

# Heat Exchanger Specification

DATE: \_\_\_/\_\_\_/\_\_\_ SALESPERSON: \_\_\_\_\_  
CUSTOMER: \_\_\_\_\_ CUSTOMER NO.: \_\_\_\_\_  
TECHNICAL CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
EMAIL: \_\_\_\_\_  
DESCRIPTION OF APPLICATION: \_\_\_\_\_

(PLEASE NOTE ALL ITEMS IN **BOLD** PRINT MUST BE COMPLETED TO PROVIDE A QUOTATION)

**APPLICATION:**     HEATING     COOLING

**TANK OR STATION #:** \_\_\_\_\_

**PROCESS CHEMISTRY\*:** \_\_\_\_\_ @ \_\_\_ %

- SPECIFIC GRAVITY: \_\_\_\_\_
- SPECIFIC HEAT: \_\_\_\_\_
- FLASH POINT: \_\_\_\_\_

**HEATING/COOLING MEDIUM:** \_\_\_\_\_

- **STEAM AT:** \_\_\_\_\_ PSI
- **WATER:** \_\_\_\_\_ °F/°C @ \_\_\_\_\_ PSI
- **OTHER\*:** \_\_\_\_\_ @ \_\_\_ %
  - SPECIFIC GRAVITY: \_\_\_\_\_
  - SPECIFIC HEAT: \_\_\_\_\_

\* PROVIDE MSDS

**AMBIENT TEMPERATURE:** \_\_\_\_\_ °F/°C

**PROCESS TEMPERATURE:** \_\_\_\_\_ °F/°C

**HEAT-UP/COOLING TIME REQUIRED:** \_\_\_\_\_

**FROM:** \_\_\_\_\_ °F/°C to \_\_\_\_\_ °F/°C

(or) **HOLD TEMPERATURE @:** \_\_\_\_\_ °F/°C

**RECTIFIER SETTINGS:** \_\_\_\_\_ VOLTS \_\_\_\_\_ AMPS

**LOAD:** \_\_\_\_\_ lbs./kg per hour @ \_\_\_\_\_ °F/°C

**SOLUTION MAKE-UP:** \_\_\_\_\_ GPM/LPM @ \_\_\_\_\_ °F/°C

**SPRAY FLOW RATE:** \_\_\_\_\_ GPM/LPM @ \_\_\_\_\_ °F/°C

**EXHAUST VENTILATION VELOCITY:** \_\_\_\_\_ FPM

**SOLUTION AGITATION:** \_\_\_\_\_ AIR \_\_\_\_\_ MECHANICAL

**TANK MATERIAL:** \_\_\_\_\_ COVERED: YES/NO

**SIDEWALL INSULATION:** \_\_\_\_\_ in/cm

**TANK DIMENSIONS (in/cm):**

**LENGTH:** \_\_\_\_\_ **WIDTH:** \_\_\_\_\_ **DEPTH:** \_\_\_\_\_

(or) **CYLINDRICAL TANK DIMENSIONS:**

**DIAMETER:** \_\_\_\_\_ **DEPTH:** \_\_\_\_\_

**SOLUTION DEPTH:** \_\_\_\_\_ in/cm

**TOTAL VOLUME:** \_\_\_\_\_ gallons/liters

**AVAILABLE SPACE FOR HEAT EXCHANGER (in/cm):**

**WIDE:** \_\_\_\_\_ **DEEP:** \_\_\_\_\_ **BOTTOM:** \_\_\_\_\_

**HEAT EXCHANGER CONFIGURATION:**

- |                                          |                                      |
|------------------------------------------|--------------------------------------|
| <input type="checkbox"/> HORIZONTAL GRID | <input type="checkbox"/> U COIL      |
| <input type="checkbox"/> VERTICAL GRID   | <input type="checkbox"/> HELICAL     |
| <input type="checkbox"/> SERPENTINE      | <input type="checkbox"/> BOTTOM COIL |

**SHEATH MATERIAL:**

- |                                        |                                        |
|----------------------------------------|----------------------------------------|
| <input type="checkbox"/> 316 STAINLESS | <input type="checkbox"/> FLUOROPOLYMER |
| <input type="checkbox"/> TITANIUM      | <input type="checkbox"/> OTHER: _____  |

**TEMPERATURE CONTROL:**

- DIGITAL (DE/DQ/DSL/DLC)
- NON-INDICATING (NE/NR)
- ANALOG (C)

