

Nonflammable and Reduced-GWP Stationary Refrigerant Platform

SAFETY AND COMPLIANCE JUST GOT EASIER

Honeywell's new Solstice® N41 (R-466A*) refrigerant helps OEMs meet industry calls for changes in safety and environmental compliance. It's a nonflammable, reduced-GWP replacement for R-410A in air-conditioning applications.



Meeting A Major Industry Need For A Nonflammable R-410A Replacement

Solstice N41 Highlights



SAFETY

Non Toxic, **Nonflammable**



PERFORMANCE

Capacity \geq 95%, Energy Efficiency \geq 100%,
Glide $<$ 2°C, Minimal changes in design



RELIABILITY

Chemical Stability, Material Compatibility,
Lubricant Compatibility



REGULATORY

Ozone Depletion Potential (ODP) \sim 0
Global Warming Potential (GWP) $<$ 750

*Provisional

Don't Just Take Our Word For It

Solstice® N41 has been tested worldwide by more than 15 OEMs and five compressor manufacturers. The results they've experienced show why more and more OEMs and contractors are turning to Solstice N41.

Highlights from the Dec 6-7, 2018 presentation at the International Symposium on New Refrigerants and Environmental Technology, Kobe, Japan:

Toshiba Carrier: Evaluation of VRF Systems Using Low GWP Refrigerant

- COP and Annual Performance Factor (APF) of the VRF system are almost equal to those using R-410A
- R-466A shows 30% lower LCCP than R-410A in test VRF system
- Cycle components can be designed without reviewing their design pressures
- There is high probability that similar product lineup and piping flexibility can be achieved

“HDR146 (R-466A) has good properties as an alternative to R410A.”

Trane: Evaluation of High Pressure Chiller Alternatives

- Identified R-466A as “the first nonflammable that meets <750 GWP regulatory requirements”
- Efficiency is equal to or better than flammable alternatives (see chart at right)
- R-466A is the most like R-410A with low glide (0to <2K)

“New Nonflammable <750 GWP R466A Appears to be an Acceptable R-410A Replacement.”

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