



**EUROFRIGO**

**Climate Control Solutions**



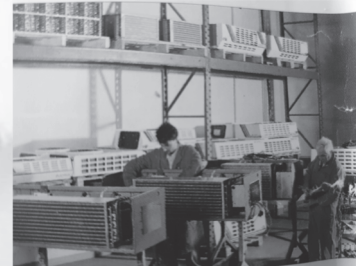


## EXPERIENCE



FOUNDED IN 1960 BY LUCIANO MENOZZI, THE EF INDUSTRIAL GROUP IS THE BENCHMARK IN EUROPE IN THE FIELD OF TRANSPORT REFRIGERATION TECHNOLOGY, WITH MODULAR SOLUTIONS FROM 1 TO 12,000 W OF POWER. MORE THAN 170,000 UNITS HAVE BEEN DELIVERED SO FAR, IN MORE THAN 60 COUNTRIES AROUND THE WORLD. WITH INNOVATIVE AND BOLD BUSINESS DECISIONS, THE EF GROUP IN JUST A FEW YEARS HAS TRIPLED ITS PRODUCTION CAPACITY.

THE EF GROUP IS THE ONLY INDUSTRIAL COMPANY IN EUROPE CAPABLE OF OFFERING A 360° SERVICE IN THE FIELD OF TRANSPORT REFRIGERATION, PLACING ITSELF AS THE ONLY REFERENCE FOR THE END CUSTOMER, FROM DESIGN TO AFTER-SALES SERVICE.



# ACCESSIBILITY

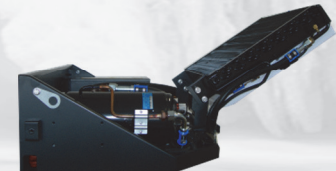
OUR EQUIPMENT ARE DESIGNED FOR QUICK PART REPLACEMENT WHEN NEEDED.

THE SHAPE OF THE CONDENSING UNIT OFFERS A UNIQUE WORKSPACE.

EACH MAINTENANCE OPERATION CAN BE CARRIED OUT WITH MAXIMUM EFFICIENCY.

BENEFITS OF TILTING CONDENSER COIL:

- A) MAXIMIZATION OF WORKING TIME AND LOWER COST OF MAINTENANCE
- B) LIMITED EXPOSURE OF SYSTEM'S COMPONENTS TO EXTERNAL CONTAMINATION DURING SERVICE OPERATIONS.
- C) THE CONDENSER CAN BE CLEANED EASILY AND MORE EFFICIENTLY.
- D) THE UNIT CAN BE TESTED WITH THE CONDENSER OPEN WHICH ALLOWS TECHNICIANS TO PERFORM MEASUREMENTS UNDER REAL OPERATING CONDITIONS.











Model	Temperature	m3
C2000 R134a	0°C	8
	-10°C	4
C2500 R134a	0°C	10
	-10°C	6
C3500 R134a	0°C	16
	-10°C	8
C5 R134a	0°C	30
	-10°C	14
C5 R404a	0°C	30
	-20°C	18
C6 R134a	0°C	50
	-10°C	18
C6 R404a	0°C	50
	-20°C	25
C7 R134a	0°C	50
	-10°C	22
C7 R404a	0°C	50
	-20°C	30

This selection chart is intended as a guide and is not a factory warranty. Values in cubic meters indicated have been calculated using experience in the normal use of our equipment and considering the following:

COEFFICIENT "K": 0.39 FOR -20°C and 0.59 FOR 0°C,

DOOR OPENINGS: 1 PER HOUR,

AMBIENT TEMPERATURE : 40°C,

BODY STATE: NEW,

OPERATING MODE:

ROAD AT 2400 R.P.M. COMPRESSOR,

PRODUCT INPUT TEMPERATURE = SETPOINT TEMPERATURE,

In the case of working with complex fresh products such as fresh meat, fruits and vegetables, etc it is recommended to base your selection on the volume equivalent to the lowest temperature range.

Consult you local representative for other conditions.

