



Advanced Temperatue Control

C2

World-class Innovation Worldwide Installation

Cross Group is a dynamic company, with specialist divisions delivering large-scale projects to a wide spectrum of sectors, including: Commercial and Industrial Refrigeration, Commercial Air Conditioning, Fruit Ripening and Industrial Temperature Control. Today we operate worldwide and provide unparalleled maintenance and service support throughout the UK and Ireland.

While our origins lie in commercial and industrial refrigeration and air conditioning, the Cross Group has effectively diversified into complementary sectors. Today, our expanded conglomerate boasts an impressive combined annual turnover exceeding £100 million. We remain committed to our core expertise in refrigeration and air conditioning, which forms the cornerstone of our business operations.



CROSS Group is a global leader and innovator in energy efficient temperature control technologies for commercial and industrial applications.

- + Industrial Temperature Control
- + Commercial Refrigeration
- + Food Retail Refrigeration
- + Fruit Ripening Technology



INNOVATIVE ENERGY SAVING RIPENING SOLUTIONS

High efficiency fan motors

Reversible airflow solutions with temperature control to + / - 0.1 degree C.

Environmentally friendly refrigeration system, including chilled water no need for leak detection in ripening rooms

Guaranteed consistency of colour and texture with no inspection required

Intuitive load adjusting control valves with inverter driven pumps

Random access rooms for ripening exotic fruits

WORLD-CLASS INNOVATION & TECHNOLOGY

Full service including design, delivery and project management

Massively reduced energy and running costs, (up to 50%)

High quality manufacturing to deliver a longer system life-span

Independently proven energy savings

EXPERIENCE YOU CAN COUNT ON

Over 35 years experience of refining and improving design and technology in banana and fruit ripening

Global experience with project delivery worldwide

Client credentials with world-leading producers and retailers

Existing installations with up to a 25 year life span

Specialist, experienced service engineers





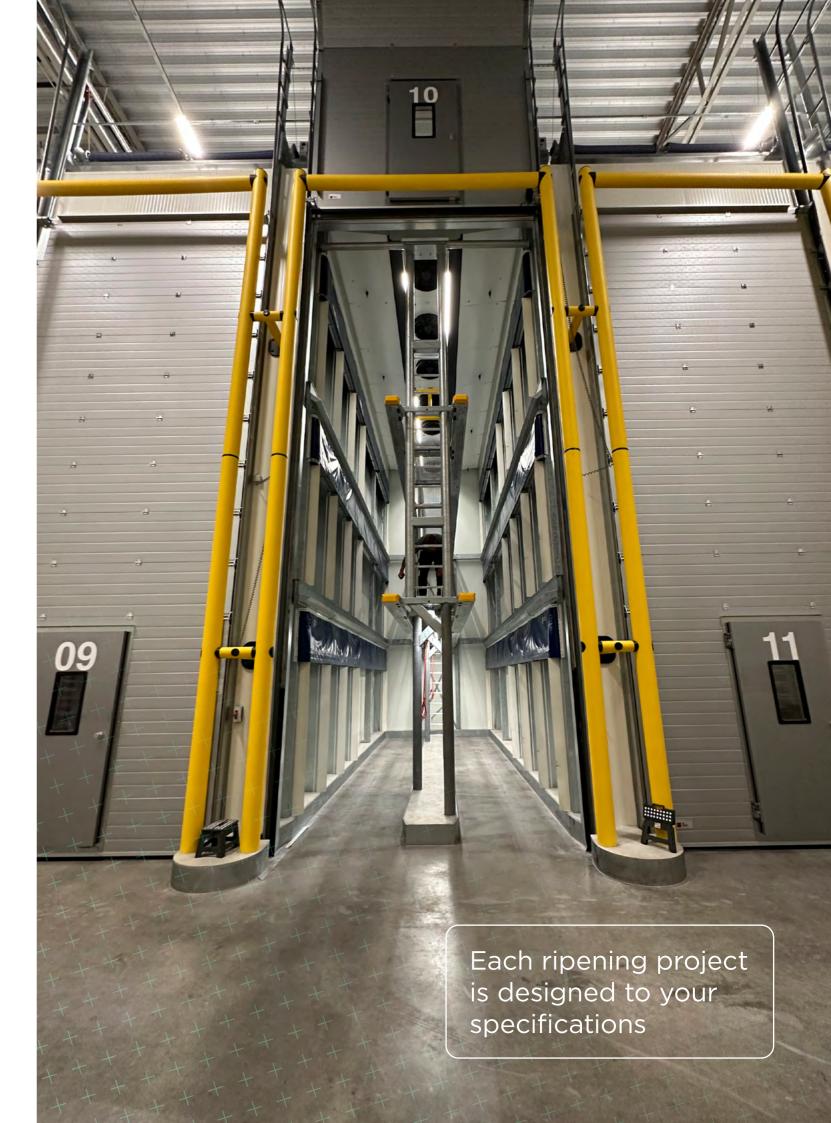
Controlled Atmosphere Fruit Ripening Rooms

