



Please download and fill out form for submission

CUSTOMER:	JOB NO.:
PLANT LOCATION:	ITEM NO.:
HEATER TYPE:	FILE NO.:

PROCESS DESIGN CONDITIONS

SERVICE		
FLUID		
HEAT ABSORPTION, MMBTU/HR		
MASS FLOW RATE, LB/HR		
PRESSURE DROP ALLOWABLE, PSI		
AVG. RADIANT FLUX DENSITY ALLOWABLE, BTU/HR-FT²		
VELOCITY LIMITATION, FT/S		
MAX. ALLOWABLE INSIDE FILM TEMP., °F		
FOULING FACTOR, HR-FT²-°F/BTU		
COKING ALLOWANCE, IN.		
	INLET	OUTLET
TEMPERATURE, °F		
PRESSURE, PSIG		
LIQUID FLOW, LB/HR		
VAPOR FLOW, LB/HR		
LIQUID GRAVITY @ FLOW TEMP. or LIQUID DENSITY, LB/FT³		
VAPOR MOLECULAR WEIGHT		
VISCOSITY - LIQUID, cP		
VISCOSITY - VAPOR, cP		
SPECIFIC HEAT - LIQUID, BTU/LB-°F		
SPECIFIC HEAT - VAPOR, BTU/LB-°F		
THERMAL CONDUCTIVITY - LIQUID, BTU/HR-FT-°F		
THERMAL CONDUCTIVITY - VAPOR BTU/HR-FT-°F		

COMBUSTION DESIGN CONDITIONS

TYPE OF FUEL	
EXCESS AIR, %	
HEAT RELEASE, MMBTU/HR	
FUEL EFFICIENCY, %	
STACK GAS TEMPERATURE, °F	
AMBIENT AIR TEMPERATURE, EFFICIENCY, °F	
AMBIENT AIR TEMPERATURE, STACK DESIGN, °F	
ALTITUDE ABOVE SEA LEVEL, FT	
REQUIRED EMISSIONS, PPMV (d) CORRECTED TO 3% O₂	NOX:
	CO:
	SOX:
	UHC:
	PARTICULATES:

FUEL CHARACTERISTICS

MECHANICAL DESIGN CONDITIONS

LHV, BTU/LB or BTU/SCF		TUBE MATERIAL:	
PRESS. @ BURNER, °F		TUBE WALL THICKNESS:	
TEMP. @ BURNER, °F		TUBE TEMP. ALLOWANCE, °F	
MOLECULAR WEIGHT:		CORROSION ALLOWANCE, °F	
COMPOSITION:		POST-WELD HEAT TREAT (YES/NO)	
		PERCENT WELDS FULLY X-RAY	
		FLANGED or BEVELED TERMINALS	
		REQ. STACK HEIGHT ABOVE GRADE, FT	

* ALL ITEMS MARKED IN RED ARE REQUIRED

** IF MORE THAN ONE SERVICE IS REQUIRED (E.G. - STEAM GENERATION), PLEASE FILL OUT ADDITIONAL FORM OR PROVIDE API 560 FIRED HEATER DATASHEET