Our refrigeration units are designed to maintain products temperature and not to reduce it.

## Guide for commercial vehicles

### Single or multi-temperature: A solution for every need

Our units offer the perfect temperature control solution for single and multi-temperature vans and trucks up to 60m3.

Our modular "C" range has numerous components in common, as well as various options to suit the needs of all types of customers. Using the vehicle's engine to drive the compressor minimizes noise and emissions.

Our "D" range, specifically designed for operation in the Middle East environment, combine simplicity with reliability, making it the perfect choice for your needs.

No matter what your activity is, we have a model that adapts to your requirements, whether it is vehicle with one or two compartments and regardless of whether you transport fresh, chilled or frozen products.



## Guide for Industrial vehicles

Model	Temperature	m3
D8	0°C	38
	-20°C	30
D10	0°C	60
	-20°C	45
D12	0°C	60
	-20°C	45

Our Diesel units offer the perfect temperature control solution for medium / large single temperature and multi-temperature trucks of up to 60m3 volume.

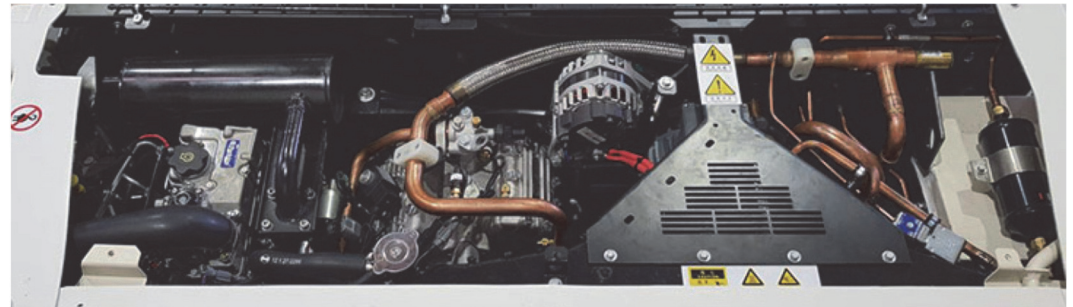
Designed specifically for harsh environment application our system combine semplicity and reliability in a yet innovative package.

Microprocessor in-cab controler allow the user to monitor all units function and working status.

The use of component tested on over 40 years of activity sets our units' reliability at the top of the industry standard.

## Guide for Multi-Temperature vehicles

Model	Temperature	m3
C3500 MT	0°C	Upto 8
	-20°C	Upto 5
C6 MT	0°C	Upto 18
	-20°C	Upto 12
D8-MT	0°C	Upto 18
	-20°C	Upto 12
D10-MT	0°C	Upto 40
	-20°C	Upto 25



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OPERATING MODE: ROAD AT 2400 R.P.M. COMPRESSOR OR DIESEL, PRODUCT INPUT TEMPERATURE = SETPOINT TEMPERATURE,

In the case of working with complex fresh products such as fresh meat, fruits and vegetables, etc it is recommended to base your selection on the volume equivalent to the lowest temperature range.

Consult for other conditions. Our refrigeration units are designed to maintain product temperature and not to reduce it





### C 2500

- > Small and powerful units for vans and trucks.
- > The condenser section can be mounted on the ceiling or on the front wall
- > An extremely compact design to adapt to the shape of small vehicles.
- > The 3500 is available in an MT version that provides temperature control for two compartments

### C5

- > The most powerful units in the range for small trucks
- > Front wall mounting
- > Great performance in both operations road and network
- > "Tropicalized" condensers for efficient operation at any ambient temperature

### C7

- > The most powerful units in the range for big trucks
- > Front wall mounting
- > Great performance in both operations road and network for product transport frozen
- > "Tropicalized" condensers for efficient operation at any ambient temperature



### C 2000

- > The smallest model in the series, but with the performance of a larger unit.
- > Flat profile, with an attractive design. The condenser can be mounted on the ceiling or on the front wall.
- > An extremely compact design to adapt to the shape of small vehicles.
- > Low weight

