



THE ELECTRIC LEAD



YEARS  
1960–2025



B1

B2

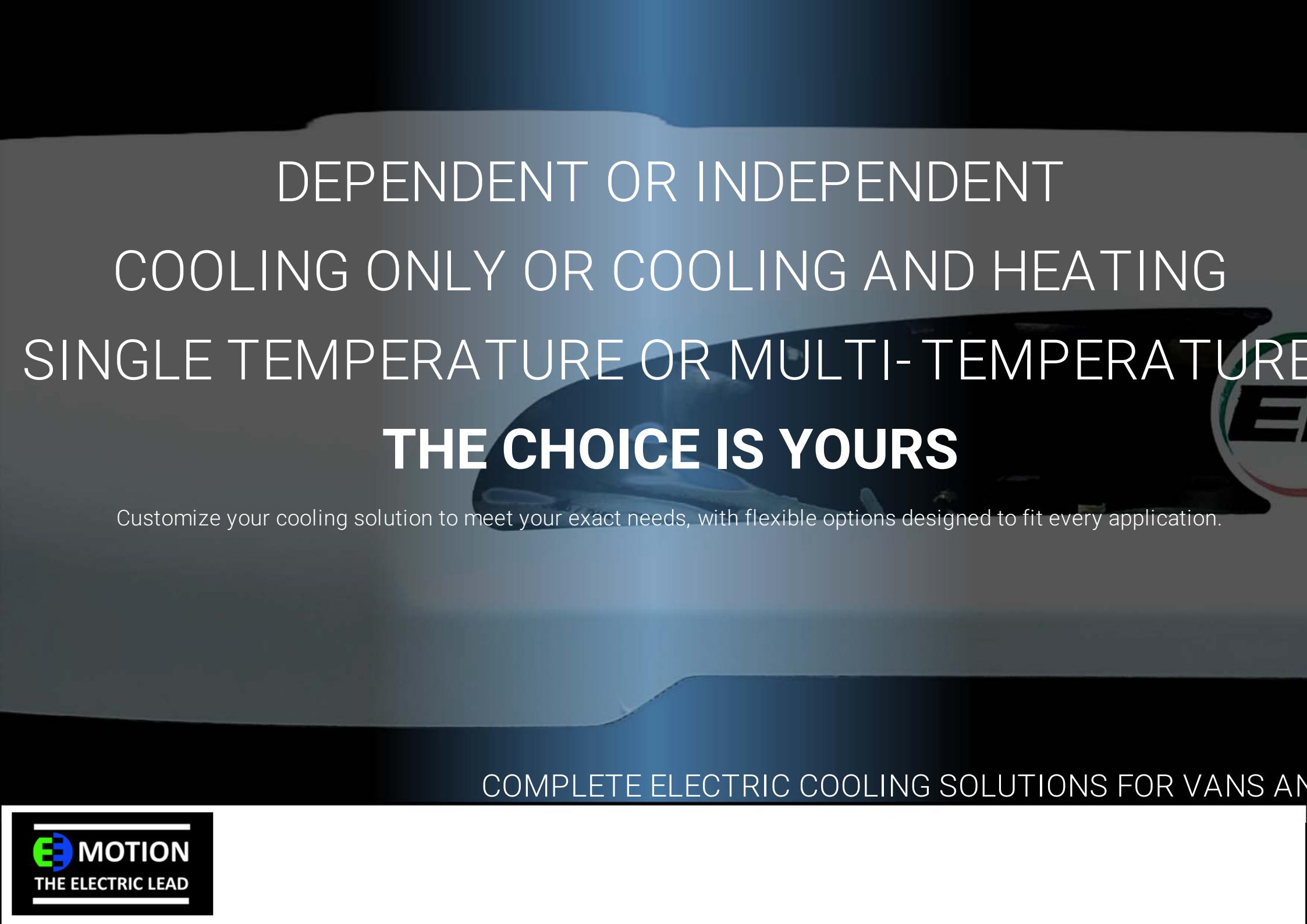
B3

B4

B5

B6

COMPLETE ELECTRIC COOLING SOLUTIONS FOR VANS AND SMALL TRUCKS



DEPENDENT OR INDEPENDENT  
COOLING ONLY OR COOLING AND HEATING  
SINGLE TEMPERATURE OR MULTI-TEMPERATURE  
**THE CHOICE IS YOURS**

Customize your cooling solution to meet your exact needs, with flexible options designed to fit every application.

COMPLETE ELECTRIC COOLING SOLUTIONS FOR VANS AND



ND SMALL TRUCKS

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# TRUST YOUR MOTIONS

Introducing the next-generation, fully electric transport refrigeration unit designed to keep your cargo cool, no matter where your journey takes you. Say goodbye to engine dependency and hello to a reliable, eco-friendly solution perfect for the modern world!

Why choose our electric refrigeration unit?

Complete independence:

B3, B4, B5, and B6 can run entirely on their own power source, so your vehicle doesn't have to be in operation to keep your goods fresh.

Eco-friendly and cost-effective:

Fully electric operation means zero emissions and no additional fuel costs.

Unmatched cooling power:

High-performance technology maintains precise temperature control even in extreme conditions.

Perfect for any vehicle:

Compact and lightweight design easily fits most vehicle models.

Low maintenance:

Designed to last with minimal maintenance, ensuring maximum uptime.

**Don't miss the opportunity to transform your vehicle into a more efficient and sustainable transportation solution!**



# 100% ELECTRIC OPERATION

Ensuring full compliance with last-mile and city center regulations

The B range is 100% electric and operates:

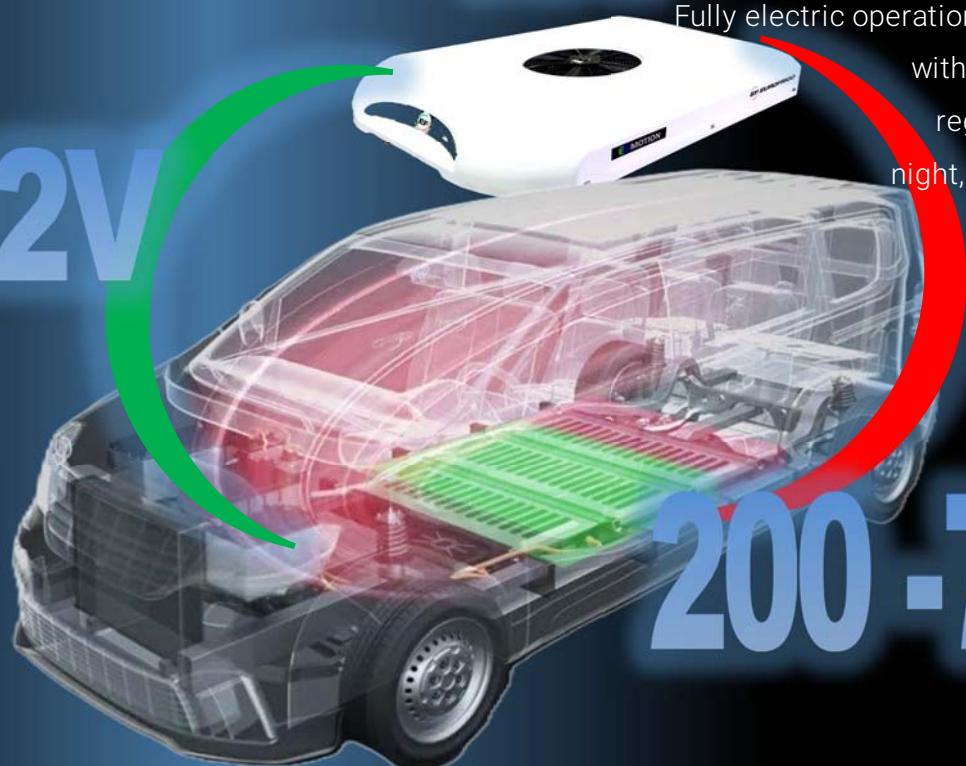
- Directly from your vehicle's 12V auxiliary battery (B1 and B2)
- Directly from your vehicle's 200 to 700V traction battery (B3, B4, B5, and B6)
- With its own 48V battery (B3, B4, B5, and B6)

**48V**

Fully electric operation ensures full compliance with last-mile and city-center regulations. Whether day or night, or in emission-restricted areas, the B range is always ready to meet the challenge.

