

Making our world more productive



# Keeping you cool.

Delivering your refrigerant gas  
and service needs.



# Why choose Linde Gas? A global leader and trusted partner.

Linde Gas is a global leader in refrigerant solutions and services. Our products span both traditional fluorocarbon and natural refrigerants making us a trusted partner to a vast range of industries around the world. They are vital for refrigeration, process chilling and heat extraction applications used in the food and beverage, pharmaceuticals, industrial manufacturing, chemical and petrochemical industries. They also provide air conditioning in our transport, shops, offices and public buildings and homes.

Whatever your application, wherever you are, Linde Gas can meet all your needs relating to the delivery, handling and management of refrigerant gases.





## Proven industry expert. Meeting your refrigerant gas and service needs.

Linde Gas solutions and services span:

### Wide product range

- Refrigerant gases including fluorocarbon and environmentally friendly, natural gases such as refrigerant-grade carbon dioxide (R744), ammonia (R717), hydrocarbons and hydrocarbon blends
- A wide choice of packaging – cylinders, drums, ISO tanks and bulk road tankers
- Pressure testing and leak detection gases
- Cutting and welding gases

### Global branch network

- Best in class logistics ensuring optimal product quality and security of supply
- Local customer service

### Total solution and services

- Specialist services such as refrigerant recovery and reclamation, on site audits and risk assessment
- Safe and legal waste management
- Technical and operational expertise – advice on the best gas for your needs, local legislation/regulatory compliance and environmentally friendly alternatives
- Training tailored to end user needs



# Serving you wherever you are. Delivering measurable value.

We make it our business to understand our customers' business. As well as enabling end users to operate in a healthy and safe manner, Linde Gas technologies make a positive difference to your business and the world around it. They drive measurable performance improvement, reduce risk, lower operational and lifecycle management costs and satisfy regulatory compliance.

We also advocate responsibility to the environment. This is integral to our Corporate Responsibility Policy and ensures that sustainability underpins everything we do. It sees us actively seeking new refrigerants with more eco friendly characteristics.

Whether your application is refrigeration, air conditioning, process chilling or heat extraction, Linde Gas will have the right solution for you:

## Fluorocarbon refrigerants

Our wide and growing range of refrigerant gases and services is tailored to meet local legislation and customer demand. It includes:

**HCFCs:** R22, R22R, R123, R124, R401A, R401B, R402A, R402B, R403B, R408A, R409A, R409B and more.

**HFCs:** R134a, R404A, R407C, R410A, R413A, R417A, R422A, R422D, R424A, R427A, R407A, R428A, R437A, R507, R508B and more.

Contact your local Linde supplier for advice.

## Natural refrigerants

Our natural refrigerants provide zero Ozone Depletion Potential (ODP) and minimal Global Warming Potential (GWP). A cost-effective solution, they include ammonia (R717), carbon dioxide (R744) and high-quality hydrocarbons including isobutane (R600a), propane (R290), ethylene (R1150), propylene (R1270) and blends of these products.

## Industrial gases

Our industrial gas portfolio includes nitrogen and nitrogen/helium mixes for leak detection and pressure testing as well as oxygen and acetylene for cutting and welding.





## Global expert, local branch network. Working with our partners.

Linde Gas has more than 40 years experience serving the refrigeration & air conditioning industry. We pride ourselves on our customer centric approach and because of this our local Linde branch structure strive to deliver expertise and quality products & services around the globe.

Our trusted network of raw material manufacturers enables us to source refrigerants from multiple sources. These are delivered via a global supply chain spanning product storage, bulk breaking, filling and blending facilities – much of it ISO 9001 accredited.

For our customers, this translates into measurable business benefits: safe, secure and responsive logistics delivering value added solutions and services.

### Innovation

We are committed to strengthening our market leadership and to investing in new technologies and products that unite the goals of customer value and sustainable development.

# Total solutions and services. Optimal systems: minimal environmental impact.

## Refrigerant recovery and reclamation

Linde Gas encourages the recovery, reclamation and reuse of refrigerants wherever possible. We:

- Provide cylinders and drums for the recovery of system refrigerant that is no longer required
- Manage legal, safe and environmentally responsible disposal
- Reclaim, clean and distill returned refrigerant and bring it back to ARI standard thereby eliminating the need to produce new material.