### C 3500

- > The most powerful units in the range for Large vans and trucks
- > The condenser section can be mounted on the ceiling or on the front wall
- > An extremely compact design to adapt to the shape of medium-sized vehicles.
- > Highest capacity in the industry

### C6

- > The powerful units in the range for Medium size trucks
- > Front wall mounting
- > Perfect balance for the transport of fresh and frozen products
- > Tropicalized condensers for efficient operation at any ambient temperature
- > Available in MT version that provides temperature control for two compartments



## CONDENSERS FOR EXTREME CLIMATES

Our units are designed to withstand extreme climates.

Our microchannel condensers are designed according to automotive design standards in terms of vibration resistance and longevity. To guarantee that your products reach the destination in perfect condition, even at + 50°C

### IN-CAB CONTROLLER

Through the various parameters, the user can decide to have only one cooling unit or one cooling / heating unit, select continuous operation of the evaporator fan, modify the set point and its differential, as well as a number of other functions.

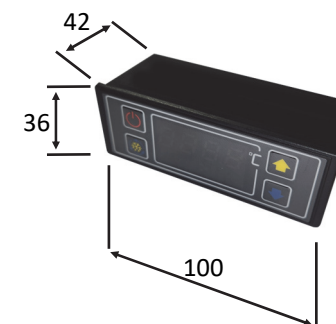
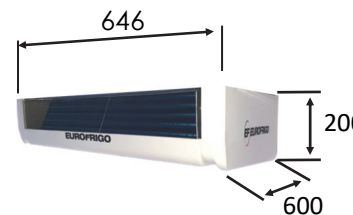