**12V**

**200 - 700V**



## **Fully electric, self-contained cooling unit, always on, always cooling**

Stay safe on the road with our cutting-edge 48V system, a fully electric refrigeration unit designed for reliable, uninterrupted cooling.

Designed to remain operational even when the vehicle is off, this unit ensures your cargo stays at the optimal temperature during breaks, stops, or any unplanned delays.

Perfect for drivers who need flexibility, it provides peace of mind knowing your goods are preserved in any situation.

**Experience true independence with a refrigeration solution that works as hard as you do.**





## Advanced electric scroll compressor technology

**Power, efficiency and durability redefined**



**The Heart of Reliable Refrigeration**

At the heart of our refrigeration system is the advanced electric scroll compressor, the heart that drives efficient, powerful, and consistent cooling.

Engineered for high-capacity

performance, this compressor ensures precise temperature control, even under demanding conditions.

Its innovative scroll design optimizes energy use, delivering maximum efficiency and reducing costs.

Built to last, it is designed to withstand the rigors of daily operation, offering longevity and reliability.

Experience the beating heart of advanced refrigeration technology, where strength, efficiency, and endurance come together to keep your products perfectly preserved.

# THE EFFICIENCY ADVANTAGE

Blue Fin Technology —



**EUROFRIGO**

High Speed Electric Fans —

Impact-resistant ABS —



**Advanced heat exchange technology**

**Power, efficiency and durability redefined**

Our evaporators set the standard for excellence, offering superior efficiency and optimized airflow. Equipped with our innovative Blue Fins technology, they deliver faster and more effective defrost cycles while ensuring efficient water drainage. The hydrophobic treatment enhances the fin surface, providing a smoother path for improved airflow and faster condensation removal, resulting in exceptional performance and reliability.

The ORFS connection guarantees reliable, leak-free performance for years, virtually eliminating the risk of gas leaks. This benefits both your operations and the environment, contributing to a safer, greener future.

**ORFS Refrigerant connections**



# THE ADVANTAGE OF SIMPLICITY



SIMPLICITY =

B1

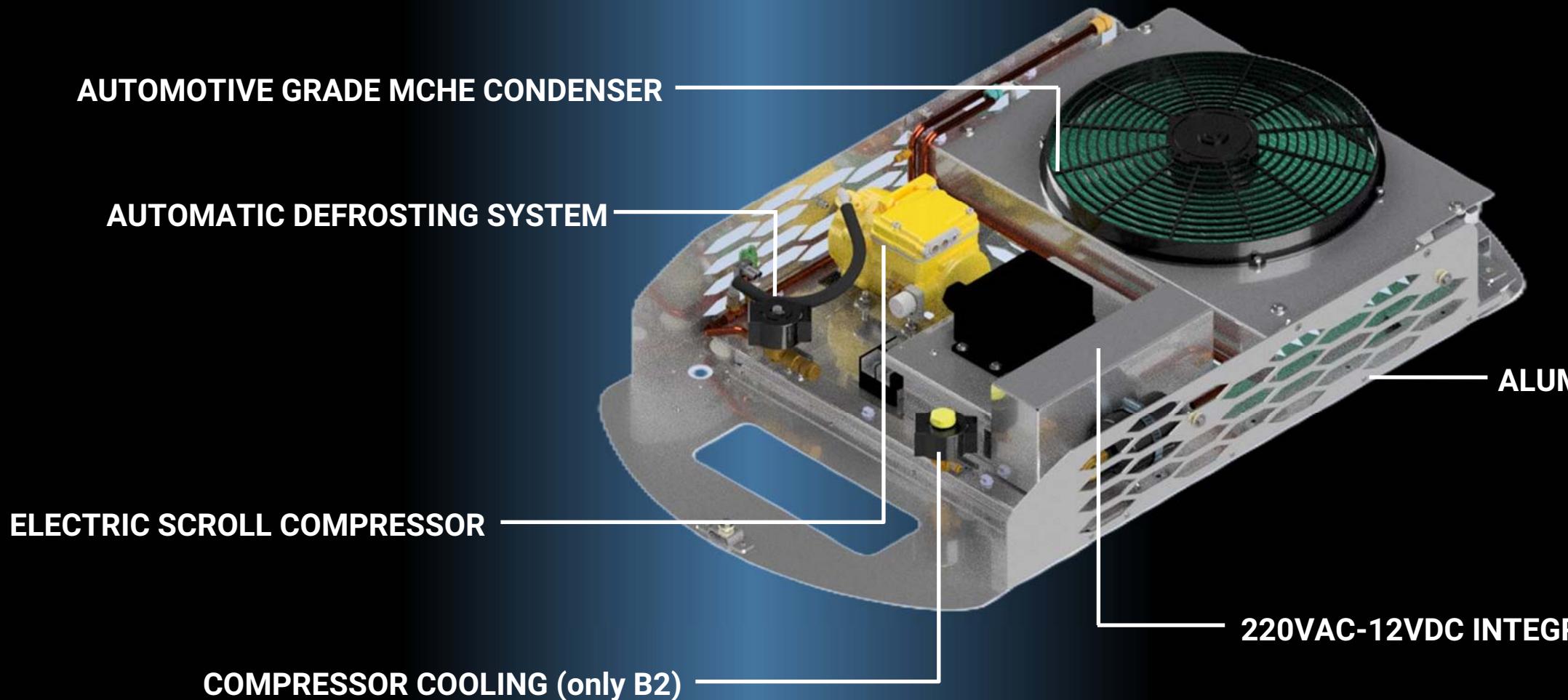
B2



- RELIABILITY

 **EUROFRIGO**

# THE ADVANTAGE OF SIMPLICITY



SIMPLICITY

The cooling unit is powered directly from the vehicle's 12V auxiliary battery for reliable and trouble-free operation.

**B1**

The electric vehicle's range is minimally affected (approximately 5%) by the operation of the cooling unit, ensuring maximum range and efficiency.

**B2**

The AC-DC converter integrated into the "S" version of the unit allows for seamless connection to the power grid, ensuring reliable and uninterrupted cooling during nighttime operations. When connected to the power grid, the unit operates independently, completely isolating the battery from the vehicle to prevent it from discharging.

**MINUM CHASSIS**

**ERATED CONVERTER**

**RELIABILITY**



THE VANGUARD OF TECHNOLOGY



WHAT IS BETTER THAN A BATTERY? TWO BATT



B3

B4

TERIES, FOR DOUBLE POWER AND CONFIDENCE

 **EUROFRIGO**

# THE VANGUARD OF TECHNOLOGY

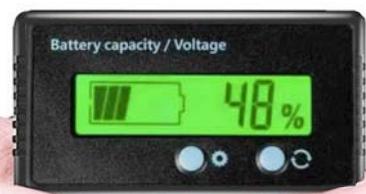
## BATTERY MÓDULE 1



### AUTOMOTIVE GRADE MCHE CONDENSER

Effortlessly monitor battery status with a compact, integrated display that provides real-time updates and control over power levels to ensure uninterrupted performance.

