

R-32



VS



R-454B

- Non-proprietary product costs significantly less ✓
- Used since 2012, in 280 million units worldwide ✓
- Pure refrigerant, not a blend, can be topped off ✓
- Can be charged as a liquid or a vapor ✓
- No temperature glide ✓
- Will not fractionate ✓



PRICE
PROVEN
CONVENIENT
VERSATILE
STABLE
RELIABLE

- ✗ Proprietary product has higher cost to manufacture
- ✗ Developed in 2018 as a new low-GWP option
- ✗ Blend of R-32 and R-1234yf, cannot be topped off
- ✗ Must be charged as a liquid to avoid fractionation
- ✗ Low temperature glide (about 2.5°F)
- ✗ As a blend, leaks may cause fractionation

HOW DOES R-32 STACK UP?

R-32



- 10% more ✓
- 7% higher ✓
- 40% less ✓
- 13.6% lower ✓

R-410A



SYSTEM CAPACITY
EFFICIENCY
REFRIGERANT CHARGE
EMISSIONS

R-454B



- ✗ 3% less
- ✗ 2% higher
- ✗ 10% less
- ✗ 13.1% lower

BENEFITS FOR MULTIFAMILY



COST-EFFECTIVE

R-32 costs **significantly less** than R-454B.



EFFICIENT

R-32 performs **13% better** than R-454B.

R-32 systems use about **33% less** refrigerant to operate than R-454B.



PROVEN

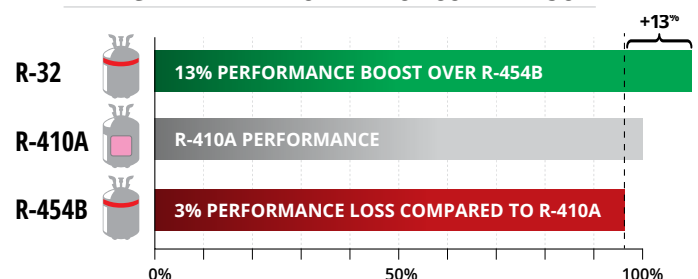
R-32 has been installed in more than **280 million** residential HVAC units across **130 countries** since 2012.



CONVENIENT

R-32 has similar **temps** and **pressures** to R-410A.
R-32 is **not a blend**, making it easier to install and maintain.

REFRIGERANT PERFORMANCE COMPARISON



THE BOTTOM LINE



R-32 IS THE BEST CHOICE.

R-32 refrigerant costs significantly less, provides a more efficient performance and less refrigerant is required to charge units. Each R-32 unit consumes less energy and experiences less wear and tear, resulting in a much lower investment cost both at the time of purchase and over the long term.

Learn More:

ChadwellSupply.com/r32-vs-r454b



Which A2L refrigerant best suits our needs and budget?

R-32 is a good balance of energy efficiency and environmental impact:

- R-32 costs significantly less than R-454B
- R-32 performs 13% better, satisfying the thermostat quicker.
- Systems using R-32 require less refrigerant and can be recharged for less.
- R-32 is not a blend making it easier for technicians to use and top off.
- R-32 delivers compounded savings: Pay less up front, spend less long-term.



When will Chadwell Supply have A2L equipment?

New equipment will be available late 2024 and early 2025.

What additional certifications or training will teams need to safely handle A2L refrigerant?

EPA 608 certification is required for anyone installing or maintaining refrigerants or equipment. Additional A2L training is recommended, but not required.

**R-32 beats R-454B on cost, efficiency, track record, and convenience.
Save money. Save time. Get better performance.**

MYTH – R-32 is unsafe.

FACT – R-32 has a proven track record, with more than 280 million residential units installed in 130 countries.

FACT – R-32 is a key component in many refrigerant blends including R-410A, R-454B, R-452B.

MYTH – R-32 is going away by 2029.

FACT – There is no indication R-32 is going away in the near future. If R-32 were to be phased out, R-454B would also be affected, as R-32 is a major component of that refrigerant.

MYTH – R-454B is non-flammable – or – R-32 is highly flammable and dangerous.

FACT – Like R-32, R-454B is an A2L, labeled as “mildly flammable.” Both are very safe when used properly.

MYTH – R454B is designed as an easy drop-in replacement for R-410A.

FACT – R-454B is not a drop-in replacement for R-410A.

FACT – R-454B is an A2L refrigerant which requires new components and significant system updates to operate properly.

Learn More about A2Ls:
ChadwellSupply.com/A2L-FAQ

