

## Chapter 3

# Compact heat exchangers

### 3.1 Relevance of mini/micro channel compact heat exchangers

In the previous chapter, it has been pointed out that the thermal rejection process 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 comparing different architectures (see Fig. 2.19) for the experimental test rig previously discussed, the efficiency of the compact heat exchanger dedicated to heat rejection affects the cooling capacity more than the evaporator itself, at least for the considered operating conditions. Moreover, the possibility of using again carbon dioxide as working fluid in the refrigerating plants with performances which try to approach those of usual devices based on synthetic fluids, mainly relies upon a miniaturization process. Miniaturization enables to improve the efficiency of the components concerning heat transfer and consequently to reduce the gap between carbon dioxide and synthetic fluids. In particular, this deals with the design of mini/micro channel compact heat exchangers. In this chapter, mini/micro channel compact heat exchangers will be investigated in order to analyze the effects due to undesired conduction, which is considered one of the reasons limiting their widespread diffusion in refrigeration technology.

# Chapter 3 Compact Heat Exchangers Design For The Process

**Zhe Xu**



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