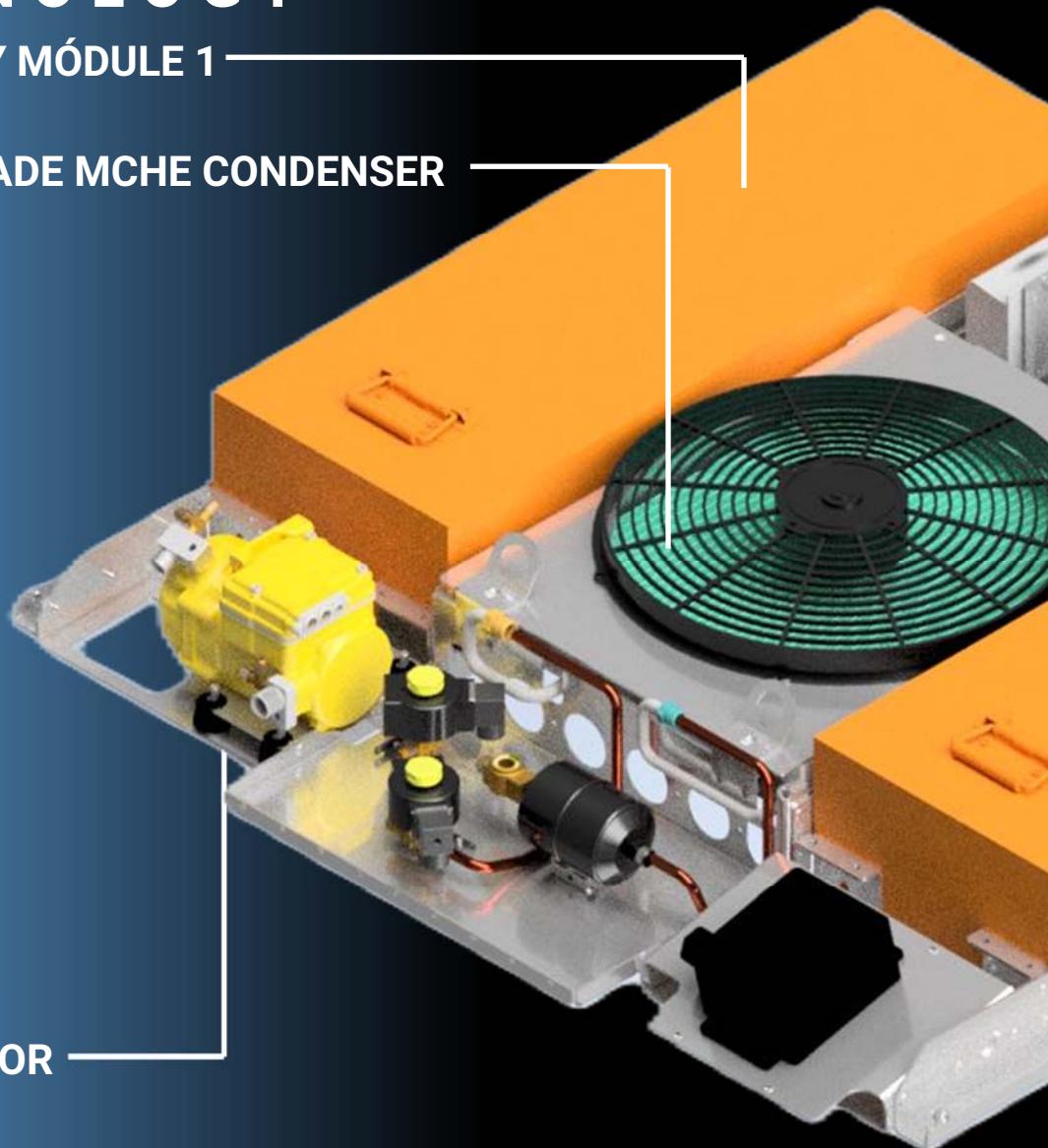
Stay informed and in control while performing system maintenance.



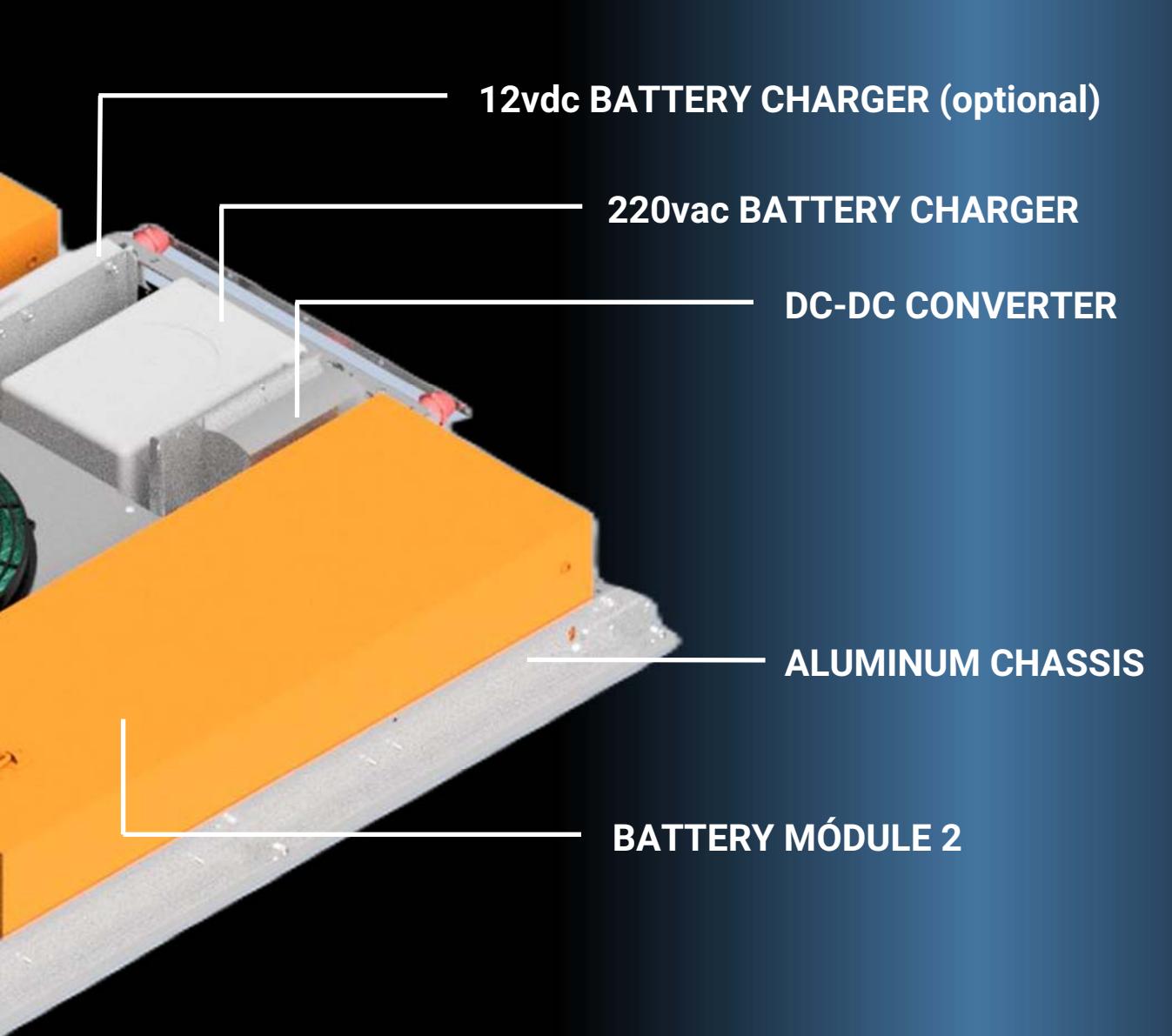
Effortlessly monitor battery status with a compact in-cab display, which provides real-time updates and control over power levels to ensure uninterrupted performance.

