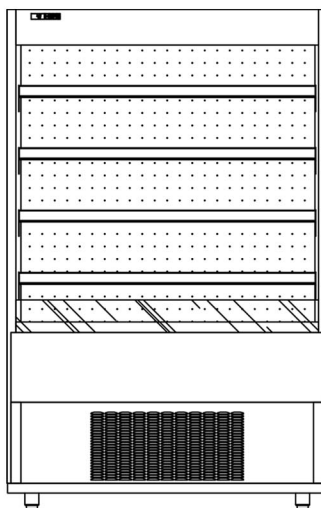




MURO - GRAB-N-GO

H78

Maintenance And Use Manual



OSCARTEK

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1. INTRODUCTION

PRESENTATION

Dear Client,

Oscartek is pleased to number you among its customers and relies the bought machine will match your expectation. In order to get the best performances of the machine, we recommend you to follow all suggestions and instructions, which are included in this manual.

1.2. HOW TO USE THE MACHINE

PERMITTED USES

This refrigerated display cabinet has been manufactured for **beverage products** presentation and sell.

NOT PERMITTED USES

It is absolutely forbidden the use of the refrigerated display cabinet for **pharmaceutical products**.

1.3. RESPECTED NORMS

The refrigerated display cabinet has been manufactured in respect of the safety issues relevant to the following norm:

- **Directive** N° 2006/95/CE : Low tension
- **Directive** N° 2004/108/CE : Electro-magnetic Compatibility
- **Directive** N° 97/23/EC (P.E.D.) : European Pressure Equipment
- **Norm** CEI 17-13/1 (EN 60439/1) : Realization of Electric Installations
- **Norm** CEI EN 60335-1 (CEI 61-150) : Safety of household and similar electrical appliances
- **Norm** CEI EN 60335-2-24 (CEI 61-56) : Special norms for refrigerators, freezers and ice machines
- **UL471**
- **NSF 7**

1.4. RESPONSIBILITY

Oscartek declines any responsibility relevant to damages on persons, animals and/or products in case of:


















- No respect of in force norms
- Installation, which is not conform to the instructions manual
- No observance of all maintenance operations, which are suggested in this manual
- No previously agreed change operations with the manufacturer
- No proper use of the refrigerated display cabinet, for which the machine has been produced.

1.5. WARNING

Anytime Oscartek reserves the right to up-date the content of this manual and/or to modify the product in order to improve its quality and performance, without any previous notice and/or communication.

2. DISPLAY CASE DATA PLATE

2.1. DATA PLATE CONTENT

 				  www.oscartek.com							
Model 1		Production Date		Model METROPV21		Production Date					
Serial No. 2		3		Serial No. SN1391QC		MAG.13					
 4 V/ 5 ph / 6 Hz		14 W/A		 120 V / 1 ph / 60 Hz		1500/15.6 MAX W/A					
 Type 7		 15 W		 Type NT6222GK		 // W					
 No. 8		 16 W		No. 1		 850 W					
Gas 9 10 Kg Cl. 11		 17 W		Gas R404A 840Z Cl. 75°F-55% RH		 100 W					
Pmax 12 psig		Pmin 13 psig		Pmax 360 psig		Pmin 30 psig					
				  Intertek 3045720 Intertek CONFORMS TO ANSI/UL STD 471; ANSI NSF STD 7 CERTIFIED TO CAN/CSA C22.2 STD No. 129							
				SAMPLE							
1. Commercial name of the unit				10. Refrigerant weight							
2. Identification number				11. Climatic rate (Cl.3 = +25°C/60% U.R.; Cl. 4 = +30°C/55% U.R.)							
3. Production date				12. Test pressure – system high pressure side							
4. Voltage				13. Test pressure – system low pressure side							
5. Phases				14. Nominal power/current absorbed during defrost							
6. Frequency				15. Max. power absorbed during defrost							
7. Compressor type				16. Nominal power absorbed by heating elements (only if higher than 100W)							
8. Number of compressor				17. Lighting nominal power							
9. Refrigerant type											

3. INSTALLATION

3.1. MACHINE HANDLING

- The wall showcase handling, from the truck to the final place, has to be made by any truck-lift, which is proper to its weight. The showcase shall be always balanced in order to ensure personnel integrity and machine functionality.
- The showcase can be shipped with or without wood packaging, in case wood crate will be used, will have a pallet base for an easy fork-lift handling. The pallet, however should be handle in the central position.
- During the shipment, it is necessary to avoid any crash or/and shake of the wall showcase in order to not damage its frame, especially its glasses
- Do not drag the wall showcase on the floor and do not push it on the upper glasses.
- In case the wall showcase has front or side room-glasses avoids its shipment by air.

3.2 STOCK OF THE SHOWCASE

- Whenever the showcase has to be stoked, follow carefully what suggested before.
- Environmental temperature during the showcase stock can have following range -15°C and + 55°C and humidity between 30% and 90%.
- The wall showcase has always to be protected by sunrays and raining.
- In case the wall showcase has to remain in stock quite long time before its use, keep it with its packaging in order to maintain its protection.

3.3. PACKAGING REMOVE

Before getting the wall showcase from the forwarding agent, check its conditions. In case it will be some damages, inform the driver and sign it on shipping documents. **Eventual damages relevant to the shipment and/or to the wrong stock, have not to be ascribed to the manufacturer.**

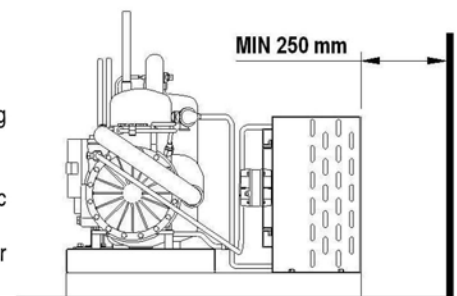
3.4. SHOWCASE POSITION

The refrigerated showcase needs particular environmental conditions in order to offer the right performance, so that the area where it will be used has to respect following indications

- Floor has to be levelled perfectly, on the contrary keep the wall showcase on the horizontal position in order to guarantee a perfect defrosting water drain and avoid boring compressor noises.
- The wall showcase has to not be under the sun-rays in order to have its better refrigeration performance, has to remain inside the local or to be sheltered by window curtain. If what described above is not observed, it can determinate an increase of temperature of displayed product and an increasing power consume.
- The wall showcase has not to be under air currents due to open doors or windows, or under roof ventilators or under air condition outlets. In case will be not respected the above suggestions it can arise an increasing of temperature of the displayed product and/or an increasing ice phenomena on the evaporator and internal fans, which compromise the correct cold air circulation and product consistence.
- The wall showcase has not to be placed close any heat source as heaters, ovens, etc
- The wall showcase has to have a sufficient place in order to ensure a correct custom service, to make an easy maintenance operation, to guarantee the right air flow necessary to make cold the condenser. Besides the warm air which flows out has to no have any obstacle or to invest other equipments in order to not reduce the correct functions.

