

Refrigeration Innovation

Professional refiller and distributor of complete series of refrigerant gases in India.



We Use The Advantage of Science to
Build A Better Future

Trust in our experience
Trust in our solutions
Trust in our results

ABOUT US

Vijay Petrochem Pvt. Ltd. is a professional refiller and distributor of complete series of refrigerant gases in INDIA. Our main objective is to make our brand "FREEZEON" synonymous with high quality and the epitome of customer satisfaction. To offer the finest sourcing options, we collaborate with clients for propellants and experts in the refrigerant business. We put great effort into giving our clients the finest products and storage alternatives. We uphold and uphold all environmental protection laws and guidelines as necessary in the constantly shifting gas market. The company deals in environmentally acceptable gases such as Hydro-Fluoro-Carbons and Hydro-Fluoro-Olefins with negligible Ozone Layer Depletion and low global warming potential.



WHO WE ARE

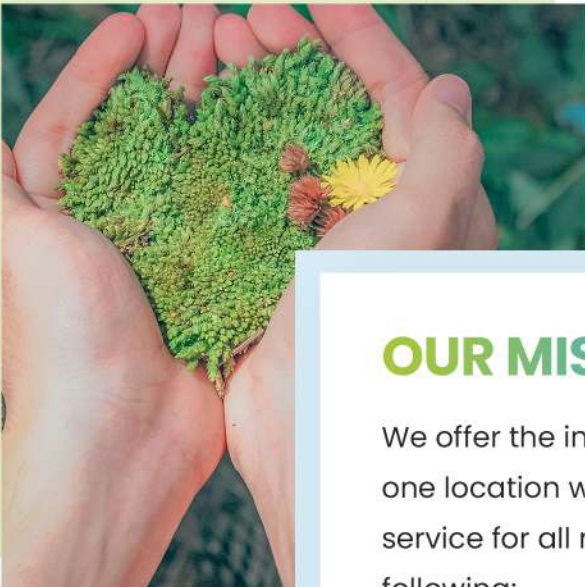
With the mission of improving the world via the power of chemical engineering, Vijay is a unique type of chemical engineering firm with an outstanding reputation. We are fostering the development of sustainable technology and breakthroughs. We are working actively to provide the best, most secure, dependable, and eco-friendly products.

Companies buy Vijay Petrochem Pvt. Ltd. mainly because we constantly seek to enhance our offerings, both in terms of products and services. Our industry-leading brand is positioned for future growth thanks to our pipeline of game-changing product breakthroughs and innovative customer-driven applications. But we don't stop there; we're constantly seeking new avenues for innovation.

VISION & VALUE

With our expertise, we hope to improve society. Our daily operations, company strategy, and corporate strategy are all built on this vision, which works as our North Star. We know that this can indeed only be accomplished by developing chemistry as ethically as necessary.

Consumer expectations are increasing in line with technological advancements, and features like ease, reliability, high efficiency, and accessibility are now ways to stand out from the competition and increase sales. Our products frequently offer new, cutting-edge, impactful applications to satisfy customer or business needs and give a competitive edge.



OUR MISSION

We offer the industry's top concentrations of industrial chemicals in one location with excellence, economical pricing, and the quickest service for all needs. Our primary goal, is Quality service are as following:

Observing all relevant legal requirements. Collaborating proactively with clients for better assistance. We take steps to reduce our impact on the planet. We regularly track our progress and examine our procedures to ensure we provide the most excellent service with high-quality goods at competitive costs. Running business operations securely and ethically with a dedication to injury avoidance. Our product development section assures us to build products with the newest technology and finest products.

R134A Refrigerant

R134a provides good energy efficiency to the systems even at high condensing temperatures.

MAIN APPLICATIONS

Non-ozone depleting refrigerant.

Efficient refrigerant in various air conditioning and medium temperature refrigerant applications.

One of the components of fluoro refrigerant blends (407C,404A).

With the discovery of the damaging effect on CFCs and HFCs refrigerants to the ozone layer, the HFC family of refrigerant has been widely used as their replacement.