Stay informed and in control, all from the driver's seat.

### ELECTRIC SCROLL COMPRESSOR



WHAT IS BETTER THAN A BATTERY? TWO BATTERIES.



12vdc BATTERY CHARGER (optional)

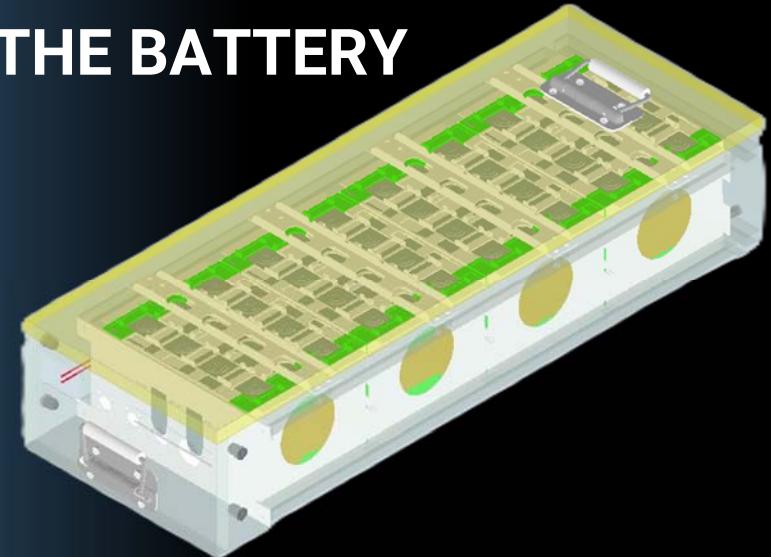
220vac BATTERY CHARGER

DC-DC CONVERTER

ALUMINUM CHASSIS

BATTERY MODULE 2

## THE BATTERY



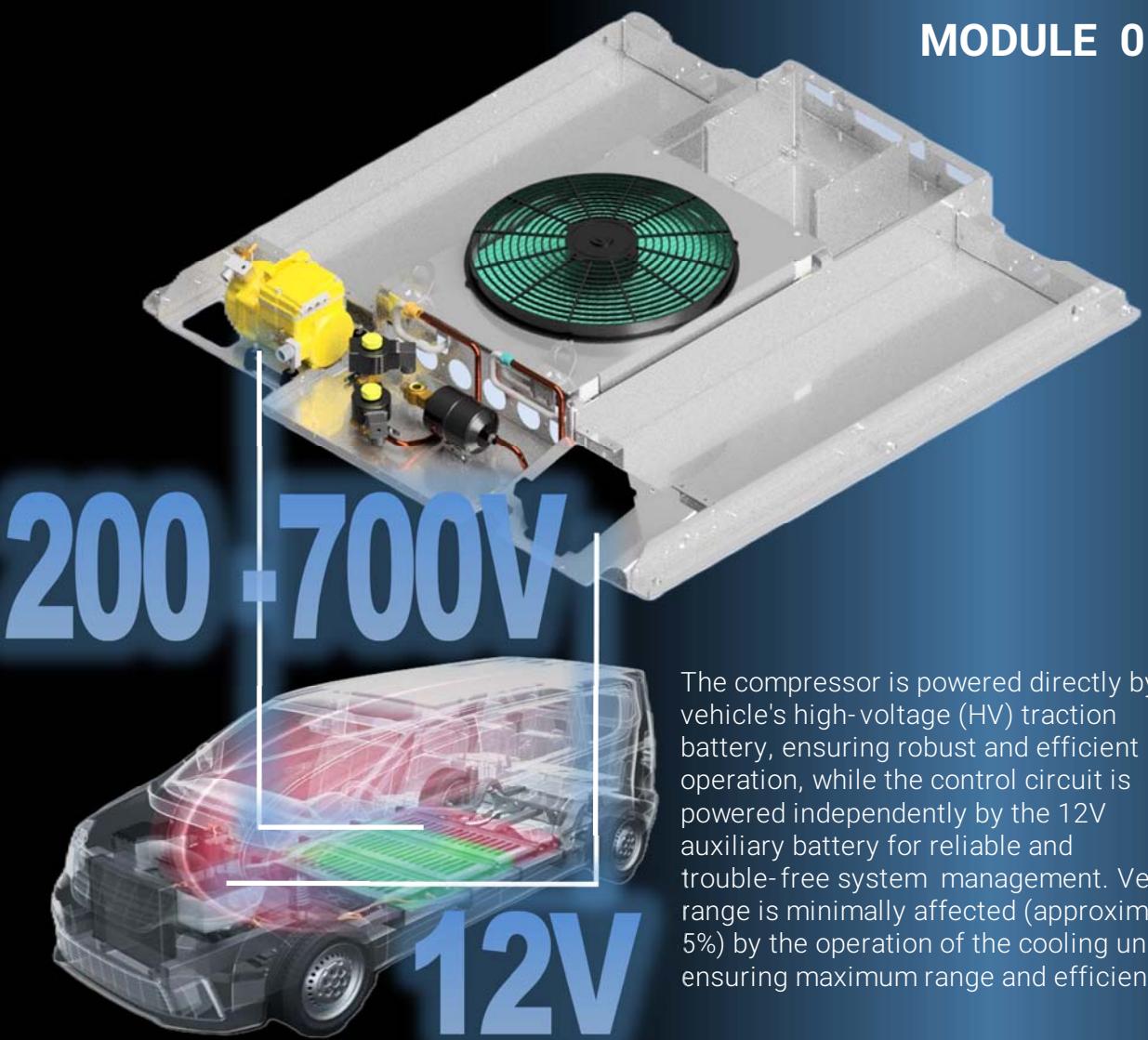
The safest automotive-grade LiFePO4 battery designed for transport refrigeration

Engineered for maximum safety and reliability, this advanced LiFePO4 battery pack is purpose-built to meet the unique demands of transport refrigeration. Its rugged stainless steel frame ensures durability and protection, while the integrated service coulometer provides accurate monitoring of battery performance. Features like a service switch and quick-release main cable terminals simplify maintenance and reduce downtime. With a built-in heater, it offers reliable operation even in extremely low temperatures. Experience unmatched safety, efficiency, and performance tailored to your refrigeration needs.

RIES, FOR DOUBLE POWER AND CONFIDENCE

# THE LATEST IN FLEXIBILITY AND AUTONOMY

## MODULE 0



## MODULE 1



The system is completely independent of the vehicle, making the cooling unit a fully autonomous solution. It relies solely on its own components to deliver consistent cooling performance, without consuming any energy or resources from the vehicle.

AUTONOMY	B3	B4
8 HOURS	8 HOURS	8 HOURS

### NOTE

Connection to the vehicle's 12V auxiliary battery system is only necessary if the optional DC-DC battery charger is required. Range for units equipped with a DC-DC battery charger can be increased by up to 25% depending on operating conditions. Range Notice: Actual range may be affected by several factors, including, but not limited to, ambient temperature, type of use, aging of the insulated body, and the temperature of the products entering the load.

NOTHING EXCEEDS THE POWER OF

**48V**



**48V**

## BATTERY RECHARGE TIME

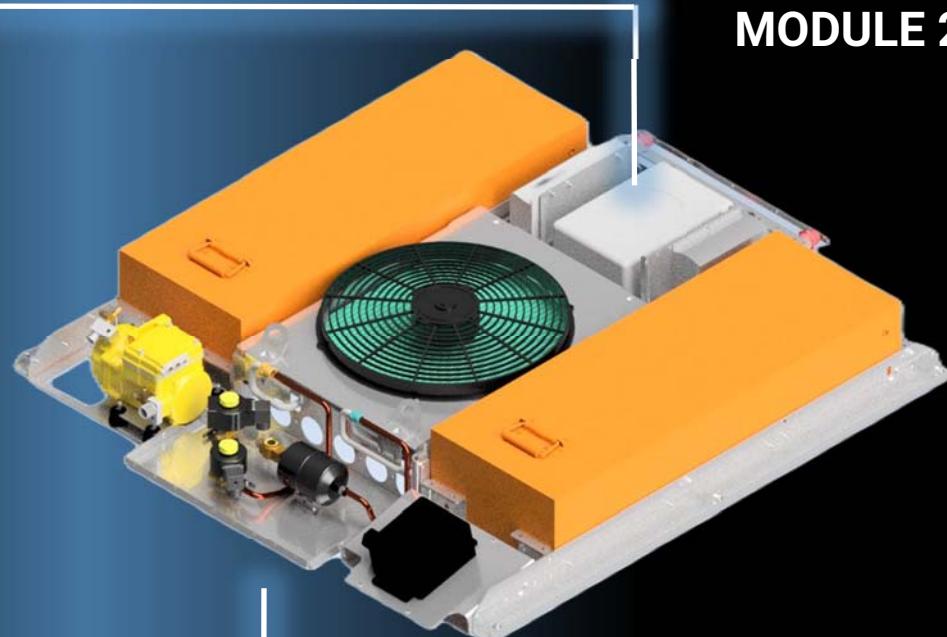
## Module 1: 2 hours

## Module 2: 4 hours

Required recharge time from 10% to 100% of battery capacity

If the cooling unit is in use during the charge cycle, the recharge time may be longer due to additional power consumption.

## MODULE 2



The system is completely independent of the vehicle, making the cooling unit a fully autonomous solution. It relies solely on its own components to deliver consistent cooling performance, without consuming any energy or resources from the vehicle.

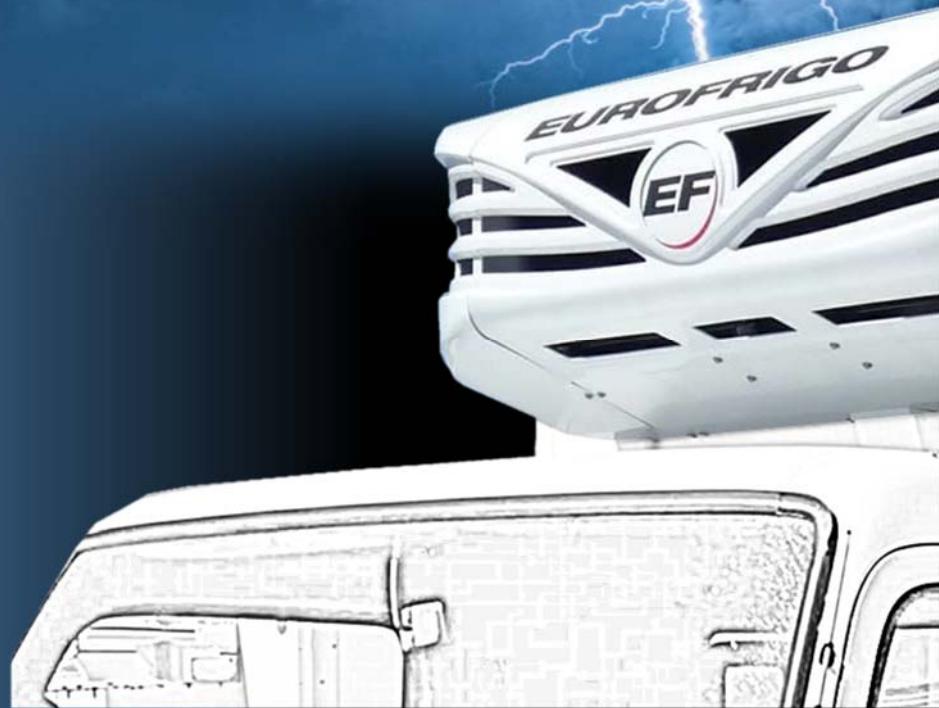
	B3	B4
AUTHONOMY	16 HOURS	16

## NOTE

Connection to the vehicle's 12V auxiliary battery system is only necessary if the optional DC-DC battery charger is required. Range for units equipped with a DC-DC battery charger can be increased by up to 25% depending on operating conditions. Range Notice: Actual range may be affected by several factors, including, but not limited to, ambient temperature, type of use, aging of the insulated body, and the temperature of the products entering the load.

FLEXIBILITY. THE CHOICE IS YOURS

THE VANGUARD OF TECHNOLOGY



NO LIMITS. POWER, EFFICIENCY

B5

B6



ENCY, AND SIMPLICITY IN ONE

**EF** **EUROFRIGO**

# THE VANGUARD OF TECHNOLOGY



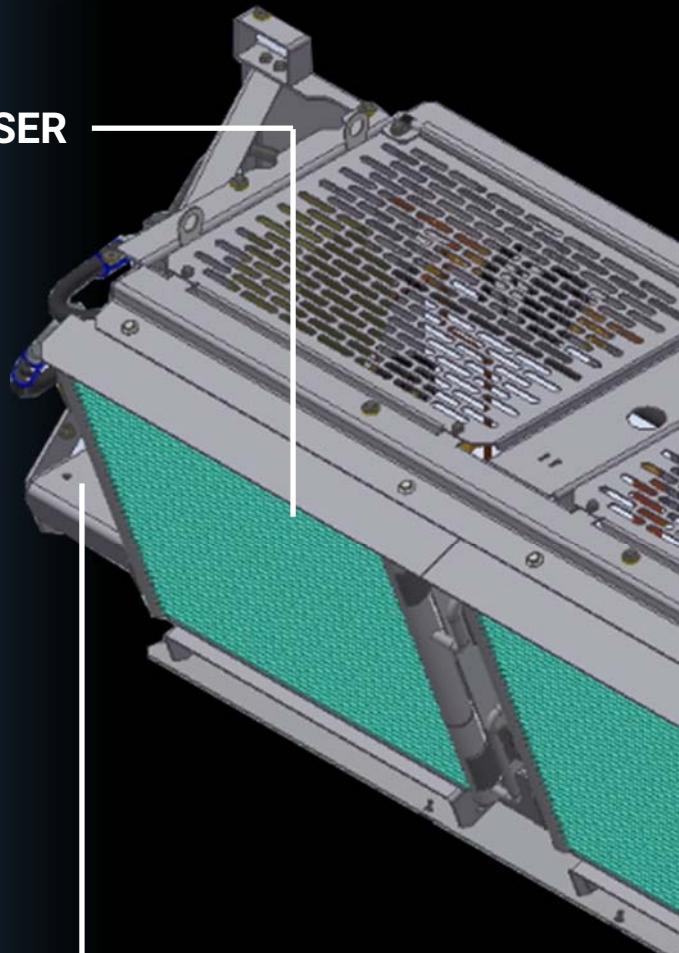
## AUTOMOTIVE GRADE MCHE CONDENSER

Effortlessly monitor battery status with a compact, integrated display that provides real-time updates and control over power levels to ensure uninterrupted performance.

Stay informed and in control while performing system maintenance.

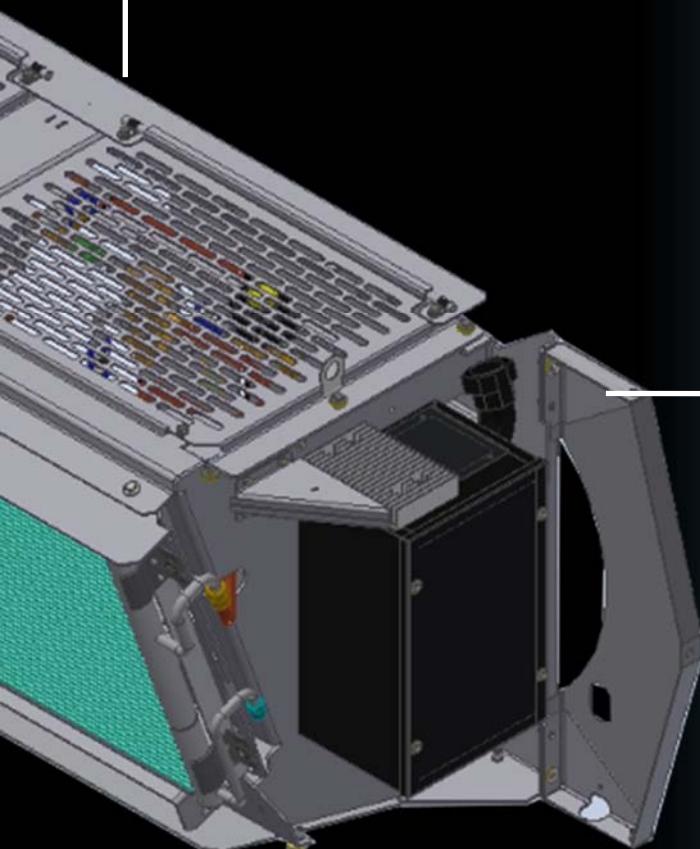


Effortlessly monitor battery status with a compact in-cab display, which provides real-time updates and control over power levels to ensure uninterrupted performance. Stay informed and in control, all from the driver's seat.



## ELECTRIC SCROLL COMPRESSOR

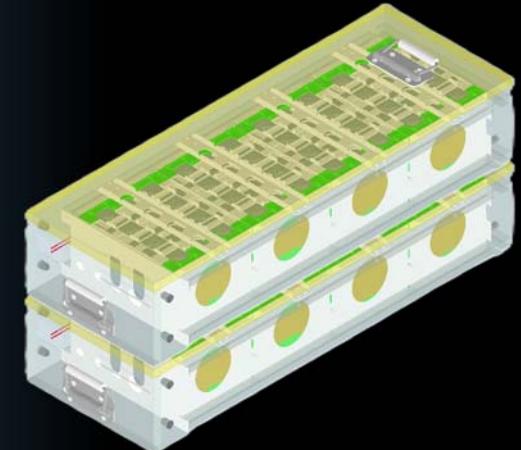
NO LIMITS. POWER, EFFICIEN



AVAILABLE IN BOTH SPLIT AND ONE PIECE  
CONFIGURATION

CY, AND SIMPLICITY IN ONE

## BATTERY MODULE



Designed for under-chassis installation on rigid trucks, this pack includes batteries (one or two), a charger, and a DC-DC converter, all housed in a rust-free yet lightweight aluminum design.

The pack is typically installed on the rear overhang, where there is ample space available. Its easy maintenance and maximum modularity allow for complete peace of mind, with up to 12 hours of operation completely independent of the vehicle, by installing one pack on each side of the chassis.

Thanks to its lightweight design, weighing only 100 kg, it ensures minimal loss of load capacity compared to the extensive range it offers.

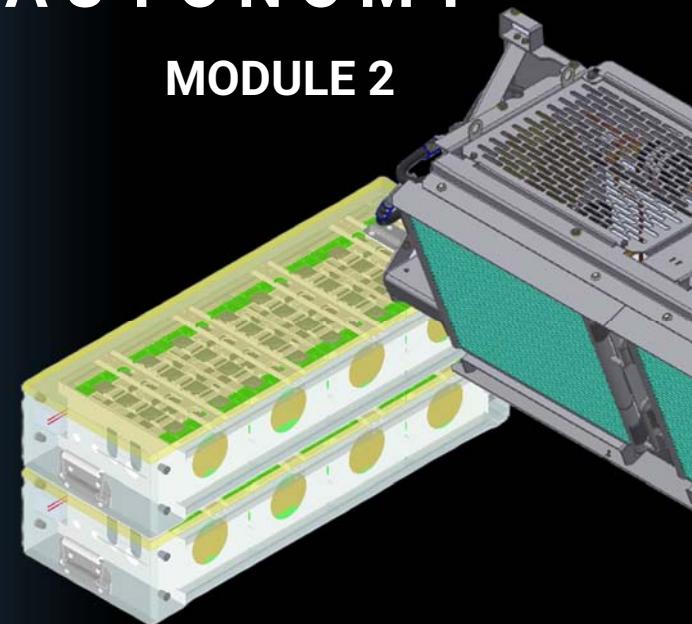
# THE LATEST IN FLEXIBILITY AND AUTONOMY

## MODULE 0



The compressor is powered directly by the vehicle's high-voltage (HV) traction battery, ensuring robust and efficient operation, while the control circuit is powered independently by the 24V auxiliary battery for reliable and trouble-free system management. Vehicle range is minimally affected (approximately 5%) by the operation of the cooling unit, ensuring maximum range and efficiency.

## MODULE 2



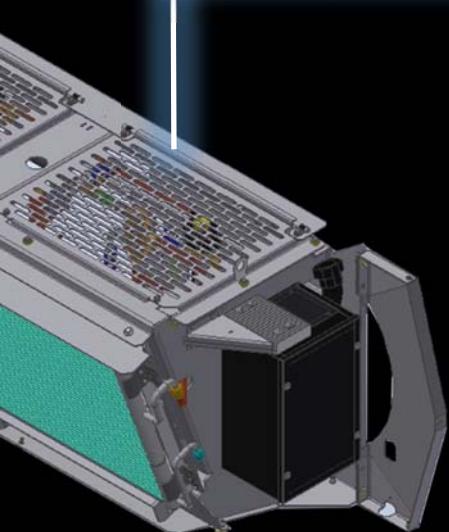
The system is completely independent of the vehicle, making the cooling unit a fully autonomous solution. It relies solely on its own components to deliver consistent cooling performance, without consuming any energy or resources from the vehicle.

	B5	B6
AUTONOMY	6 HOURS	4 HOURS

### NOTE

Connection to the vehicle's 24V auxiliary battery system is only necessary if the optional DC-DC battery charger is required. Range for units equipped with a DC-DC battery charger can be increased by up to 25% depending on operating conditions. Range Notice: Actual range may be affected by several factors, including, but not limited to, ambient temperature, type of use, aging of the insulated body, and the temperature of the products entering the load.

