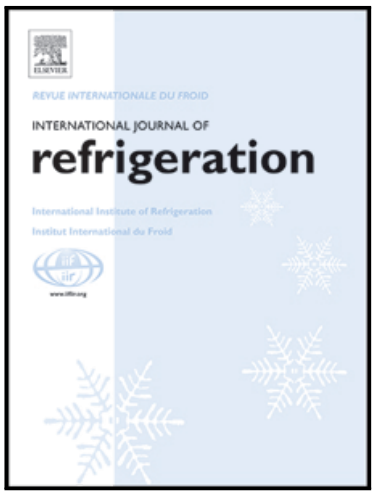

Experimental drop-in replacement of R404A for warm countries using the low GWP mixtures R454C and R455A

Adrián Mota-Babiloni , Jorge Haro-Ortuño ,
Joaquín Navarro-Esbrí , Ángel Barragán-Cervera

PII: S0140-7007(18)30176-2
DOI: 10.1016/j.ijrefrig.2018.05.018
Reference: JIJR 3986

To appear in: *International Journal of Refrigeration*

Received date: 6 March 2018
Revised date: 3 May 2018
Accepted date: 11 May 2018

Please cite this article as: Adrián Mota-Babiloni , Jorge Haro-Ortuño , Joaquín Navarro-Esbrí , Ángel Barragán-Cervera , Experimental drop-in replacement of R404A for warm countries using the low GWP mixtures R454C and R455A, *International Journal of Refrigeration* (2018), doi: 10.1016/j.ijrefrig.2018.05.018

HIGHLIGHTS

- R454C and R455A have similar properties to R404A and low global warming potential.
- The experimental operation and performance of these mixtures and R404A are compared.
- The average alternatives cooling capacity is comparable to that of R404A.
- The R454C and R455A energy performance is higher than that of R404A.
- An internal heat exchanger does not provide significant benefits to R454C and R455A.