



GREENBREEZE®



REFRIGERANTS

ECO-FRIENDLY COOLING FOR A SUSTAINABLE FUTURE.

ABOUT GREENBREEZE REFRIGERANT



GREENBREEZE offers a premium range of high-performance refrigerant gases, catering to various applications in air conditioning, refrigeration, and industrial cooling systems. Engineered for efficiency and reliability, our refrigerants comply with international environmental and safety standards, ensuring optimal system performance and sustainability.

Product Range : Our refrigerant gas portfolio includes a diverse selection suitable for residential, commercial, and industrial applications:

- R-134a: Ideal for automotive air conditioning, residential, and commercial refrigeration systems.
- R-410A: Designed for modern, high-efficiency air conditioning systems, delivering superior performance.
- R-404A: Preferred in commercial refrigeration applications, including supermarket freezers and ice machines.
- R-407C: A versatile replacement for R-22, used in residential and commercial air conditioning systems.

Key Features & Benefits

- **High Purity & Performance:** GREENBREEZE refrigerants are formulated for optimal cooling efficiency and system longevity.
- **Eco-Friendly Solutions:** Compliance with environmental regulations and lower Global Warming Potential (GWP) options.
- **Wide Compatibility:** Suitable for various HVAC and refrigeration systems across different industries.
- **Leak-Proof Packaging:** Securely stored in high-quality cylinders to ensure safety and reliability.
- **Cost-Effective Cooling:** Designed to enhance energy efficiency, reducing operational costs over time.

Applications

- Residential & Commercial HVAC Systems
- Automotive Air Conditioning
- Industrial Refrigeration & Cooling Systems
- Cold Storage & Food Processing
- Supermarket & Commercial Refrigeration

Why Choose GREENBREEZE?

With a strong commitment to quality and sustainability, GREENBREEZE refrigerant gases are trusted by HVAC professionals worldwide. Our products ensure high efficiency, safety, and compliance with international regulations, making them the ideal choice for all cooling requirements.

R-134a

13.6KG | 3KG



Product Overview

GREENBREEZE R-134a is a high-performance, non-ozone-depleting refrigerant widely used in automotive air conditioning, residential, and commercial refrigeration applications. Engineered for efficiency, it delivers reliable cooling performance while complying with global environmental regulations.

Product Range : Our refrigerant gas portfolio includes a diverse selection suitable for residential, commercial, and industrial applications:

Key Features & Benefits

- **Non-Ozone Depleting:** Eco-friendly alternative to R-12, with zero ODP (Ozone Depletion Potential).
- **High Thermal Stability:** Ensures consistent cooling performance and system longevity.
- **Energy Efficient:** Reduces power consumption while maintaining optimal cooling.
- **Wide Application Range:** Suitable for automotive AC systems, residential refrigerators, and commercial chillers.
- **Low Toxicity & Non-Flammable:** Ensures safety in various HVAC and refrigeration applications.
- **Compatible with POE & PAG Oils:** Works seamlessly with synthetic lubricants for enhanced performance

Technical Specifications

- Chemical Name: 1,1,1,2-Tetrafluoroethane (C₂H₂F₄)
- Molecular Weight: 102.03 g/mol
- Boiling Point: -26.3°C (-15.3°F)
- Critical Temperature: 101.1°C (214°F)
- GWP (Global Warming Potential): 1430
- ODP (Ozone Depletion Potential): 0
- Cylinder Sizes Available: 13.6kg, 3kg, bulk supply

Applications

- **Automotive Air Conditioning:** Standard refrigerant for passenger vehicles and heavy-duty trucks.
- **Residential & Commercial Refrigeration:** Used in domestic refrigerators, freezers, and supermarket display units.
- **Chillers & Cooling Systems:** Effective in medium-temperature commercial cooling applications.
- **Aerosol Propellant:** Commonly utilized in medical and industrial aerosol applications.

Why Choose GREENBREEZE R-134a

GREENBREEZE R-134a is designed to provide superior cooling efficiency with minimal environmental impact. With high purity and adherence to global safety and environmental standards, it is the trusted choice for HVAC professionals and industries worldwide.

R-404A

10.9KG |



Product Overview

GREENBREEZE R-404A is a high-performance refrigerant designed for low and medium-temperature commercial refrigeration applications. It is widely used in supermarket freezers, cold storage, and transport refrigeration systems. With excellent cooling efficiency and compliance with environmental regulations, R-404A is a trusted solution for modern refrigeration needs.

Key Features & Benefits

- **High Cooling Capacity:** Delivers superior performance in low and medium-temperature refrigeration systems.
- **Non-Ozone Depleting:** Formulated with zero ODP (Ozone Depletion Potential) for an eco-friendly alternative.
- **Reliable Thermal Stability:** Ensures consistent and efficient cooling under various operating conditions.
- **Wide Application Range:** Suitable for commercial refrigeration, transport cooling, and food storage.
- **Safe & Non-Flammable:** Meets international safety standards for refrigeration systems.
- **Compatible with POE Oils:** Works seamlessly with polyester (POE) lubricants for optimal performance.

Technical Specifications

- Chemical Composition: Blend of R-125 (44%), R-143a (52%), and R-134a (4%)
- Molecular Weight: 97.6 g/mol
- Boiling Point: -46.5°C (-51.7°F)
- Critical Temperature: 72.1°C (161.8°F)
- GWP (Global Warming Potential): 3922
- ODP (Ozone Depletion Potential): 0
- Cylinder Sizes Available: 10.9kg, bulk supply

Applications

- **Supermarket & Commercial Refrigeration:** Ideal for refrigerated display cases, freezers, and walk-in coolers.
- **Cold Storage & Food Processing:** Ensures consistent temperature control in storage facilities.
- **Transport Refrigeration:** Used in refrigerated trucks and containers for perishable goods.
- **Industrial Refrigeration Systems:** Supports various cooling applications in manufacturing and storage.

Why Choose GREENBREEZE R-404a

GREENBREEZE R-404A is a reliable choice for demanding refrigeration applications. Its high efficiency, safety compliance, and eco-friendly properties make it an industry-preferred solution for maintaining optimal cooling performance.

R-410A

11.3KG | 2.8KG



Product Overview

GREENBREEZE™ R410A is a non-ozone depleting, high-efficiency refrigerant gas designed for use in residential and commercial air conditioning systems. As a blend of hydrofluorocarbons (HFC-32 and HFC-125), it offers superior cooling performance and environmental safety compared to older refrigerants like R-22.

Key Features & Benefits

Zero Ozone Depletion Potential (ODP)

Environmentally friendly alternative compliant with international environmental standards.

High Cooling Efficiency

Offers greater heat transfer capacity, improving overall system performance.

Stable Performance

Non-flammable under normal operating conditions with low toxicity.

Compatible with New Generation Systems

Specifically formulated for use in systems designed for R-410A—especially scroll compressors and variable speed systems.

Applications

- Split Air Conditioners
- Ducted & VRF Systems
- Commercial Rooftop Units
- Industrial Cooling Systems

Packaging Options

- 11.3 kg Disposable Cylinders
- Recyclable Returnable Cylinders (varied capacities available)
- Bulk Supply (on request)

Technical Specifications

Property	Specification
Chemical Composition	50% R-32 / 50% R-125
Appearance	Colorless gas
Molecular Weight	72.6 g/mol
Boiling Point	-51.6°C
Pressure @ 25°C	250 psig (approx.)
Global Warming Potential (GWP)	2088
Ozone Depletion Potential (ODP)	0
Lubricant Compatibility	Polyolester (POE) oil required

Safety & Handling

- Always handle in well-ventilated areas.
- Use proper personal protective equipment (PPE).
- Store in a cool, dry place away from direct sunlight and heat sources.
- Follow all local regulations for storage and disposal.

Why Choose GREENBREEZE?

With a commitment to sustainability and performance, GREENBREEZE delivers refrigerant solutions that meet today’s efficiency standards while ensuring minimal environmental impact.

R-407C

11.3KG



Product Overview

GREENBREEZE™ R-407C is a non-ozone depleting hydrofluorocarbon (HFC) refrigerant blend, formulated as a long-term replacement for R-22 in residential and commercial air conditioning, heat pumps, and medium-temperature refrigeration systems. It offers comparable performance to R-22 while aligning with modern environmental regulations.

Key Features & Benefits

Zero Ozone Depletion Potential (ODP)

Safe for the ozone layer and compliant with international environmental protocols.

Excellent Energy Efficiency

Delivers high cooling capacity and energy performance similar to R-22.

Non-Flammable & Low Toxicity

Classified as A1 by ASHRAE – safe for use in standard HVAC systems.

Versatile Compatibility

Suitable for retrofitting existing R-22 systems and for use in new equipment.

Cost-Effective Transition Solution

Easier adaptation and minimal system changes for R-22 system conversions.

Applications

- Residential & Commercial Air Conditioning
- Chillers and Heat Pumps
- Packaged Rooftop Units
- Medium-Temperature Commercial Refrigeration Systems
- System Retrofits from R-22

ECO-FRIENDLY COOLING FOR A SUSTAINABLE FUTURE.

Technical Specifications

Property	Specification
Chemical Composition	R-32 (23%), R-125 (25%), R-134a (52%)
Appearance	Colorless, odorless gas
Molecular Weight	86.2 g/mol
Boiling Point	-43.6°C
Pressure @ 25°C	~190 psig
Global Warming Potential (GWP)	1774
Ozone Depletion Potential (ODP)	0
Lubricant Compatibility	Polyolester (POE) oil required

Storage & Safety

- Store in upright position in cool, dry, well-ventilated areas.
- Use only with compatible materials and dedicated POE lubricants.
- Follow all safety protocols, including proper PPE usage.
- Always consult MSDS before handling.

Why GREENBREEZE

GREENBREEZE is a trusted brand in eco-conscious refrigerant solutions. With high purity, consistent quality, and global compliance, GREENBREEZE R-407C is engineered for performance, safety, and environmental responsibility.



GREENBREEZE UNIPessoal LDA
Rua Da Praia Azul, Silveira
Lisbon, Portugal
www.green-breeze.eu

Marketed By:
Cannelle Holdings FZE
P O Box 261660, Jebel Ali Free Zone
Dubai, United Arab Emirates
Tel: +971 4 8861858
www.cannelleholdings.com

www.green-breeze.eu