The cooling coils are centrally mounted and run the full length of the ripening chamber. The ripening room coolers operate within a small temperature differential to minimise product weight loss.

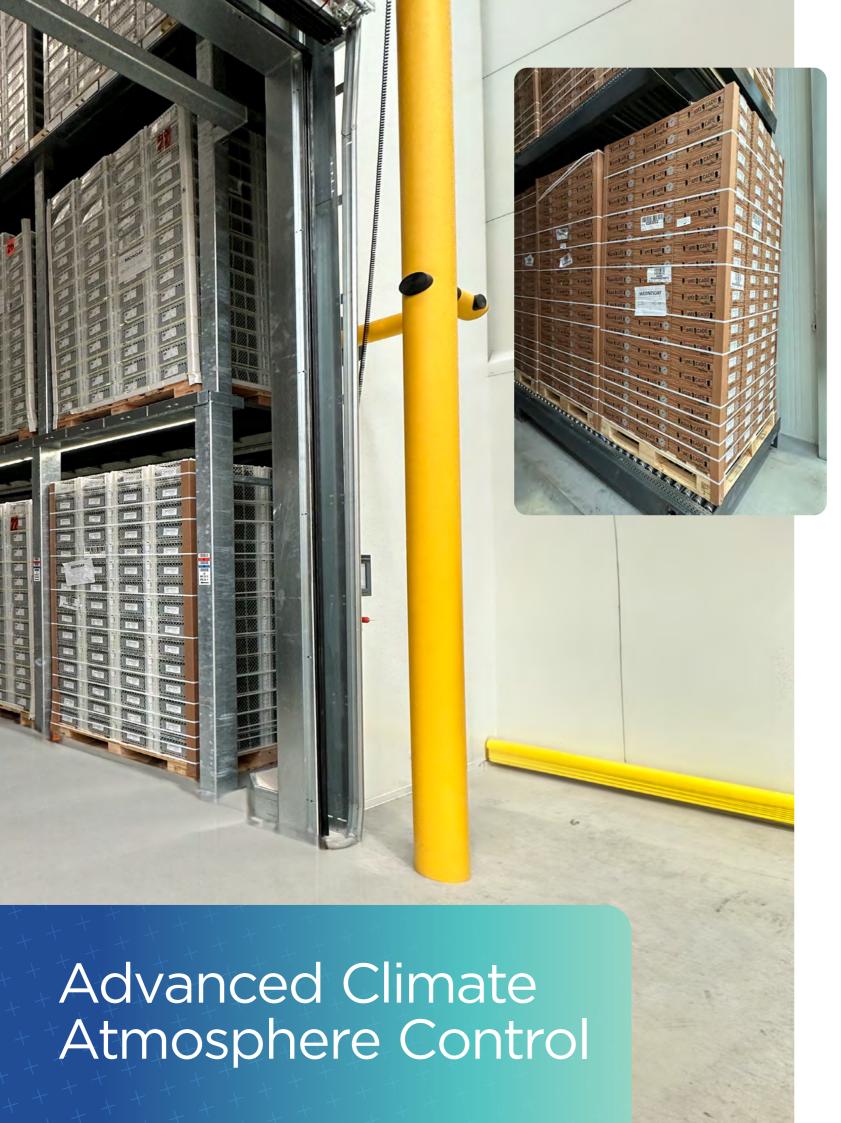


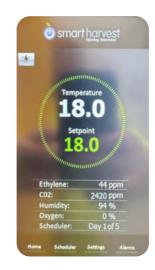
Air flowing through the evaporator is circulated into the space between the pallets and the room walls. In conjunction with our sealing system, we can ensure equal ripening throughout the room. Optionally, your system can be fitted with a reversible air circulation system for guaranteed results.

We specify only the most energy efficient motors to minimise power consumption, whilst each solution is designed with ease of maintenance in mind.











Our ripening system is mounted to the left and right hand side walls giving full access to the full length of the room. Evaporators operate with only a small temperature differential in order to maximise fruit quality. Air flows through the evaporator and is ejected into the space between the pallets and the wall of the room. Special closing curtains stop the air from flowing over the pallet.

Each room has its own independent humidification controller, operating a high pressure, self-cleaning misting system.

Combined with the sealing system of your choice, this ensures equal ripening throughout the entire room. Ripening rooms can be fitted with a two-way air circulation system for even better results. Low energy consumption, thanks to the use of special motors, plus easy maintenance are other key features of our design.

The absence of moving parts translates into low maintenance and operating costs.

Speak to our sales team to discuss your next project.

Call +44 (0) 28 3752 6090











Automated Ripening Facilities



In 2019 Cross Group delivered the world's first fully automated banana ripening facility at a site near London.

It has revolutionised the way we ripen fruit. Requiring 80% less labour, 60% less energy consumption and increasing storage capacity on-site by 40%, the term game-changer, doesn't even come close.

A fleet of intelligently programmed robot pallet taxis and automatic lifts ensures the product is moved efficiently between the intake area and the designated ripening rooms.

Working autonomously from intake to dispatch the solution leverages all of our experience to precisely manage the ripening conditions from start to finish. Perfectly ripened product is synced with your carriers collection schedule, ensuring no product becomes spoiled.

LEARN MORE



Scan to watch the Cross Ripe® Automated Ripening Facility solution in action.







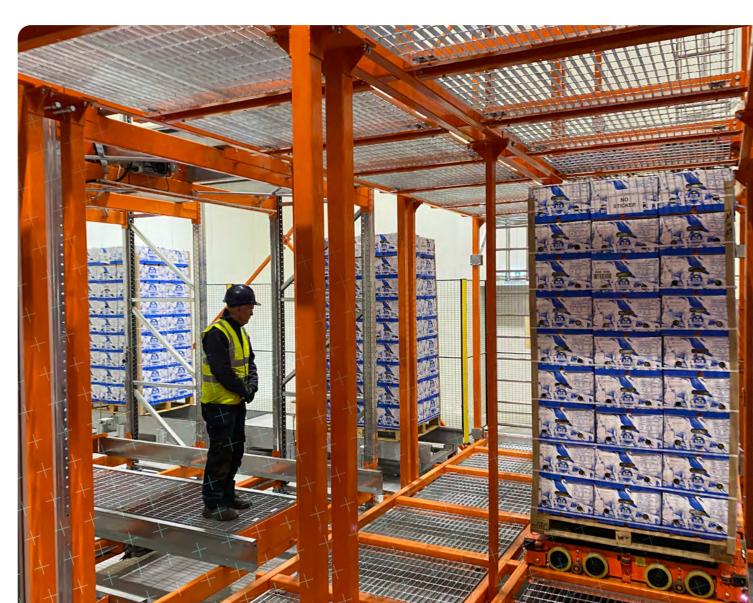
Our unique smart robot pallet taxis do all of the hard lifting, removing the need for forklifts and pallet trucks in the storage area and reducing the need for human interaction by up to 80%.

Smart lifts allow the storage area to be extended over multiple levels and allow the fleet of pallet taxis to navigate the most efficient route between ripening rooms and the inbound/outbound area.

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World Class Innovation & Technology

Gas Tight Sectional Doors

- * These gas tight sectional doors are suitable for storage rooms and fruit ripening chambers, (including tropical fruit and bananas).
- * Tracks are self-supporting and (depending on the rail system), the door leaf is guided horizontally, vertically, or following the roof pitch.
- * The insulating core consists of CFC-free solid polyurethane foam. The interior and exterior sheet consists of 0.5 mm thick galvanized coated steel sheet.
- * The sophisticated panel connections with special sealing, in combination with the 3 flap gaskets around the door perimeter, ensure optimum gas tightness.
- Supplied standard with a kick out window that doubles as an emergency exit.

