



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 ROLLS

A. Customer Information:

Company Name: _____

Company Address: _____

Contact Name: _____

Phone #: _____ Ext.: _____ Fax #: _____

B. Process Equipment Parameters:

User Equipment Description (e.g. platen press type, etc.):

Number of Rolls: _____ Are all Rolls the same? Yes No

#1 Roll material: _____

Roll dimensions: _____ in, Diameter: _____ in., Weight: _____ lb
Length: _____

°F, Final temperature: _____ gallons or thickness of flow path: _____ in

Percent wrap: _____ %, Pressure drop through Roll: _____ psi @: _____ gpm

Rotary joint connection sizes: _____ in. inlet port, &: _____ in. outlet port

#2 Roll material: _____

Roll dimensions: Length: _____ in, Diameter: _____ in, Weight: _____ lb

°F, Final temperature: _____ gallons or thickness of flow path: _____ in

Percent wrap: _____ %, Pressure drop through Roll: _____ psi @: _____ gpm

Rotary joint connection sizes: _____ in. inlet port, &: _____ in. outlet port

C. Product Specifications:

#1 Material name: _____

Specific Heat: _____ Btu/lb-°F Processing rate: _____ lbs/hr

Thickness: _____ in., Density: _____ lb/ft³

Initial temperature: _____ °F, Final temperature: _____ F/min

#2 Material name: _____

Specific Heat: _____ Btu/lb-°F Processing rate: _____ lbs/hr

Thickness: _____ in., Density: _____ lb/ft³

Initial temperature: _____ °F, Final temperature: _____ F/min



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D. Process Parameters:

Operation: Batch (e.g. tanks or vessels) Continuous (e.g. extruders)

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

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

What temperature gradient is required on the Platen or Mold? _____ °F

Web speed: _____ ft/min, Web width: _____ in.

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:
