

# Heat Exchanger Specification

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

**TANK OR STATION #:** \_\_\_\_\_    **TANK DIMENSIONS (in/cm):**  
**PROCESS CHEMISTRY\*:** \_\_\_\_\_ @ \_\_\_\_\_ %    **LENGTH:** \_\_\_\_\_ **WIDTH:** \_\_\_\_\_ **DEPTH:** \_\_\_\_\_  
    • SPECIFIC GRAVITY: \_\_\_\_\_    (or) **CYLINDRICAL TANK DIMENSIONS:**  
    • SPECIFIC HEAT: \_\_\_\_\_    **DIAMETER:** \_\_\_\_\_ **DEPTH:** \_\_\_\_\_  
    • FLASH POINT: \_\_\_\_\_    **SOLUTION DEPTH:** \_\_\_\_\_ in/cm

**HEATING/COOLING MEDIUM:** \_\_\_\_\_    **TOTAL VOLUME:** \_\_\_\_\_ gallons/liters

    • **STEAM AT:** \_\_\_\_\_ PSI    AVAILABLE SPACE FOR HEAT EXCHANGER (in/cm):  
    • **WATER:** \_\_\_\_\_ °F/°C @ \_\_\_\_\_ PSI    WIDE: \_\_\_\_\_ DEEP: \_\_\_\_\_ BOTTOM: \_\_\_\_\_  
    • **OTHER\*:** \_\_\_\_\_ @ \_\_\_\_\_ %    **HEAT EXCHANGER CONFIGURATION:**  
        • SPECIFIC GRAVITY: \_\_\_\_\_     HORIZONTAL GRID     U COIL  
        • SPECIFIC HEAT: \_\_\_\_\_     VERTICAL GRID     HELICAL  
        \* PROVIDE MSDS     SERPENTINE     BOTTOM COIL

**AMBIENT TEMPERATURE:** \_\_\_\_\_ °F/°C    **SHEATH MATERIAL:**  
**PROCESS TEMPERATURE:** \_\_\_\_\_ °F/°C     316 STAINLESS     FLUOROPOLYMER  
**HEAT-UP/COOLING TIME REQUIRED:** \_\_\_\_\_     TITANIUM     OTHER: \_\_\_\_\_

**FROM:** \_\_\_\_\_ °F/°C to \_\_\_\_\_ °F/°C    **TEMPERATURE CONTROL:**  
(or) **HOLD TEMPERATURE @:** \_\_\_\_\_ °F/°C     DIGITAL (DE/DQ/DSL/DLC)  
**RECTIFIER SETTINGS:** \_\_\_\_\_ VOLTS \_\_\_\_\_ AMPS     NON-INDICATING (NE/NR)  
**LOAD:** \_\_\_\_\_ lbs./kg per hour @ \_\_\_\_\_ °F/°C     ANALOG (C)

**SOLUTION MAKE-UP:** \_\_\_\_\_ GPM/LPM @ \_\_\_\_\_ °F/°C    **LEVEL CONTROL:**  
**SPRAY FLOW RATE:** \_\_\_\_\_ GPM/LPM @ \_\_\_\_\_ °F/°C     CAPACITIVE (ESP)     CONDUCTIVE (LC)

**EXHAUST VENTILATION VELOCITY:** \_\_\_\_\_ FPM    **SOLENOID VALVE:** \_\_\_\_\_ YES \_\_\_\_\_ NO  
**SOLUTION AGITATION:** \_\_\_\_\_ AIR \_\_\_\_\_ MECHANICAL    **STRAINER:** \_\_\_\_\_ YES \_\_\_\_\_ NO  
**TANK MATERIAL:** \_\_\_\_\_ **COVERED:** YES/NO    **COMMENTS:** \_\_\_\_\_

# Heat Exchanger Specification (Inline)

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

**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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