Adjustable Air Curtains

Each curtain can be operated manually or electrically to the customer's requirements allowing part or full load pallets and further reducing energy costs, while maintaining even air-flow through the fruit produce.

Side Curtain System

Patented side curtains allows dual direction airflow, ensuring an even distribution of airflow and temperature throughout the room, providing even ripening across all product. There are adjustable height curtains for different pallet heights. The absence of moving parts results in low maintenance and operating costs.











Packing, Intake & Dispatch Areas

The health, safety and wellbeing of staff cannot be understated in the working environment and we take it very seriously. In addition to taking care of your fruit product, at Cross Group, we care just as much for your people. We provide a comprehensive range of ventilation and climate control functionality for manual process areas and safety barriers to protect workers from machinery and product in transit.

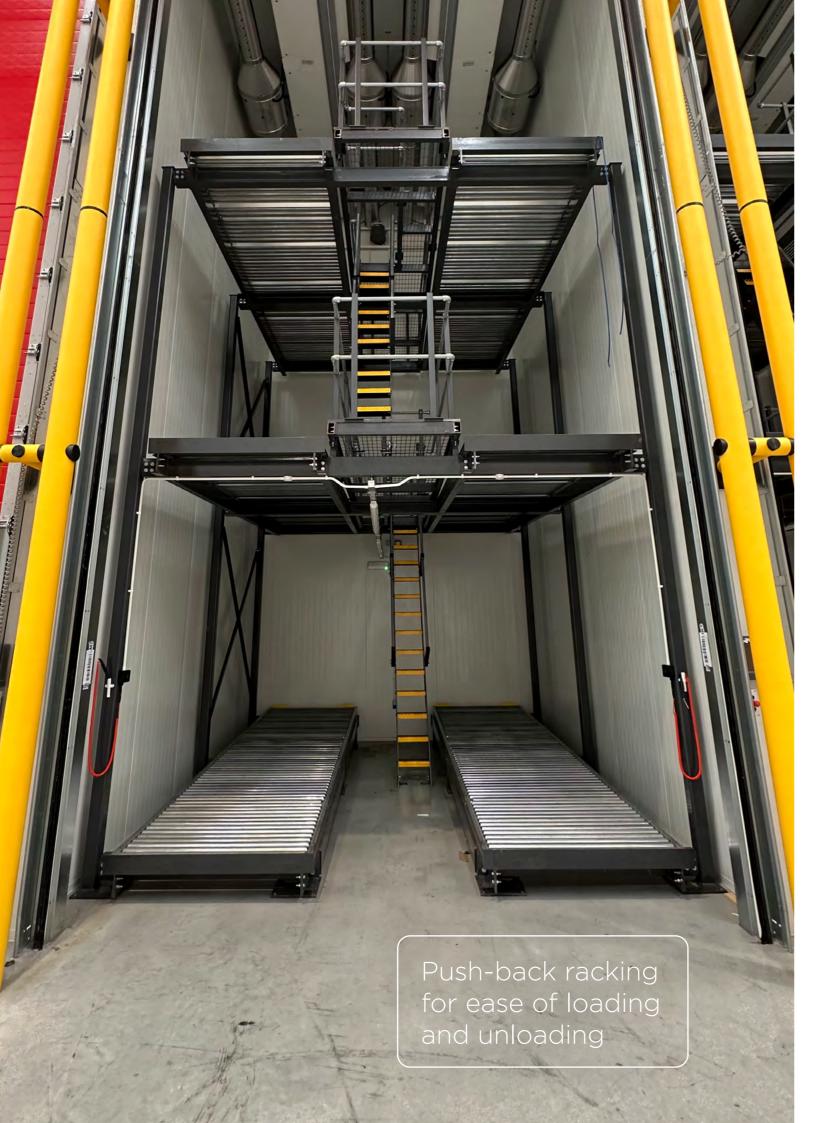
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Pulsion Airflow Management System

Cross Ripe® exclusively offer this unique, patented technology as part of our fruit ripening solution.

Our Pulser system sets the entire air volume in motion, ensuring homogeneous temperatures to $\pm 1^{\circ}$ C within the ripening space.

LEARN MORE



Scan to watch the Cross Ripe®
Pulsion Airflow Management
System in action.

- + Improved air distribution
- + Uniform ripening throughout the chamber
- Gentle air movement for a more natural ripening process
- Improved energy efficiency
- Longer shelf life







Electronic Control System

Our bespoke Electronic Control System uses the latest world-leading fruit ripening technology.