**LEVEL CONTROL:**

- CAPACITIVE (ESP)
- CONDUCTIVE (LC)

**SOLENOID VALVE:** \_\_\_\_\_ YES \_\_\_\_\_ NO

**STRAINER:** \_\_\_\_\_ YES \_\_\_\_\_ NO

**COMMENTS:** \_\_\_\_\_

# Heat Exchanger Specification (Inline)

DATE: \_\_\_/\_\_\_/\_\_\_ SALES PERSON: \_\_\_\_\_  
CUSTOMER: \_\_\_\_\_ CUSTOMER NO.: \_\_\_\_\_  
TECHNICAL CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
EMAIL: \_\_\_\_\_  
DESCRIPTION OF APPLICATION: \_\_\_\_\_  
\_\_\_\_\_

(PLEASE NOTE ALL ITEMS IN **BOLD** PRINT MUST BE COMPLETED TO PROVIDE A QUOTATION)

**APPLICATION:**      HEATING      COOLING

**PROCESS CHEMISTRY\*:** \_\_\_\_\_ @ \_\_\_\_\_ %

• SPECIFIC GRAVITY: \_\_\_\_\_

• SPECIFIC HEAT: \_\_\_\_\_

• FLASH POINT: \_\_\_\_\_

**HEATING/COOLING MEDIUM:** \_\_\_\_\_

• STEAM AT: \_\_\_\_\_ **PSI**

• WATER: \_\_\_\_\_ °F/°C @ \_\_\_\_\_ **PSI**

• OTHER\*: \_\_\_\_\_ @ \_\_\_\_\_ %

• SPECIFIC GRAVITY: \_\_\_\_\_

• SPECIFIC HEAT: \_\_\_\_\_

\* PROVIDE MSDS

**PROCESS OUTLET TEMPERATURE:** \_\_\_\_\_ °F/°C

**PROCESS FLOW RATE:** \_\_\_\_\_ GPM/LPM

**STEAM HEATING: STEAM PRESSURE:** \_\_\_\_\_

**HEAT/COOL INLET TEMPERATURE:** \_\_\_\_\_ °F/°C

**HEAT/COOL OUTLET TEMPERATURE:** \_\_\_\_\_ °F/°C

**HEAT/COOL FLOW RATE:** \_\_\_\_\_ °F/°C

**HEAT EXCHANGER STYLE:**

THERMAX<sup>2</sup> 316 L SPIRAL PLATE

TUBE-IN-TUBE

316 STAINLESS STEEL

TITANIUM

OTHER: \_\_\_\_\_

TUBE-IN-SHELL

316 STAINLESS STEEL

TITANIUM

FLUOROPOLYMER INLINE

SHELL MATERIAL:

POLYPROPYLENE

PFA

PVDF

TUBING MATERIAL:

PTFE (up to 30 PSI)     PFA (up to 60 PSI)

## RECIRCULATING SYSTEMS

**STARTING TEMPERATURE:** \_\_\_\_\_

**PROCESS TEMPERATURE:** \_\_\_\_\_

**HEAT-UP TIME REQUIRED:** \_\_\_\_\_ HOURS \_\_\_\_\_ MINUTES

**TANK DIMENSIONS:**

**LENGTH:** \_\_\_\_\_ **WIDTH:** \_\_\_\_\_ **DEPTH:** \_\_\_\_\_

(or) **CYLINDRICAL TANK DIMENSIONS:**

**DIAMETER:** \_\_\_\_\_ **DEPTH:** \_\_\_\_\_

**TOTAL SOLUTION VOLUME:** \_\_\_\_\_

**MAKE-UP SOLUTION:** \_\_\_\_\_ GPM/LPM @ \_\_\_\_\_ °F/°C

**RECIRCULATION PUMP:** \_\_\_\_\_ GPM/LPM @ \_\_\_\_\_ °F/°C

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**Factory use only**

**QTY:** \_\_\_\_\_ **MODEL NO.:** \_\_\_\_\_

**EXCHANGE AREA:** \_\_\_\_\_

**FLOW RATE A:** \_\_\_\_\_

**PRESSURE DROP A:** \_\_\_\_\_

**FLOW RATE B:** \_\_\_\_\_

**PRESSURE DROP B:** \_\_\_\_\_

**PLUMBING ARRANGEMENT:** \_\_\_\_\_  
\_\_\_\_\_

**PROCESS  
TECHNOLOGY**

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