

TB 28 BT DT

indelB

istruzioni per l'uso

instructions for use

instrucciones de uso

instructions d'utilisation

gebrauchsanweisung

TB 28 BT DT

3 - 10	ITALIANO
11 - 18	ENGLISH
19 - 26	ESPAÑOL
27 - 34	FRANÇAIS
35 - 42	DEUTSCH

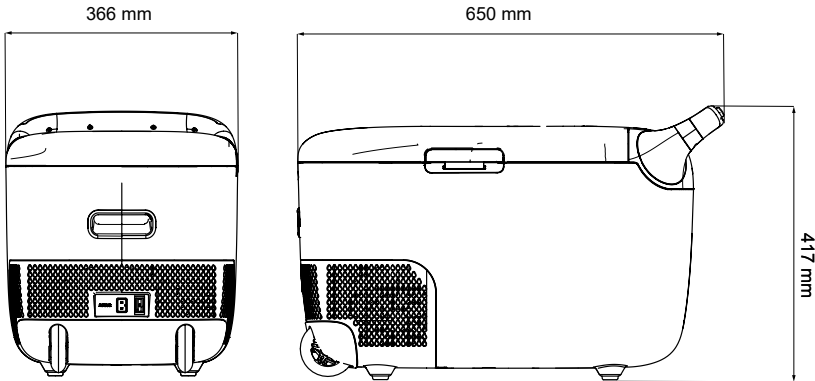
indelB

Please read these instructions and the Safety section carefully before using your refrigerator.

TB28 BT DT



ENGLISH



TECHNICAL FEATURES

MODEL	DIMENSIONS HXLXP (mm)	NET WEIGHT	PRODUCT CLASS	VOLTAGE	REFRIGERANT GAS AND CHARGE	TEMPERATURE RANGE
TB28 BT DT	417x366x650	15,5 kg	28	DC 12/24V	R134a 0,040 Kg (CO ₂ eq. 0,057 t)	-18°C ~ +10°C

This appliance contains fluorinated greenhouse gas R134a within an hermetically sealed system and its operations depends on the presence of this gas.

TB 28 BT DT



INSTRUCTIONS



WARNING!

Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.



WARNING!

Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.



WARNING!

Do not damage the refrigerant circuit.



WARNING!

Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.



WARNING!

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.



WARNING!

Risk of fire and electrical shock or fire.



WARNING!

Do not let hot items to touch the plastic parts of the appliance.



WARNING!

Do not store flammable gas and liquid in the appliance.



WARNING!

Do not put flammable products or items that are wet with flammable products in, near or on the appliance.



WARNING!

Do not touch the compressor or the con-denser. They are hot.

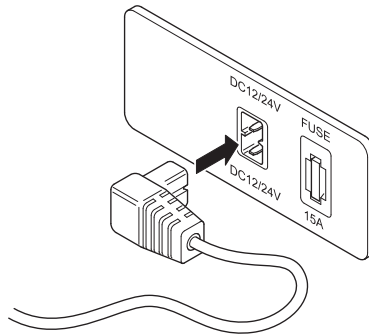


WARNING!

- The cooler is suitable for cooling and freezing foods.
- Use the travel box exclusively for cooling and storing closed beverages and snacks.
- Do not store any perishable food in the travel box.
- Food may only be stored in its original packaging or in suitable containers.
- The travel box is not intended to be brought into contact with food.
- The travel box is not intended for the proper storage of medicines. See the instructions in the package leaflet for the medicinal product.

INSTALLATION

- Place the refrigerator on a dry, sheltered, flat surface and away from any edges. The refrigerator must not be used unsheltered, in the open air or exposed to splashing or rain.
- Your refrigerator requires good ventilation, especially around the back of the refrigerator, allow a gap of at least 15 cm around the sides, back and top.
- Do not install the refrigerator near heat sources, sunlight.
- Should you need to leave the device under the sun for long periods, eg. in a car or in other vehicles, make sure you protect it, to prevent the cover plastic materials from getting damaged or warped.
- To fix it inside the car and to avoid damages during transport, we suggest to secure the fridge trough metal brackets placed on the sides.
- Avoid introducing liquids or ice not inserted in containers.
- Do not put hot food items into the refrigerator.



USING THE REFRIGERATOR IN A VEHICLE

- Connect the feeding cable to a direct current 12 or 24 V DC power source.
- Make sure the polarity is right.
- For system protection, the fuse must be installed in the positive wires (+) as close as possible to the battery. We recommend using 15 A fuses for 12 V and 7.5 A fuses for 24 V. If using a main switch, it must be able to withstand a minimum current of 20 A. Avoid extra junctions in wiring to prevent voltage drops that can influence battery protection settings.
- If the refrigerator is connected to a cigarette lighter socket, check that the power supply is sufficient.
- If the supplied power cable is not used, see the following table for the required cable diameter:

CABLE AREA	MAX CABLE LENGHT METRES (FT)	
	12V	24V
2,5 (AWG 13)	2,5 (8 FT)	5 (16FT)
4 (AWG 11)	4 (13 FT)	8 (26 FT)
6 (AWG 9)	6 (20 FT)	12 (40 FT)

TB 28 BT DT

ELECTRONIC CONTROL

The device is equipped with a multi-level battery monitor that protects your vehicle battery against excessive discharging when the device is connected to the on-board DC supply.