3.5. REMOTE CONDENSING UNIT PLACING

- The remote condensing unit has to be checked by specialised technicians and according to the required refrigerating power and their position respect the showcase.
- The condensing unit has to be placed following these points:
 - The condensing unit has to be located at least 250 mm from any eventual wall. (pic.5.5)
 - Air flow direction has to be from the eventual wall towards compressor.
 - The local, in case will be closed, has to be with enough air circulation.
 - By the condenser has to be guaranteed in any case as much as possible cold air.
 - In case will be necessary it has to be foreseen a forced air exchange by any fan according to the air flow of condenser.
 - The condensing units of display showcase have to be fixed properly.
 - The generated noise has not exceed the admitted noise levels relevant to the public places, especially in case of domestic buildings.
 - It is always necessary a sufficient place along the four sides of the wall showcase in order to make easy any type of check and maintenance operations.
 - When the condensing units are external will be necessary a frame holder that has to be fixed in a proper way and eventually added with amortising elements. Besides this frame has to be closet with no-water protection grid and sufficient opening holes for ventilation.



pic.5.5

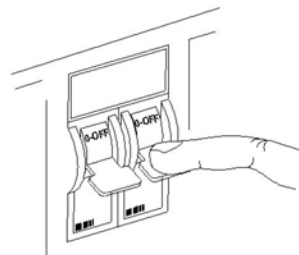
3.6 ELECTRICAL CONNECTION

- Before proceeding with electrical connection, be sure that the available electric power and tension are what is required on technical label of the wall showcase.
- The electric connection has to be made by qualified personnel and following manufacturer's instructions.
- The wall showcase has already a general switch, however it is necessary an omni polar switch, with a minimum distance among the contacts of 3mm.
- It is obligatory that the wall showcase will be connected properly with an efficient ground socket.

WARNING! A wrong connection may occur always to persons, animals and things, where the manufacturer cannot be considered as responsible.

WARNING!

Although the wall showcase has main switch breaking both the phases.
Before any maintenance operation disconnect the electrical supply of the wall showcase. (pic.3.6).



pic.3.6

3.7. IDRAULIC CONNECTION - REMOTE CONDENSING UNIT

- In the case then wall showcaset has a remote condensing unit, it is necessary make the connection of defrosting water outlet with the main water drain outlet.

MURO H78 SELF SERVE (SECTION A & B - 26 9/16"D)						
TECHNICAL FEATURES		MODELS				
		MURO H78 640	MURO H78 1040	MURO H78 1290	MURO H78 1540	MURO H78 2040
External Dimensions (L-D-H)	Inches	25 1/4" - 26 9/16" - 78 3/4"	41" - 26 9/16" - 78 3/4"	50 3/4" - 26 9/16" - 78 3/4"	60 3/4" - 26 9/16" - 78 3/4"	80 1/4" - 26 9/16" - 78 3/4"
Inches-MM	MM	640 - 674 - 2000	1040 - 674 - 2000	1290 - 674 - 2000	1540 - 674 - 2000	2040 - 674 - 2000
Crated Dimensions (L-D-H)	Inches	31" - 32" - 85"	46" - 32" - 85"	56" - 32" - 85"	66" - 32" - 85"	84" - 32" - 85"
Inches-MM	MM	787 - 812 - 2160	1168 - 812 - 2160	1422 - 812 - 2160	1677 - 812 - 2160	2133 - 812 - 2160
Air Cooled Condensing Unit	---	1	1	1	1	1
BTU's @ +14°F Evap Temperature	BTU'S	3750 BTU'S	4810 BTU'S	5450 BTU'S	6800 BTU'S	8200 BTU'S
Power Supply	(V/Ph/Hz)	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60
Amperage	(A)	6.5A	8A	9A	10A	11.7A
Operating Temperature	°F	40°F	40°F	40°F	40°F	40°F
Net Weights	Kg/Lb	130Kgs / 286Lbs	200Kgs / 440Lbs	240Kgs / 528Lbs	300Kgs / 660Lbs	400Kgs / 880Lbs
Crated Weights	Kg/Lb	145Kgs / 319Lbs	220Kgs / 484Lbs	255Kgs / 561Lbs	330Kgs / 726Lbs	425Kgs / 935Lbs

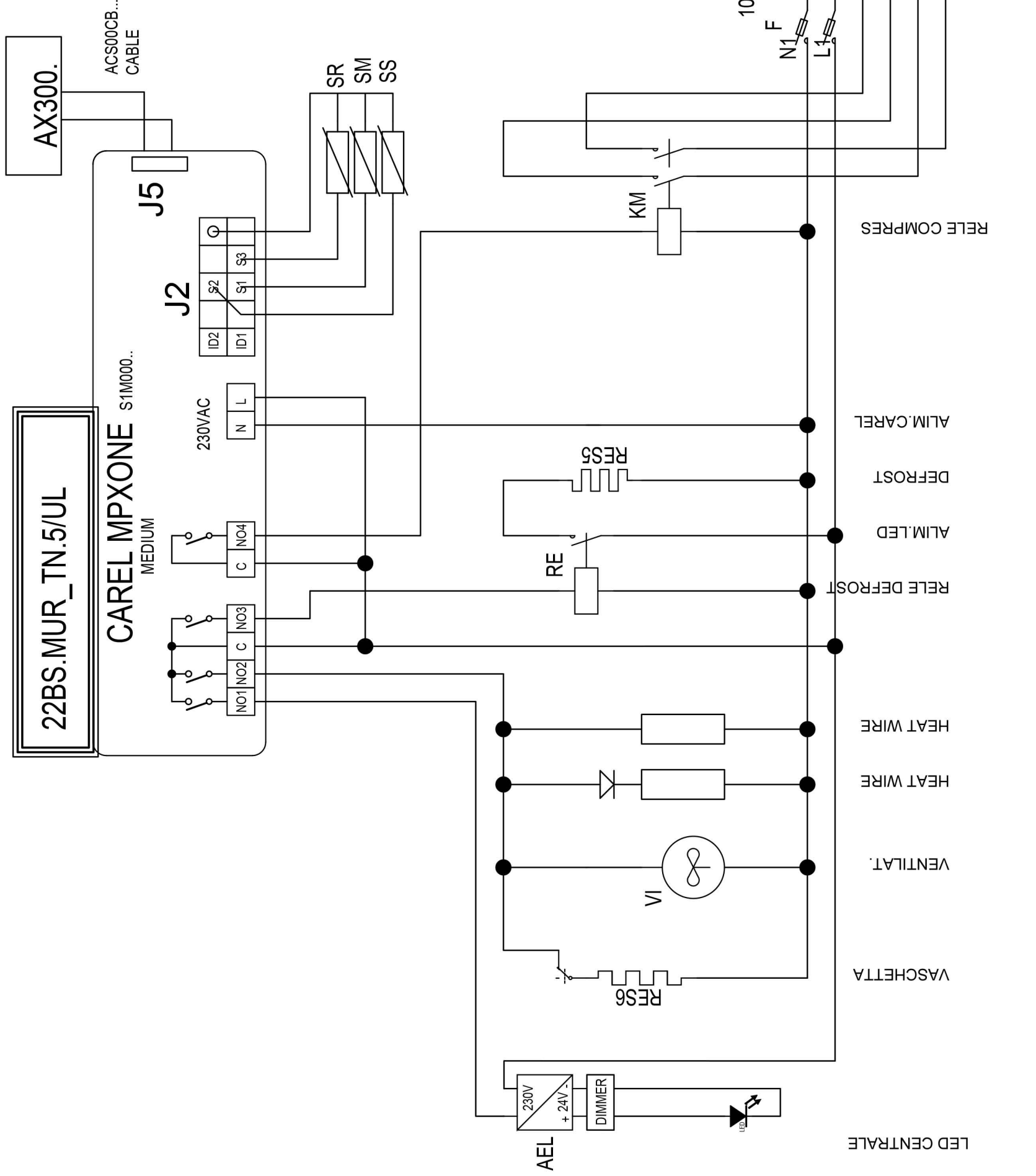
* 85°F Ambient and 55% Relative humidity * Floor sink recommended on these models

MURO H78 SELF SERVE (SECTION C - 35 1/4"D)					
TECHNICAL FEATURES		MODELS			
		MURO H78 1040	MURO H78 1290	MURO H78 1540	MURO H78 2040
External Dimensions (L-D-H)	Inches	41" - 35 1/4" - 78 3/4"	50 3/4" - 35 1/4" - 78 3/4"	60 3/4" - 35 1/4" - 78 3/4"	80 1/4" - 35 1/4" - 78 3/4"
Inches-MM	MM	1040 - 896 - 2000	1290 - 896 - 2000	1540 - 896 - 2000	2040 - 896 - 2000
Crated Dimensions (L-D-H)	Inches	46" - 41 1/2" - 85"	56" - 41 1/2" - 85"	66" - 41 1/2" - 85"	84" - 41 1/2" - 85"
Inches-MM	MM	1168 - 1054 - 2160	1422 - 1054 - 2160	1677 - 1054 - 2160	2133 - 1054 - 2160
Air Cooled Condensing Unit	---	1	1	1	1
BTU's @ +14°F Evap Temperature	BTU'S	4800 BTU'S	5120 BTU'S	6400 BTU'S	7680 BTU'S
Power Supply	(V/Ph/Hz)	220/1/60	220/1/60	220/1/60	220/1/60
Amperage	(A)	8A	9A	10A	11.7A
Operating Temperature	°F	40°F	40°F	40°F	40°F
Net Weights	Kg/Lb	200Kgs / 440Lbs	240Kgs / 528Lbs	300Kgs / 660Lbs	400Kgs / 880Lbs
Crated Weights	Kg/Lb	220Kgs / 484Lbs	255Kgs / 561Lbs	330Kgs / 726Lbs	425Kgs / 935Lbs

* 85°F Ambient and 55% Relative humidity * Floor sink recommended on these models

REFRIGERATION AND ELECTRICAL SYSTEM CABLE CONNECTION GUIDE

AGD	DIGITAL FLAVOURS DISPLAY FEEDER	RES28	FRONT GLASS LOWER FRAME HEATING ELEMENT
AEL	ELECTRONIC BALLAST	RES29	FRONT GLASSES COUPLING PROFILE HEATING ELEMENT
AP	SERVICE VALVE	RES30	DOORS FRAME MIDDLE POST HEATING ELEMENT
CA	SUPPLY CABLE	RES31	GLASSES PERIMETRAL FRAME HEATING ELEMENT
CAR	AIR CONDENSER	RES32	HEATED DOORS HEATING ELEMENTS
CE	ELECTRONIC CONTROL	RES33	WATER DRAIN HEATING ELEMENT
CN	MULTIPOLAR CONNECTOR	RES34	DOORS FRAME HEATING ELEMENT
CO	COMPRESSOR	RES35	COMPRESSOR CRANKCASE HEATING ELEMENT
D	DIOD	RES36	FRONT GLASS FRAME HEATING ELEMENT
DEV	SHUNT	RES37	CABINET FRAME HEATING ELEMENT
DR	REMOTE DISPLAY	RES38	HOT COMPARTMENT HEATING ELEMENT
EM	PHOTOCELL EMITTER	REV	CONDENSER FAN SPEED CONTROL
EV	EVAPORATOR	REVC	CONDENSER FAN RELAY
F	FUSE	RI	REFRIGERANT TAP
FD	FILTER DRIER	RIC	COMPRESSOR DELAYER
FLU	WATER FLOW SWITCH	RICV	PHOTOCELL RECEIVER
FR	COMPRESSOR THERMAL PROTECTION	RIS	RESERVE , ANTI-FOG HEATER ELEMENT
HL	COMPRESSOR ALARM LIGHT	RL	LIQUID RECEIVER
I	GENERIC SWITCH	RLA	WATER LEVEL ELECTRONIC CONTROL
IEC	WATER EVAPORATION BIN SWITCH	RO	OIL HEATER ELEMENT
IGD	DIGITAL FLAVOURS DISPLAY	SAA	ABSENCE OF WATER LIGHT
II	LIGHTING SWITCH	SC	CONDENSER PROBE
IL	SIGHT GLASS	SD	TERMINAL BOX
IMC	WARM SHELF SWITCH	SDC	COMPRESSOR TERMINAL BOX
INV	INVERTER	SE	PROXIMITY SENSOR
IR	REFRIGERATION SWITCH	SEC	MAIN SWITCH
IRP	LIGHT REFRIGERATION SWITCH	SFV	TANK BOTTOM HEATING COIL
IV	INTERNAL FAN SWITCH	SIDG	FLAVOURS DISPLAY DIGITAL SYSTEM
KM	CONTACTOR	SL	LIQUID SEPARATOR
LF	FRONT LIGHTING	SLA	WATER LEVER PROBE
LI	INTERNAL UPPER LIGHTING	SPC	COMPRESSOR LIGHT
LIA	FRONT LIGHTING	SPMC	WARM SHELF LIGHT
LIG	FLAVOURS DISPLAY LIGHTING	SPR	ELECTRIC SUPPLY LIGHT
LIP	REAR LIGHTING	SPS	DEFROSTING LIGHT
MDIG	DIGITAL MODULE FOR FLAVOURS DISPLAY	SS	DEFROSTING PROBE
MM	SPINNING SHELVES ELECTRIC MOTOR	ST	TEMPERATURE PROBE
MUC	CONDENSING UNIT ELECTRIC CONNECTIONS	STR	LIGHTING STARTER
PA	HIGH PRESSURE CONTROL	SU	HUMIDITY PROBE
PD	HIGH-LOW PRESSURE CONTROL	T	TEMPERATURE CONTROL
PO	WATER PUMP	TI	WINTER THERMOSTAT
QE	EXTERNAL ELECTRIC PANEL	TC	CAPILLARY TUBE
QF	MAGNETIC-THERMIC SWITCH	TE	TIMER
R	LIGHTING BALLAST	TER	THERMOMETER
RADD	RECTIFIER	TF	FUSIBLE PLUG
RE	GENERIC RELAY	TMC	WARM SHELF THERMOSTAT
REL	ELECTRONIC BALLAST	TP	LIGHTING FIXTURES REGRIGERATOR THERMOSTAT
REP	ELECTRONIC CONTROL TEMPERATURE REPEATER	TRA	TRANSFORMER
RES1	COLD AIR DISCHARGE HEATING ELEMENT	TRC	ELECTRONIC CONTROL TRANSFORMER
RES2	FRONT PROFILE HEATING ELEMENT	TREV	WATER EVAPORATION HEATER ELEMENT THERMOSTAT
RES3	RIGHT/LEFT GLASS HEATING ELEMENT	TS	SECURITY THERMOSTAT
RES4	FRONT GLASS HEATING ELEMENT	TVC	CONDENSER FAN THERMOSTAT
RES5	DEFROST HEATING ELEMENT	V	COMPRESSOR FAN / GENERAL USE
RES6	WATER EVAPORATION HATING ELEMENT	VC	CONDENSER FAN
RES7	TOP LIGHTING FIXTURE HEATING ELEMENT	VEC	WATER EVAPORATION BIN
RES8	LATERAL GLASS SUPPORT HEATING ELEMENT	VES	EXPANSION VALVE
RES9	FRONT BAND HEATING ELEMENT	VI	INTERNAL FAN
RES10	COUPLING BAND HEATING ELEMENT	VPA	CONDENSING PRESSURE CONTROL WATER VALVE
RES11	SERVICE TOP HEATING ELEMENT	VR	CHECK VALVE
RES12	UPPER BAND/DOOR FRAME HEATING ELEMENT	VRA	SUCTION PRESSURE REGULATION VALVE
RES13	HOT DRY/BAIN MARIE DISPLAY HEATING ELEMENT	VRE	EVAPOTATING PRESSURE REGUTATION VALVE
RES14	ANTI-FOG SUCTION AIR BAND HEATING ELEMENT	VS	GENERAL USE SOLENOID VALVE
RES15	WARM SHELF HEATING ELEMENT	VSA	SOLENOID WATER VALVE
RES16	SIDE BANDS/ FRONT GLASS HINGE HEATING ELEMENT	VSAB	BY-PASS SOLENOID WATER VALVE
RES17	DEHUMIDIFICATION HEATING ELEMENT	VSIC	REVERSING CYCLE SOLENOID VALVE
RES18	DEFROSTING WATER DRAIN HEATING ELEMENT	VSL	LIQUID SOLENOID VALVE
RES19	RING FRAME HEATING ELEMENT	VSS	DEFROSTING SOLENOID VALVE
RES20	SIDE BAND HEATING ELEMENT	VT	POWER REGULATOR
RES21	SUCTION AIR GLASS HEATING ELEMENT	VV	GLASS FAN
RES22	OUTLET AIR HEATING ELEMENT	X1	CABINET CONNECTIONS
RES23	REAR GLASS HEATING ELEMENT	X2	EXTERNAL ELECTRIC PANEL CONNECTIONS
RES24	INTERNAL GLASS HEATING ELEMENT	X3	CONDENSING UNIT CONNECTIONS
RES25	FRONT GLASS UPPER FRAME HEATING ELEMENT		
RES26	FRONT GLASS LATERAL/LOWER FRAME HEATING ELEMENT		
RES27	FRONT GLASS LATERAL FRAME HEATING ELEMENT		



Pressing PRG on the main screen for 3 s and entering the password 33 accesses programming mode; see the menu descriptions for details of the available items.

➡ **Note:** (*) for possible optimisations, use the APPLICA app.

Parameter categories visible on the user terminal

VIS (Display)		CtL (Control)/ Analogue inputs	DEF (Defrost)	ALM (Alarms)	FAN (Fans)	EVD (Electronic exp. valve)	Connectivity/ Fieldbus/ Control/ Display	RTC
Sm	PPU	On	d0	AA	F0	P1	H0	y_
Sd	tGS	St	dl	A0	F1	P3	H2	M_
Sr	tEu	rd	dt1	AL	F2	P7	H1	d_
SH	PEu	/p1	dP1	AH	F3	PH	H3	h_
Sa	ESC	/FA	ESC	Ad	ESC	ESC	In	m_
Sv		/Fb		ESC			Sn	d_
Svt		/Fc					r7	u_
		ESC					/5	
							ESC	

Procedure

To navigate the menu tree, use the following buttons:

- UP and DOWN to navigate the menu and set the values;
- PRG to enter the menu items and save the changes made;
- PRG (3s) to select the menu item or ESC to return to the previous branch.

Example of how to set parameter St (set point):



1. Wait for the standard display to be shown;



2. Press PRG for 3 s: the password prompt is displayed (PSd)



3. Press PRG: UP and DOWN flash



4. Press UP and enter the password: 33



5. Press PRG: the first category of parameters is displayed: VIS (=Display)



6. Press DOWN: the second category of parameters is displayed: CtL (=Control)



7. Press DOWN until reaching parameter St (=set point) and PRG to display the value



8. Press UP/DOWN to modify the value



9. Press PRG to save the setting and return to the parameter code



10. Press PRG for 3 sec or alternatively, in the parameter level select ESC and press PRG to return to the parameter



11. Press DOWN to move to the next category dEF (=Defrost) and follow steps 5 to 9 to set the



12. After having completed the settings, to exit either: a) from the categories press ESC and then

categories

other parameters

PRG; or b) press PRG for 3 s

➡ **Note:** if no button is pressed, after around 1 minute the terminal will automatically return to the standard display.

Mobile device and PC

The Applica app and SPARK software can be used to configure the controller from a mobile device (smartphone, tablet), via NFC (Near Field Communication) or Bluetooth (in this case also by laptop). The controller can be programmed according to the profile used for access to APPLICA or SPARK, with different parameter visibility depending on the rights associated with each profile (User, Service, Manufacturer).

Procedure:

1. download the "Applica" app;
2. (on the mobile device) start the app for commissioning the controller;
3. activate NFC;
4. move the device closer to the controller, less than 10 mm away;
5. follow the instructions shown on the display.

