

LOW TEMPERATURE DISPLAY CABINET TORTUGA

L 1200





CIERTED ®

E Maintenance And Use Manual

CIAM spa

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1. INTRODUCTION

PRESENTATION

Dear Client,

Ciam Group 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 module has been manufactured for GELATO products (CAKES) 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 : Electro-magnetic Compatibility
- Directive N° 2004/108/CE
- Directive N° 97/23/EC (P.E.D.)
- : European Pressure Equipment : Realization of Electric Installations
- Norm CEI 17-13/1 (EN 60439/1)
 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
- 1.4. RESPONSIBILITY

CIAM SpA 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 CIAM SpA 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.

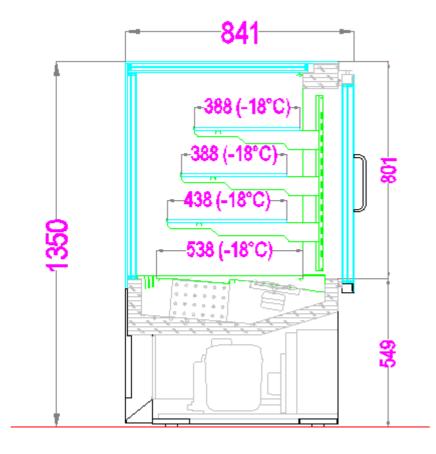
2. DISPLAY CASE DATA PLATE

2.1. DATA PLATE CONTENT

	A (PG) ITALY	<u>O</u>			E		
/lodel	1		Prod	uction	Date		
Serial No.	2			3			
₫ 4 V /	5 ph/ 6 Hz	l		14	W/A		
Type	7		4	15	W		
No.	8		₩•	16	W		
Gas 9	10 Kg	CI. 11	*	17	W		
) max 12	psig	Pmin	13	psig			
Commercial na						10.	Deferencet weight
Identification n Production date						10. 11.	Refrigerant weight Climatic rate (Cl.3 = +25°C/60% U.R.; Cl. 4 = +30°C/55% U.R.)
Voltage	-					12.	Test pressure – system high pressure side
Phases						13.	Test pressure – system low pressure side
Frequency						14.	Nominal power/current absorbed during defrost
Compressor ty						15.	Max. power absorbed during defrost
Number of com	ipressor e					16. 17.	Nominal power absorbed by heating elements (only if higher than 100W) Lighting nominal power



3. TECHNICAL DRAWING





4. INSTALLATION

4.1. MACHINE HANDLING

- The pastry display cabinet handling, from the truck to the final place, has to be made by any truck-lift, which is proper to its weight. The display cabinet shall be always balanced in order to ensure personnel integrity and machine functionality
- The cabinet 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 display cabinet in order to not damage its frame, especially its glasses.
- > Do not drag the display cabinet on the floor and do not push it on the upper glasses.

4.2. STOCK OF THE DISPLAY CABINET

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

4.3. PACKAGING REMOVE

Before getting the display cabinet 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.**

4.4. DISPLAY CABINET POSITION

The refrigerated display cabinet 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 display cabinet on the horizontal position in order to guarantee a perfect defrosting water drain and avoid boring compressor noises.
- The display cabinet 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 display cabinet 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 display cabinet has not to be placed close any heat source as heaters, ovens, etc.
- The display cabinet 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.

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4.5. REMOTE CONDENSING UNIT PLACING

- According to the model of ice cream display cabinet you have No.1 or No.2 internal, or remote, condensing units.
- > The remote condensing unit has to be checked by specialised technicians and according to the required refrigerating power and their position respect the cabinet.
- > 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.4.5)
- 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 cabinets 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 display cabinet 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.

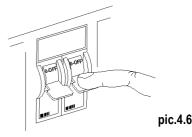
4.6. ELECTRICAL CONNECTION

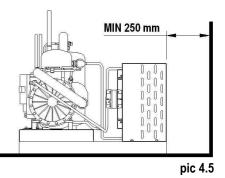
- Before proceeding with electrical connection, be sure that the available electric power and tension are what is required on technical label of the cabinet.
- The electric connection has to be made by qualified personnel and following manufacturer's instructions taking into
- consideration the relevant norms in force.
- ➤ The display cabinet has not a general switch, so it is necessary an omni polar switch, with a minimum distance among the contacts of 3mm.
- It is obligatory that the display cabinet 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!

The display cabinet has no main switch breaking both the phases. Before any maintenance operation disconnect the electrical supply of the display cabinet (see label on the rear of the display cabinet). (pic.4.6).





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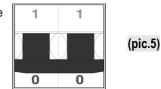


5. ROUTINE MAINTENANCE AND PERIODIC CHECKS

> These kinds of operations are at client's expenses.

- In case some malfunctioning of the unit are observed, please make sure this is not due to non-maintenance reasons, before you apply to qualified assistance.
- > The accurate and periodic cleaning of the unit will reduce the risk of damages to the unit itself and to the products stored within.
- See following tab for reference.

ATTENTION ! Before starting any maintenance and cleaning operation make sure you operate on the main switch in order to deactivate tension (pic. 5)



OPERATION	DESCRIPTION	FREQUENCY
Surfaces' cleaning	 Wash exclusively with warm water and neutral soup; rinse abundantly and wipe off with a soft cloth. Do not use abrasive products 	weekly
Plastic surfaces' cleaning	 Wash exclusively with warm water and neutral soup; rinse abundantly and wipe off with a soft cloth. Do not use alcohol, acetone and any solvent that might spoil the look and structure of the material. 	weekly
Glass surfaces' cleaning	Use only specific products for glass cleaning	
	Using water alone might lead to calcareous deposits on the glass surfaces	daily
Wooden surfaces' cleaning	Use exclusively a wet cloth.	weekly
Additional defrost	 Under particular conditions of temperature and humidity, the frost that normally forms on the evaporator and fans might increase in volume, so leading to a faulty functioning the unit. If these conditions should last, the assistance of a qualified technician shall be needed. Waiting for this service, it is suggested to operate one or more defrost cycles (despite the damages this might cause to the stored product) 	Waiting for qualified assistance
	In order to obtain the best performance from the cooling system, we suggest to operate an extended defrost cycle.	
Periodic defrost	 Before you do that, please remove displayed products from inside the cabinet; always operate an additional defrost cycle in order to remove from the evaporator the largest possible amount of frost or ice. Turn the main switch off for 5 hours (min.) 	max. 15 DAYS
	Before re-starting the unit, make sure that frost has totally melted and wipe carefully.	
	ATTENTION! DO NOT CLEAN THE UNIT WITH WATER JETS	

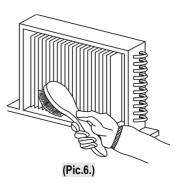
MAINTENANCE OPERATIONS AND THIR FREQUENCY. A SUMMARY TAB.

