

# DDI- Heat Exchangers Inc

(DDI (since 1980))

Tel: 514-696-7961, Toll free: 1-877-696-7961

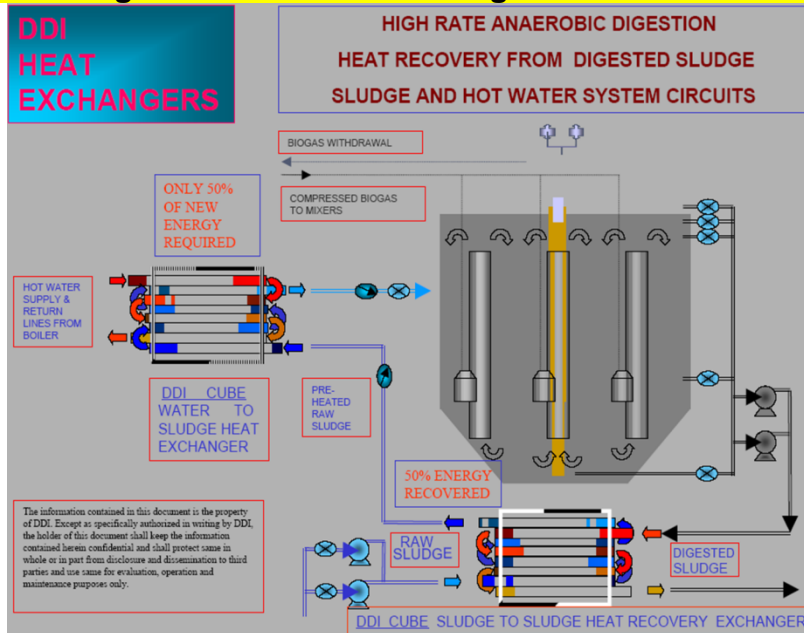
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2017 form

CONFIDENTIAL



## Water to Sludge or Sludge-to-Sludge HEAT Recovery EXCHANGERS

### *Aqua-Fango o Fango-Fango Recuperación de Calor*

This questionnaire could also help to calculate the estimated time (Less then 1 year) that it will take to recover Este cuestionario permite calcular el tiempo estimado de la recuperación de la inversión (< then 1 year) that it will take to recover the cost of the equipment, by the saved energy, which is currently wasted.

DATE: \_\_\_\_\_

PLANT NAME: \_\_\_\_\_

NAME OF RESPONDER: \_\_\_\_\_

TITLE: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Email: \_\_\_\_\_

DDI Rep Name: \_\_\_\_\_

**PROJECT NAME:** \_\_\_\_\_

Consultant Engineer's Company, name, Tel #:

Required in Green color

**Water heats Recirculating Sludge**  
**Agua Caliente-Recirculacion**  
**Fango**

**Water Preheats Cold Raw Sludge**  
**Agua precalienta Fango Bruto Frio**

**Sludge-to-Sludge**  
**Heat Recovery**  
**Recuperación Calor**  
**Fango-Fango**

**Comentarios**  
**Otro**

**Quantity**

**Cost of Energy/Precio Energía**

Cent /KWH

Purpose = Replacement of HX ?, Or new ?

**Heat Transferred required/Necesidad**  
**de Transferencia de Calor**

BTU/HR

or/o

kW

**Hot Side Flow/Caudal lado caliente**

USGPM

Liquid Type= Water, Therminol, Hot Digested Sludge etc./  
Tipo de fluido = Agua, Sintetico (Therminol), Industrial,  
Fango caliente

l/s

% of solids in the liquid /% sólidos en el fluido

%

Viscosity Estimated/ Viscosidad dinámica  
estimada

cP

Hot Side Temp In /Lado caliente temperatura  
de entrada

Deg F/ °C

Hot Side Temp Out desired /Lado caliente  
temperatura de salida

Deg F/°C

Hot Side Pressure loss allowed /Lado Caliente  
pérdida de carga permitida

PSI/kPa/cm H2O

Hot Side Overall pressure design required  
/Lado caliente pérdida de carga máxima de  
diseño

PSI/kPa/cm H2O

Hot side pipe Dia In /Lado caliente diametro  
de tubería entrada

Inches/cm

Hot Side pipe Dia Out/ Lado caliente diametro  
de tubería salida

Inches/cm

**Cold Side Flow/ Caudal lado frío**

USGPM

Liquid Type=Cold Raw Sludge, Industrial, Farm Sludge  
etc. / Tipo de fluido = Fango bruto frío, Industrial,  
Ganadería, etc.

l/s

% of solids in the liquid / % de sólidos en el  
fluido

%

Viscosity Estimated / Viscosidad dinámica  
estimada

cP

Cold Side Temp In/ Lado frío temperatura de entrada Deg F/ °C

Cold Side Temp Out desired/ Lado frío temperatura de salida Deg F/°C

Cold Side Pressure loss allowed/ Lado frío pérdida de carga permitida PSI/kPa/cm H2O

Cold Side Overall pressure design required/ Lado frío pérdida de carga máxima de diseño PSI/kPa/cm H2O

Cold side pipe Dia In/ Lado frío diametro de tubería entrada Inches/cm

Cold Side pipe Dia Out/ Lado frío diametro de tubería salida Inches/cm

**SPACE/ ESPACIO**

Space Length (with maintenance) limitation /Espacio largo (incluido mantenimiento) disponible Ft/cm

Space Width (with maintenance) limitation/ Espacio ancho (incluido mantenimiento) disponible Ft/cm

Space Height (with maintenance) limitation/ Espacio alto (incluido mantenimiento) disponible Ft/cm

**OTHERS/ OTROS**

Delivery time required (date?) / Fecha entrega Month

Price limitation / Inversión disponible US \$ / €

The PH ACIDITY of the liquids?? / pH del liquido PH

**Material of Heat Transfer allowed/ Materiales permitidos Carbon Steel / Acero al carbono**

Material of Heat Transfer allowed Stainless 316

Material of Heat Transfer allowed Stainless 304

**Is a Pump quote required? Yes / No / ¿Se requiere bomba?**

DDI Has OEM agreements with Boerger Rotary Lobe Pumps and Vogelsang Pumps

**Is a Boiler quote required? Yes / No / ¿Se requiere caldera?**

DDI Has OEM Agreement with Parker Boilers, for Digester and Natural gases and Water.

Current Technology used? Tube in Tube or Spiral?, by whom? / Tipo de intercambiador ahora en uso

**Can DDI do Internet Presentation?**

**Other Comments.... / Comentarios**

Heat Exchanger P/N (filled by DDI)

**Thanks**

**Erwin Schwartz / B. Eng. / President**

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