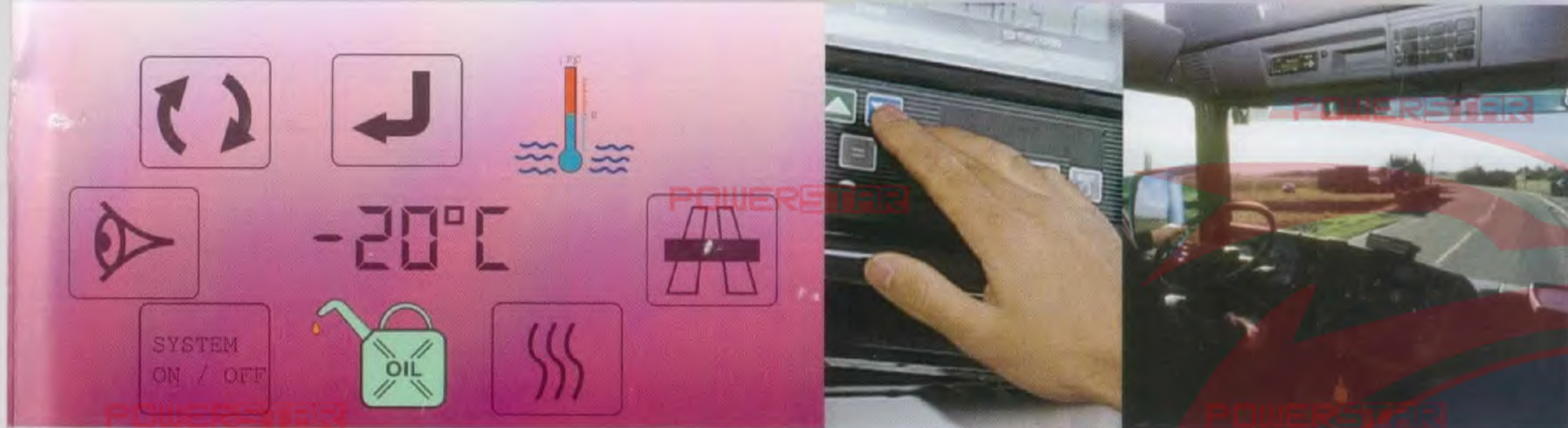




## SUPRA Range Operator's Manual Single T°/Multi° T°/Nordic/Silent & City



- |                             |                                 |
|-----------------------------|---------------------------------|
| F - MANUEL OPERATEUR        | RO - MANUAL DE UTILIZARE        |
| D - BEDIENUNGSANLEITUNG     | HR - UPUTE ZA RAD               |
| E - MANUAL DEL OPERADOR     | SK - NÁVOD NA OBSLUHU           |
| I - MANUALE UTILIZZATORE    | SLO - NAVODILA ZA UPORABO       |
| NL - BEDIENINGSHANDLEIDING  | BG - ИНСТРУКЦИИ ЗА ЕКСПЛОАТАЦИЯ |
| DK - BETJENINGSVEJLEDNING   | EST - KASUTUSJUHEND             |
| S - INSTRUKTIONSBOK         | FIN - KÄYTTÖOHJEET              |
| RUS - РУКОВОДСТВО ОПЕРАТОРА | TR - KULLANMA TALİMATLARI       |
| PL - INSTRUKCJA OBSŁUGI     | H - KEZELÉSI ÚTMUTATÓ           |
| P - MANUAL DO UTILIZADOR    | LT - NAUDOJIMO INSTRUKCIJOS     |
| CZ - NÁVOD K OBSLUZE        | GR - ΟΔΗΓΙΕΣ ΛΕΙΤΟΥΡΓΙΑΣ        |

SUPRA



1b



1a

1a

Carrier		CARRIER TRANSCOLD INDUSTRIES SAS		CE
TRANSICOLD		811 route de Paris BP 16		
		70230 BOOS FRANCE		
		R.C. ROUEN B 410 041 677		
Model				
Code				
Country of origin				
Year				
Serial number	: XXXXXXXX			
Unit weight (kg)		Volts		
Sound Power LWA		Amps		
Refrigerant		Cycles		
Charge Refr.		Phase		
Max Serv. LPHP				

1b

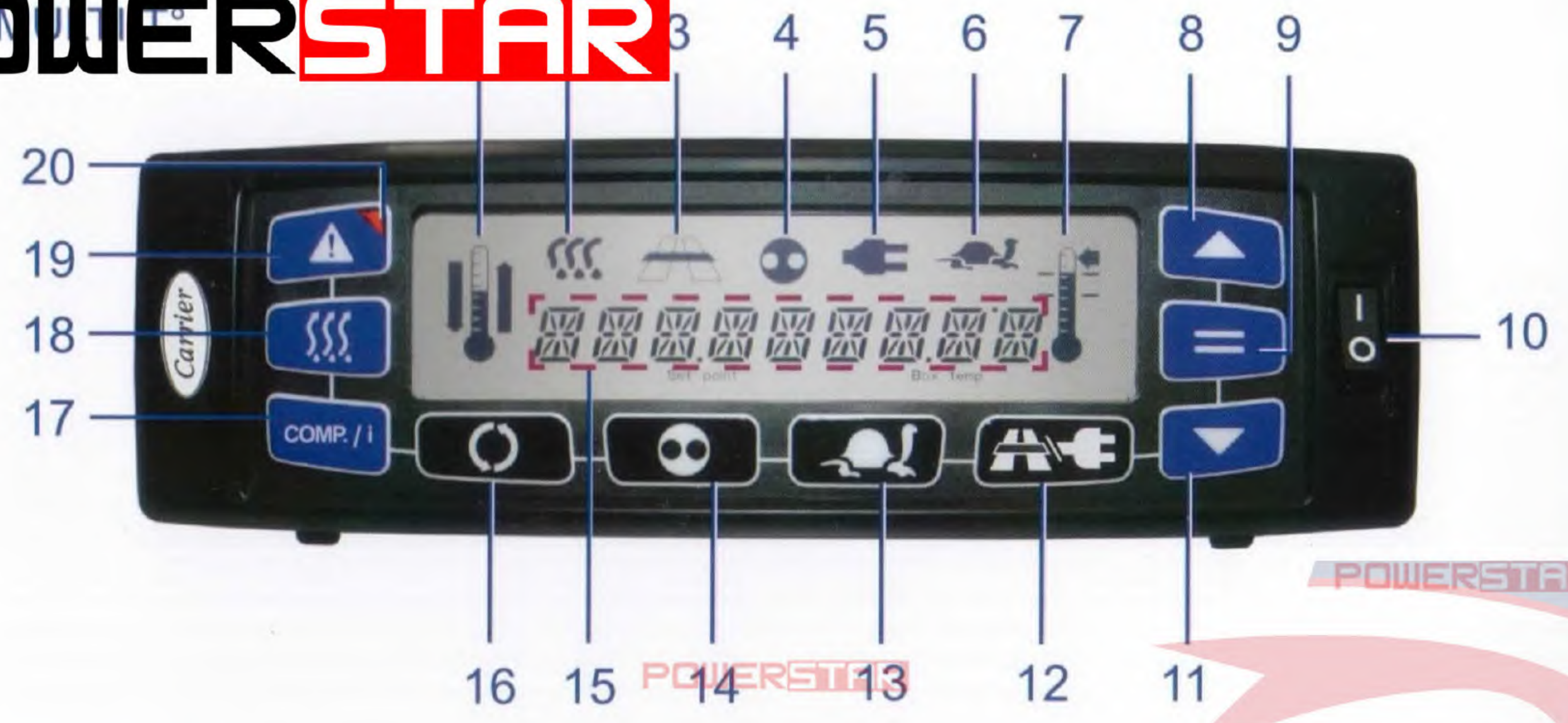
XXXXXXXXXX

2.2

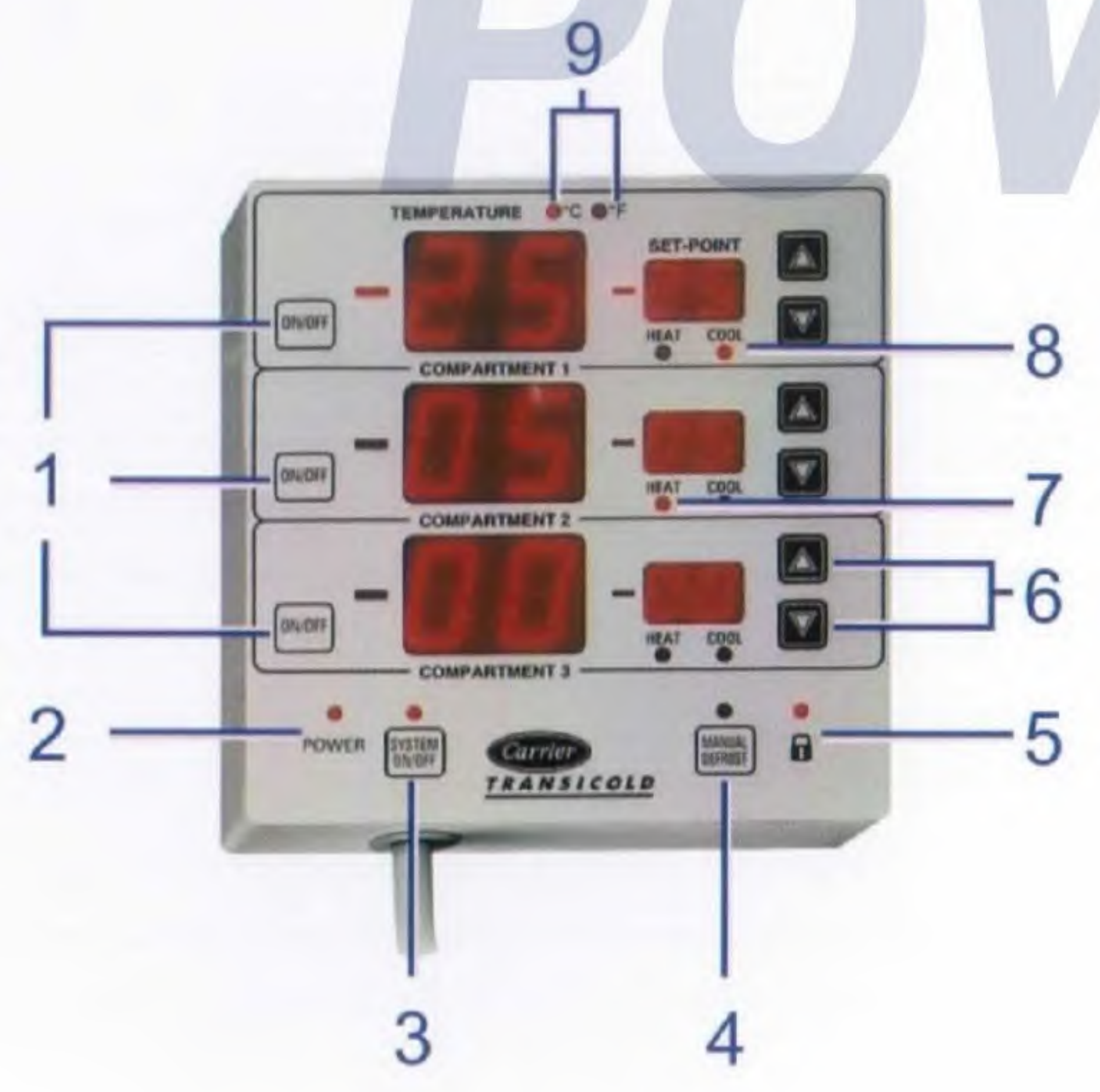




# POWERSTAR



## SINGLE T°



SUPRA range  
 Type : \_\_\_\_\_  
 Serial N° : \_\_\_\_\_

Date : \_\_\_\_\_  
 Date in Service  
 Authorized after sales Servicer Center Stamp

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H

SUPRA range  
 Service  A  B  
 Date : \_\_\_\_\_  
 H



**SUPRA RANGE – Single T° / Multi T° / Nordic / Silent / City**

**DRIVER'S MANUAL**

**INTRODUCTION**

This guide has been prepared for the operator of Carrier Transicold refrigeration units. It contains basic instructions for the daily operation of the refrigeration unit as well as safety information, troubleshooting tips, and other information that will help you to deliver the load in the best possible condition.