It is safe for normal handling as it is non toxic, non-flammable and non- corrosive.



MAIN PROPERTIES

Composition	R-134a (100%)
Type	HFC Single component fluid
ASHRAE safety classification	A1-non-toxic and non-flammable
GWP*	1430
Recommended lubricant	POE or PAG (auto)

*GWP value for 100-Year time horizons according to IPCC 2007 Fourth Assessment Report.

PERFORMANCE

Fluoro R134a provides good energy efficiency to the systems even at high condensing temperatures. It is safe for normal handling as it is nontoxic, non-flammable, and non- corrosive.

LUBRICATION

Polyolester (POE) or polyalkylene glycol (PAG – only for auto A/C) lubricants must be used with Fluoro R134a since it is not miscible with mineral oil or alkylbenzene lubricants. POE or PAG oil absorb moisture quickly when left exposed to the atmosphere. Handle them carefully and avoid prolonged exposure to air.

CHARGING

Charging with R134a can be done either as a vapor or a liquid. End-users should check with their equipment manufacturer's guidelines for specific charging instructions.

DELIVERIES

Non-ozone depleting refrigerant.

Efficient refrigerant in various air conditioning and medium temperature refrigerant applications.

One of the components of fluoro refrigerant blends (407C,404A).

Net Weight - 62Kg & 10 Kg

R410A Refrigerant

410A has a high cooling capacity, thus leading to good performance with a low refrigerant charge.

MAIN APPLICATIONS

Non - ozone depleting refrigerant, near-azeotropic blend.
Small chillers.
Heat pumps.
Dehumidifiers.
Medium temperature commercial refrigeration.
Residential and commercial air conditioning systems.



MAIN PROPERTIES

Composition	R-125 (50%) R-32 (50%)
Type	HFC Near-azeotropic blend
ASHRAE safety classification	A1-non-toxic and non-flammable
GWP*	2088
Recommended lubricant	POE

*GWP value for 100-Year time horizons according to IPCC 2007 Fourth Assessment Report.

PERFORMANCE

Fluoro 410A has a high cooling capacity, thus leading to good performance with low refrigerant charge. Fluoro 410A provide the best energy efficiency for air conditioning.

LUBRICATION

Polyolester (POE) lubricant must be used with Fluoro 410A to ensure complete miscibility between oil and refrigerant. Care must be taken when handling POE lubricants because they are hygroscopic, which means that they can readily absorb moisture from the air. High levels of moisture in the system can lead to oil degradation and system failure.

CHARGING

Due to the near-azeotropic nature of Fluoro 410A, it is better to charge it as liquid to prevent fractionation (changes in the designed refrigerant composition) but it can also be charged as gas. In situations where vapor would normally be charged into a system, a valve should be installed in the charging line to flash liquid from the cylinder into vapor. Fluoro 410a requires the use of manifold gauge sets, recovery machines and cylinders specifically designed and rated for its higher pressures.

DELIVERIES

Fluoro 410A can be delivered in various packaging:

Bulk ISO container(16 tons) or ton-tank(650kg).
Disposable cylinders 11.3 kg each (for exports only).
Cylinders 45kg & 8kg.

R152A Refrigerant

R152a is classified as medium-safe refrigerant, Class A2, non-toxic but slightly flammable. While the refrigeration plant safety regulation limits the use of medium-safe refrigerants in direct expansion commercial refrigeration applications.

MAIN APPLICATIONS

Non-ozone depleting refrigerant.
Environmentally friendly medium-temperature refrigerant that replaces R134a.
Has a very low global warming potential of only 124.
It has a vapour pressure curve equivalent to R134a.



MAIN PROPERTIES

Composition	R-152a (100%)
Type	HFC Single component fluid
ASHRAE safety classification	A1-non-toxic and non-flammable
GWP*	124
Recommended lubricant	POE or PAG (auto)
Boiling temperature at atm pressure	- 24,0°C
Latent heat of evaporation at -10°C, kJ/kg	307

PERFORMANCE

R152a is commonly used as a propellant in aerosols, as a foaming agent, or as a component of refrigerant blends, however, its classification as a slightly flammable refrigerant has limited its use in automotive and commercial refrigeration.

