## NEXT - GEN Refrigerants

**R-32** 

This single-component refrigerant has received attention for its combination of performance & relatively low GWP. In 2019, Daikin announced it would move many of its commercial HVAC units in the US to R-32 in the coming years.



Critical Temp: 172.6° F



Critical Pressure: 838.6 psi



**ODP:** 0

**ASHRAE Safety Group:** A2L



R-448A is a zeotropic HFC/HFO blend of R-32 (26%), R-125 (26%), R-134a (21%), R-1234yf (20%), & R-1234ze (7%). It's used as a replacement for R-404A and R-22 in medium to low-temp HVAC-R applications.

Boiling Temp: -50.6°F

 $(\bigcirc$ Critical Pressure: 675.9 psi

**GWP:** ~1300

GS **ODP:** 0



**Glide:** ~ 8°-10° F

Boiling Temp: -51°F

similar to those of R-448A.

Critical Temp: 177°F

Critical Pressure: 655 psi

R-449A

R-449A is another HFC/HFO blend containing

R-134a (25.7%), R-125 (24.7%), R-32 (24.3%), &

for R-404A & R-22, its properties are very

R-1234yf (5%). Also designed as a replacement

**GWP:** ~1300

**ODP:** 0



**Glide:** ~ 8°-10° F



R-454B is a zeotropic blend made of R-32 (69%) and R-1234yf (31%). Designed as a replacement for R-410A, it has been adopted by Carrier for new light commercial & residential equipment starting in 2023.







ASHRAE Safety Group: A2L

**Glide:** ~ 3° F



Making the switch? Check out all the buzz on R-454B



Critical Temp: 176°F

