Engineering Corporation</i>		<b>GasTech Reference:</b>			
<b>2. Direct Fired Heater</b>				<b>Date:</b>			<b>Page 1 of 2</b>
3. Engineering Estimate		or Firm Price		No. of Units			
4. Client				Client Reference			
5. Site Location				Temperature F	Min	Max	
6. Seismic Zone				Design Wind Load		mph	
7. Area Electrical Classification				None or Specify			
8. Electrical Power Available				(voltage/phase/cycle)			
9.				(voltage/phase/cycle)			
10. Dry Instrument Air Available				Pressure, Psig		Min	Max
11. Steam Available				Temperature F		Pressure, Psig	
12. Primary Energy Source		Nat Gas <input type="checkbox"/>	Oil <input type="checkbox"/>	Electric <input type="checkbox"/>	Steam <input type="checkbox"/>		
<b>13. THERMAL DESIGN (per Unit)</b>							
<b>14. PROCESS FLUID</b>							
<b>14a.</b>		<b>INLET</b>			<b>OUTLET</b>		
15. TOTAL FLUID FLOW (LBS/HR)							
16. VAPOR (LBS/HR)							
17. LIQUID (LBS/HR)							
18. GRAVITY - LIQUID							
19. DENSITY - VAPOR - LB/CU.FT.							
20. VISCOSITY - LIQUID - CENTIPOISE							
21. VISCOSITY - VAPOR - CENTIPOISE							
22. DENSITY - LIQUID - LB/CU.FT.							
23. MOLECULAR WEIGHT - VAPOR							
24. SPECIFIC HEAT - BTU/LB							
25. THERMAL CONDUCTIVITY - BTU/HR/FT/°F							
26. ENTHALPY - BTU/LB							
27. TEMPERATURE - °F							
28. LATENT HEAT - BTU/LB							
29. OPERATING PRESSURE - PSIG							
30. PRESSURE DROP (ALLOWABLE) - PSI							
31. TYPE OF FLOW							
32. VELOCITY - FT/SEC							
33. EFFECTIVE SURFACE - SQ.FT.							
34. HEAT ABSORBED (DUTY) - BTU/HR							
35. HEAT RELEASE - BTU/HR (NET)							
36. EFFICIENCY W/			% O <sub>2</sub> IN STACK	% GROSS		% NET	
37. FOULING FACTORS				INSIDE	OUTSIDE		
38. FUEL GAS TEMP TO CONV/ECON. SEC. °F							
39. STACK GAS TEMPERATURE - °F							
40. MAX TUBE WALL TEMPERATURE - °F							
41. TYPE OF FUEL							
42. LHV OF FUEL (BTU/SCF) (BTU/LB)							
43. FUEL CONSUMPTION (SCFH) (LBS/HR)							
44. HEATER ORIENTATION VERTICAL/ HORIZONTAL							

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<b>45. MECHANICAL DESIGN</b>					
46. NUMBER OF TUBES: BARE		FINNED		AIR BLOWER:	
47. EFFECTIVE TUBE LENGTH				NO. REQUIRED	
48. CONVECTION TUBES: OD		Tube Wall		CONNECTED HP	
49. ASTM SPECS: TUBE		RETURNS		OPERATING HP	
50. CONNECTIONS: INLET		OUTLET			
51. DESIGN PRESSURE: PSIG					
52. DESIGN TEMPERATURE °F					
53. CORROSION ALLOWANCE					
54. DESIGN CODE:				RECIRCULATING FANS:	
55. HEATER SIZE:				NO. REQUIRED	
56. APPROXIMATE WEIGHT:				CONNECTED HP	
57. REQUIRED COATINGS/PAINTING				OPERATING HP	
58. EMISSION CONTROL (yes or no)		YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
<b>59. REMARKS:</b>					