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STUDY OF THE ENERGY BEHAVIOR OF DIFFERENT REFRIGERANTS: ENERGY COST AND ENVIRONMENTAL IMPACT

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ABSTRACT

This study comes within the framework of the energy savings policy initiated by our statements from the surge in oil prices seen in recent years. In this article, we want to show that there is a compromise in the substitution of old refrigerants such as R12, which has the particularity to have a low compression ratio and a low-pressure condensation, which explains its low energy consumption compared the other refrigerants. This gas can present energy savings in the order of 20 to 40% compared to those counterparts.

KEYWORDS: *Refrigerant, R12, R134a, R22, R404A, Compression Ratio, Condensation Pressure, GWP*

Article History

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