DIRECT DRIVE W/ELECTRIC STBY

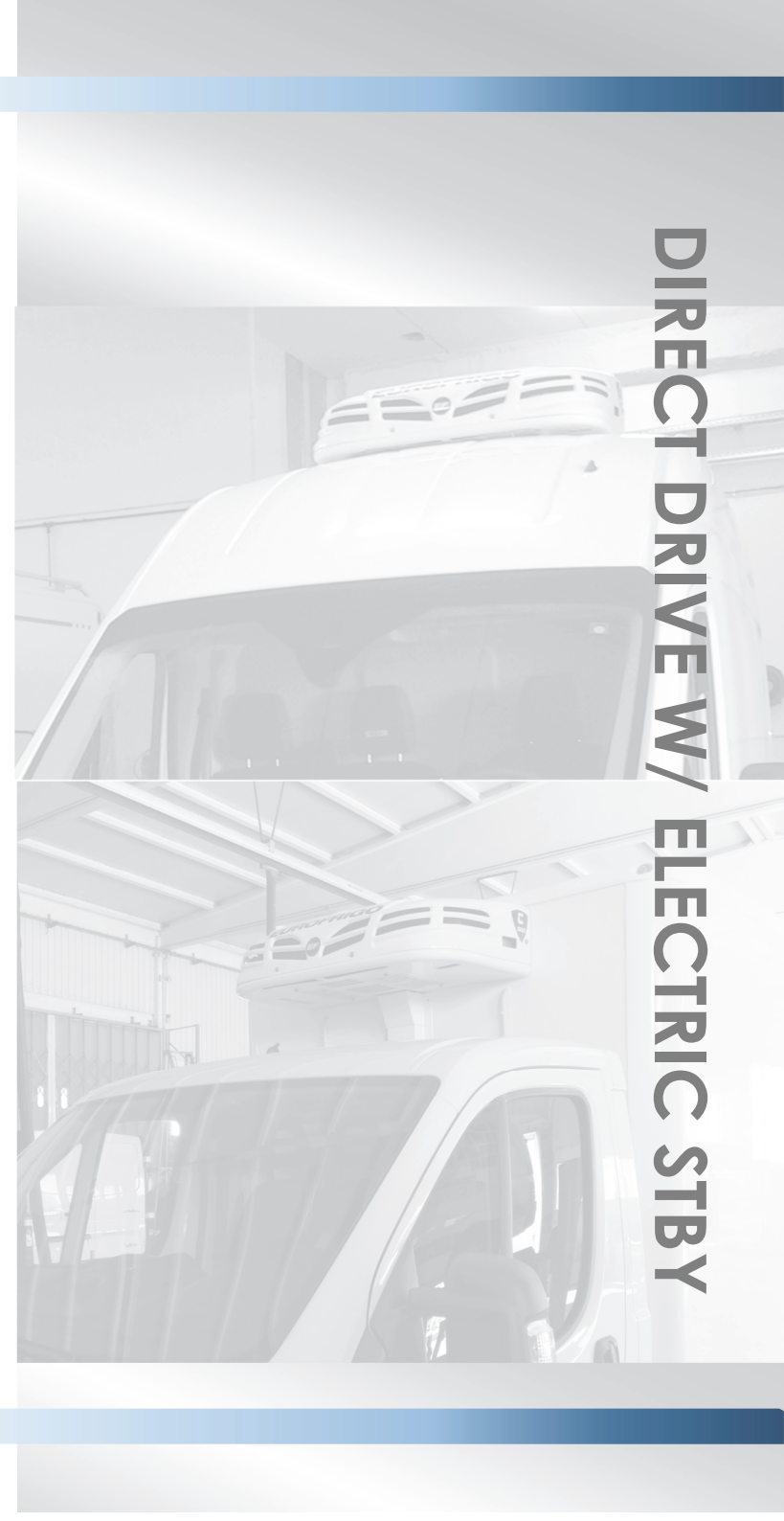
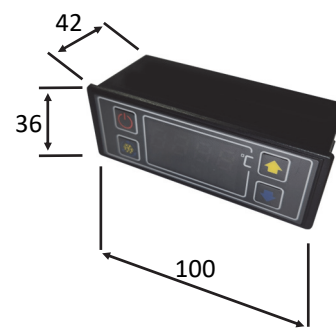
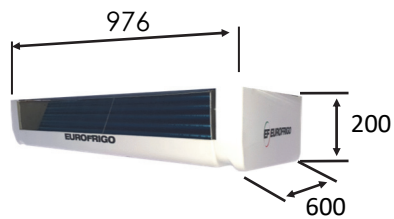


	WATT		m	m3/h	VOLT					Kg	
TM15	3750	1550	4.5	1440	0	0	R134A	-	S	-	53/85





	WATT		m	m3/h	VOLT					Kg	
TM16	2501	971	5.5	2120	0	0	R134A	-	S	-	58/95



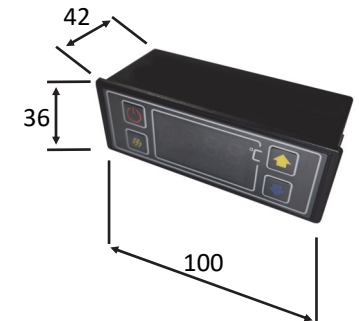
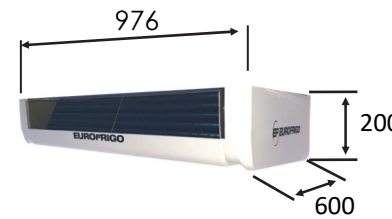
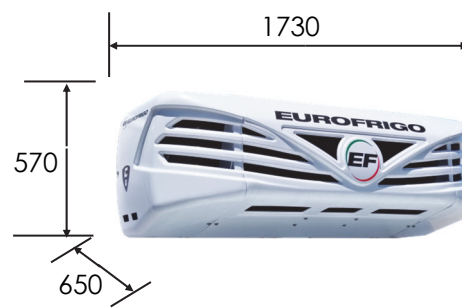
DIRECT DRIVE W/ ELECTRIC STBY





DIRECT DRIVE

	WATT		m	m3/h	VOLT					Kg	
TM16	5200	2450	5.5	2000	○	○	R404A	○	S	-	100/170
TM16	4200	1700	5.5	2000	○	○	R134A	-	S	-	100/170