LUBRICATION

Polyolester (POE) or polyalkylene glycol (PAG – only for auto A/C) lubricants must be used with Fluoro 134a since it is not miscible with mineral oil or alkylbenzene lubricants. POE or PAG oil absorb moisture quickly when left exposed to the atmosphere. Handle them carefully and avoid prolonged exposure to air.

CHARGING

Charging with R152a can be done either as a vapor or a liquid. End – users should check with their equipment manufacturer's guidelines for specific charging instructions.

DELIVERIES

Non-ozone depleting refrigerant.
Efficient refrigerant in various air conditioning and medium temperature refrigerant applications.
One of the components of fluoro refrigerant blends (407C,404A).
Net Weight - 55kg & 8 Kg.

R125A Refrigerant

R-125 is one of the most common refrigerants across the world yet so many people have never heard of it. While it is rare to find a direct R-125 refrigerant application, it is very common to find some of the blended refrigerants that R-125 contributes to.

MAIN APPLICATIONS

Supermarkets

Gas Stations

Vending/Ice Machines

MAIN PROPERTIES

Boiling Point	-48.5°C (-55.4°F)
Critical Temperature	66.18°C (151.124°F)
Critical Pressure	3,629 kpa
Molar Mass	120.02 g/mol
Density	1.53 g/cm ³ (liquid at -48.5 °C)[1]
Melting Point	-103.0 °C (-153.4 °F; 170.2 K)
Vapor Pressure	1414.05 kPa (at 25 °C)



PERFORMANCE

The ever popular R-410A and R-404A are blended HFC refrigerants and one of the ingredients in both of these blends is R-125. Along with these there are a variety of other refrigerants comprised of R-125. So, while you may not actually see R-125 in a direct use application you will see it's blended version of 410A, 404A, and other refrigerants in nearly every modern application

LUBRICATION

Polyolester (POE) or polyalkylene glycol (PAG – only for auto A/C) lubricants must be used with 125a since it is not miscible with mineral oil or alkylbenzene lubricants. POE or PAG oil absorb moisture quickly when left exposed to the atmosphere. Handle them carefully and avoid prolonged exposure to air.

CHARGING

Charging with 125 can be done either as a vapor or a liquid. End – users should check with their equipment manufacturer's guidelines for specific charging instructions.

DELIVERIES

Non-ozone depleting refrigerant.

Efficient refrigerant in various air conditioning and medium temperature refrigerant applications.

One of the components of fluoro refrigerant blends (410C,404A).

R32 (HCF-32) Refrigerant

R32 has a GWP about one third that of R410A, and it has excellent properties as a refrigerant. *GWP value for 100-Year time horizons according to IPCC 2007 Fourth Assessment Report.

MAIN APPLICATIONS

Non-ozone depleting refrigerant

Efficient refrigerant in air conditioning equipment



MAIN PROPERTIES

Composition	R-32 (100%)
Type	HFC Single component fluid
ASHRAE safety classification	Slight Flammable
GWP*	675
Recommended lubricant	POE, PVE or PAG

PERFORMANCE

R32 is a chlorine-free, Ozone safe fluorocarbon whose boiling point is -52. R32 is a Component of R410A, a blend refrigerant widely used in developed countries as a main alternative to HCFC-22, an Ozone depleting refrigerant. But R410A has a high Global Warming Potential(hereafter, GWP) of 2088, so a new refrigerant with lower

DELIVERIES

Fluoro R32 can be delivered in various packaging:

Bulk ISO Container (18 – 20 tons).

710 Kg. net Weight Toner.

Cylinders 45Kg. & 8Kg.

All our packging are PESO approved.

V30 CAN Refrigerant

It is suited to a variety of industrial, commercial and domestic applications.

MAIN APPLICATIONS

Non-ozone depleting refrigerant.

It needs specific safety instructions

It is apt for industrial cooling as it has propane with zero ODP.