## Analysis and optimisation

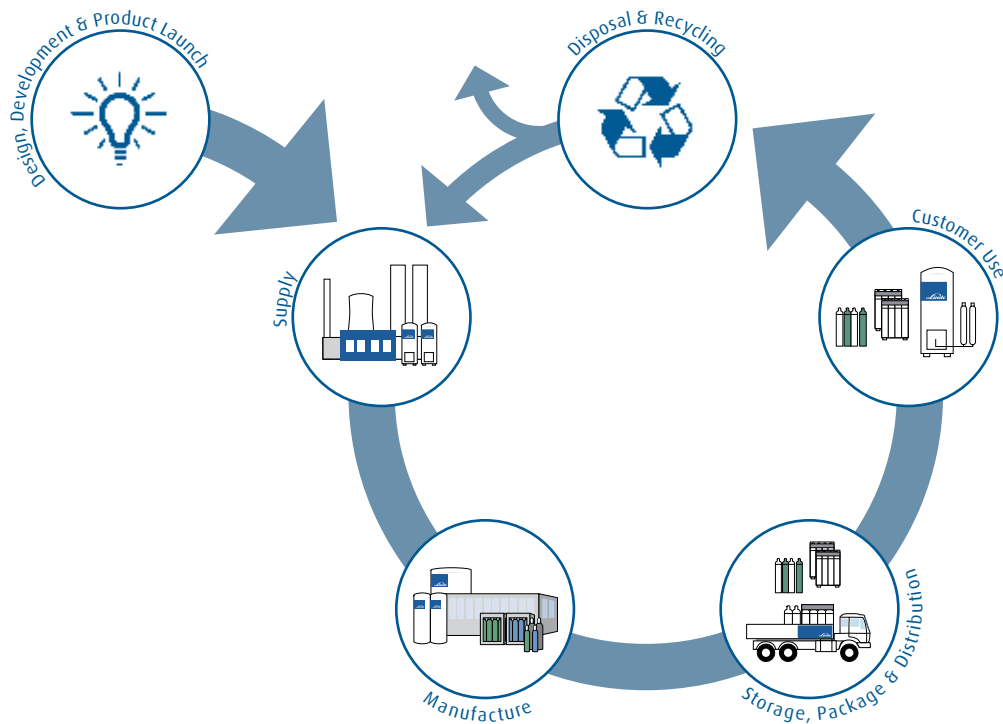
We help our customers to maximise system uptime. We do this through oil and gas analysis to identify impurities that detract from peak performance, system monitoring, on site recovery, product banking and customised training to suit individual company and site needs.

## Bespoke technical support

Legislation and growing demand for refrigerants with lower ozone depletion (ODP) and global warming potential (GWP) is driving change.

For the benefit of our customers, we combine leading industry knowledge and proven technical expertise, being there for you to help identify the best refrigerant solution for your needs. We can help navigate statutory compliance, identify a CFC/HCFC alternative when retrofitting a legacy system and understand how new-generation fluorocarbons or natural refrigerants support your corporate sustainability agenda. You can count on us to give you the right solution – for your business, for the environment and for society.





The Linde Gas product lifecycle

## Taking responsibility. Safety, health, environment and quality.

Linde Gas operates strict policies regarding product stewardship and responsible health, safety and environmental management. This approach reduces risk and ensures that you have the right systems in place to safely use refrigerants and satisfy regulatory compliance – international and/or national legislation such as the Montreal Protocol and European Union F-gas regulations.

### Safety

Refrigerants, like any other gas product, need safe handling. Linde experts can advise on this. They can also guide on product choice, legislative compliance, product specifications and applications.

### Quality

Impurities such as moisture detract from refrigerant efficiency. Tight controls ensure that our products and packaging consistently set new benchmarks for best-in-class quality and safety standards. All Linde sites supplying liquid CO<sub>2</sub> are ISO 9001 certified.

### Product stewardship

Manufacturing industries strive to continuously improve the safety and environmental performance of their operations. Our product stewardship ensures that all its solutions and services meet or exceed expectation and comply with all national and/or international legal requirements.

We ensure that, throughout their entire life cycle, the safety, health and environmental protection issues relating to our solutions and services are fully understood and therefore reduce risk to people, property and the environment.

# Getting ahead through innovation.

With its innovative concepts, Linde is playing a pioneering role in the global market. As a technology leader, it is our task to constantly raise the bar. Traditionally driven by entrepreneurship, we are working steadily on new high-quality products and innovative processes.

Linde offers more. We create added value, clearly discernible competitive advantages and greater profitability. Each concept is tailored specifically to meet our customers' requirements – offering standardised as well as customised solutions. This applies to all industries and all companies regardless of their size.

If you want to keep pace with tomorrow's competition, you need a partner by your side for whom top quality, process optimisation and enhanced productivity are part of daily business. However, we define partnership not merely as being there for you but being with you. After all, joint activities form the core of commercial success.

**Linde – Making our world more productive**