Please take the time to read the information contained in this booklet and refer to it whenever you have a question about the operation of your Carrier Transicold unit. This manual refers to the standard model. Some options may not appear in it, and in such cases you are requested to consult our Technical Services.

Your refrigeration unit has been engineered to provide long, trouble-free performance when it is properly operated and maintained. The checks outlined in this guide will help to minimize on the road problems. In addition, a comprehensive maintenance program will help to insure that the unit continues to operate reliably. Such a maintenance program will also help to control operating costs, increase the unit's working life, and improve performance.

When having your unit serviced, be sure to specify genuine Carrier Transicold replacement parts for the highest quality and best reliability.

At Carrier Transicold, we are continually working to improve the products that we build for our customers. As a result, specifications may change without notice.

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## 1. IDENTIFICATION

Keep the fold out sheet while reading the instructions.

### 1. Nameplate

Each unit is identified by a nameplate attached to the frame of the unit. The nameplate identifies the complete model number of the unit, the serial number and some other information.

If a problem occurs, please refer to the information on this plate, and make a note of the model and serial number before calling for assistance. This information will be needed when you contact a technician so that he may properly assist you.

The complete nameplate is fixed on the frame and the Serial Number is fixed on the control box: easily readable.

### 2. Noise level sticker (fixed if available)

This sticker indicates the noise level in Lwa (sound power level).

Unit – Single T°	Maximum Sound Power level L <sub>WA</sub> (dB) : 99
Supra 450 S & R & Nordic S	97
Supra 450 T & Nordic T	95
Supra 550 S & R & Nordic S	97
Supra 550 T & Nordic T	95
Supra 750 S & R & Nordic S	97
Supra 750 T & X	94
Supra 750 Nordic T & X	94
Supra 850 S & R & Nordic S	98
Supra 850 T & Nordic T	95
Supra 850/ 850 Nordic X	92
Supra 950 S & R & Nordic S	98
Supra 950/ 950 Nordic T	96
Supra 950/ 950 Nordic X	94
Supra 950 City	92
Supra 1050	98
Supra 1050 X	96
Supra 1150	99
Supra 1150 X	96
Supra 1250	99
Supra 1250 X	96
Supra 1250 City	92

Unit – Mt° T°	Maximum Sound Power level L <sub>WA</sub> (dB) : 99
Supra 750 Mt° S	97
Supra 750 Mt° T & X	94
Supra 850 Mt° S	98
Supra 850 Mt° T	95
Supra 850 Mt° X	92
Supra 950 Mt° S	98
Supra 950 Mt° T	96
Supra 950 Mt° X	94
Supra 1150 Mt°	99
Supra 1150 Mt° X	96
Supra 1250 Mt°	99
Supra 1250 Mt° X	96
Supra 1250 Mt° City	92

## 2. WARNINGS AND PRECAUTIONS

This manual contains safety and service instructions to follow in order to prevent any accident. Some of following stickers have been placed on the product for your SAFETY.



**BEFORE USING THIS REFRIGERATION UNIT, read carefully all safety information.**

- NEVER intervene on the unit; for any service or maintenance operation, contact your Carrier service centre.
- NEVER manipulate cab command when driving
- NEVER remove safety elements (grill, skin, metal sheet). If damaged, contact your Service Center for replacement.

Risks you are exposed to: (in case of accident, contact your medical assistance).

	Burning with hot and cold
	Cuttings
	Noise level
	Exhaust gas: DO NOT use the unit in a closed space
	Asphyxiation: leave the doors open when working inside the body
	Risk of slipping going up in the body: - ice on the floor of the body
	Risk of slipping going out of the body: - gasoil on the floor - lack of refrigerant
	Electrical risks – when connecting and disconnecting standby plug



Risk of Automatic Restart:  
- if in start-stop mode  
- Risk of auto start-up in diesel mode when loss of electrical power (configuration in Carrier service centre).

It is essential to shut down the compartment when the doors are open if you are not equipped of plastic curtains, in order to maintain the temperature:  
For single temperature unit, the main O/I switch (O:stop/I:start) should be switched to O.

## 3. OPERATION

### 3.1. Cab control description

Keep the fold out sheet while reading the instructions

- Running mode:
  - Up arrow : Heating mode
  - Down arrow: Cooling mode
- Defrost mode
- Road mode
- Auto Start/Stop mode
- Standby mode
- City speed mode
- Out of range temperature
- Up arrow key / Down arrow key
  - Enable to modify:
    - The temperature set point (from the default display).
    - The data (from the data list).
    - The functions parameters (from the function list).
  - Scroll:
    - The data list.
    - The function list.
- Enter key
  - Display the data during 30 second (from the Data list).
  - Select a function and validate its parameter changing (from the function list).
  - Validate a set point change
- RUN/STOP switch
- Standby/Road key
  - Select the electric motor operating mode
    - Each push of the key toggle the operating mode between the engine (Road mode) and the electric (Standby mode) motor.
  - If the standby mode is selected and power not available/ "NO POWER is displayed"

### 13. City speed ON/OFF key

- Select the CITY speed mode:
- Each push of the key, the operating mode alternate between the Road mode and City speed mode.
  - The CITY SPEED symbol is displayed when the city speed mode is active

### 14. Auto "Start/Stop" ON/OFF key

- Select the operating mode between CONTINUOUS or Auto START/STOP mode
- Each push of the key, the operating mode toggles.
  - The AUTO START/STOP symbol is displayed when the auto start/stop mode is active.

IF CNF11 is ON & 0°C >Set point< 5.5°C:  
The unit is locked into continuous mode.

### 15. Digital display for:

- Temperature set point
- Box / compartment temperature
- Unit data
- Functions
- Alarms

### 16. Function / Pre-TRIP key (Single T° only)

- Press the Function key to display the function list
- Each push of the key, the function list is advanced one.

This key in conjunction with the ARROW keys allow to display and scroll the Function list

Hold 3 second the Function key to launch the Pre-TRIP function.

### 17. COMPARTMENT Status / UNIT DATA key

- Multi T° unit**
- 1 pulse : Status of all the compartments (ON/OFF°)
  - 2 pulses : Selection of the compartments
  - Hold 3 seconds : Information menu

### Single T° unit

- 1 pulse : Information menu

This key in conjunction with the ARROW keys allows to display and scroll the data list

### 18. Manual defrost key

Hold 1 second the MANUAL DEFROST key to initiate a defrost cycle.

The defrost condition must be present to initiate a Defrost cycle.



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19. Buzzer ON/OFF key

20. Alarm / Fault light

Hold 3 second the BUZZER ON/OFF key to disable the buzzer in case of alarm.

**i** Even the buzzer is OFF:  
**Fault light still illuminated**  
**The Alarm still activated**

### 3.2. Pretrip (Single T° only)

**i** The Pre-TRIP is a test sequence to check unit operation.

- The microprocessor operates the unit in various modes allowing an evaluation of unit operation.
- If a failure occurs during the Pre-Trip: the microprocessor generates an alarm.

**!** The Pre-TRIP is initiated only if the requested conditions are reached:

1. Hold 3second the Function key to initiate a Pre-TRIP cycle.

PPP is displayed

Then, the unit will perform a complete diagnostic check on the microprocessor controller

#### SUPRA CITY ONLY

**!** During the start-up, the CITY MODE function is deactivated 1 minute.

### 3.3. Display compartment status

Press **once** the Compartment status / Unit Data key to display compartment status. Only compartment ON are displayed.

Example:



C1 ON / C2 OFF / C3 ON

### 3.4. Starting the unit – Road operation

1. Place the RUN/STOP switch (O/I) to the RUN position (I)

2. Press the ROAD/STANDBY operation key (only if the unit has been previously used in standby mode) ROAD mode operation symbol is displayed.

3. **For Mt° only – If compartment was OFF** Access compartment selection by pressing **twice** on the Compartment

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status / Unit Data key.

4. Select the desired compartment to activate (displayed 5 seconds)

5. Press Enter key to toggle compartment status ON or OFF.

If, when settings are adjusted, no key is activated within 5 sec. the system reverts to displaying the box temperature.

### 3.5. Starting the unit – Standby operation

**!** Be certain that the unit is connected to an appropriate power source.

1. Place the RUN/STOP switch (O/I) to the RUN position (I)
2. Press the ROAD/STANDBY operation key (only if the unit has been previously used in road mode). STANDBY mode operation symbol is displayed.

**For Mt° only – Manage compartments activation as described in steps 3 to 5 paragraph 3.4) in Road operation setting.**

Then, the unit will begin to run on electric power.

#### 3.5.1. Standby operation guidelines

For safe, reliable operation in Standby mode, it is important to consider the following guidelines:

a. ALWAYS check that the unit is OFF (Cab command) before connecting it from the power source.

b. The extension cable and fuse used for network connection must comply with the legislation currently applicable on the site of use (minimum H07 RNF CEI 245-4) and with the unit specifications as described in the table below:

Unit	Fuse 200/240/3/ 50Hz 220/256/3/ 60Hz	Fuse 350/415/3/ 50Hz 380/460/3/ 60Hz	Standardize d extension cable H.07.RNF	
			230 volts	400 volts
Supra 450	16 A	10 A	4 x 4 mm2	4 x 2.5 mm 2
Supra 550	16 A	13 A	4 x 4 mm2	4 x 2.5 mm 2
Supra 750	23 A	13 A	4 x 6 mm2	
Supra 750 Mt°				
Supra 850				
Supra 850 Mt°	50 A	30 A	4 x 4 x 6 10 mm	
Supra 950				
Supra 1050				
Supra 1150				

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Supra 1250 City			mm2	2
Supra 1250				
Supra 950Mt°	40 A	29 A	4 x 6 mm2	
Supra 1150Mt°				
Supra 1250 City Mt°				
Supra 1250Mt°				

c. The unit connection cable must be fitted with a ground connection. The cable must be connected to earth.

d. On the 400 & 230 V supply, the unit MUST BE CONNECTED to a high sensibility (30mA) differential protection.

e. Operations on the 400 V & 230 V supply for the unit must only be carried out by authorized personnel.

f. The user is liable for ensuring that the above measures are taken.

**Warning:** changing the operation of a unit from 400 V to 220 V implies a change in the electrical coupling, adjustment of the overload relay and for certain unit models, the replacement of some components. Please consult our technical service.

### 3.6. Unit shut down

Place the RUN/STOP switch (O/I) to the OFF position (O)

**!** To shut down the unit, ALWAYS use the cab command.

### 3.7. Changing the set point

The sequence is the same for each compartment.

1. Start the unit
2. When the set point box temperature is displayed, press the UP or DOWN ARROW key to change the temperature set point.
3. Press the ENTER key to validate.

### 3.8. Manual defrost

Hold 1 second the MANUAL DEFROST key to initiate a defrost cycle.

**!** The defrost condition must be present to initiate a Defrost cycle.

**SUPRA CITY ONLY**  
**!** During the Defrost mode, the CITY MODE function is deactivated.

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### 3.9. To display unit data

1. **Standard unit :** Press Unit Data key once to access information menu.

**Multi Temp unit :** Hold the Unit Data key 3 seconds to access information menu

The unit data list can be scrolled through by pressing the Compartment status/Unit data key. The list will advance by one with each key press.

or use the UP or DOWN ARROW keys to scroll through the list more quickly.

Press the ENTER key to display the data for 30 seconds.