Replacement of R134a



MAIN PROPERTIES

Gas Number	75-28-5
Flammability	H220, extremely flammable gas
Boiling Point	-11,7 °C
Safety Class	A3
Global Warming Potential (GWP)	3
Toxicity	No
Ozone Depletion Level	0
Boiling point (0bar (g))	-11,7 °C
Critical temperature	135 °C
Critical pressure	36,5 bar

PERFORMANCE

Hydrocarbon is particularly known as a refrigerant used in domestic refrigerators and freezers.

This diverse compound is also known for aerosol sprays, the petrochemical industry, drink dispensers and dehumidifiers.

DELIVERIES

Efficient refrigerant in various air conditioning and medium temperature refrigerant applications.

Hydrocarbon cans are available in 170gms can packaging which is very convenient to carry and used by technician

R407C Refrigerant

Designed for use in residential and commercial air conditioning systems.

MAIN APPLICATIONS

Residential and commercial air conditioning systems.

Heat pumps

Non-flooded evaporator chillers.

Other unitary air conditioning systems.



MAIN PROPERTIES

Composition	R-134a (52%) R-125 (25%) R-32 (23%)
Type	HFC Zeotropic blend
ASHRAE safety classification	A1-non-toxic and non-flammable
GWP*	1774
Recommended lubricant	POE

*GWP value for 100-Year time horizons according to IPCC 2007 Fourth Assessment Report.

PERFORMANCE

Non-ozone depleting refrigerant. Designed for use in residential and commercial air conditioning systems.

LUBRICATION

POE lubricants must be used with Fluoro 407C since its components are not miscible with the mineral oil or alkylbenzene Lubricants.

CHARGING

Due to the zeotropic nature of fluoro 407C, it should be charged as a Liquid to prevent fractionation (changes in refrigerant composition). In situations where vapor is normally charged into a system, a valve should be installed in the charging line to flash the liquid to vapor while charging.

DELIVERIES

Fluoro 407C can be delivered in various packaging:

Bulk ISO container(18 tons) or ton-tank(850kg).

Disposable cylinders 11.3 kg each (for exports only).

Cylinders 50kg & 8kg.

R404A Refrigerant

404A requires a polyester (POE) lubricant to ensure complete miscibility between oil and refrigerant.

MAIN APPLICATIONS

Food display and storage cases.
Cold storage rooms.
Ice machines.
Food processing.
Industrial refrigeration.
Transport refrigeration (refrigerated containers, trucks, vessels).



MAIN PROPERTIES

Composition	R-143a (52%) R-125 (44%) R-134a (4%)
Type	HFC Near-azeotropic blend
ASHRAE safety classification	A1-non-toxic and non-flammable
GWP*	3922
Recommended lubricant	POE

*GWP value for 100-Year time horizons according to IPCC 2007 Fourth Assessment Report.

PERFORMANCE

Non-ozone depleting refrigerant, near-azeotropic blend. Well suited refrigerant for a variety of Medium and low-temperature refrigeration applications. 404A has a very low temperature glide* (less than 1K) which makes it often suitable for flooded evaporated technology.

LUBRICATION

404A requires a polyolester (POE) lubricant to ensure complete miscibility between oil and refrigerant. Miscibility is important for oil return to the compressor, especially in large systems with long runs of piping.

CHARGING

Due to the near-azeotropic nature of 404A, it is better to charge it as liquid to prevent fractionation (changes in the designed refrigerant composition) but it can also be charged as gas. In situations where vapor would normally be charged into a system, a valve should be installed in the charging line to flash liquid from the cylinder into vapor.

DELIVERIES

404A can be delivered in various packaging:

Bulk ISO container(18 tons) or ton-tank(740kg).
Disposable cylinders 10.9 kg each (for exports only).
Cylinders 45kg & 8kg.

R134A CAN Refrigerant

FREEZEON 134a provides good energy efficiency to the systems even at high condensing temperatures.

MAIN APPLICATIONS

Non-ozone depleting refrigerant.

In water and liquid cooling solutions and heat pumps, the refrigerants can be used in accordance with the F-gas Regulation until 1 January 2030.