6. EXTRAORDINARY MAINTENANCE

This type of operation has to be made by qualified technician only.

ATTENTION! Before operating any maintenance, make sure the tension is deactivated. (pic.11).

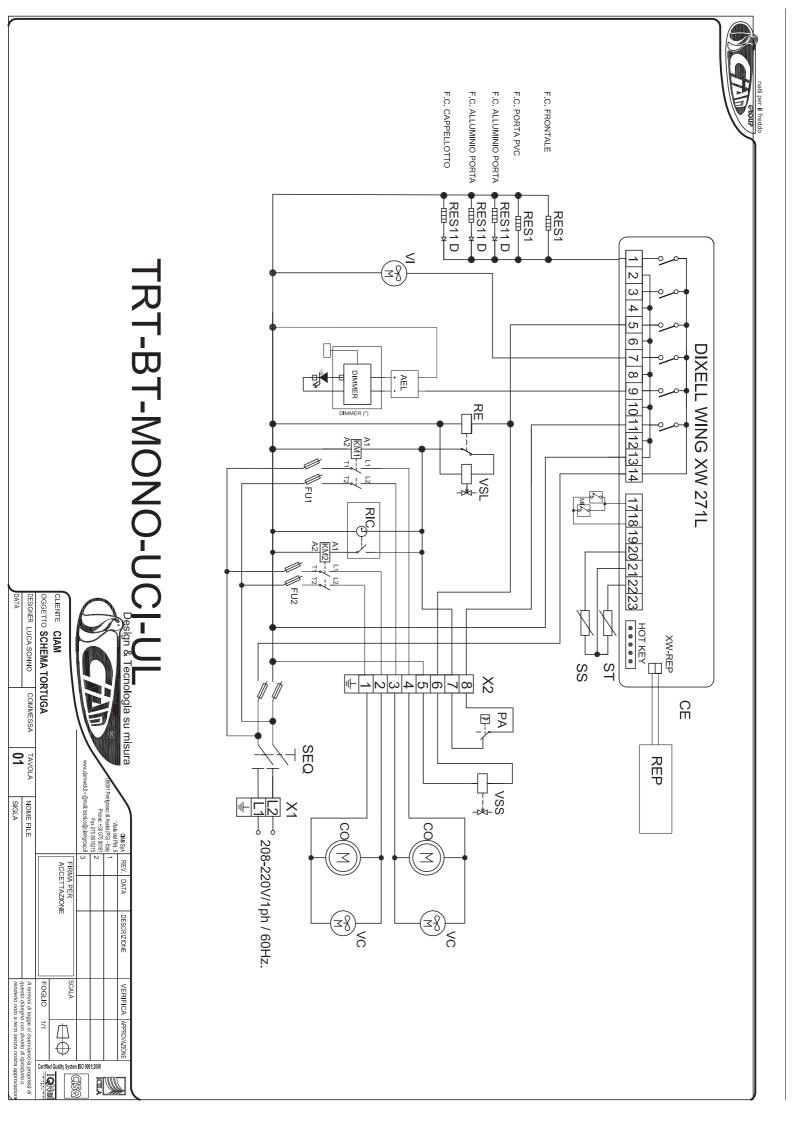
- > Lamps' replacement: qualified technician needed.
- Air condenser cleaning: qualified technician needed. When the fan is switched off you can clean the condenser with a compressed air jet. Never use metallic brushes. Use protection gloves (pic.6).