3.2.5 Direct functions

The following functions can be activated directly from the keypad or via the app:

Icon	Display	On/Off
	Lht	Cabinet light
	Cnt	Continuous cycle
	dEF	Defrost
	dFn	Network defrost (Master only)
	CLn	Clean cabinet
	ON	Unit ON
	rH	Anti-sweat heater

Procedure:

1. go to the standard display;
2. press PRG: Lht is displayed;
3. press PRG to turn the light on/off and DOWN to move to the next direct function;
4. follow the previous steps for all the other functions;
5. When finished, press Esc to exit.



1. Go to the standard display;



2. Press PRG: Lht is displayed, the UP and DOWN buttons light up.
Press PRG to turn the light on/off: the icon will come on or go off.
Press DOWN to activate the next function (Cnt) or press Esc to exit;



3. Press PRG to activate the continuous cycle (Cnt).
Press DOWN to activate the next function;



4. Follow the previous steps for all the other functions;

5. Select Esc to exit;



6. The standard display is shown

4. Initial configuration

Once the electrical connections have been completed (see "Installation") and the power supply has been connected, the operations required for commissioning the controller depend on the type of interface used, however essentially involve setting the so-called initial configuration parameters.

The initial configuration procedure can be run on the user terminal or mobile device (with the APPLICA app).

The parameters used for initial commissioning are shown in the Parameter table.

⚠ Important: the parameters that can be set on the user terminal and in the APPLICA app may vary according to the rights assigned to the access profile, defined by the manufacturer. Therefore, not all of the following parameters may be visible or modifiable.

4.1 Wizard

MPXone features highly configurable inputs and outputs. CAREL in any case recommends a configuration following the default settings of the parameters. By following this suggestion, the controller can independently manage the main functions in most applications, without having to significantly modify the settings of the parameters.

4.1.1 User terminal

When first started, MPXone runs a procedure (configuration wizard) that requires the settings of the critical parameters, relating to:

- correct configuration of the probe types;
- correct communication of the controller with the supervisor and the Master/Slave network;
- management of the electronic valve, if the external driver is available.

➡ **Note:** the configuration wizard can also be:

- run via the "APPLICA" app
- skipped by creating a parameter configuration using the SPARK configuration software.

During this procedure, the device remains in standby and all of its functions are deactivated (including control and communication via RS485). The special configuration menu is only displayed on the user terminal, and therefore one needs to be connected if the function is not deactivated (avoiding conflicts in the network/LAN or refrigerant return to the compressor). Only after having set all of the required parameters will it be possible to continue with normal configuration.

➡ **Note:** at the end of the guided procedure (wizard), the controller awaits the control request, with the set point at the default value (50°C).

4.2 APPLICA

The "APPLICA" app can be used to configure the controller from a mobile device (smartphone, tablet), via NFC (Near Field Communication) or Bluetooth.

Procedure (modify parameters):

- download the CAREL "Applica" app;
- (on the mobile device) enable NFC and/or Bluetooth communication and mobile data;
- open Applica;
- move the mobile device near to the user terminal, maximum distance 10 mm (for NFC only), so as to recognise the configuration;
- select the access profile and enter the required password (*);
- set the parameters as needed;
- move the mobile device near to the user terminal again to upload the configuration parameters.

(*) pre-assigned by the unit manufacturer to allow maintenance only by authorised service technicians. See the parameter table.

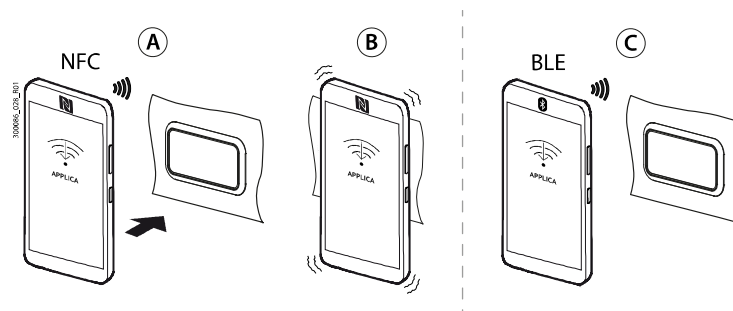


Fig.4.a

Commissioning parameters

Par.	Desc.	Public
In	Type of unit	Basic, Medium
Sn	Number of slaves in the local network (*)	Basic, Medium
H0	Serial or Master/Slave network address	Basic, Medium
H3	BMS serial port protocol	Basic, Medium
/P1	Type of probe, group 1 (S1, S2, S3)	Basic, Medium
P1	Electronic valve	Medium
PH	Refrigerant (**)	Medium
/P2	Type of probe, group 2 (S4, S5) (**)	Medium
/P3	Type of probe, group 3 (S6) (**)	Medium
/Fd	Assign superheated gas temperature probe (tGS) (**)	Medium
/FE	Assign saturated evaporation pressure/temperature probe (PEu/tEu) (**)	Medium
/UE	Maximum value for saturated evaporation pressure probe (PEu/tEu) (**)	Medium
/LE	Minimum value for saturated evaporation pressure probe (PEu/tEu) (**)	Medium
End	Exit the initial configuration procedure	Basic, Medium

Tab.4.a

(*) not displayed if In = 0;

(**) not displayed without electronic expansion valve (P1 = 0).

⚠ Important: at the end of the configuration wizard, the unit will be ON and the temperature set point = 50°C.

4.3 Description of the initial configuration parameters

In: Type of unit

This parameter In assigns the function of Master or Slave to the controller.

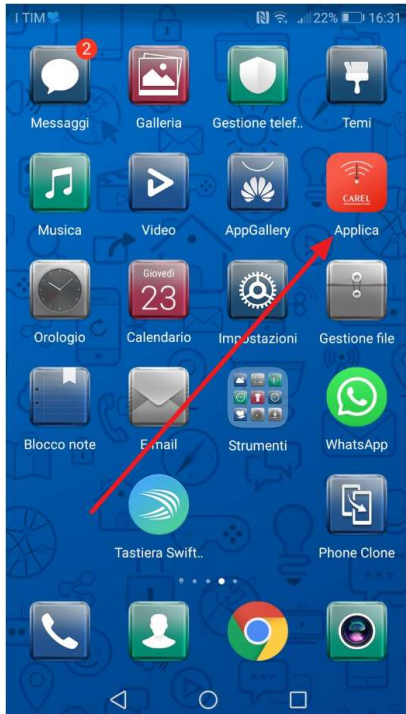
Code	Description	Def	Min	Max	UOM	User	User terminal
In	Type of unit 0/1 = Slave/Master	0	0	1	-	S	YES

Sn: Number of slaves in the local network

This parameter tells the Master controller how many Slave controllers it needs to manage in the local network. If Sn = 0, this is a stand-alone unit. The maximum number of Slave controllers in a subnet is 9. On Slave controllers, the parameter must be left at 0.