#### SINGLE T° UNIT DATA

CODE	ENGLISH	DATA
CD1	SUCT	Suction pressure
CD2	ENG	Engine hours
CD3	WT	Engine temperature
CD4	RAS	Return air temperature
CD5	SAS	Supply air temperature
CD6	REM	Remote air temperature
CD7	ATS	Ambient temperature
CD9	CDT	Compressor discharge T°
CD10	BATT	Battery voltage
CD11	SBY	Standby (electric motor) hours
CD13	REV	Software revision
CD14	SERL	Serial number low
CD15	SERU	Serial number upper
CD18	MHR1	Maintenance hour meter 1
CD19	MHR2	Maintenance hour meter 2
CD20	SON	Switch on hour meter

\*SAS and REM are options. SAS is displayed when the SUP PROBE function is selected. REM is displayed when the REM PROBE function is selected.

#### MULTI T° UNIT DATA

CODE	ENGLISH	DATA
CD1	SUCT	Suction pressure
CD2	ENG	Engine hours
CD3	WT	Engine temperature
CD4	1RA	Return air temperature Compartment1
CD6	2DT	Defrost temperature Compartment2
CD7	3DT	Defrost temperature Compartment3
CD8	1DT	Defrost temperature Compartment1
CD9	CDT	Compressor discharge T°
CD10	BATT	Battery voltage
CD11	SBY	Standby (electric motor) hours
CD13	REV	Software revision
CD14	SERL	Serial number low
CD15	SERU	Serial number upper
CD16	2RA	Return air temperature Compartment2
CD17	3RA	Return air temperature Compartment3
CD18	MHR1	Maintenance hour meter 1
CD19	MHR2	Maintenance hour meter 2
CD20	SON	Switch on hour meter

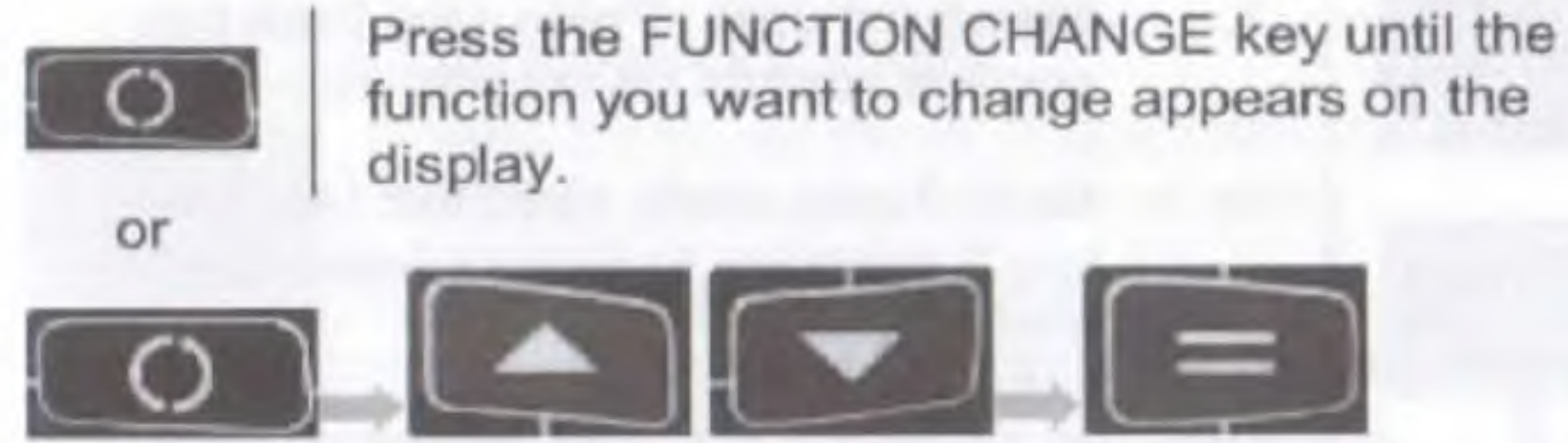
\*SAS and REM are options. SAS is displayed when the SUP PROBE function is selected. REM is displayed when the REM PROBE function is selected.

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### 3.10. To change a function



Press the FUNCTION CHANGE key once and use the UP or DOWN ARROW keys to scroll through the list more quickly. Press the ENTER key to display the data for 30 seconds

SINGLE T° FUNCTION PARAMETERS		
CODE	ENGLISH	AVAILABLE SELECTIONS
FN0	DEFR	Defrost interval 1.5, <b>3</b> , 6 or 12hr
FN1 ON	CITY SPEED	Low speed only
FN1 OFF	HIGH SPEED	<b>Low and high speed</b>
FN2	OFF T	Minimum Off-time 10, <b>20</b> , 30, 45 or 90mn
FN3	ON T	Minimum On-time <b>4</b> or 7 mn
FN4A	REM PROBE	Controlling probe
FN4B	SUP PROBE	
FN5 F/C	DEGREES F/C	Temperature unit : <b>C°</b> , F°
FN6 ON	TIME STRT	Unit restart controlled by : <b>temperature</b> or time
FN6 OFF	TEMP STRT	
FN7 0	MOP SDT	Maximum operating pressure : <b>standard</b> , -, +
FN7 -5	MOP -	
FN7 +4	MOP +	
FN10 ON	AUTO OP	Start mode : <b>automatic</b> or manual
FN10 OFF	MAN OP	
FN11	T RANGE	Out of range :2°C, 3°C or 4°C
CODES / ENGLISH		Code or <b>english</b> display format
NORM / ADD GLOW		Glow length : <b>Normal</b> or add 30 second
ALARM CLR		No active alarm
ALARM RST		Alarm reset required
Selection in bold are factory settings.		

MULTI T° FUNCTION PARAMETERS		
CODE	ENGLISH	AVAILABLE SELECTIONS
FN0	DEFR	Defrost interval 1.5, <b>3</b> , 6 or 12hr
FN1 ON	CITY SPEED	Low speed only
FN1 OFF	HIGH SPEED	<b>Low and high speed</b>
FN2	OFF T	Minimum Off-time 10, <b>20</b> , 30, 45 or 90mn
FN3	ON T	Minimum On-time <b>4</b> or 7 mn
FN4 F/C	DEGREES F/C	Temperature unit : <b>C°</b> , F°
FN5 ON	TIME STRT	Unit restart controlled by : <b>temperature</b> or time
FN5 OFF	TEMP STRT	
FN6 0	MOP SDT	Maximum operating pressure : <b>standard</b> , -, +
FN6 -5	MOP -	
FN6 +4	MOP +	
FN7 ON	AUTO OP	Start mode : <b>automatic</b> or manual
FN7 OFF	MAN OP	
FN8	T RANGE	Out of range :2°C, 3°C or 4°C
CODES / ENGLISH		Code or <b>english</b> display format
NORM / ADD GLOW		Glow length : <b>Normal</b> or add 30 second

ALARM RST / CLR	Alarm reset ( <b>CLR</b> )
ALARM RST	Alarm reset required
Selection in bold are factory settings.	