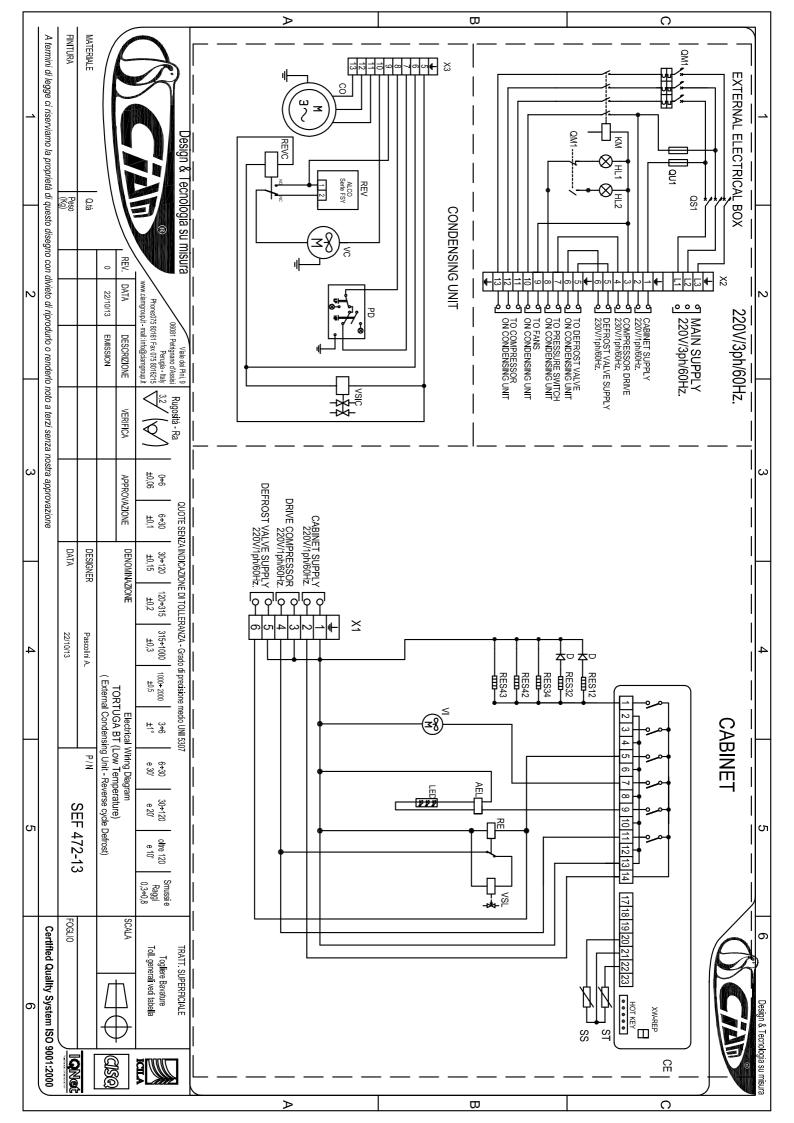




REFRIGERATION AND ELECTRICAL SYSTEM CABLE CONNECTION GUIDE

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
СО	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
	PHOTOCELL EMITTER		
EM		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
I	LIGHTING SWITCH	SAA	CONDENSER PROBE
	SIGHT GLASS	SC SD	TERMINAL BOX
	WARM SHELF SWITCH	SD SDC	
IMC			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
		STR	
MUC	CONDENSING UNIT ELECTRIC CONNECTIONS		LIGHTING STARTER
PA	HIGH PRESSURE CONTROL	SU	HUMIDITY PROBE
PD	HIGH-LOW PRESSURE CONTROL	Т	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	ТР	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
RES2 RES3		TS	
	RIGHT/LEFT GLASS HEATING ELEMENT		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
RES17 RES18	DEFROSTING WATER DRAIN HEATING ELEMENT	VSL	LIQUID SOLENOID VALVE
		VSS	
RES19	RING FRAME HEATING ELEMENT		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	1	
RES26	FRONT GLASS LATERAL/LOWER FRAME HEATING		
	ELEMENT		
RES27	FRONT GLASS LATERAL FRAME HEATING ELEMENT	1	
L		1	





Dixell

Installing and Operating Instructions

WING

XW270L - XW271L

1. GENERAL WARNING

PLEASE READ BEFORE USING THIS MANUAL

- 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.
- Check the application limits before proceeding.

1.2 A SAFETY PRECAUTIONS

- Check the supply voltage is correct before connecting the instrument.
- Do not expose to water or moisture: use the controller only within the operating limits avoiding sudden
 temperature changes with high atmospheric humidity to prevent formation of condensation
- Warning: disconnect all electrical connections before any kind of maintenance.
- Fit the probe where it is not accessible by the End User. The instrument must not be opened.
 In case of failure or faulty operation send the instrument back to the distributor or to "Dixell s.r.l." (see
- address) with a detailed description of the fault.
- Consider the maximum current 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.
- In case of applications in industrial environments, the use of mains filters (our mod. FT1) in parallel with
 inductive loads could be useful.

2. GENERAL DESCRIPTION

Models XW270L and XW271L, 38x185 mm format, are microprocessor based controllers suitable for applications on medium or low temperature refrigerating units. They are provided with six relay outputs to control compressor, defrost - which can be either electrical or hot gas - the evaporator fans, the lights, the alarm and an auxiliary output. In XW271L the auxiliary output is configured as anti-condensing heater. They are also provided with three NTC probe inputs, one for temperature control, one to control the defrost end

temperature of the evaporator and the third, optional, for the display. There are two digital inputs (free contact) for the door switch and configurable by parameter. The standard TTL output allows the user to connect, by means of a TTL/RS485 external module, a **ModBUS-**

The standard TL output allows the user to connect, by means of a TL/KS485 external module, a woodOS-RTU compatible monitoring system and to programme the parameter list with the "Hot Key". An optional output for remote display "XW-REP" is available.

3. CONTROLLING LOADS

3.1 THE COMPRESSOR

The regulation is performed according to the temperature measured by the thermostat probe with a positive differential from the set point: if the temperature increases and reaches set point plus differential the compressor is started and then turned off when the temperature reaches the set point value again. In case of fault in the thermostat probe the start and stop of the compressor are timed through parameters

3.2 FAST FREEZING

When defrost is not in progress, it can be activated the keypad by holding the A key pressed for about 3 seconds. The compressor operates in continuous mode for the time set through the "CCt" parameter. The cycle can be terminated before the end of the set time using the same activation key, A for about 3 seconds.

3.3 DEFROST

"COn" and "COF"

Three defrost modes are available through the "tdF" parameter: defrost with electrical heater, hot gas or thermostatic defrost. The defrost interval is control by means of parameter "EdF": (EdF=in) the defrost is made every "IdF" time, (EdF=Sd) the interval "IdF" is calculate through Smart Defrost algorithm (only when the compressor is ON and the evaporator temperature is bigger than "SdF" parameter). At the end of defrost the drip time is controlled through the 'Edf' parameter.

3.4 CONTROL OF EVAPORATOR FANS

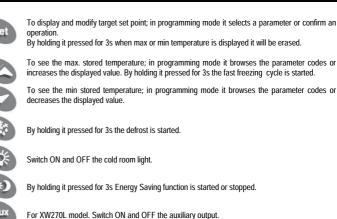
- The fan control mode is selected by means of the "FnC" parameter
- FnC=C-n fans will switch ON and OFF with the compressor and not run during defrost:;
- $\label{eq:FnC=C-y} \textbf{FnC=C-y} \quad \textbf{fans will run continuously, but not during defrost}$
- After defrost, there is a timed fan delay allowing for drip time, set by means of the "Fnd" parameter. FnC=O-n fans will switch ON and OFF with the compressor and run during defrost;
- **FnC=O-y** fans will run continuously also during defrost
- ino-o-y ians will run continuously also during delfost

An additional parameter "FSt" provides the setting of temperature, detected by the evaporator probe, above which the fans are always OFF. This can be used to make sure circulation of air only if his temperature is lower than set in "FSt".

