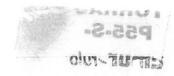
CONTENT

- 1. EST (ELECTRICAL SAFETY TEST) RESULTS
- 2. QUALITY CONTROL CHECK LIST
- 3. USER MANUAL
- 4. MULTIPLEXING
- 5. DIGITAL CONTROLLER MANUALS
- 6. PARAMETERS
- 7. ELECTRIC WIRE DIAGRAM (SOME USER MANUALS INCLUDES THIS)

Zu Position 3



Program: NEPTUN PLG 18:30	Date: 24.03.2021
Tester:	
Earth Test t= 0.4 s T	I= 10 AAC Umax= 12 V
Testing by EN 60335 Rmin= 0 m0hm Rmax= Time Resist. Result	
18:29:29 63 mOhm OK	10.98 A
Insulation Test t= 1.0 s U 0 V Rmin= 5.00 MOhm tRamp= Time Resist. V Result	= 1000 V Ustart= 10 1.0 s Voltage Error
18:29:32 406 MOhm 1 OK OK Flash Test t= 1.0 s U= 1000 Imin= 0.00 mA Imax= 1.00 m Time	000 V VDC Ustart= 100 V
18:29:36 0.0 mA 10	
Load Test t= 120.0 s tg= 70. Imax= 16.0 A Time Current An Result	
18:30:46 9.4 A 0 OK Programresult=OK	.0