### 4. OPTIONAL CONTROL PANEL

#### 4.1. Description

Keep the fold out sheet while reading the instructions.

User-friendly indicator and operator control panels clearly show individual compartment temperatures with easy-to-read displays.

These compact panels can be mounted to suit the individual operator's preferences.

(Example: on the front bulkhead, in the cab or in the refrigerated compartment - including mounting in the truck wall itself)

Symbols and keys description	
1. Compartment on/OFF key	6. Up and down arrow keys
2. Control panel power on	7. Heating operating mode light of a compartment
3. Unit ON/OFF key	8. Cooling operating mode light of a compartment
4. Manual defrost key	9. Temperature indicated in °C or °F
5. Control panel locking	

From this optional control panel, you can : switch on the unit, check compartment 1, 2 or 3 temperatures, change set points, energize a manual defrost.

#### 4.2. To operate with auxiliary control panel

- Start the unit as mentioned before.
- Press the SYSTEM ON/OFF key (3.). Power light will go ON.
- Press the ON/OFF key (1.) to energize selected compartment.
- Display

	waiting for communication with unit
	compartment temperature display
	Set point temperature display
	evaporator status (heat or cool or null)
	compartment shut-down via remote control
	defrost compartment
	temperature sensor malfunction

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### 4.2.1. To change the setpoint

Setpoint change can be made from control panel or cab control.

- Press the UP or DOWN ARROW key (6.) to increase or decrease set point. This is the same operation for each compartment.

### 4.2.2. To set pre-set set point

The control panel allows the user to pre-set 5 different temperatures on each compartment.

- Switch main RUN/STOP switch (10.) and required remote compartment switches (1.) on the unit to RUN.
- Press Carrier logo and the lock light will be displayed.
- Press host compartment UP ARROW key for 10 seconds. P1 will be displayed in all compartments.
- Set lowest set point temperature required.
- Press Carrier logo and P2 will be displayed. Set next lowest temperature required up to five pre-set set points are available.
- Pressing the second compartment up or down arrow will allow the lowest temperature required to be pre-set in the second compartment. Pressing Carrier logo will then move on to the next lowest (up to five).
- Press the Carrier logo for 10 seconds and this will remove the lock light and store the pre-set set points in memory.

### 4.2.3. To remove pre-set set point

- Switch main RUN/STOP switch and required remote compartment switches on the unit to RUN.
- Press Carrier logo and the lock light will be displayed.
- Press host compartment up arrow for 10 seconds. P1 will be displayed in all compartments.
- Set temperature to lowest possible and OFF will be displayed.
- Press the UP ARROW key on remote compartments will display the presets, take the temperature to the lowest possible and OFF will be displayed.
- Press the Carrier logo for 10 seconds and the new information will be stored in memory.

### 4.2.4. To lock and unlock the control panel

- Press the CARRIER logo 10 seconds to lock the control panel.
- then, starts to flash in the new logic.
- Press again the CARRIER logo 10 seconds to unlock.
- The indicator goes off.

#### NOTE

It is not necessary for the compartment to be running in order to modify or see the setpoint value and the temperature of the compartment. The unit can be shut down both with the control panel and the general switch.

### 5. DRIVER TROUBLESHOOTING

Everything possible has been done to ensure that your unit is the most reliable, trouble-free equipment available on the market today. If, however, you run into problems, the following section may be of assistance.

If you do not find the trouble that you have experienced listed below, please call your Carrier Transicold dealer for assistance.

Unit does not start	<ul style="list-style-type: none"> <li>Check fuel level</li> <li>Check if the electrical plug and power supply are connected</li> <li>Check alarms</li> <li>Check if body and unit door is closed.</li> </ul>
Unit does not reach the desired temperature	<ul style="list-style-type: none"> <li>Check if the doors are closed</li> <li>Check if products are loaded at the right temperatures (refer to "PRODUCT LOADING" chapter)</li> <li>Evaporator frosted: launch manual defrost</li> <li>Evaporator airflow blocked: check if correct loading</li> <li>Check airflow indicator: if blown away from the unit, consult your service point to reverse the phases in the standby plug.</li> <li>Dirty condenser: consult your Service point for cleaning</li> <li>Check alarms</li> </ul>
No cab command display	<ul style="list-style-type: none"> <li>Battery fuses</li> <li>Check if the doors are closed.</li> </ul>

#### 5.1. Fault alarm display and safety features

Display will alternate between an alarm message and the normal display whenever any of the failures listed below occur.

**NOTE** : Whenever the fault light is "ON" and buzzer check display for fault message and stop buzzer pushing on the Buzzer ON/OFF key.

- Press FUNCTION CHANGE key (3.).
- Press the UP/DOWN ARROW keys (2.) until ALARM RST is displayed.
- Press the ENTER key (17.) to clear alarm. Alarm CLR will now be displayed and unit will restart.

**Other method to reset:** move RUN/STOP switch to STOP. Unit resets and will start when RUN/STOP switch is moved to run position.