3.5 AUXILIARY OUTPUT

The auxiliary output is switch ON and OFF by means of the corresponding button on the keyboard. The auxiliary output of the XW271L model controls the anti-condensing heater and it is automatically activated if the room temperature is lower than the "SAA" parameter.





For XW271L model. Switch ON and OFF the anti-condensing heater output.

Switch ON and OFF the instrument.

KEY COMBINATIONS



4.1 USE OF LEDS

Each LED function is described in the following table.	
--	--

LED	MODE	Function
淋	ON	The compressor is running
*	FLASHING	- Programming Phase (flashing with LED 🍫) - Anti-short cycle delay enabled
\$	ON	The fan is running
\$	FLASHING	Programming Phase (flashing with LED 🔆)
漤	ON	The defrost is enabled
懋	FLASHING	Drip time in progress
(لله)	ON	The Fast Freezing cycle is enabled
(!))	ON	 ALARM signal In "Pr2" indicates that the parameter is also present in "Pr1"
(† † †	ON	(Present only in 'XW271L) The Anti-condensing heater relay (Aux) is ON.

Function of the LEDs placed on the left top side of buttons:

BUTTON MODE		FUNCTION		
SET	FLASHING	The Set point is displayed and it can be modified		
SET	FAST FLASHING	The Energy Saving is enabled		
DEFROST	ON	The Manual Defrost is activated		
ENERGY SAVING	ON	The Energy Saving is enabled		
LIGHT	ON	The Light is ON		
AUX	ON	The Auxiliary output is ON (XW270L)		
HEATER	ON	The Anti-condensing heater is ON (XW271L)		
ON/OFF	ON	The instrument is OFF		

4.2 HOW TO SEE THE MIN TEMPERATURE

- Press and release the very
 - 2. The "Lo" message will be displayed followed by the minimum temperature recorded.
 - 3. By pressing the \checkmark key or waiting for 5s the normal display will be restored.

4.3 HOW TO SEE THE MAX TEMPERATURE

- 1.
- 1m 2

4.4 HOW TO RESET THE MAX AND MIN TEMPERATURE RECORDED

Press and release the A key.

To reset the stored temperature, when max or min temperature is displayed :

Press SET key until "rST" label starts blinking.

N.B. After the installation RESET the temperature stored .

HOW TO SEE AND MODIFY THE SET POINT

Push and immediately release the SET key: the display will show the Set point value;
 The SET LED start blinking;

- To change the Set value push the \checkmark or \checkmark arrows within 10s.
- To memorise the new set point value push the SET key again or wait 10s.

Installing and Operating Instructions

TO START A MANUAL DEFROST

Pur Push the DEF key for more than 2 seconds and a manual defrost will start

TO ENTER IN PARAMETERS LIST "PR1"

To enter the parameter list "Pr1" (user accessible parameters) operate as follows:



1. Enter the Programming mode by pressing the Set and DOWN key for few seconds (seconds (seconds (seconds).

The instrument will show the first parameter present in "Pr1"

TO ENTER IN PARAMETERS LIST "PR2"

- To access parameters in "Pr2"
- Enter the "Pr1" level.
- Select "Pr2" parameter and press the "SET" key. 2 3.
- The "PAS" flashing message is displayed, shortly followed by "0 - " with a flashing zero. Use \checkmark or \checkmark to input the security code in the flashing digit; confirm the figure by pressing "SET". The 4. security code is "321".
- If the security code is correct the access to "Pr2" is enabled by pressing "SET" on the last digit. 5.

Another possibility is the following: after switching ON the instrument the user can push Set and DOWN keys within 30 seconds

NOTE: each parameter in "Pr2" can be removed or put into "Pr1" (user level) by pressing "SET" + ▼. When a parameter is present in "Pr1" LED ((1)) is on.

HOW TO CHANGE THE PARAMETER VALUE

- 1. Enter the Programming mode.
- Select the required parameter with A or V 2.
- 3. Press the "SET" key to display its value (starts blinking)
- Use ▲ or ▼ to change its value.

5. Press "SET" to store the new value and move to the following parameter.

To exit: Press SET + UP or wait 15s without pressing a key.

NOTE: the new programming is stored even when the procedure is exited by waiting the time-out.

HOW TO LOCK THE KEYBOARD

- 1. Keep the \checkmark and \checkmark keys pressed together for more than 3 s the \checkmark and \checkmark keys. 2
 - The "POF" message will be displayed and the keyboard is locked. At this point it is only possible the viewing of the set point or the MAX o Min temperature stored and to switch ON and OFF the light, the auxiliary output and the instrument.

TO UNLOCK THE KEYBOARD

Keep the ▲ and ▼ keys pressed together for more than 3s.

ON/OFF FUNCTION

Im

By pushing the ON/OFF key, the instrument shows "OFF" for 5 sec. and the ON/OFF LED is switched ON

During the OFF status, all the relays are switched OFF and the regulations are stopped; if a monitoring system is connected, it does not record the instrument data and alarms N.B. During the OFF status the Light and AUX buttons are active.

TO SEE THE PROBE VALUES

- 1 Enter in "Pr2" level.
- 2 Select "Prd" parameter with A or V
- 3 Press the "SET" key to display "Pb1" label alternate with Pb1 value.
- 4. Use A and V keys to display the other probe values.
- 5. Press "SET" to move to the following parameter.