If the cooler is operated when the vehicle ignition is switched off, the cooler switches off automatically as soon as the supply voltage falls below a set level. The compressor will start up again automatically in a few minute when the voltage goes back to normal values.

Note: these values are measured at control unit input and/or on the DC socket.

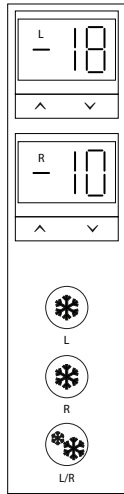
BATTERY PROTECTION LEVEL

It is possible to set three different battery protection threshold levels:

VOLTAGE	PROTECTION POSITION	DISPLAY	12V		24V	
			CUT OFF (V)	CUT IN (V)	CUT OFF (V)	CUT IN (V)
LOW	1 Bar	— — —	9.4	10.9	21.1	22.7
MIDDLE	2 Bars	■ ■ ■	10.9	12.4	22.2	23.6
HIGH	3 Bars	■ ■ ■	11.2	12.8	24.2	25.7

Read the "CONTROL PANEL USE" section to learn how to modify the battery protection level.

CONTROL PANEL USE



SETTINGS

When the fridge is switched off:

- Keep pressed on "❄️" to turn on/off the left box
- Keep pressed on "❄️" to turn on/off the right box
- Keep pressed on "❄️" to turn on/off both boxes.

When the fridge is switched on, keep pressed on the lighted button to switch off the appliance.

TEMPERATURE SETTING

- **Left-bin temperature setting:** when the fridge is switched on, press the left-bin button "∧" or "∨": the temperature value will increase or decrease accordingly. Keep pressed the left-bin button "∧" or "∨": the temperature will increase or decrease at 4°C/second (the default temperature for left-bin is -18°C)
- **Right-bin temperature setting:** when the fridge is switched on, press the right-bin button "∧" or "∨": the temperature will increase or decrease accordingly. Keep pressed the right-bin button "∧" or "∨", the temperature will increase or decrease at 4°C/second (the default temperature for right-bin is 5°C)

BATTERY PROTECTION AND CELSIUS/FAHRENHEIT SETTING MODE

- When the fridge is switched off, keep pressed for 3 seconds the two right-bin buttons "∧" and "∨" at the same time to enter in the battery protection and Celsius/Fahrenheit settings. Press the "❄️" button to switch from battery protection to Celsius/Fahrenheit settings and the other way around.
- Press the lighted "∧" and "∨" buttons to set the selected parameters.
- The middle position is the default battery protection setting.
- The Celsius is the default temperature scale setting (C represent Celsius; F represents Fahrenheit);

TB 28 BT DT

DISPLAY

- When the device is switched on, the LEDs, the digital screen and the buttons flash for 2 seconds.
- When the appliance is switched off, the buttons are lighted off.
- When the appliance is switched on, the buttons and the display are lighted on.
- The LED display show the temperature from -20 °C to 40 °C. When the temperature is lower than -20 °C, -20 °C is displayed. When the temperature is higher than 40 °C, 40 °C is displayed.

ELECTROMAGNETIC VALVE CONTROL

In L/R mode:

- When the temperature of both cabinets is higher than the set temperature, the left and right cabinets will be refrigerated one by one for 10 minutes each (the left cabinet is the first one refrigerating)
- When one cabinet reaches the set temperature while the other doesn't, the appliance will refrigerate only the cabinet that has to reach the set temperature.
- when both cabinets reached the set temperature, the compressor will stop working.

In L or R mode:

- The appliance refrigerates only one cabinet.
- When the cabinet reaches the set temperature, the compressor will stop working.

In whatever mode, the interval between electromagnetic valve power-on and power-off should not be less than 30s.

OFF-SET VALUE

This is the information needed to align the temperature shown on the display with the actual temperature inside the refrigerated compartment. Each off-set can be adjusted within a range of from -10 to +10.

After running the refrigeration system for a few hours, place a digital thermometer (not supplied) inside the compartment and check that the temperature shown on the display coincides with the temperature shown on the digital thermometer. If the temperature is not the same, the off-sets must be adjusted in relation to the temperature **T** you want the inside of the compartment to reach, so that the temperature reading on the display coincides with the temperature indicated by the thermometer.

The following table shows the factory off-set setting for each temperature range and the adjustment range for changing these settings.