MODIFY PARAMETERS FROM CONTROL UNIT ADMINISTRATOR CAREL MPX Basic :

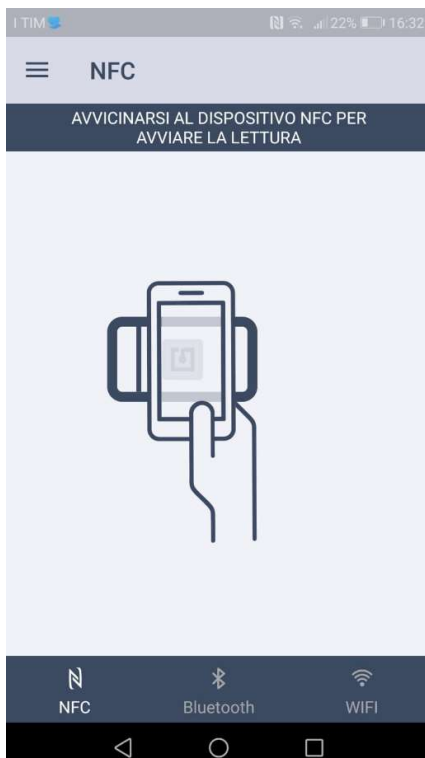
Download the app “APPLICA”:



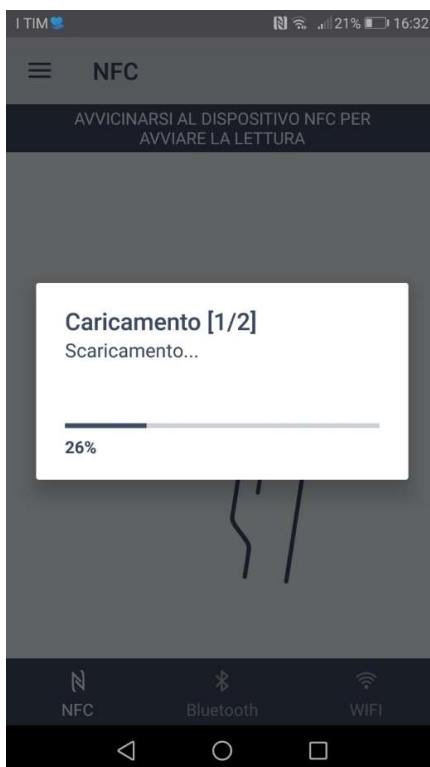
Choose the type of connection to use (for new model Basic use NFC):



Move the phone close to the control unit, until you touch the control unit display:



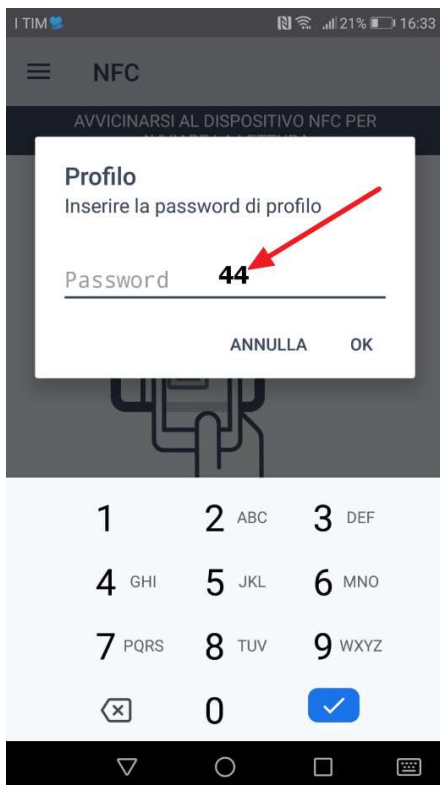
Once connected the system will start downloading data:



Choose the type of profile to use (select Manufacturer):



Insert password from administrator (44):



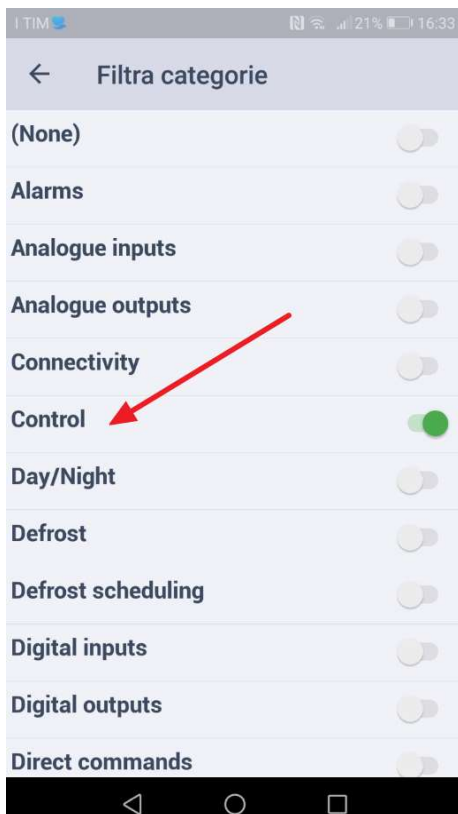
Select Configuration:



To simplify the search for the desired parameter you can filter the categories:



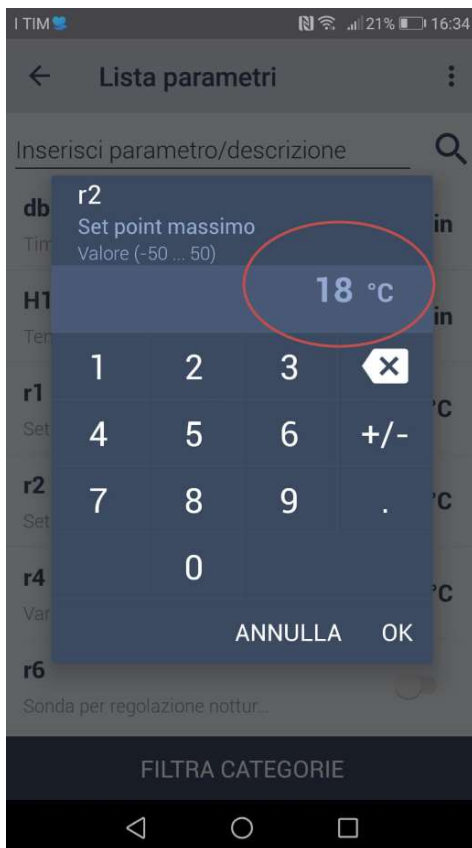
Select Control to change the temperature parameters Max e Min:



The parameter to change the maximum temperature is **R2**:



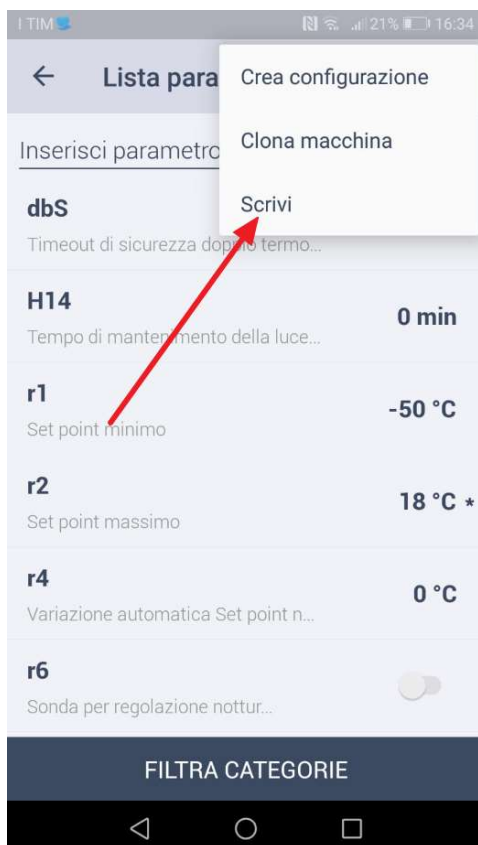
Maximum set 18°C (66°F):



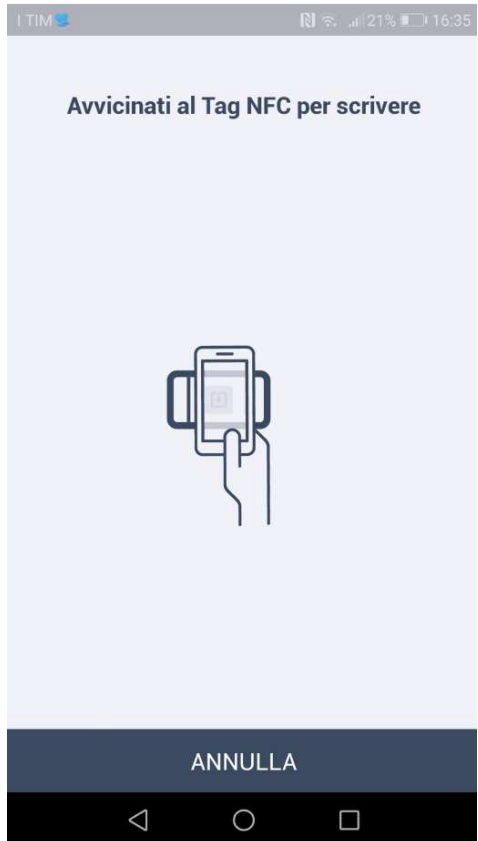
Press OK and select the icon at the right top:



Selec "write":



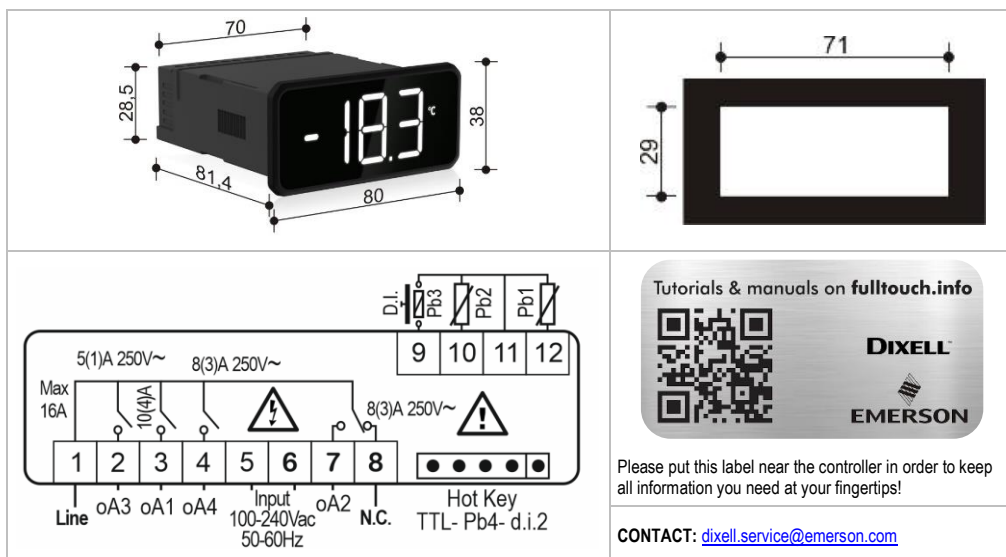
After saving select "write", move the phone closer to the control unit display until you touch the screen



Once this procedure has been performed, it will be possible to set the SET temperature up to 18°C (66°F).

All this can be done using the keypad of the control unit (see programming file Edit SET MPXCarel-ENG).

FULL TOUCH - XR70T



SAFETY INFO

- This manual is part of the product and should be kept near the instrument for easy and quick reference.
- The instrument shall not be used for purposes different from those described hereunder. It cannot be used as a safety device.
- Dixell Srl reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.
- In case of failure or faulty operation, contact the local distributor or "Dixell S.r.l." with a detailed description of the fault.
- The instrument must not be opened.
- Check the application limits and the correct power supply voltage before proceeding.
- Do not expose to water or moisture: use the controller only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to avoid condensation
- Warning: disconnect the power supply and all other electrical connections before any kind of maintenance.
- Observe the maximum current value which can be applied to each relay (see Technical Data).
- Ensure that the wires for probes, loads and the power supply are separated and far enough from each other, without crossing or intertwining.

USER INTERFACE

SCREEN	APPEARANCE	SCREEN	APPEARANCE
Home		Info	
Virtual Keyboard		Programming Mode	
Parameter Menu		Set Point Menu	