PARAMETER LIST

- REGULATION
- Differential: (0,1÷25,5°C; 1÷45°F): Intervention differential for set point, always positive. Compressor Hy Cut IN is Set Point Plus Differential (Hy). Compressor Cut OUT is when the temperature reaches the set point
- Minimum set point limit: (-50,0°C+SET; -58°F÷SET) Sets the minimum acceptable value for the set 15 point.
- US Maximum set point limit: (SET+110°C; SET+230°F) Set the maximum acceptable value for set point.
- Outputs activation delay at start up: (0=255 min) This function is enabled at the initial start up of the OdS instrument and inhibits any output activation for the period of time set in the parameter. (AUX and Light can work)
- AC Anti-short cycle delay: (0÷30 min) interval between the compressor stop and the following restart. CCt Thermostat override: (Omin + 23h 50min) allows to set the length of the continuous cycle. Can be used,
- for instance, when the room is filled with new products. Con Compressor ON time with faulty probe: (0+255 min) time during which the compressor is active in case
- of faulty thermostat probe. With COn=0 compressor is always OFF. COF Compressor OFF time with faulty probe: (0+255 min) time during which the compressor is off in case of
- faulty thermostat probe. With COF=0 compressor is always active.

DISPLAY

- Temperature measurement unit: °C = Celsius; °F = Fahrenheit . When the measurement unit is CF changed the SET point and the values of the regulation parameters have to be modified
- Resolution (for °C): (in = 1°C; de = 0,1°C) allows decimal point display. rES
 - $de = 0.1^{\circ}C$ in = 1 °C

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- Local display : select which probe is displayed by the instrument:
 - P1 = Thermostat probe P2 = Evaporator probe
 - P3 = auxiliary probe
 - 1r2 = difference between P1 and P2 (P1-P2)
- Red Remote display : select which probe is displayed by the remote display (XW-REP)
 - P1 = Thermostat probe
 - P2 = Evaporator probe P3 = auxiliary probe
 - 1r2 = difference between P1 and P2 (P1-P2)

DEFROST tdF Defrost type:

- rE = electrical heater (Compressor OFF)
- rT = thermostat defrost. During the defrost time "MdF", the heater switches On and OFF depending on the evaporator temperature and "dtE" value.
- in = hot gas (Compressor and defrost relays ON)
- EdF Defrost mode:
 - in = interval mode. The defrost starts when the time "Idf" is expired.

Sd = Smartfrost mode. The time IdF (interval between defrosts) is increased only when the compressor is running (even non consecutively) and only if the evaporator temperature is less than the value in "SdF" (set point for SMARTFROST).

- Set point for SMARTFROST: (-30+30 °C/ -22+86 °F) evaporator temperature which allows the IdF SdF counting (interval between defrosts) in SMARTFROST mode
- **dtE Defrost termination temperature:** (-50,0+110,0°C; -58+230°F) (Enabled only when the evaporator probe is present) sets the temperature measured by the evaporator probe which causes the end of defrost
- Interval between defrosts: (1÷120h) Determines the time interval between the beginning of two defrost IdF cycles.
- MdF (Maximum) duration of defrost: (0+255 min) When P2P = n, no evaporator probe, it sets the defrost duration, when P2P = y, defrost end based on temperature, it sets the maximum length for defrost. dFd
- Display during defrost: rt = real temperature;
 - it = temperature reading at the defrost start;
 - Set = set point;
 - dEF = "dEF" label;
 - dEG = "dEG" label;
- dAd Defrost display time out: (0+255 min) Sets the maximum time between the end of defrost and the restarting of the real room temperature display. Fdt Drain down time: (0+60 min.) time interval between reaching defrost termination temperature and the
- restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost. dPO First defrost after start-up:
 - y = Immediately;
- n = after the IdF time
- dAF Defrost delay after fast freezing: (0min÷23h 50min) after a Fast Freezing cycle, the first defrost will be delayed for this time.

FANS

- FnC Fan operating mode: C-n = running with the compressor, OFF during the defrost;
 - **C-y** = running with the compressor, ON during the defrost; **O-n** = continuous mode, OFF during the defrost;

 - **O-y** = continuous mode, ON during the defrost;
- Fnd Fan delay after defrost: (0+255 min) The time interval between the defrost end and evaporator fans start. FSt Fan stop temperature: (-50+110°C; -58+230°F) setting of temperature, detected by evaporator probe, above which the fan is always OFF.

ALARMS

dot

doA

tbA

Ot

OE

XW270L - XW271L

PROBE INPUTS

thermostat probe

evaporator probe

- ALC Temperature alarm configuration
- rE = High and Low alarms related to Set Point
- Ab = High and low alarms related to the absolute temperature.

alarm set point and fan regulation set point, always positive.

alarm signalling: the flashing message "dA" is displayed.

Buzzer and alarm relay silencing: by pushing one of the keypad buttons.

- ALU High temperature alarm setting: ALC= rE, 0 + 50°C or 90°F
- ALC= Ab. ALL ÷ 110°C or 230°F
 - when this temperature is reached and after the ALd delay time the HA alarm is enabled.

when this temperature is reached and after the ALd delay time, the LA alarm is enabled,

AFH Temperature alarm and fan differential: (0,1÷25,5°C; 1÷45°F) Intervention differential for temperature

ALd Temperature alarm delay: (0+255 min) time interval between the detection of an alarm condition and

EdA Alarm delay at the end of defrost: (0+255 min) Time interval between the detection of the temperature

nPS Pressure switch number: (0 ÷15) Number of activation of the pressure switch, during the "did" interval.

alarm condition at the end of defrost and the alarm signalling. Delay of temperature alarm after closing the door : (0+255 min) Time delay to signal the temperature

Open door alarm delay: (0+255 min) delay between the detection of the open door condition and its

Thermostat probe calibration: (-12.0+12.0°C/ -21+21°F) allows to adjust possible offset of the

Evaporator probe calibration: (-12.0+12.0°C/ -21+21°F) allows to adjust possible offsets of the

2/4

dAO Delay of temperature alarm at start-up: (0min÷23h 50min) time interval between the detection of the temperature alarm condition after the instrument power on and the alarm signalling.

- ALL Low temperature alarm setting:
 - ALC = rE , 0 + 50 °C or 90 °F ALC = Ab , - 50°C or -58°F + ALU

the corresponding alarm signalling.

alarm condition after closing the door.

before signalling the alarm event (I2F= PAL).

n= Only the Buzzer is silenced; y = Buzzer and relay are silenced.