OFF-SET	FUNCTION	VALUE DEFAULTED WHEN SHIPMENT	
		LEFT BIN	RIGHT BIN
F1	Set temperature $\geq 0^{\circ}\text{C}$, temperature compensation value	2°C	-5°C
F2	$-1^{\circ}\text{C} \geq$ Set temperature $\geq -14^{\circ}\text{C}$, temperature compensation value	2°C	-7°C
F3	Set temperature $\leq -15^{\circ}\text{C}$, temperature compensation value	2°C	-7°C

SETTING TEMPERATURE COMPENSATION

- When the fridge is switched off, keep pressed for 3 seconds the two left-bin buttons "∧" and "∨" at the same time to enter the temperature compensation mode.
- In the temperature compensation setting mode, the display will show F1/F2/F3. Press the "⊗" button to switch from an off-set value to the following one. The display will show before the off-set values of the left-bin, then the off-set values of the right-bin.
- Press the lighted "∧" and "∨" buttons to set the selected parameter.
- The default off-set values are shown above.

FILLING

Do not put hot food items into the refrigerator. Place the products in such a way as to avoid them hitting against each other or breaking because of the movement of the vehicle.

Make sure that the lid is always well closed and open it for as short a time as possible.

DEFROSTING

Defrosting is needed when the layer of frost is thicker than 4 mm. To carry out this operation, turn off the refrigerator. Do not use sharp or cutting tools to remove the layer of frost or ice. Wait until complete unfreezing and then turn on again.

TB 28 BT DT

MAINTENANCE



Before carrying out any maintenance operation on the refrigerator, take the power cable out of its socket.

CLEANING

- Regularly clean the inside and outside of the refrigerator using only warm water and a neutral detergent.
- Subsequent to washing, rinse with clean water and dry thoroughly using a soft cloth.
- Do not use the following: special glass and mirror cleaning products, liquid, powder, or spray detergents, alcohol, ammonia or abrasive products.
- If you are not using the refrigerator, we suggest cleaning it well inside and leaving the door half open to ventilate the interior.

SUGGESTIONS

Should the device fail to work or work badly, before referring to our after-sales service, make sure that:

- a) the feeding voltage is not missing;
- b) the voltage is the same as the one shown on the plate;
- c) the connections and the polarities are right;
- d) the airing grids are not covered over;
- e) the refrigerator unit is not near any heat source;
- f) the fuse of the feeding line is not blown.



The power supply cable must be replaced only by qualified technical personnel and in any case by an after sales service authorised by the Manufacturer.

Indel B is not liable in any way if you do not comply strictly with all the provisions in this manual.

FAULTS

When there is error for the fridge, there will be code on the display. The possible error for each code would be as follows

ERROR CODE	ERROR TYPE
E1	Battery protection (The voltage is outside the cut-out setting).
E2	Fan over-current cut-out (The fan loads the electronic unit with more than $1A_{peak}$).
E3	Motor start error (The rotor is blocked or the differential pressure in the refrigeration system is too high (>5 bar)).
E4	Minimum motor speed error (If the refrigeration system is too heavily loaded, the motor cannot maintain minimum speed 1,850 rpm).
E5	Thermal cut-out of electronic unit (If the refrigeration system has been too heavily loaded, or if the ambient temperature is high, the electronic unit will run too hot).
E6	NTC temperature probe failure (NTC open circuit or short circuit)

TB28BT DT_(DC)_IM_20190712

TB 28 BT DT



INSTRUCCIONES



¡ADVERTENCIA!

Mantenga las aberturas de ventilación, en el aparato o en la estructura integrada, libres de obstrucción.



¡ADVERTENCIA!

No utilice dispositivos mecánicos u otros medios para acelerar el proceso de descongelación que no sean los recomendados por el fabricante.



¡ADVERTENCIA!

No dañe el circuito refrigerante.



¡ADVERTENCIA!

No utilice aparatos eléctricos dentro de los compartimentos de almacenamiento de alimentos del aparato, a menos que sean del tipo recomendado por el fabricante.



¡ADVERTENCIA!

No almacene sustancias explosivas tales como latas de aerosol con propelente inflamable en este aparato.



¡ADVERTENCIA!

Riesgo de incendios y descarga eléctrica.



¡ADVERTENCIA!

No permita que artículos calientes toquen las partes de plástico del aparato.



¡ADVERTENCIA!

No almacene líquido o gas inflamable en el aparato.



¡ADVERTENCIA!

No coloque productos inflamables u objetos que estén mojados de productos inflamables dentro, cerca o encima del aparato.



¡ADVERTENCIA!

No toque el compresor ni el condensador. Están calientes.



¡ADVERTENCIA!

- El refrigerador es adecuado para enfriar y congelar alimentos.
- Utilice el refrigerador exclusivamente para enfriar y almacenar bebidas y snacks cerrados.
- No almacene ningún alimento perecedero en el refrigerador.
- Los alimentos solo pueden almacenarse en su embalaje original o en recipientes adecuados.
- El refrigerador no está diseñado para estar en contacto con alimentos.
- El refrigerador no está diseñado para el adecuado almacenamiento de medicamentos. Lea las instrucciones del prospecto del medicamento.