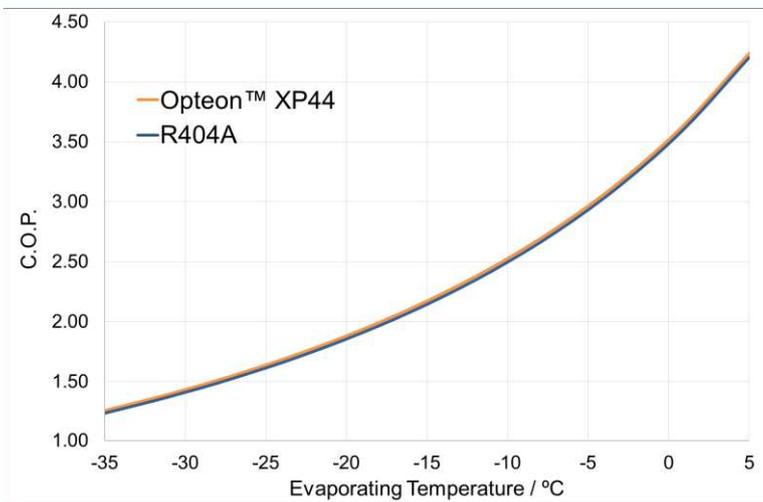
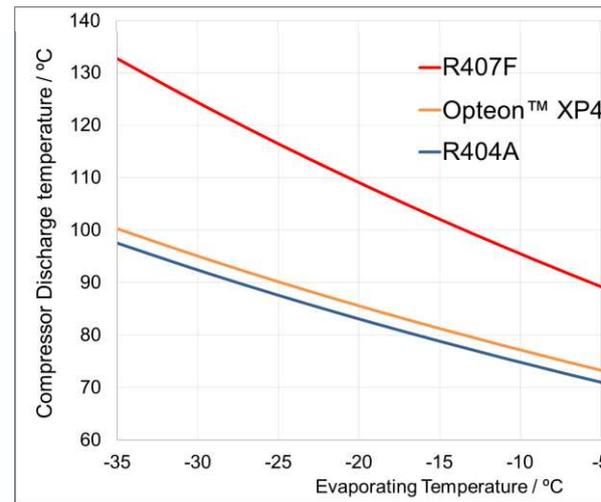
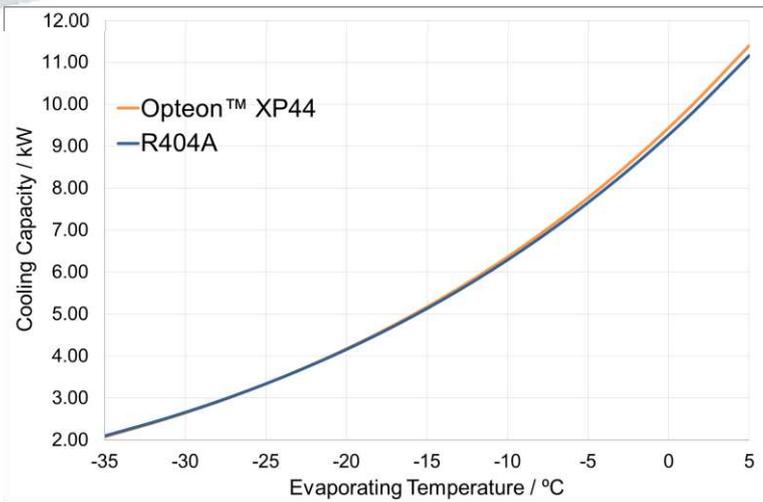


Opteon™ XP44

- Replaces R404A/R507A
- ASHRAE #: R-452A
- HFC/HFO blend: R32 / R125 / R1234yf (11% / 59% / 30%)
- ODP: Zero Ozone Depletion Potential
- GWP: 2140 (AR4)
- ASHRAE safety: A1 non-flammable
- Glide: 3-4K
- Can be topped off while servicing (do not mix with R-404A)
- Compatible with POE lubricants
- Compressor approvals: Tecumseh, Embraco, Frascold, Bitzer, Emerson, Danfoss
- Applications: High compressor discharge application
Transport and small condensing units particularly low temperature



Opteon™ XP44 Performance Comparison



Capacity, COP and Compressor Discharge temperatures are almost identical to R404A for Applications where low compressor discharge temperatures are essential.

$T_{cond} = 40^{\circ}C$, Compressor isentropic efficiency = 0.7, evaporator superheat = suction line superheat = $(T_{cond}-10-T_{evap}) * 0.35$

Transport Refrigeration – Opteon™ XP44 (R452A)



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Complete Range of Thermo King Single- and Multi-Temperature with R-452A Refrigerant Now with ATP Certification

🕒 09-09-2015

Thermo King, a manufacturer of transport temperature control solutions for a wide range of applications and a brand of Ingersoll Rand, announced today that its entire range of the SLXe units compatible with next generation, low global warming potential (GWP) R-452A refrigerant is now ATP certified.

Thermo King was the first manufacturer to introduce the new R-452A refrigerant into its transport products earlier this year and already sold over 1000 of these trailer units to the already available range of SLXe single-temperature trailer units, customizing the same environmental benefits with the SLXe Spectrum refrigeration units for multi-temperature transport applications. This includes the extra quiet, Piek certified SLXe Spectrum units.

"The ATP certification obtained by the entire range of the SLXe trailer solutions proves the refrigeration performance of the Thermo King units with the new low GWP R-452A refrigerant. Karin de Bondt, vice president and general manager for Truck, Trailer and Bus applications in the Middle East and Africa. "Our customers can now easily combine the same high efficiency and low sound levels of the Thermo King single and multi-temperature trailer applications with the high environmental performance."

The entire range of SLXe trailer units is compatible with the next generation Climalife (R-452A) refrigerant which has about a 50 percent lower GWP value than the current R-404A refrigerant. The EcoWise™ portfolio of products created by Ingersoll Rand for its climate and energy bearing solutions designed to lower environmental impact with next generation refrigerant and high efficiency operation.

The Thermo King SLXe range features the following enhancements contributing to lower environmental impact and increase flexibility of operations:

July 6, 2017

Opteon™ XP44 (R452A) Approved by Tecumseh

1/26/2016

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Tecumseh Outlines Position on Refrigerant Transitions

In follow-up to the document that Tecumseh issued in June 2015 regarding refrigerant transitions, the company has continued to test various low GWP options with the objective of identifying suitable replacements for R404A and R134a.

January 25, 2016

Tecumseh Position Includes Approvals for HC and HFO Refrigerants

Tecumseh Approvals and Recommendations

Remote Condensing Unit Applications

For commercial refrigeration equipment employing the use of remote condensing units, Tecumseh R452A as acceptable alternatives to refrigerant R404A. However, due to the higher discharge temperatures, compressors used in the above mentioned applications must maintain strict compliance with the relevant Tecumseh Policy Bulletins and Application Guidelines. Tecumseh is in the process of releasing new compressors and associated condensing units for Low, Medium and High temperature commercial

