

Experience and innovation
in temperature control

FRIGOBLOCK



Introduction

MWL is an independent, leading provider of temperature control solutions for transport, commercial and industrial property and manufacturing processes.

We have been in operation since 1975 and have gained a strong, trusted reputation across many industries for our service, support, solving difficulties and offering technical expertise that many others cannot match. Our roots are within the transport refrigeration market, but our business has expanded over the years.

Today, our divisions cover transport refrigeration, cold rooms and heating, ventilation and air condition (HVAC) solutions for commercial and industrial property and manufacturing processes. We offer bespoke expert advice, engineering solutions and trusted professional service for each client.



Refrigerated transport

In the cold chain transport industry, we maintain and provide advice on all types of brands of refrigeration systems. These range from small truck home delivery fleets and large trucks used for multi-drop food distribution to trailer fleets used in the retail and pharmaceutical sector.

Many of our clients' fleets have different types and makes of refrigeration units and vehicles of different ages, sizes and configurations. Being independent, we work on all types and brands of units and vehicles, and always provide impartial, expert advice and options.

Our solutions and options are bespoke for each client, based on their individual requirements and challenges. We have the best systems, knowledge and experience to provide clients with exceptional service and solutions.

Greener technology

We promote greener refrigeration technology to clients while also working with traditional equipment. We advise and help them practically in making the gradual transition to cleaner technology and electrification of their refrigeration systems over time.

We have been a service partner for FRIGOBLOCK refrigeration systems for 30 years and are now a sales and service dealer. These systems efficiently generate electrical power to drive the refrigeration unit by using an alternator connected to the main truck engine that complies with the latest emission legislation. They are cleaner, more efficient, save significant fuel costs and comply with latest clean air standards, clean air zones and delivery standing time restrictions.

Traditional heavy truck refrigeration systems rely on an additional industrial diesel engine to power the refrigeration system. The diesel engines need their own fuel supply and do not conform to the latest emission standards that apply to modern truck engines.

FRIGOBLOCK

FRIGOBLOCK systems do not require an extra diesel engine. They efficiently generate electrical power to drive the refrigeration unit by using an alternator connected to the main truck engine that complies with the latest emission legislation

Advantages of a FRIGOBLOCK system over a diesel driven system include:

- Less diesel fuel consumption
- Lower CO2 and noxious emissions
- Lower maintenance cost
- very powerful with rapid pull down

FRIGOBLOCK is well established and its products are trusted and robust. Temperature-controlled transport businesses should get objective, expert advice on the many benefits that Frigoblock technology provides and take advantage of these to adapt their fleets to greener technology for the future.



FK Series

The FRIGOBLOCK FK Series of refrigeration machines is for rigid vehicles, mounted to the front wall above the driver's cab. This series is the right choice for high-end distribution service.

The evaporator is completely integrated in the refrigeration machine so full height loading up to the front wall is possible without the loss of loading height and goods are protected from damage. Quick-release fasteners improve ease of maintenance and the refrigeration machine can be exchanged in a few minutes.

Main features:

- Highest refrigeration capacity up to 32,000 W
- Ø 50% less fuel cost
- Large heat exchange surfaces with high efficiency
- Environmentally compatible refrigerant R410A

We provide both the original and new FK series.



HK Series

The FRIGOBLOCK HK Series of refrigeration machines is for drawbar systems and semi-trailers, mounted to the front wall. The cross-flow fan has only 100mm discharge height so gives optimum volumetric airflow and high discharge velocity. The complete machine can be hinged out, offering full maintenance accessibility including when the truck is loaded.

Main features:

- Highest refrigeration capacity up to 23,300 W
- Ø 50% less fuel cost
- Extremely low deadweight, very high payload.
- Environmentally compatible refrigerant R410A
- Double deck loading up to the front wall without any loss of loading height.



EK Series

The FRIGOBLOCK EK Series are split refrigeration machines. Trucks with a low body or through-loading trailer can be equipped with a split refrigeration machine where the condenser unit EK is underfloor-mounted and the evaporator unit RE is installed in the loading space.

Main features:

- Highest refrigeration capacity up to 23,600 W
- Ø 50% less fuel cost
- Large heat exchange surfaces with high efficiency
- Environmentally compatible refrigerant R410A
- Compact GRP housing with frame of high-strength special aluminium sections.



RE Series

The FRIGOBLOCK RE Series features additional evaporators for multi-compartment trucks. The RE 11-42 models can be used as the evaporator in split combinations EK and RE and also as additional evaporators for multi-compartment trucks. Double deck loading or multi-compartment bodies divided into three sections can be realised due to low height of 100mm and higher widths of 720mm or more.

Main features:

- Maximum flexibility. Compartment widths 1200mm to full body length.
- Four-way heat pump control for extremely fast defrosting.
- Radial flat fan of 355 diameter for up to 7,000 m³/h air output.
- High-strength GRP housing, hinged down, with 100 per cent access to all components.

Frigoblock Alternators for three phase and diesel

Using a V-belt from the truck engine, this system produces on-board the same voltage and frequency as the European power supply system. This means FRIGOBLOCK machines can be run on a mains supply with no need for additional equipment.

For applications when independent diesel drive is essential, a FRIGOBLOCK DIESEL alternator set installed within a fully encapsulated and splash-water-protected housing can be installed underfloor separately from the refrigeration machine. The diesel alternator set is as reliable as the alternator drive system of truck engines and, so, exceeds the reliability of conventional diesel drives.

Hydraulic tilting mechanism, only 30mm gap to driver's cab required, saves up to 300mm total height.



Transport refrigeration servicing and maintenance plans

We offer a range of services and maintenance plans for all your transport refrigeration needs. We offer a number of fleet maintenance service packages as well as being able to tailor contracts to your needs.

Whether you're an independent family-run business with just one refrigerated vehicle that you maintain when necessary or you operate an entire fleet of HGVs travelling across the country, we understand that every company has unique challenges and requirements for maintenance for transport refrigeration vehicles.

We cover all refrigeration systems and brands in addition to being a FRIGOBLOCK sales and service dealer. Related services include Thermo King and Carrier repair and servicing, heating and air conditioning, cold room storage, ventilation and extraction.

We also have an online servicing portal, giving clients the latest updates on all maintenance and servicing of their refrigeration systems.

We're trusted by all kinds of clients to come up with the best solutions for their unique challenges and requirements.

Because we are genuinely independent, we give clients bespoke advice and real choices based on access to all types of systems and brands. Our maintenance plans are hassle-free and can be tailored for each client. All this makes for extra peace of mind.

We are keen to promote advanced new technology while also working with clients existing equipment. We advise and help them practically in making the gradual transition to new equipment over time including electrification of refrigeration systems.

New technology is more efficient to run and cleaner, meaning it has lower environmental impacts. Businesses benefit from lower fuel consumption and are protected from ever-rising energy costs.

We can provide bespoke maintenance packages to suit your business.

- Fixed contract maintenance
- Highly qualified engineers
- On-site repairs and maintenance
- All system makes and parts sourced
- Approved warranty and approved repairs

Our engineers are on-call 24/7 for clients across the country. They can carry out repairs and maintenance on-site for 365 days of the year, providing excellent service and peace of mind.

We believe our engineers are the best in the business. They're central to our excellent reputation and our leading position serving UK businesses.

They have a high level of technical competence, brilliant attention to detail, the ability to remain focused under pressure, excellent customer service skills and effective communication at all levels. They're a trusted, friendly bunch.

Skills, knowledge, training and development are central to our business success and position. Our engineering teams are qualified with the relevant cold chain industry accreditations.

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