

## Hydrocarbon Refrigerants

Improve efficiency and reduce energy usage



- Comply with Federal and state regulations
- Lower your Global Warming Potential (GWP)
- Eliminate ozone depletion
- Increase plant safety

### A complete portfolio of hydrocarbon refrigerants

Federal and state regulations are targeting CFC, HCFC and HFC refrigerants with high Global Warming Potential (GWP). These initiatives, coupled with increased energy efficiency standards, have more commercial and residential refrigeration system manufacturers and users investigating and implementing hydrocarbon refrigerant use.

Airgas, an Air Liquide company, offers a complete portfolio of hydrocarbon refrigerants and associated gas handling equipment, as well as safety equipment and PPE. With over 1,100 locations nationwide, we have what you need, when and where you need it.



## Hydrocarbon refrigerants

Improve efficiency and reduce energy usage

Excellent thermodynamic properties result in higher system Coefficient of Performance. More system efficiency leads to lower energy usage, resulting in lower operating costs.

In addition, these refrigerants are environmentally friendly as they have significantly lower Global Warming Potential and eliminate ozone depletion potential.

Finally, your refrigeration systems operate at lower pressures, meaning less stress on refrigeration systems and fewer leaks in tubing and at joints.

### Available products

Designation	Hydrocarbon
R170	Ethane
R290	Propane
R600	n-Butane
R600a	Isobutane
R1270	Propylene

Airgas also provides other natural refrigerants as required by system manufacturers and users.

- R744 | Refrigerant-grade carbon dioxide (CO<sub>2</sub>)
- Refrigerant-grade ammonia (NH<sub>3</sub>)

## Multiple supply modes

Airgas supplies hydrocarbon refrigerants in a wide spectrum of supply modes including multiple cylinder sizes and bulk deliveries from tanker trucks into your on-site storage tanks.

As your requirements change, we can easily increase or decrease the amount of product we supply to help you improve your efficiency. Below is an example of a typical packaging offer—ask your representative about your specific needs.

R290 (lbs.)	R600a (lbs.)	Packaging
4	6	LP1
19	22.2	LP5
57	66.4	LP17
95	111	350
400	466	Half ton

### More benefits

- Airgas offers you a consistent and reliable supply of hydrocarbon refrigerants backed by the industry's strongest US supply chain
- Standard and custom gas handling equipment is available to help you deliver your refrigerants safely and cost-effectively
- Local stocking of gases and equipment, delivery and customer service saves you time and money
- Increase safety at your plant with Airgas' strong product stewardship program:
  - Largest emergency response infrastructure in the industry
  - A comprehensive selection of safety products, including PPE
  - Site audits and safety training enhance proper storage and handling at your plant