Dixell

Installing and Operating Instructions

- Auxiliary probe calibration: (-12.0+12.0°C/ -21+21°F) allows to adjust possible offsets of the 03 evaporator prob P2P
- Evaporator probe presence: n= not present: the defrost stops only by time; y= present: the defrost stops by temperature and time. P3P
- Auxiliary probe presence: n= not present; y= present. HES Temperature increase during the Energy Saving cycle : (- $30,0^{\circ}C + 30,0^{\circ}C / -22 \div 86^{\circ}F$) sets the increasing value of the set point during the Energy Saving cycle.

DIGITAL INPUTS

odc Compressor and fan status when open doors no = normal Fan = Fan OFF CPr = Compressor OFF; F_C = Compressor and fan OFF. I1P Door switch input polarity: **CL**: the digital input is activated by closing the contact; **OP**: the digital input is activated by opening the contact. Configurable digital input polarity: I2P

- CL : the digital input is activated by closing the contact; OP : the digital input is activated by opening the contact Digital input operating mode: configure the digital input function:
- I2F EAL = generic alarm;
 - **bAL** = serious alarm mode:
 - PAL = Pressure switch;
 - dFr = Start defrost;
 - AUS = Relay AUX actuation;
 - Es = Energy Saving;
 - onF = remote On/OFF
- Time interval/delay for digital input alarm:(0+255 min.) Time interval to calculate the number of the pressure switch activation when I2F=PAL. If I2F=EAL or bAL (external alarms), "did" parameter defines the time delay between the detection and the successive signalling of the alarm.
- SAA Set Point for anti-condensing heater: (-50,0+110,0°C; -58+230°F) defines the room temperature setpoint to switch on the anti-condensing heater

OTHER

- Adr RS485 serial address (1÷247): Identifies the instrument address when connected to a ModBUS compatible monitoring system
- P۵I
- Release software: (read only) Software version of the microprocessor. Parameter table: (read only) it shows the original code of the dixel parameter map. Ptb
- Prd Probes display: (read only) display the temperature values of the evaporator probe Pb2 and the auxiliary probe Pb3.
- Access to the protected parameter list (read only) Pr2

DIGITAL INPUTS

The Wing series can support up to 2 free contact digital inputs. One is always configured as door switch, the second is programmable in seven different configurations by the "I2F" parameter

DOOR SWITCH INPUT

- It signals the door status and the corresponding relay output status through the "odc" parameters
 - no = normal (any change);
 - Fan = Fan OFF;
 - CPr = Compressor OFF;
 - F_C = Compressor and fan OFF.

Since the door is opened, after the delay time set through parameter "dOA", the alarm output is enabled and the display shows the message "dA". The alarm stops as soon as the external digital input is disabled again. During this time and then for the delay "dot" after closing the door, the high and low temperature alarms are disabled

CONFIGURABLE INPUT - GENERIC ALARM (EAL)

As soon as the digital input is activated the unit will wait for "did" time delay before signalling the "EAL" alarm message. The outputs status don't change. The alarm stops just after the digital input is de-activated

CONFIGURABLE INPUT - SERIOUS ALARM MODE (BAL)

When the digital input is activated, the unit will wait for "did" delay before signalling the "BAL" alarm message The relay outputs are switched OFF. The alarm will stop as soon as the digital input is de-activated.

CONFIGURABLE INPUT - PRESSURE SWITCH (PAL)

If during the interval time set by "did" parameter, the pressure switch has reached the number of activation of the "nPS" parameter, the "PAL" pressure alarm message will be displayed. The compressor and the regulation are stopped. When the digital input is ON the compressor is always OFF

CONFIGURABLE INPUT - START DEFROST (DFR)

It executes a defrost if there are the right conditions. After the defrost is finished, the normal regulation will restart only if the digital input is disabled otherwise the instrument will wait until the "Mdf" safety time is expired.

CONFIGURABLE INPUT - RELAY AUX ACTUATION (AUS)

This function allows to turn ON and OFF the auxiliary relay by using the digital input as external switch.

CONFIGURABLE INPUT - ENERGY SAVING (ES)

The Energy Saving function allows to change the set point value as the result of the SET+ HES (parameter) sum. This function is enabled until the digital input is activated.

CONFIGURABLE INPUT - REMOTE ON/OFF (ONF)

This function allows to switch ON and OFF the instrumen

DIGITAL INPUTS POLARITY

- The digital inputs polarity depends on "11P" and "12P" parameters
 - CL : the digital input is activated by closing the contact. OP : the digital input is activated by opening the contact

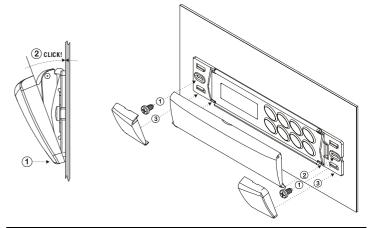
INSTALLATION AND MOUNTING

Instruments XW270L, XW271L shall be mounted on vertical panel, in a 150x31 mm hole, and fixed using two screws \varnothing 3 x 2mm. To obtain an IP65 protection grade use the front panel rubber gasket (mod. RG-L). The temperature range allowed for correct operation is 0 - 60 °C. Avoid places subject to strong vibrations, corrosive gases, excessive dirt or humidity. The same recommendations apply to probes. Let the air circulate by the cooling holes.

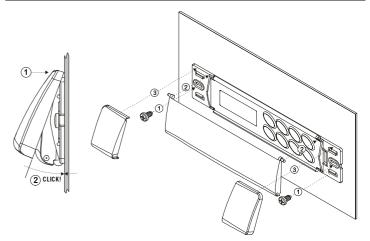
CUT OUT



MOUNTING WITH KEYBOARD COVER OPENING DOWNWARD



MOUNTING WITH KEYBOARD COVER OPENING UPWARD



ELECTRICAL CONNECTIONS

The instruments are provided with screw terminal block to connect cables with a cross section up to 2,5 mm² for the digital and analogue inputs. Relays and power supply have a Faston connection (6,3mm). Heat-resistant cables have to be used. Before connecting cables make sure the power supply complies with the instrument's requirements. Separate the probe cables from the power supply cables, from the outputs and the power connections. Do not exceed the maximum current allowed on each relay, in case of heavier loads use a suitable external relay.