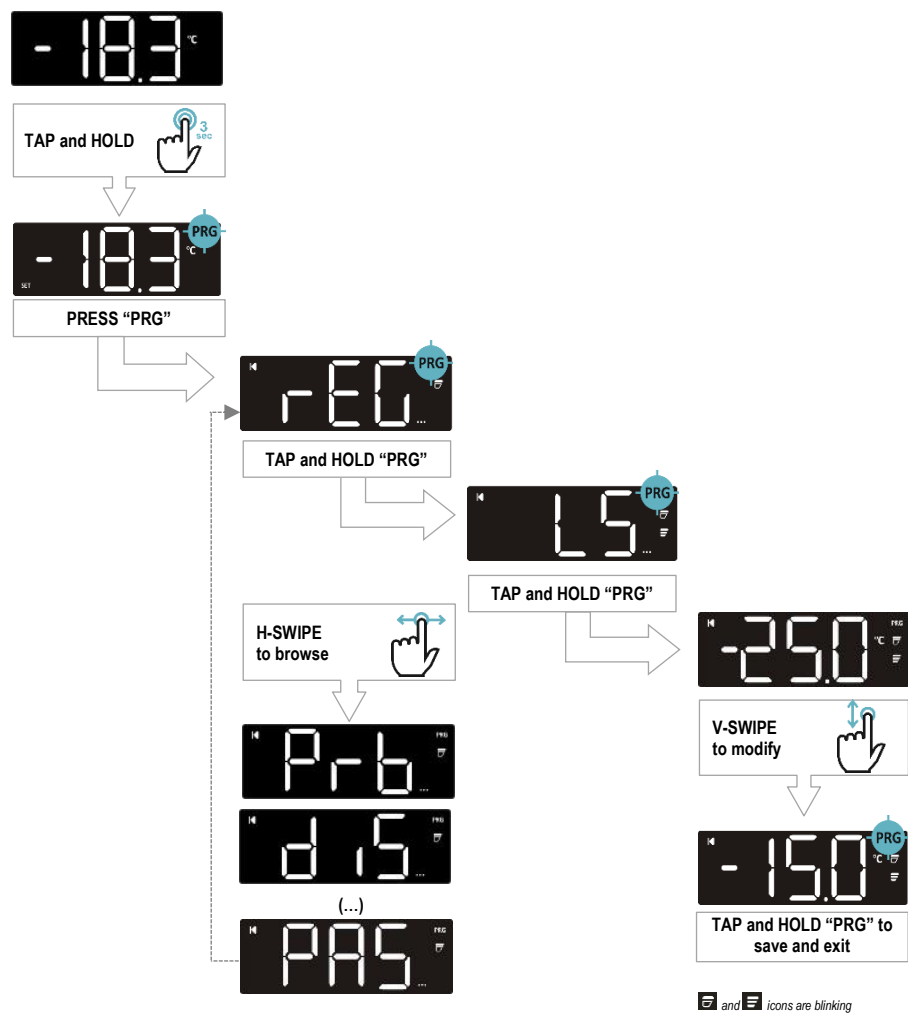
SCREEN NAME	DESCRIPTION
Home	This screen shows temperature value, measurement unit and active alarms only. This is the first screen after power on or after exit from other status.
Virtual Keyboard	This screen shows available functions. Activated function will blink when this screen is visualized.
Info	This screen shows activated functions and regulation outputs (compressor, ventilators)
Programming Mode	This screen enables the modification of the Set point or parameters.
Parameter Menu	These screens enable the modification of all parameter values.
Set Point Menu	This screen enables the modification of the Set Point value.

USER INTERACTION

HOME NAVIGATION	PROG MENU ACTIVATION	SET POINT MODIFICATION	PROG MENU NAVIGATION
H-SWIPE	TAP and HOLD	TAP and HOLD on SET	TAP and HOLD on PRG
H-SWIPE			
H-SWIPE			

GESTURE	HOW-TO	DESCRIPTION
ONE TAP	Press a specific area of the screen with a finger for 1 sec	Switch ON / Switch OFF: when in Virtual Keyboard, use this to turn on/off a specific function. When in Programming mode, use this to select a parameter or a parameter value.
TAP and HOLD	Press any place of the screen with a finger for 3 sec	Enter / Save: use this to enter Programming mode or Parameter menu and to save modifications. When in Virtual Keyboard, use this on the "ONOFF" to switch OFF and ON the device.
H-SWIPE	Drag a finger across the screen, from left to right or from right to left	Browse: use horizontal swipe (right to left or left to right) to browse through HOME, Virtual Keyboard and Info View. When in programming mode: use horizontal swipe to browse through parameter menu.
V-SWIPE	Drag a finger across the screen, from top to bottom or from bottom to top (overlapping only one of the digits)	Modify: use vertical swipe (from top to bottom or bottom to top) to change a parameter value.

PROGRAMMING MENU



TECHNICAL SPECIFICATIONS

FEATURES	DESCRIPTION			
Housing	Self-extinguishing PC			
Dimensions	Front fascia 38x80 mm; case depth 81mm			
Mounting	Panel mounting, 71x29mm panel cut-out			
Protection	Body: IP20; Front: IP66			
Power Supply	230Vac ±10%, 50/60Hz; 110Vac ±10%, 50/60Hz; 100 to 240VAC±10%, 50/60Hz; 12VAC ±10% Overvoltage category II			
Rated Power	12VAC: 3VA; 110VAC: 4VA; 230VAC: 4VA; 100-240VAC: 3VA			
Display	White display, LED type, 3 digits with decimal point and multi-function icons			
Terminal blocks	Plug-in or screw terminal block, wire section between 0,5 and 2,5 mm2 Max tightening force: 0.3 N/m for 3,5mm pitch, 0.4 N/m for 5,0mm pitch			
Environment	Pollution degree 2, non-condensing humidity			
Operating Conditions	IEC: 0T60°C; 20-85 rH% (non-condensing humidity) UL: -20T60°C; 20-85 rH% (non-condensing humidity)			
Storage Conditions	-25T60°C; 20-85 rH% (non-condensing humidity)			
Resistance to Heat and Fire	UL-V0			
Measurement range	NTC: -40T110°C; resolution 0.1°C or 1°C (selectable) PT1000: -100T150°C; resolution 0.1°C or 1°C (selectable) PTC: -50T150°C; resolution 0.1°C or 1°C (selectable)			
Accuracy	±1% compared to the full scale			
Inputs	Up to 4 NTC, PTC or PT1000 (configurable) Up to 2 voltage free contacts			
Relay Outputs		Nominal	UL	IEC
	oA1	SPST 16A, 250VAC	10FLA, 60LRA, 30k cycles Pilot Duty B300, 6k cycles	10(4)A, 250 Vac, 50-60 Hz, 100K cycles
	oA2	SPDT 8A, 250VAC	½ hp, 240 Vac, 30k cycles Pilot Duty B300, 30k cycles	8(3)A, 230 Vac, 50-60 Hz, 50K cycles
	oA3	SPST 8A, 250VAC	½ hp, 240 Vac, 30k cycles Pilot Duty B300, 30k cycles	8(3)A, 230 Vac, 50-60 Hz, 50K cycles
	oA4	SPST 5A, 250VAC	1.9FLA, 11.4LRA, 30k cycles Pilot Duty B300, 30k cycles	5(1)A, 250 Vac, 50-60 Hz, 50K cycles
	Action type 1B			
Real Time Clock	Data maintenance up to 6 months with lithium battery			
HOT KEY port	MAX voltage allowed is 5 VDC. DO NOT CONNECT ANY EXTERNAL POWER SUPPLY			
Approvals	R290/R600a: relays tested according to IEC EN60079:0 and IEC EN60079:15 IEC60730-2-9: 2008 (Third Edition) and Am.1:2011 in conjunction with IEC 60730-1:2010 (Fourth Edition) UL 60730-1, 5th edition, dated August 03, 2016 UL 60730-2-9, 4th edition, dated February 14, 2017 CAN/CSA-E60730-1, 5th edition, dated November 01, 2017 CAN/CSA-E60730-2-9:15 3rd edition, dated September, 2015			

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