Gabriele Dal Belin Peruffo

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Bio

Eng. Dal Belin graduated at Padua University in Mechanical Engineer with studies focused on thermal aspects. The thesis was about commercial refrigeration at CNR (National Research Committee), after which he spent one year and a half at Applied Physics Department at Padua University studying HVAC system working with CO2.

In the past, Eng. Dal Belin worked for ten years as Research Manager for a company focused on coils and ventilating units for HVAC. He has been working for Alfa Laval for four years as Research Manager, with the responsibility on Research team which deals with: laboratory, internal software and projects about future technical developments.

Abstract

Developing Fit-for-Purpose Solutions: Gas Coolers

The aim of this presentation is to highlight the difference between gas coolers and condensers underlining, at the same time, that it can be handled.

From an external point of view, these two types of unit look very similar and, on the other hand, they have very similar role inside a refrigerating cycle. The fact that CO2 has peculiar characteristics if compared with standard refrigerants, is the reason why a contractor or a designer have to take them into consideration to manage properly a gas cooler.

This experience can be given by laboratory tests which can assure an effective improvement of knowledge about gas cooler optimization and improvement.

Finally, in Europe CO2 as refrigerant is increasing its importance as far as Eurovent, a third part body, is working (with Alfa Laval and other Participants) in order to ensure full transparency of data for the market.