



HEAT EXCHANGE AND TRANSFER, INC.

500 SUPERIOR STREET, CARNEGIE PA 15106

PH.# 412-276-3388

FAX # 412-276-3397

Thermal Fluid System: Inquiry Form FOR OVENS

A. Customer Information:

Company Name: _____

Company Address: _____

Contact Name: _____ Email Address: _____

Phone Number: _____ Ext.: _____ Fax Number: _____

B. Process Equipment Parameters:

Equipment Description (e.g. liquid to liquid, liquid to gas, shell & tube, etc.):

Materials of Construction: _____

Surface area of exchanger: _____ sq ft Weight of exchanger: _____ lbs

Volume of exchanger; media side: _____ product side: _____ (gallons)

Pressure rating of exchanger: _____ (psig) ASME Non-ASME

Temperature rating of exchanger: _____ °F

Pressure drop through exchanger media side: _____ psi @: _____ gpm

Allowable pressure drop through process side: _____ (psi or inches wc)

Size of media connections: Inlet: _____ in, Outlet: _____ in

C. Product Specifications:

Process material name: _____

Specific Heat: _____ Btu/lb-°F

Density of material: _____ lb/ft³

Flow rate of product/process material: _____ lbs/hr or cfm

Product inlet temperature: _____ ° (F/C), Outlet temperature: _____ ° (F/C)

Product inlet pressure: _____ (psi or inches wc)



HEAT EXCHANGE AND TRANSFER, INC.

500 SUPERIOR STREET, CARNEGIE PA 15106

PH.# 412-276-3388

FAX # 412-276-3397

D. Process Parameters:

Operating temperature of the user equipment: Initial: _____ °F, Maximum: _____ °F

Heat up time required for initial start-up: _____ (hours or minutes)

Is cooling required? Yes No

Cooling required for: Set point Cool down Exothermic

Cooling control: On/Off Proportional

Cooler Sizing (if applicable):

Continuous: Remove: _____ Btu/hr @: _____ °F using: _____ (media *)
at: _____ °F and: _____ gpm

Batch: Remove: _____ Btu's in: _____ hrs/mins using: _____ (media *)
(* - Air, water, chilled glycol, etc.)

E. Thermal Fluid System Parameters:

Heat Transfer Fluid: _____

Operating Fluid Temperature Range: Minimum: _____ °F, Maximum: _____ °F, Normal Operating: _____ °F

Heater Sizing: _____ kW or: _____ Btu/hr (if known)

Flow Rate: _____ @: _____ ft of Head (if known) Open Skid Sheet Metal Enclosed

F. Installation Parameters:

Distance between fluid system and process equipment: Horizontal: _____ ft., Vertical: _____ ft

Piping between fluid system and process equipment: Size: _____ in, Schedule: _____ in, Length: _____ in.

Type of fluid piping Insulation: _____, Thickness: _____

Ambient temperature at installation site: Minimum: _____ °F, Maximum: _____ °F

Area Classification or NEMA rating: _____

If hazardous, is air purging acceptable? Yes No

G. Available Utilities:

| Power Available: | Volts | Phase | Hz | Amps |
|------------------|----------|------------|------------|-------------|
| Air: | _____ °F | _____ | _____ psig | _____ SCFM |
| Nitrogen: | _____ °F | _____ | _____ psig | _____ SCFM |
| Steam: | _____ °F | _____ | _____ psig | _____ lb/hr |
| Water: | _____ °F | _____ | _____ psig | _____ gpm |
| Thermal Oil: | _____ °F | _____ psig | _____ gpm | _____ Type |
| Other: | _____ °F | _____ psig | _____ gpm | _____ Type |

H. Please list any requirements that may affect the design of this equipment:
