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The best type of heat exchanger depends on design parameters, fluid characteristics, space, and budget. Main Criteria for Heat Exchanger Sizing and Selection. Function that the heat exchanger will perform (whether

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condensing, boiling, etc.) Pressure limits (high/low), which may vary throughout the process, and pressure drops across the exchanger

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The design of a heat exchanger is an exercise in thermodynamics, which is

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the science that deals with heat energy flow, temperature, and the relationships to other forms of energy.

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The paper considered a review for the design of a shell and tube heat exchanger. Therein, popular analytical

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techniques such as log mean temperature difference (LMTD) and effectiveness-number of ...

## **(PDF) Handout: Step-by-step for Heat Exchanger design**

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load of an additional 20% of the applicable weight (empty or operating) for exchangers with diameters less than 24 inches b. A load of an additional 10% of the applicable weight (empty or

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Steps for design of Heat Exchanger By



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Dr. Reyad Shawabkeh Department of  
Chemical Engineering King Fahd  
University of Petroleum & Minerals e-  
mail: rshawabk@kfupm.edu.sa Note: all  
information including figures and charts  
were obtained from Colson &  
Richardson, Chemical Engineering,  
volume 6) 1. Assume tube diameter and  
BWG, Assume tube length, L 2.

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## **Steps for design of Heat Exchanger**

The overall heat exchanger design methodology would normally include thermal design, mechanical design and manufacturing consideration for the specific application. One of the key requirements in the design of a heat exchanger is to perform the heat

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transfer and pressure drop analyses.

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Constraints imposed on design of heat exchangers include the following: •

- Acoustic noise control during operation
- Flow turbulence control during operation
- Pumping power requirements
- Spatial

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dimensions requirements • Availability  
of materials and standards • Availability  
of know and how technology 9

## **Guide Lines for Designing Heat Exchangers**

A shell and tube exchanger consists of a number of tubes mounted inside a cylindrical shell. Figure 1 illustrates a

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typical unit that may be found in a petrochemical plant. Two fluids can exchange heat, one fluid flows over the outside of the tubes while the second fluid flows through the tubes.

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tube in shell heat exchanger (maximum

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= 120°F). Say the design fluid temperature returning from the Bulldog units is now 110°F instead of 95°F. The approach temperature is now 15°F greater than with the GSHP (total approach now 25°F). This larger approach temperature means that the GHX can absorb heat much easier, OR may be sized smaller.

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hermal design of shell-and-tube heat exchangers (STHEs) is done by sophisticated computer software.

However, a good understanding of the underlying principles of exchanger design is needed to use this software

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