

**PERFORMANCE REQUIREMENTS
Shell & Tube Heat Exchanger**

Company: _____ Date: _____
Address: _____ State: _____
Phone: _____ Fax: _____
Contact: _____ Ref: _____
Type of application: (Seawater / Freshwater) _____
Other: _____

Describe the circuit _____

1. Heat Load (kW or Hp) _____
2. Flow rate (l/min or USGPM) Shell side: _____ Water/Tube side: _____
3. Oil type (cSt or SSU) _____
4. Maximum inlet fluid temp. (°C or °F) Shell side: _____ Water/Tube side: _____
5. Maximum allowable pressure drop (PSI or BAR) Shell side: _____ Water/Tube side: _____
6. Are there any circuit components which could cause sudden changes of oil flow
eg cylinders or accumulators _____
7. What is the power source and how much power is needed to drive the hydraulics or the
source of the heat _____

The heat load may be approximated by:

- A. Hydraulic oil cooling: Assume 30% of the input horsepower.
- B. Hydrostatic oil cooling: Assume 25% of the input horsepower.
- C. Automatic Transmission: Assume 30% of engine horsepower.
- D. Engine oil cooling: Assume 10% of engine horsepower.

The above are only to be considered as guidelines. It is the customers responsibility to provide accurate information in order to select the most appropriate sized heat exchanger.