N.B. Maximum current allowed for all the loads is 20A

PROBE CONNECTIONS

The probes shall be mounted with the bulb upwards to prevent damages due to casual liquid infiltration. It is recommended to place the thermostat probe away from air streams to correctly measure the average room temperature. Place the defrost termination probe among the evaporator fins in the coldest place, where most ice is formed, far from heaters or from the warmest place during defrost, to prevent premature defrost termination.

TTL SERIAL LINE

The TTL connector allows, by means of the external module TTL/RS485, to connect the unit to a network line ModBUS-RTU compatible as the dixell monitoring system XJ500 (Version 3.0). The same TTL connector is used to upload and download the parameter list of the "HOT KEY"

Installing and Operating Instructions

USE OF THE PROGRAMMING "HOT KEY

The Wing units can UPLOAD or DOWNLOAD the parameter list from its own E2 internal memory to the "Hot Key" and vice-versa

DOWNLOAD (FROM THE "HOT KEY" TO THE INSTRUMENT)

- Turn OFF the instrument by means of the ON/OFF key, remove the TTL serial cable if present, insert the "Hot Key" and then turn the Wing ON.
- Automatically the parameter list of the "Hot Key" is downloaded into the Wing memory, the "DoL" message is blinking. After 10 seconds the instrument will restart working with the new parameters. 2
- Turn OFF the instrument remove the "Hot Key", plug in the TTL serial cable, then turn it ON again.

At the end of the data transfer phase the instrument displays the following messages:

"end " for right programming. The instrument starts regularly with the new programming.

"err" for failed programming. In this case turn the unit off and then on if you want to restart the download again or remove the "Hot key" to abort the operation.

UPLOAD (FROM THE INSTRUMENT TO THE "HOT KEY")

- Turn OFF the instrument by means of the ON/OFF key and remove the TTL serial cable if present; then turn it ON again
- When the Wing unit is ON, insert the "Hot key" and push A key; the "uPL" message appears. 2
- Push "SET" key to start the UPLOAD; the "uPL" message is blinking. 3.
- 4. Turn OFF the instrument remove the "Hot Key", plug in the TTL serial cable, then turn it ON again. At the end of the data transfer phase the instrument displays the following messages:
- "end " for right programming.

"err" for failed programming. In this case push "SET" key if you want to restart the programming again or remove the not programmed "Hot key".

ALARM SIGNALS

Message	Cause	Outputs
"P1"	Thermostat probe failure	Alarm output ON; Compressor output according to parameters "COn" and "COF"
"P2"	Evaporator probe failure	Alarm output ON; Other outputs unchanged
"P3"	Auxiliary probe failure	Alarm output ON; Other outputs unchanged
"HA"	Maximum temperature alarm	Alarm output ON; Other outputs unchanged
"LA"	Minimum temperature alarm	Alarm output ON; Other outputs unchanged
"EE"	Data or memory failure	Alarm output ON; Other outputs unchanged
"dA"	Defrost timeout alarm	Alarm output ON; Other outputs unchanged
"dAL"	Door switch alarm	Alarm output ON; Other outputs unchanged
"EAL"	External alarm	Alarm output ON; Other outputs unchanged
"BAL"	Serious external alarm	Alarm output ON; Other outputs OFF
"PAL"	Pressure switch alarm	Alarm output ON; Other outputs OFF

The alarm message is displayed until the alarm condition is recovery.

All the alarm messages are showed alternating with the room temperature except for the "P1" which is flashing. To reset the "EE" alarm and restart the normal functioning press any key, the "rSt" message is displayed for about 3s

SILENCING BUZZER / ALARM RELAY OUTPUT

If "tbA = y", once the alarm signal is detected the buzzer and the relay are is silenced by pressing any key. If "tbA = n", only the buzzer is silenced while the alarm relay is on until the alarm condition recovers

"EE" ALARM

The dixel instruments are provided with an internal check for the data integrity. Alarm "EE" flashes when a failure in the memory data occurs. In such cases the alarm output is enabled.

ALARM RECOVERY

Probe alarms : "P1" (probe1 faulty), "P2" and "P3"; they automatically stop 10s after the probe restarts normal operation. Check connections before replacing the probe

Temperature alarms "HA" and "LA" automatically stop as soon as the thermostat temperature returns to normal values or when the defrost starts.

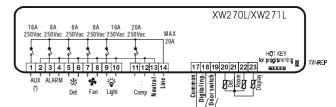
Door switch alarm "dA" stop as soon as the door is closed. External alarms "EAL", "BAL" stop as soon as the external digital input is disabled "PAL" alarm is recovered by switching OFF the instrument.

TECHNICAL DATA Housing: self extinguishing ABS Case: facia 38x185 mm; depth 76mm Mounting : panel mounting in a 150x31 mm panel cut-out with two screws. \varnothing 3 x 2mm. Distance between the holes 165mm Protection: IP20. Frontal protection: IP65 with frontal gasket mod RG-L. (optional) Connections: Screw terminal block ≤ 2.5 mm² heat-resistant wiring and 6,3mm Faston Power supply: 230Vac or. 110Vac \pm 10% Power absorption: 7VA max. Display: 3 digits, red LED, 14,2 mm high Inputs: 3 NTC probes Digital inputs: 2 free voltage Relay outputs: Total current on loads MAX. 20A compressor: relay SPST 20(8) A, 250Vac light: relay SPST 16(3) A, 250Vac fans: relay SPST 8(3) A, 250Vac defrost: relay SPST 8(3) A, 250Vac alarm: SPST relay 8(3) A, 250Vac auxiliary: SPST relay 16(3) A, 250Vac Other output : alarm buzzer Serial output : TTL standard Communication protocol: Modbus - RTU Data storing: on the non-volatile memory (EEPROM). Kind of action: 1B. Pollution grade: normal Software class: A. Operating temperature: 0+60 °C. Storage temperature: -25÷60 °C. Relative humidity: 20+85% (no condensing) Measuring and regulation range: NTC probe: -40÷110°C (-58÷230°F) Resolution: 0,1 °C or 1°C or 1 °F (selectable). Accuracy (ambient temp. 25°C): ±0,5 °C ±1 digit