In commercial and professional refrigeration equipment, use is permitted on the primary side of cascade systems.

R134a is also a common element in many HFC refrigerant mixtures, and it is also used in applications that require a propellant.



MAIN PROPERTIES

Composition	R-134a (100%)
Type	HFC Single component fluid
ASHRAE safety classification	A1-non-toxic and non-flammable
GWP*	1430
Recommended lubricant	POE or PAG (auto)

PERFORMANCE

Freezeon 134a provides good energy efficiency to the systems even at high condensing temperatures.

R134a refrigerant is commonly used in various cooling and air conditioning applications. It was originally developed to replace R12 in car AC systems. It has also been used to replace refrigerants R12 and R500 in coolers. It is also used as a medium-temperature system in residential buildings and commercial contexts.

DELIVERIES

Protect from Sunlight. Store in a well-ventilated place.

R134 a cans are available in 450gm can packaging which is very convenient to carry and used by technician.

V10 CAN Refrigerant

As of now, the most environment-friendly refrigerant available for air conditioning in India is R600 A

MAIN APPLICATIONS

It is suited to a variety of industrial, commercial and domestic applications.

Isobutane is particularly known as a refrigerant used in domestic refrigerators and freezers.

The diverse compound is also known from aerosol sprays, the petrochemical industry, drink dispensers and dehumidifiers.

The food E number for isobutane is E 943b. In food industry isobutane is used as a packaging gas and propellant, for example.



MAIN PROPERTIES

Refrigerant Category	Natural
Chemical / blend name	C4H10, Isobutane
Chemical composition	C4H10 100%
GAS number	75-28-5
Flammability	H220, extremely flammable gas
Toxicity	No
Safety class	A3

PERFORMANCE

Refrigerant R600a is a natural refrigerant, an isomeric form of unbranched butane, which is suitable for many cooling applications. It is environmentally friendly and effective and, in refrigeration applications, it boasts low power consumption and load power. It is also compatible with many lubricants.

DELIVERIES

Non-ozone depleting refrigerant.

Efficient refrigerant in various air conditioning and medium temperature refrigerant applications.

R600a cans are available in 190/200gms can packaging which is very convenient to carry and used by technician

V40 CAN Refrigerant

R290 refrigerant is a natural refrigerant. It is suitable for a variety of purposes, but its high flammability prevents its use in large plants.

MAIN APPLICATIONS

Amusement parks and the film industry use propane as an affordable high-power fuel in the creation of special effects, such as explosions.

R290 is well-suited to numerous refrigeration and air conditioning applications in both commercial, industrial and domestic systems.

R290 serves as a substitute for refrigerants R22 and R502.



