DISCLAIMER

SRC Technical Notes are informal memos intended for internal communication and documentation of work in progress. These notes are not necessarily definitive and have not undergone a pre-publication review. If you rely on this note for purposes other than its intended use, you assume all risk associated with such use.
This specification covers the requirements for two plate heat exchangers. These heat exchangers are to conform to the requirements detailed below.

II. Cold Water Side
A. Fluid Circulated
   This water is in an open loop with a cooling tower being the final means of heat rejection. This water contains the chemicals normally used in cooling tower water treatment.
B. Water Flow
   200 gpm
C. Water Temperatures
   Inlet  85°F to heat exchanger
   Outlet 105°F from heat exchanger
D. Water Pressure
   100 psi

III. Hot Water Side
A. Fluid Circulated
   This water is in a closed loop system and is de-ionized and deoxygenized.
B. Water Flow
   200 gpm
C. Water Temperatures
   Inlet  95°F from heat exchanger
   Outlet 115°F to heat exchanger
D. Water Pressure
   100 psi
IV. Construction Materials
   A. Frame and Pressure Plates - Steel
   B. Carrying Bar - Carbon Steel with Zinc Chromate Finish
   C. Bolts - Steel
   D. Channel Plates - 316 Stainless Steel
   E. Connections
      1. Cold Water Side - Unlined (Carbon Steel)
      2. Hot Water Side - Lined (316 Stainless Steel)
   F. Gaskets - Nitrile Rubber

V. Connection Arrangement (See Figure 1)
   A. Heat Exchanger No. 1
      1. S3 Cold Water In
      2. S4 Cold Water Out
      3. S1 Hot Water In
      4. S2 Hot Water Out
   B. Heat Exchanger No. 2
      1. S3 Hot Water Out
      2. S4 Hot Water In
      3. S1 Cold Water Out
      4. S2 Cold Water In

VI. Information to be Submitted With Quotation
   A. Physical Dimensions
   B. Roughing in dimensions showing piping and outlet sizes and location.
   C. Delivery
5/8 x 3" Stud Bolts
for 4"-150# ANSI Flange

Figure 1,
Connection Arrangement