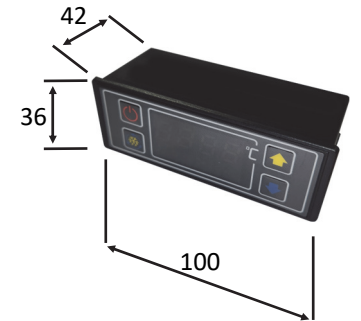
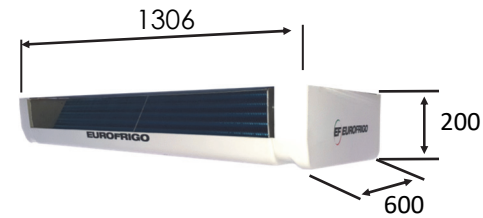
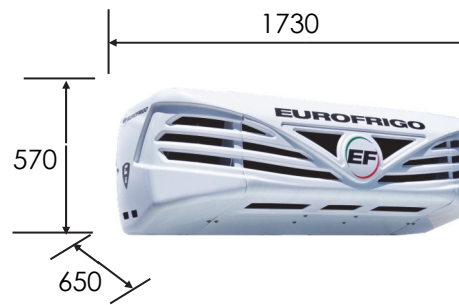




DIRECT DRIVE



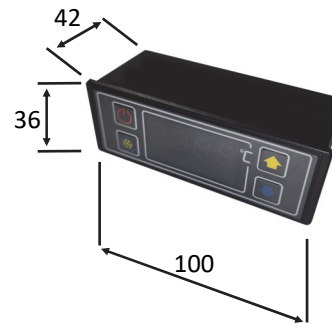
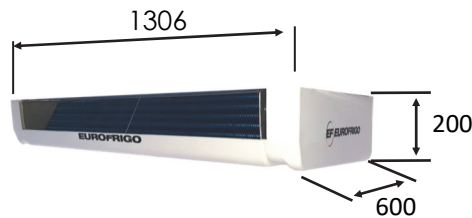
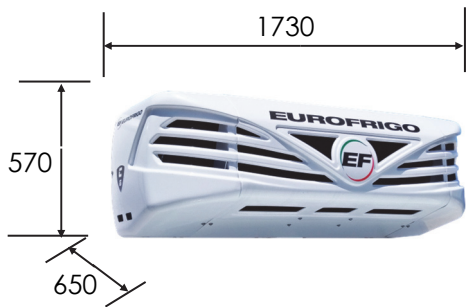
					VOLT					MT	
	WATT		m	m <sup>3</sup> /h							Kg
TM16	5439	2745	7.5	3000	○	○	R404A	○	S	○	100/170
TM16	4500	1900	7.5	3000	○	○	R134A	-	S	-	100/170







	WATT		m	m3/h	VOLT					Kg
TM21	5775	3018	7.5	3000	0 0	R404A	0	S	-	105/175
TM21	5200	2000	7.5	3000	0 0	R134A	-	S	-	105/175



DIRECT DRIVE



## SERVICE



We have always set it before everything. EUROFRIGO dealers receive continuous training to stay up-to-date on new technologies, products and industry requirements. Sales personnel is educated on the latest market rules and requirements, allowing them to find the best solution for each client.

EUROFRIGO dealers have been serving our transport refrigeration equipment for more than 60 years.

More than 200 service points in 23 countries  
Available 24/7/365  
Always in your area:  
most workshops are within  
a maximum distance of  
two hours between them.  
Fleet-optimized maintenance

### ADDITIONAL SERVICES FROM OUR DEALERS

- > Mobile Service
- > Calibration and leak test
- > Original Parts
- > Accessories and Consumables
- > Maintenance Contracts
- >... And much more





# GLOBAL SERVICE NETWORK



The service network is constantly growing  
Contact us for details and updated information



## BEST PRACTICE

WE HAVE THE RIGHT TO EXPECT THAT FRUIT, MEAT, SEAFOOD AND MEDICAL PRODUCTS ARRIVE ON THE SHELF IN PERFECT CONDITION. BECAUSE TRANSPORT REFRIGERATION PLAYS SUCH AN IMPORTANT ROLE TO MAKING THIS HAPPEN, IT IS ESSENTIAL THAT TRANSPORTATION PROFESSIONALS HAVE THE PROPER SKILLS AND KNOWLEDGE.

