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Kays, A L London Compact Heat Exchangers W M Kays, A L London This text compiles experimental data on the basic heat transfer and flow friction characteristics of compact heat exchangers The data can be applied to space heating, spacecraft heat exchangers, aircraft heat exchangers and various cooling systems

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Chapter 3 Compact heat exchangers - polito.it

Compact heat exchangers 31 Relevance of mini/micro channel compact heat exchangers In the previous chapter, it has been pointed out that the thermal rejection pro-cess due to gascooler plays a fundamental role in determining the performances of the carbon dioxide transcritical cycle As it is evident in the numerical simulations com-

Compact Heat Exchangers

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Compact Heat Exchangers: Improving Heat Recovery

Compact heat exchangers The dominant type of heat exchanger in process plants today is the shell and tube In many cases, it is an appropriate selection for the service required However, because engineers are familiar with shell-and-tube varieties, they tend to select them "by default,"

Chapter 5 Compact Heat Exchangers (Part III)

Compact Heat Exchangers (Part III) 58 Plate-Fin Heat Exchangers Plate-fin exchangers have various geometries of fins to compensate the high thermal resistance by increasing the heat transfer area particularly if one of fluids is air or gas This type of exchanger has corrugated fins sandwiched between parallel plates or formed tubes

Design Considerations for Compact Heat Exchangers

Compact heat exchangers are available with a range of surface types, generally intended to enhance surface density and heat transfer coefficients, and which also assist mechanical design (for example, fins form many attachment points between adjacent parting sheets) Some

Chapter 5 HSL

Termed compact heat exchangers, these devices have dense arrays of finned tubes or plates and are typically used when at least one of the fluids is a gas, and is hence characterized by a small convection coefficient Plate heat exchangers, finned-tube heat exchangers and plate-fin heat exchangers are the class of compact heat exchangers

Appendix C: Heat Exchanger Design

Source: Cengel, YA (2007) Heat and Mass Transfer: A Practical Approach, 3rd edn, McGraw-Hill, Inc, New York Table C3 Representative fouling factors in heat exchangers Fluid R_f ((ft² h F)/Btu) Gas oil 000051 Transformer oil 000102 Lubrication oil 000102 Heat transfer oil 000102 Hydraulic oil 000102 Fuel oil 00051 Hydrogen 000999