NOTHING EXCEEDS THE POWER OF FL



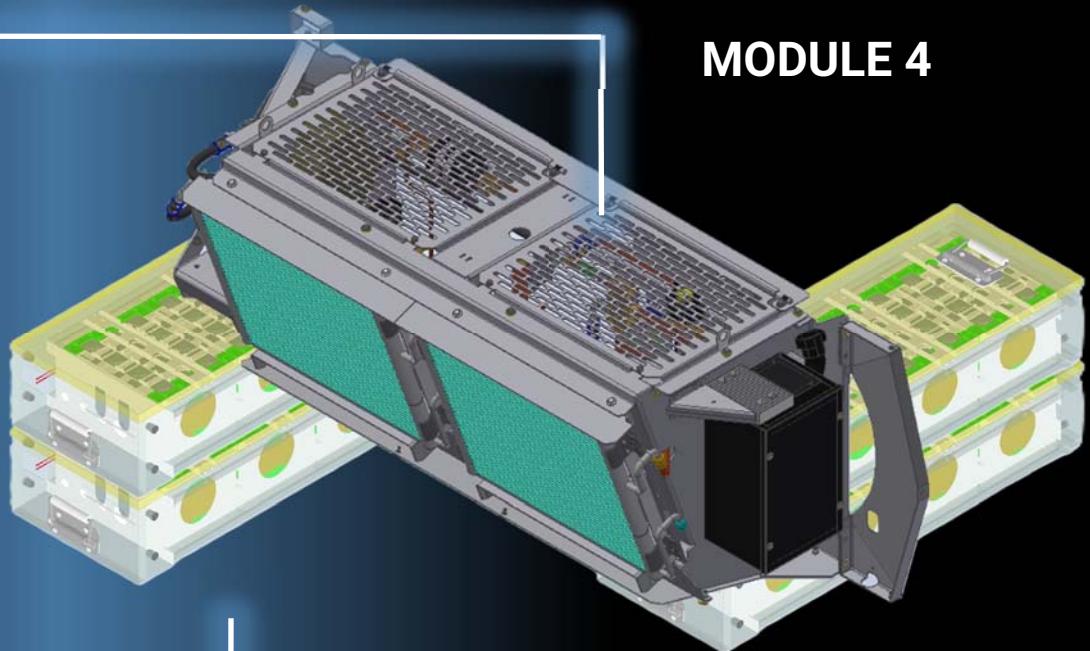
## BATTERY RECHARGE TIME

Module 2: 4 hours

Module 4: 8 hours

Required recharge time from 10% to 100% of battery capacity

If the cooling unit is in use during the charge cycle, the recharge time may be longer due to additional power consumption.



## MODULE 4



48V

The system is completely independent of the vehicle, making the cooling unit a fully autonomous solution. It relies solely on its own components to deliver consistent cooling performance, without consuming any energy or resources from the vehicle.

	B5	B6
AUTHONOMY	12 HOURS	8 HOURS

### NOTE

Connection to the vehicle's 24V auxiliary battery system is only necessary if the optional DC-DC battery charger is required. Range for units equipped with a DC-DC battery charger can be increased by up to 25% depending on operating conditions. Range Notice: Actual range may be affected by several factors, including, but not limited to, ambient temperature, type of use, aging of the insulated body, and the temperature of the products entering the load.

EXIBILITY. THE CHOICE IS YOURS

This selection table is intended as a guide and is not a factory guarantee. The cubic meter values indicated have been calculated based on experience with normal use of our equipment and considering the following:

"K" COEFFICIENT: 0.39 for -20°C and 0.59 for 0°C, DOOR OPENINGS: 1 PER HOUR, AMBIENT TEMPERATURE: 38°C,

BODY CONDITION: NEW, PRODUCT INLET TEMPERATURE = SETPOINT TEMPERATURE, BODY CONDITION: NEW, PRODUCT INLET TEMPERATURE = SETPOINT TEMPERATURE, When working with complex fresh products (fresh meat, fruits and vegetables, etc.), it is recommended to base your selection on the volume equivalent to the lowest temperature range.

For other conditions, please consult us. Our refrigeration units are designed to maintain product temperature, not reduce it.

Autonomy may vary from the indicated value depending on the type of use, environmental conditions, and aging.

Technical data not binding.



Model	Compressor	Capacity 0°C	Capacity -20°C	Volume max advised	Evaporator Air flow	Consumption (max)	Voltage (VCC)	Refrigerant	MT	Weight Kg
<b>B1</b>	<b>ESC14H</b>	<b>1250</b>	<b>450</b>	<b>6</b>	<b>840</b>	<b>0,8 kW/h</b>	<b>12 / 24</b>	<b>R134A</b>	<b>-</b>	<b>45</b>
<b>B2</b>	<b>ESC14M</b>	<b>1800</b>	<b>750</b>	<b>10/4</b>	<b>840</b>	<b>1,4 kW/h</b>	<b>12 / 24</b>	<b>R452A</b>	<b>-</b>	<b>47</b>
<b>B3</b>	<b>ESC28L</b>	<b>3000</b>	<b>1500</b>	<b>14/8</b>	<b>1440</b>	<b>2,2 kW/h</b>	<b>48/312/540</b>	<b>R452A</b>	<b>0</b>	<b>75</b>
<b>B4</b>	<b>ESC28M</b>	<b>4100</b>	<b>2000</b>	<b>16/12</b>	<b>1440</b>	<b>2,2 kW/h</b>	<b>48/312/540</b>	<b>R452A</b>	<b>0</b>	<b>90</b>
<b>B5</b>	<b>ESC28H</b>	<b>5200</b>	<b>2500</b>	<b>40/24</b>	<b>2120</b>	<b>2,6 kW/h</b>	<b>48/312/540</b>	<b>R452A</b>	<b>0</b>	<b>120</b>
<b>B6</b>	<b>ESC50H</b>	<b>7500</b>	<b>3850</b>	<b>50/30</b>	<b>2720</b>	<b>3,7 kW/h</b>	<b>48/312/540</b>	<b>R452A</b>	<b>0</b>	<b>145</b>

## TECHNICAL DATA

CAUTION. EXTREMELY COLD ENVIRONMENT



*The use of adequate protection is recommended.*

**EF** **EUROFRIGO**

## **Commitment to Service: Guaranteed Attention at All Times**

At EUROFRIGO, customer service is not just a priority: it is the fundamental pillar of our business philosophy.

We know that the success of our products goes beyond their technical performance and also depends on our ability to provide fast, efficient, and local assistance when it is most needed.

To achieve this, we have developed an extensive service network that guarantees complete geographical coverage.

Each service point is equipped with original spare parts and is staffed by highly trained professionals up-to-date with our vehicle refrigeration solutions. This proactive approach ensures that our customers receive prompt and accurate assistance, minimizing downtime and ensuring the continuity of their operations.

However, we understand that maintaining high service standards requires continuous evolution. Therefore, our service network is a dynamic entity that constantly adapts to market changes and the specific needs of our customers. We constantly expand, update, and optimize our capabilities, remaining committed to always providing the best possible support.