- 1) **PRE-COOL THE COMPARTMENT TO PRODUCT TEMPERATURE BEFORE LOADING**
- 2) **ONCE THE BOX TEMPERATURE REACHES +4°C, PERFORM A MANUAL DEFROST CYCLE**
- 3) **CHECK THE TEMPERATURE OF THE PRODUCTS BEFORE LOADING, THE UNIT WILL MAINTAIN THIS TEMPERATURE AND WILL NOT LOWER IT**
- 4) **AVOID USING THE UNIT WHILE VEHICLE IS STANDING IN DIRECT SUNLIGHT**
- 5) **MAINTAIN GOOD AIR FLOW THROUGH THE LOAD**
- 6) **TURN UNIT OFF WHEN DOORS ARE OPEN**
- 7) **MINIMIZE DOORS' OPENINGS AND INSTALL PVC OR AIR CURTAINS**
- 8) **STACK PRODUCTS ON PALLETS**
- 9) **KEEP THE FLOOR CLEAR OF OBSTRUCTIONS AND DEBRIS**
- 10) **CARRY OUT A PREVENTIVE MAINTENANCE OF THE UNIT, AND NOT CORRECTIVE**
- 11) **TAKE CARE OF YOUR BODY, IT IS A VERY IMPORTANT COMPONENT OF THE SYSTEM**





# WARRANTY

EUROFRIGO GUARANTEES THAT EACH UNIT WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR THE PERIOD INDICATED IN THE SALES CONTRACT, FROM THE DATE OF COMMISSIONING OR FOR A MAXIMUM OF 12 MONTHS FROM THE DATE THE UNIT HAS BEEN DELIVERED WITHOUT REGISTRATION. THIS WARRANTY EXTENDS ONLY TO THE ORIGINAL OWNER OF THE UNIT AND IS LIMITED, AT EUROFRIGO'S OPTION, TO REPAIR OR REPLACEMENT WITH ORIGINAL NEW OR RE-MANUFACTURED PARTS AT ANY EUROFRIGO DEALER OR AFFILIATED SERVICE OF ANY PARTS EUROFRIGO CHECKS TO HAVE BEEN DEFECTIVE UNDER NORMAL USE AND SERVICE WITHIN THE SPECIFIED WARRANTY PERIOD. THIS WARRANTY WILL ONLY COVER LABOR AND PARTS. SUCH REPAIR OR REPLACEMENT WILL BE THE EXCLUSIVE REMEDY OF THE BUYER AND THE CORRECTION OF THE DEFECTS IN THE MANNER INDICATED ABOVE WILL CONSTITUTE FULL COMPLIANCE WITH ALL THE OBLIGATIONS AND RESPONSIBILITIES OF EUROFRIGO WITH RESPECT TO THE UNIT SOLD UNDER THIS CONTRACT, WHETHER CONTRACTUAL OR EXTRA-CONTRACTUAL (INCLUDING NEGLIGENCE AND / OR STRICT LIABILITY), OR OTHERWISE.

ANY PART OF A UNIT REPAIRED OR SUPPLIED AS A REPLACEMENT UNDER THE TERMS OF THE EUROFRIGO WARRANTY WILL BE INSTALLED BY ANY AUTHORIZED EUROFRIGO DEALER OR AFFILIATE SERVICE AT NO CHARGE TO BUYER FOR LABOR OR PARTS. ANY PART THAT IS REPLACED WILL BECOME THE PROPERTY OF EUROFRIGO. SUCH WARRANTY SERVICES MUST BE PERFORMED BY AN AUTHORIZED EUROFRIGO DEALER OR SERVICE AFFILIATE AND WILL NOT INCLUDE OVERTIME, MILEAGE, PHONE CALLS OR TELEGRAMS, OR COST OF TRANSPORTATION AND / OR RELOCATION OF EQUIPMENT OR SERVICE PERSONNEL.