- + Developed in conjunction with our in-house team
- Complete facility management
- Maximises energy efficiency
- + Full remote access & plant interrogation
- Speeds up maintenance repair
- Intelligent automated algorithms for lower fan energy consumption



energy





Easy Maintenance

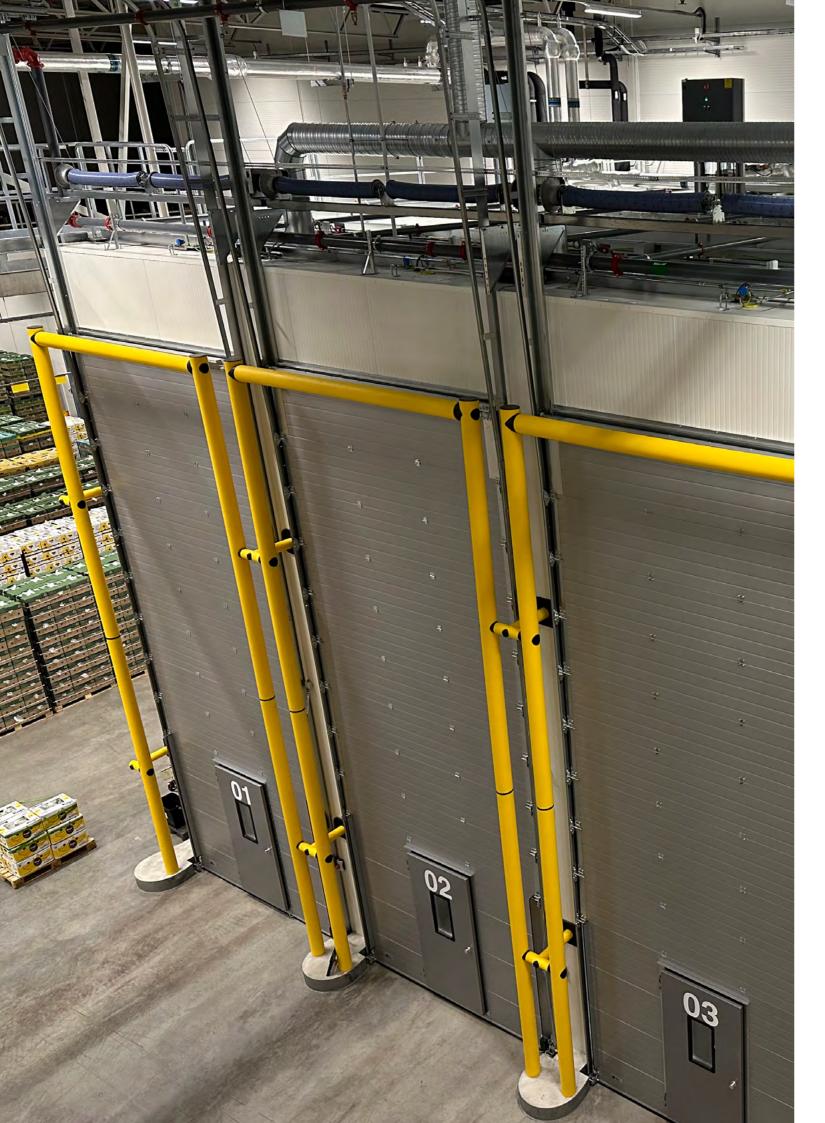
Cross Ripe® requires minimal maintenance and all critical parts are easily accessible for cleaning and maintenance. Our system, with hinged fan plates, allows safe and easy access to all components. Cross Group has a dedicated, experienced service and maintenance team, which, paired with our smart logistics, ensures optimum running of your ripening operation.





Centralised Refrigeration Packaged Units

The natural choice - we believe in environmental sustainability so our systems have been developed to use natural refrigerant technologies, utilising CO2, Water, Glycol, Ammonia and HFC Refrigerants.





Making Ripening Profitable

Cross Ripe® greatly reduces manual handling, forced interventions, energy consumption and wastage from rejects.

Unlike conventional methods, each room can be configured for all types of tropical fruit, providing a more dynamic solution for your business.

With Cross Ripe®, you benefit from premium fruit quality, a longer shelf-life, minimal product losses and low operational costs.

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