MAIN PROPERTIES

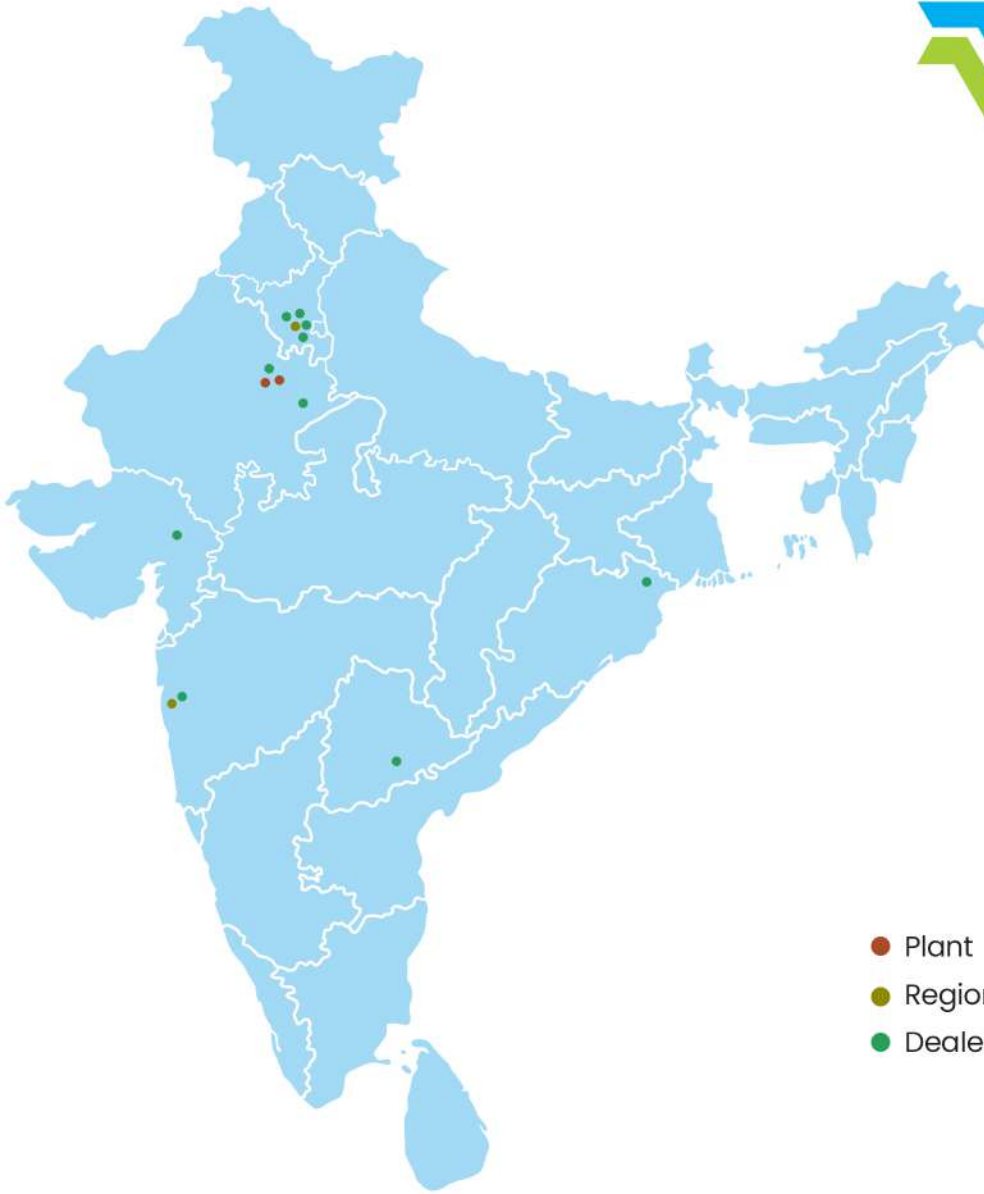
Refrigerant Category	Natural refrigerants
Chemical / blend name	Propane
Chemical composition	C3H8
GAS number	74-98-6
Flammability	Extremely flammable gas, category 1
Toxicity	No
Safety class	A3

PERFORMANCE

Hydrocarbons are not harmful to the ozone layer. The use of R290 has increased specifically thanks to its low environmental impact as well as its excellent thermodynamic performance.

DELIVERIES

R290 cans are available in 150gms CAN packaging which is very convenient to carry and used by technician



- Plant
- Regional Marketing Office
- Dealer Network Across INDIA

OFFICE ADDRESS

ADDRESS - 45, GOM DEFENCE COLONY, VALMIKI MARG,
VAISHALI NAGAR, JAIPUR- 302021 RAJASTHAN

FACTORY ADDRESS

ADDRESS - (R32 and R152a): KHASRA NO. 2139/ 1751,
2137/1750 AND 2169/1750, VILLAGE GOVINDGARH, TEHSIL-
CHOMU, DISTRICT- JAIPUR, RAJASTHAN PINCODE-303712

ADDRESS - PLOT NO 21, OPPOSITE CETP VILLAGE NAWDE,
KALAMBOLI, TALOJA MIDC MAIN LINK ROAD, MUMBAI.

ADDRESS - (R134a, R407c, R410a, r404) PLOT NO. 12, GOVINDGARH INDUSTRIAL AREA, PART-2,
GOVINDGARH(SYAU), SIKAR ROAD, TEHSIL- CHOMU, DISTRICT- JAIPUR-303712 RAJASTHAN