EUROFRIGO'S WARRANTY DOES NOT INCLUDE CONSUMABLE OR MAINTENANCE ITEMS SUCH AS, BUT NOT LIMITED TO, MOTOR OIL, LUBRICANTS, FUSES, FUEL, FILTERS AND FILTER ELEMENTS, CLEANING MATERIALS, LIGHT BULBS, REFRIGERANT GASES, DRYERS AND BATTERIES. EUROFRIGO'S WARRANTY WILL NOT APPLY TO ANY UNIT THAT (I) HAS BEEN INSTALLED, MAINTAINED, REPAIRED OR ALTERED IN A WAY THAT, IN EUROFRIGO'S OPINION, AFFECTS ITS INTEGRITY, (II) HAS BEEN SUBJECTED TO MISUSE, NEGLIGENT HANDLING OR ACCIDENT, (III) IT HAS BEEN OPERATED IN A MANNER CONTRARY TO EUROFRIGO'S PRINTED INSTRUCTIONS OR (IIII) IT HAS NOT BEEN REGISTERED WITH EUROFRIGO'S WARRANTY DEPARTMENT.

EUROFRIGO OR ANY AUTHORIZED EUROFRIGO AGENT OR SERVICE AFFILIATE WILL HAVE THE RIGHT TO REFUSE TO CARRY OUT ANY REPAIR UNDER THIS WARRANTY IN THE EVENT (I) THE UNIT HAS BEEN MISUSED OR (II) IT HAS NOT BEEN MAINTAINED ACCORDING TO EUROFRIGO'S DRAWINGS OR (III) THE CLIENT'S ACCOUNT HAS PENDING VALUES.

EUROFRIGO OR ANY AUTHORIZED EUROFRIGO AGENT OR SERVICE AFFILIATE SHALL HAVE THE RIGHT TO REQUIRE THE BUYER TO PROVIDE MAINTENANCE RECORDS TO DEMONSTRATE THAT A UNIT HAS BEEN PROPERLY MAINTAINED.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALL WARRANTIES ARISING FROM THE COURSE OF TRADING OR EXECUTION OR USE OF TRADE, EXCEPT TITLE AND AGAINST PATENT INFRINGEMENT.

## LIMITATION OF LIABILITY:

EUROFRIGO SHALL HAVE NO LIABILITY FOR CONTRACT OR TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE, FOR ANY DAMAGE OR DAMAGE CAUSED TO VEHICLES, PRODUCT CARGO CONTENT OR OTHER SPECIAL, INCIDENTAL PROPERTY, INCIDENTAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGE INCLUDING, BUT NOT LIMITED TO, LOSS OR INTERRUPTION OF BUSINESS, LOSS OF PROFITS, AND LOSS OF USE. THE BUYER'S REMEDIES HEREIN ARE EXCLUSIVE AND THE LIABILITY TOTAL CUMULATIVE OF EUROFRIGO SHALL IN NO EVENT EXCEED THE COST OF THE PART ON WHICH THIS LIABILITY IS BASED.





WE COOL THE STREETS OF THE WORLD





We reserve the right to change design and specifications without prior notice. Technical data valid at time of publication



#### **EUROFRIGO AND THE ENVIRONMENT**

EUROFRIGO is a strong defender of the environment and the social responsibility. We have launched "EUROFRIGO solutions for efficiency" 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 has also been declared one of the strategic principles EUROFRIGO fundamentals; That is already firmly anchored in our entire chain of production. It begins with the development of alternative concepts for saving fuel and transmission, continues with environmentally friendly production processes, and ends with the innovative recycling of materials.

EUROFRIGO, we strive to achieve excellence in everything we do.