**!** If the problem is still present, related alarm will be displayed again.



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### SEVERITY OF THE ALARM

- The unit can run without risk. Go to service centre for maintenance
- ▲ The unit can temporarily run but risk exists. Go to service centre to check functioning.
- Stop the unit. The unit cannot run. Go service centre

### SINGLE TEMPERATURE - ALARM DISPLAY

Severity	CODE	ENGLISH	DESCRIPTION √ = Fault light ON
●	AL0	ENG OIL	Low oil pressure √
●	AL1	ENG HOT	High coolant temperature √
●	AL2	HI PRESS	High pressure √
●	AL3	STARTFAIL	Start failure √
●	AL4	LOW BATT	Low battery voltage √
●	AL5	HI BATT	High battery voltage √
▲	AL6	DEFRO FAIL	Defrost override
●	AL7	ALT AUX	Alternator auxiliary (Unit stops if CNF16 ON) √
●	AL8	STARTER	Starter motor √
●	AL9	RA SENSOR	Return air sensor * regarding set point T° and SAS installed √
●	AL10	SA SENSOR	Supply air sensor* regarding set point T° and RAS √
●	AL11	WT SENSOR	Coolant temperature sensor √
●	AL12	HIGH CDT	High discharge temperature √
■	AL13	CD SENSOR	Discharge temperature sensor √
●	AL14	SBY MOTOR	Standby motor overload √
▲	AL15	FUSE BAD	Fuse open (only for specific fuses) √
●	AL16	SYSTEM CK	System check
●	AL17	DISPLAY	Display
■	AL18	SERVICE1	Maintenance hour meter 1
■	AL19	SERVICE2	Maintenance hour meter 2
▲	AL20	OUT OF RANGE	Compartment out-of-range (stop if CNF9 on) √
●	AL23	NO POWER	No power for standby (could start in diesel mode if set)

### MULTI TEMPERATURE - ALARM DISPLAY

Other alarms are common with single T°

Severity	CODE	ENGLISH	DESCRIPTION √ = Fault light ON X = Unit stop
●	AL9	1RA	Return air sensor compartment 1 √
●	AL10	2RA	Return air sensor Compartment 2 √
●	AL16	3RA	Return air sensor Compartment 3 √
▲	AL20	1 RA OUT	Compartment out-of-range (stop if CNF9 on) √
▲	AL21	2RA OUT	Remote compartment 2 out-of-range (stop if CNF9 on) √
▲	AL22	3RA OUT	Remote compartment 3 out-of-range (stop if CNF9 on) √
●	AL26	SYSTEM CK	System check

**WARNING : AL0 (ENG OIL) could come up if alternator is badly connected.**

### 6. MAINTENANCE

A comprehensive maintenance program will help to insure that the unit continues to operate reliably. Such a maintenance program will also help to control operating costs, increase the unit's working life, and improve performance.



#### IMPORTANT TO READ AND FOLLOW

Regular maintenance includes a quick overview of the unit from a Safety perspective. Service Technician must pay particular attention, but not exclusively to : nuts and bolts tightening (replacing if missing), electrical wires, harnesses, fuel lines routing (repairing or replacing if needed), doors, skins grills, panels conditions (repairing or replacing if needed).

Confirmation of such operations can be detailed on request.

All maintenance services must be done by a technician trained on Carrier products respecting all safety and quality standards of Carrier.

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### 6.1. Maintenance schedule

Unit	HOURS	500	1000	1500	2000	2500	3000	3500	4000
Supra 450 550	Initial service	250 h							
	Service A	■	■	■	■	■	■	■	■
	Service B		■						■
Supra 750&Mt 850&Mt	Initial service	250 h							
	Service A	■	■	■	■	■	■	■	■
	Service B		■						■
Supra 950&City&Mt Supra 1050 Supra 1150&Mt° Supra 1250&City &Mt°	Initial service	250 h							
	Service A	■	■	■	■	■	■	■	■
	Service B		■						■

### 7. PRODUCT LOADING



#### Important

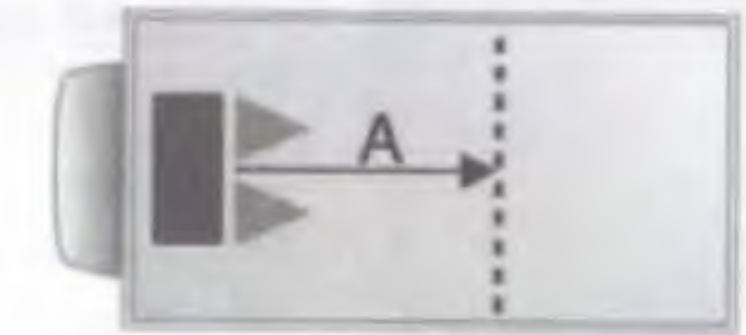
This unit is not designed to carry special loads which emit corrosive gas. These kinds of products can impact unit performance, and seriously reduce component life time. Please contact us if such products need to be carried.

- Proper air circulation in the insulated box, air that can move around and through the load, is a critical element in maintaining product quality during transport. If air cannot circulate completely around the load, hot spots or top-freeze can occur.
- The use of pallets is highly recommended. Pallets, when loaded so air can flow freely through the pallets to return to the evaporator, help protect the product from heat passing through the floor of the truck. When using pallets, it is important to refrain from stacking extra boxes on the floor at the rear of the truck, because this will cut off the airflow.
- Product stacking is another important factor in protecting the product. Products that generate heat, fruits and vegetables for example, should be stacked so the air can flow through the product to remove the heat; this is called "air stacking" the product. Products that do not create heat, meats and frozen products, should be stacked tightly in the centre of the box.
- All products should be kept away from the sidewalls of the body, allowing air to flow between the body and the load; this prevents heat filtering through the walls from affecting the product.
- It is important to check the temperature of the product being loaded to ensure that it is at the correct temperature for transport. The refrigeration unit is designed to maintain the temperature of the product at the temperature at which it was loaded; it was not designed to cool a warm product.

### 7.1. Options for insulated bodies

#### • Mobile partition

The mobile partition must be placed at a minimum distance (A) from the evaporator of:



Designation	Minimum Distance (mm)
Supra 450	1000
Supra 550 / 750	1000
Supra 850/950/1050/1150/1250	1500
MTS 700	1000
MTS 1100	1000
MTS 1450	1500
MTS 2200	1500
MTD 700	1000
MTD 1100	1000
MTD 1450	1000
MTD 2200	1000

#### • Ducting of evaporator air outlet

Ventilation ducts must never be covered.