CONNECTIONS

XW270L/XW271L

(*) In XW271L, AUX is an anticondensing heater



DEFAULT SETTING VALUES

Labe	l Name	Range	Default	Le	vel
	REGULATION		°C/°F	XW270L	XW271L
Set	Set point	LS÷US	-5	Pr1	Pr1
Hy	Differential	0,1÷25,5 °C / 1÷45°F	2	Pr1	Pr1
LS	Minimum set point	-50,0°C+SET / -58°F+SET	-30	Pr2	Pr2
US	Maximum set point	SET ÷ 110°C / SET ÷ 230°F	20	Pr2	Pr2
OdS	Outputs activation delay at start up	0÷255 min.	1	Pr2	Pr2
AC	Anti-short cycle delay	0÷30 min.	1	Pr1	Pr1
CCt	Compressor ON time during fast	0 ÷ 23h 50 min.	0	Pr2	Pr2
	freezing		-		
COn	Compressor ON time with faulty probe	0÷255 min.	15	Pr2	Pr2
COF	Compressor OFF time with faulty probe	0÷255 min.	30	Pr2	Pr2
	DISPLAY				
CF	Temperature measurement unit	°C ÷ °F	°C	Pr2	Pr2
rES	Resolution (integer/decimal point)	in ÷ de	de	Pr1	Pr1
Lod	Local display	P1 ÷ 1r2	P1	Pr2	Pr2
Red	Remote display	P1 ÷ 1r2	P1	Pr2	Pr2
	DEFROST				
tdF	Defrost type	rE, rT, in	rE	Pr1	Pr1
EdF	Defrost mode	In, Sd	In	Pr2	Pr2
SdF	Set point for SMART DEFROST	-30 ÷ +30°C / -22÷+86°F	0	Pr2	Pr2
dtE	Defrost termination temperature	-50,0÷110°C/ -58÷230°F	8	Pr1	Pr1
	(1°Evaporator)				
ldF	Interval between defrost cycles	1÷120h	6	Pr1	Pr1
MdF	(Maximum) length for 1° defrost	0÷255 min.	30	Pr1	Pr1
dFd	Displaying during defrost	rt, it, SEt, dEF, dEG	it	Pr2	Pr2
dAd	MAX display delay after defrost	0÷255 min.	30	Pr2	Pr2
Fdt	Draining time	0÷60 min.	0	Pr2	Pr2
dPO	First defrost after start up	n÷y	n	Pr2	Pr2
dAF	Defrost delay after fast freezing	0 ÷ 23h 50 min.	2	Pr2	Pr2
uAi	FANS	0 : 2311 30 11111.	2	112	112
FnC	Fans operating mode	C-n, C-y, O-n, O-y	0-n	Pr2	Pr2
Fnd	Fans delay after defrost	0÷255 min.	10	Pr2	Pr2
			2		
FSt	Fans stop temperature	-50,0÷110°C/ -58÷230°F	2	Pr2	Pr2
	ALARMS	E M	-		
ALC	Temperature alarms configuration	rE÷Ab	rE	Pr2	Pr2
ALU	MAXIMUM temperature alarm	-50,0÷110°C/ -58÷230°F	10	Pr1	Pr1
ALL	minimum temperature alarm	-50,0÷110°C/ -58÷230°F	10	Pr1	Pr1
AFH	Temperature alarm and fan differential	0,1÷25,5 °C / 1÷45°F	2		
ALd	Temperature alarm delay	0÷255 min.	15	Pr2	Pr2
dAO	Delay of temperature alarm at start up	0 ÷ 23h 50 min.	1,3	Pr2	Pr2
EdA	Alarm delay at the end of defrost	0÷255 min.	30	Pr2	Pr2
dot	Delay of temperature alarm after closing the door	0÷255 min.	15	Pr2	Pr2
dOA	Open door alarm delay	0÷255 min.	15	Pr2	Pr2
tBA	Alarm relay silencing			Pr2	Pr2
nPS	Pressure switch activation number	<u>y</u> ÷ n 0÷15	у 0	Pr2	Pr2
IIF 3	ANALOGUE INPUTS	0÷15	0	FIZ	FIZ
0.		-12,0÷12,0°C / -21÷21°F	0	D-1	D-1
Ot OF	Thermostat probe calibration		0	Pr1	Pr1
OE	Evaporator probe calibration	-12,0÷12,0°C / -21÷21°F	0	Pr2	Pr2
03	Auxiliary probe calibration	-12,0÷12,0°C / -21÷21°F	0	Pr2	Pr2
P2P	Evaporator probe presence	n ÷ y	у	Pr2	Pr2
P3P	Auxiliary probe presence	n÷y	n	Pr2	Pr2
HES	Temperature increase during the Energy Saving cycle	-30÷30°C / -22÷86°F	0	Pr2	Pr2
	DIGITAL INPUTS		1	i i	
Odc	Open door control	no, Fan, CPr, F_C	Fan	Pr2	Pr2
I1P	Door switch polarity	CL÷OP	CL	Pr2	Pr2
I2P	Configurable digital input polarity	CL÷OP	CL	Pr2	Pr2
i2F	Digital input configuration	EAL, bAL, PAL, dFr,	EAL	Pr2	Pr2
		AUS, ES, OnF	<u> </u>		
dld	Digital input alarm delay	0÷255 min.	5	Pr2	Pr2
SAA	Set point for anti-condensing heater	-50,0÷110°C/ -58÷230°F	-20.0		Pr2
	OTHER				
	Serial address	0÷247	1	Pr1	Pr1
Adr					D.0
Adr rEL	Software release		1.0	Pr2	Pr2
			1.0	Pr2 Pr2	Pr2 Pr2
rEL	Software release				

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