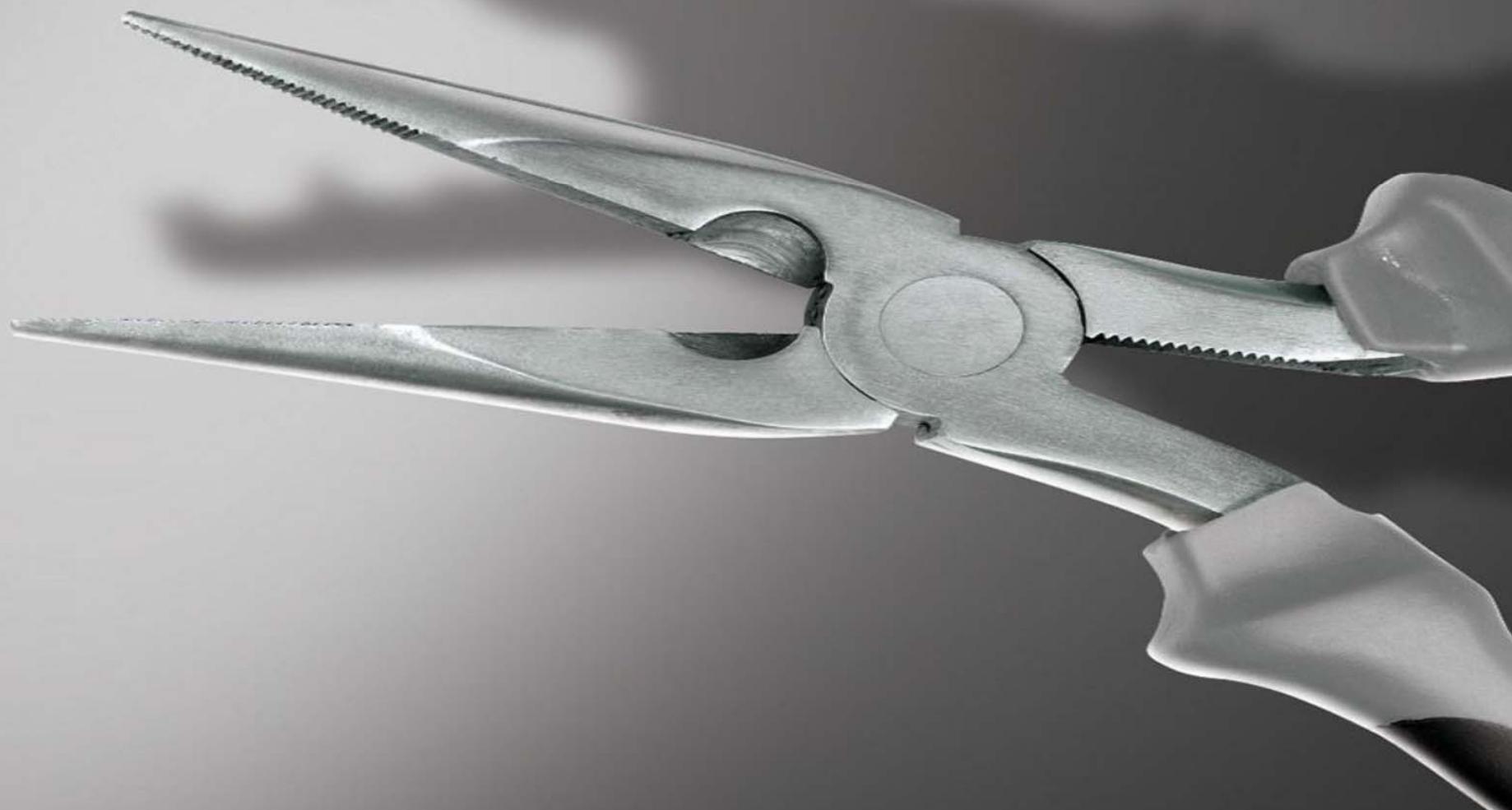
Furthermore, it is essential that our customers use only the official EUROFRIGO service network to ensure proper assistance and the use of original spare parts. This is the only way we can ensure the quality, performance, and validity of the warranty on our products. The use of unauthorized services may compromise the integrity of the units and void the warranty coverage.

Our products are covered by a warranty designed to provide additional peace of mind.

EUROFRIGO guarantees that all its products are free from manufacturing defects under normal use and maintenance, in accordance with the terms specified in the product documentation. While the warranty covers the repair or replacement of defective components, it does not include damage resulting from misuse, improper installation, unauthorized modifications, or lack of maintenance.

It is important to note that EUROFRIGO's liability is limited to the repair or replacement of the component as specified in the warranty conditions. We are not liable for indirect damages, loss of profits, or other incidental or consequential damages arising from the use or inability to use the product.

## AFTER SALES: SERVICE AND WARRANTY



ose an official dealer for your service





YEARS  
1960-2025

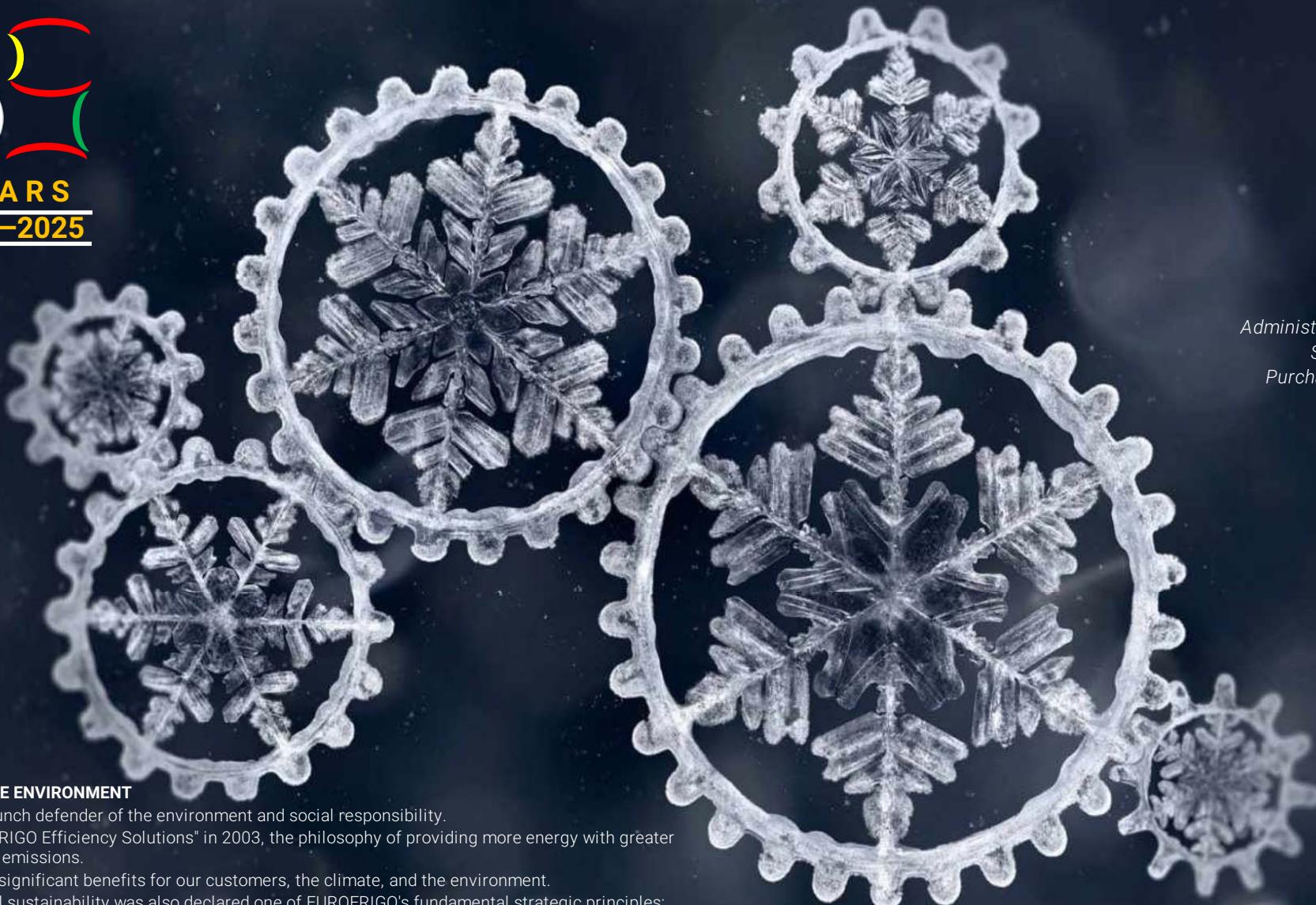
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#### EUROFRIGO AND THE ENVIRONMENT

EUROFRIGO is a staunch defender of the environment and social responsibility.

We launched "EUROFRIGO Efficiency Solutions" in 2003, the philosophy of providing more energy with greater efficiency and lower emissions.

This has resulted in significant benefits for our customers, the climate, and the environment.

That year, ecological sustainability was also declared one of EUROFRIGO's fundamental strategic principles; it is now firmly embedded throughout our entire production chain. It begins with the development of alternative concepts for fuel economy and transmission, continues with environmentally friendly production processes, and ends with innovative material recycling.

At EUROFRIGO, we strive for excellence in everything we do.

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*We turn the cold into a perfect mechanism*