### SOME ADVICE

#### 7.2. Before loading

- Pre-cool the inside of the insulated body by lowering the temperature for about 15 minutes.
- Evacuate the humidity existing inside the box by carrying out a manual defrost. This can only take place when enabled by the defrost thermostat (box temperature lower than 3°C during pulldown and 8°C during heating).
- Evaporator fans are protected by safety grills. In the event of heavy duty use of the unit, ice can accumulate on the grills. It is therefore recommended to clean them regularly by means of a small brush. The operation MUST be done when the unit has been SHUT DOWN.

#### 7.3. When loading

- To be carried out with the unit stopped.
- It is recommended to open doors as little as possible to avoid the intake of hot air and humidity.
- Select the temperature by means of the thermostat, according to the transported goods.
- Check the internal temperature of the goods being loaded (using a probe thermometer).
- Take care not to obstruct the air intakes on the evaporator section and the ventilation ducts.



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Load spacers

Load on pallets

- Leave a free space of about :
  - 6 to 8 cm between load and front wall,
  - 20 cm between the top of the load and the roof,
  - between the floor and the load (gratings, pallets).

- Do not forget to close the doors.
- Before closing the doors, check your load once more and see that nobody is shut inside the box.

**NOTE :**

For stationary utilization, we recommend to place the body in the shade.

**IMPORTANT**

Never leave your unit more than a month without running.

**Characteristics of vehicles used for carrying perishable goods; refrigeration unit.**

The refrigeration unit is an insulated unit with a cooling system which makes it possible, with a mean outside temperature of +30°C, to lower the temperature inside the empty body and to maintain this low temperature in the following way:

**class A :** Refrigeration unit furnished with a cooling system whereby a temperature between +12°C and 0°C inclusive can be chosen.

**class B :** Refrigeration unit furnished with a cooling system whereby a temperature between +12°C and -10°C inclusive can be chosen.

**class C :** Refrigeration unit furnished with a cooling system whereby a temperature between +12°C and -20°C inclusive can be chosen.

The cooling capacity of a unit is determined by a test carried out in one of the approved testing stations and ratified by an official report.

Note: The "K" factor of bodies intended to be classified as C must be equal to or lower than 0.4 W/m<sup>2</sup> °C.

**Signs, identification marks and plates to be attached to refrigeration units**

**Refrigeration Plate**

This reference must be followed by identification marks according to the following list:

- Standard refrigeration unit Class A FNA
- Reinforced refrigeration unit Class A FRA
- Reinforced refrigeration unit Class B FRB
- Reinforced refrigeration unit Class C FRC

In addition to the above identification marks, the date (month and year) of expiry of the approval certificate must be indicated.

Example:  
FRC 6-2016

(6 = month (June) 2016 = year)

**Very important**

Regularly check the expiry date of the approval certificate. During transport, the approval certificate or provisional certificate should be shown on request of qualified agents. To have an insulated unit approved as a refrigeration unit, an application to modify the approval certificate should be sent to the regional health office.

**10. 24H ASSISTANCE**

At Carrier Transicold we're working hard to give you complete service when and where you need it. That implies a worldwide network of dealers and available an emergency service. These service centres are manned by factory-trained service personnel and backed by extensive parts inventories that will assure you of prompt repair.

Should you encounter a unit problem with your refrigeration unit during transit, follow your company's emergency procedure or contact the nearest Carrier Transicold service centre. Consult the directory to locate the service centre nearest you. This directory may be obtained from your Carrier Transicold dealer.

If you are unable to reach a service center, call Carrier Transicold's 24Hour Assistance : ONE CALL

In Europe, please use the following free phone numbers from :

A	AUSTRIA	0800 291039
B	BELGIUM	0800 99310
CH	SWITZERLAND	0800 838839
D	GERMANY	0800 1808180
DK	DENMARK	808 81832
E	SPAIN	900 993213
F	FRANCE	0800 913148
FIN	FINLAND	0800 113221
GB	GREAT BRITAIN	0800 9179067
GR	GREECE	00800 3222523
H	HUNGARY	06800 13526
I	ITALY	800 791033

IRL	IRELAND	1800 553286
L	LUXEMBURG	800 23581
RUS	RUSSIA	810 800 200 31032
N	NORWAY	800 11435
NL	THE NETHERLANDS	0800 0224894
P	PORTUGAL	8008 32283
PL	POLAND	00800 3211238
S	SWEDEN	020 790470

From other countries / Direct : +32 11 8791 00  
In Canada or United States, call 1 - 800 - 448 1661

When calling, please have the following information ready for fastest service:

- Your name, the name of your company, and your location
- A telephone number where you can be called back
- Refrigeration unit model and serial number
- Box temperature, setpoint and product
- Brief description for the problem you are having and what you have already done to correct the problem.

We will do everything we can to get your problem taken care of and get you back on the road.



**8. RECOMMENDED TRANSPORT TEMPERATURES**

Below are some general recommendations on product transport temperatures and operating modes for the unit. These are included for reference only and should not be considered pre-emptive of the set-point required by the shipper or receiver.

More detailed information can be obtained from your Carrier Transicold dealer.

PRODUCT	SETPOINT RANGE	OPERATING MODE*
Bananas	15°C / 60°F	Continuous
Fresh fruits and vegetables	+4°C to +6°C / +39°F to +43°F	Continuous
Fresh meats and seafood	+2°C / +36°F	Auto-Start/Stop or Continuous
Dairy products	+2°C to +6°C / +36°F to +43°F	Auto-Start/Stop or Continuous
Ice	-20°C / -4°F	Auto-Start/Stop
Frozen fruits and vegetables	-18°C / 0°F	Auto-Start/Stop
Frozen meats and seafood	-20°C / -4°F	Auto-Start/Stop
Ice cream	-25°C / -13°F	Auto-Start/Stop

During delivery cycles that include frequent stops and door openings, it is recommended that the unit always be operated in the continuous run mode to help insure product quality.

**9. A.T.P. EUROPE REGULATION EXTRACT**

Approval of vehicles intended for the carriage of perishable goods.

Before putting a refrigerated vehicle into service, it is necessary to have it approved by the Regional Health Department.