wh

10	CONTROLLING THE BODY OF THE CABINET (gövde)	EXAMINED RESULT	CONTROLLED	ACCEPT (kabul)	REFUSE (red)	EXPLANATIO
1	GÖVDENIN DÜZGÜNLÜK (ÇİZİK,EZİK,DARBE,v.b.) KONTROLÜ Check the quality of the carcase re smooth with no bumps or scratches	(sonuç)	GÖZLE	1	(100)	
2	KALIBIN ALNI DÜZMÜ	-	(eye) GÖZLE	1		
	Check that the canopy of the carcase is correct AYAK VIDA DELIKLERINE KILAVUZ ÇEKİLDİMİ		(eye) KILAVUZLA	1		
	Case feet can be fitted IZALASYON BANTLARININ KONTROLÜ	1	(by guide) GÖZLE	1		
	Check that the all the cabinet joint insulation tape is across each joint a) POLIÜRETAN GÖVDE SÜNGER BANTLARI KONTROLÜ	_	(eye) GÖZLE	-		
-	Check that all foamed carcase sponge tapes is fitted b) POLIÜRETAN GÖVDE ALÜMİNYUM BANTLARI KONTROLÜ		(eye) GÖZLE	√		
-	Check that all foamed carcase aluminium tapes is fitted DIREKLERIN VE TAHLIYE IZALASYONUNUN KONTROLÜ, IZOLASYON MADDESI TAŞMAMALI		(eye) GÖZLE	✓		
	a) DIRECTERN SILIKONU VE MONTAJI DÜZGÜNMÜ		(eye)	1		
1	Check that the silicon is applied with no excess lumps on any joint		GÖZLE (eye)	✓		
	b) TAHLIYE DELIKLERINE PLASTIK CONTA TAKILDIMI Screwed drain pipes in place		GÖZLE (eye)	✓		
	ALIN KONTROLÜ Quality of the canopy area		GÖZLE (eye)	✓		
	a) ÇIZİK VE EZİK KONTROLÜ Check that the panel has no scratches & bumps		GÖZLE (eye)	1		
	b) BOYALARI DÜZGÜNMÜ Check that the panel is painted correctly		GÖZLE	1		
	ÇERÇEVE KASAYA OTURDULMADAN ÖNCE KABLO YUVASINA MACUN ÇEKİLDIMİ		(eye) GÖZLE	1		
	Check if electrical holes are sealed before frame installation KASA VE CAMLARIN KONTROLÜ		(eye) GÖZLE	1		
-	Check the Door insert & glass doors a) CAMDA CIZIK VE HATA VARMI	-	(eye) GÖZLE			
-	Check that the glass doors have no scratches, other damages & they close correctly. b) KASALARIN MONTAJI DÜZGÜNMÜ	-	(eye) GÖZLE	√		
	Check the fixings that are used to connect the insert to the carcase are correct		(eye)	✓		
	c) KAPI CONTALARININ SIKILIĞI İYIMİ Check that gaskets on doors are complete with no damages.		EL ILE (manual)	✓		
	TAVAN SACININ KONTROLÜ Quality of the ceiling panel		GÖZLE (eye)	✓		
	a) ÇİZİK VE EZİK KONTROLÜ Check that the panel has no scratches & bumps		GÖZLE (eye)	1		
	b) BOYALARI DÜZGÜNMÜ check that the panel is painted correctly		GÖZLE	1		
	KABLO VE BORU GİRİŞ DELİKLERİ ALTTAN VE ÜSTDEN MACUN İLE KAPATILDIMI		(eye) GÖZLE	1		
П	Check if the cable and pipe entries sealed from both upper and bottom sides TAVA VE PANO KONTROLÛ		(eye) GÖZLE	1		
+	Quality of the base tray and back panel panels a) ÇIZIK VE EZIK KONTROLÛ		(eye) GÖZLE			
-	Check that the panels have no scratches or bumps b) BOYALARI DÜZGÜNMÜ		(eye) GÖZLE	√		
	Check that the panel is painted correctly RAFLAR VE ETIKETLIK TAKILI TAKILI MI?		(eye) GÖZLE	√		
	EPOS + transport clips been fitted.	_	(eye)	√		
	a) RAFIN RENGI SIPARIŞE UYGUN MU ? Shelf color		GÖZLE (eye)	✓		
	b) ETIKETLIK ADETI DOĞRU MU ? Price-holder quantity		GÖZLE (eye)	✓		
	TEKNİK DÖKÜMANLAR SIPARIŞE UYGUN MU? Technical documentation compliant to order		GÖZLE (eye)	1		
	DOLABIN GENEL TEMIZLIĞI YAPILDIMI		GÖZLE	1		3//
5	Check that the cabinet is clean & there are no screws, cables, dust & debries anywhere. POLIÜRETAN TAŞMALARININ ÖNLENMESI İÇİN YAN KAPAK KÖŞELERINE BANT VE MACUN ÇEKİLMESI		(eye) GÖZLE	1		
-	Applying tape and paste to the side cover corners for preventing polyurethane overflows ELECTRICAL CONTROL (elektrik)	Hataka	(eye)			
	AYDINLATMA ÇALIŞIYORMU	Mark Day	GÖZLE	,		HE SCHOOL SERVICE
+	Check that all the lights work CAM RESISTANSI CALISIYORMU		(eye) ELEKTRIK SEL ALET	\		
-	Check that the door heaters work DIJITALLERE PROGRAM YÜKLENDIMI		(by elec tool) GÖZLE	√		
	Check that the digital program is installed		(eye)	✓		
1	JYARI ETİKETİ ELEKTRİK KUTUSUNUN ÜZERİNE YAPIŞTIRILDI Have the warning stickers been placed on the electrical box		GOZLE (eye)	✓		
	DIJITAL KUMANDA SET DEĞERLERİ AYARLANDIMI Check that the digital display has been configured to the CC requirements		EL ILE (manual)	✓		
. 1	MOTOR FONKSIYON TESTLERI YAPILDI MI? Plug-in cabinet functional test		GÖZLE (eye)	1		
1	MOTOR KAÇAK TESTI YAPILDI MI? Plug-in cabinets refrigerant leak test		EST	1		
	CONTROLLING THE CONDENSING UNIT (sogutma)	EXAMINED RESULT	CONTROLLED	ACCEPT	REFUSE	EXPLANATION
-	SES - GÜRÜLTÜ KONTROLÜ	(sonuç)	VIA	(kabul)	(red)	LAF LANATION
(Check for any unusual noises (rattles, loose components etc)		(audition)	√		
0	SISTEMDE GAZ KAÇAĞI TESTİ YAPILDIMI Check that the condensing unit has no gas leaks		DEDEKTOR • OZEL KÖPUK (by dedector)	✓		
	SOĞUTUCU LAMELLERININ DÜZGÜNLÜĞÜNÜN KONTROLÜ Check the condenser fins are not damaged		GÖZLE (eye)	✓		
1	JYARI ETIKETI KONDANSERLERIN ÜZERINE YAPIŞTIRILDIMI ? Have the warning stickers been placed on the condensers		GÖZLE (eye)	✓		
5	SOGUTMA SISTEMINDE -20 DERECE GÖRÜLDÜMÜ Run & test the cabinet to make sure it reaches -20 dgr temperature & cycles properly		GÖZLE (eye)	✓		
1	DIĞERLERİ - ADDITIONAL POINTS		100			
-	SERI ETIKETI VERILERI DOLABA VE SIPARIŞE UYGUN MU ?		GÖZLE			
	rating label compliant to order		(eye)	✓		
1	ON ALT PANO YAN KAPAKLA UYUMLUDUR Joes the machinery grille line up with the end wall (I.E. in line verticallly & horizontally)		GÖZLE (eye)	1		
E	ELEKTRIK TEPSISI KOLAY ÇIKMALI VE KABLOLAR TAHLIYE REZISTANSINA KARIŞMAMALI Electrical tray slide out ∈ easily&the cable does not fout on the condensate heater		GÓZLE (øye)	✓		
	COMPRESSOR TEPSISI RAHATLIKLA ÇIKMALI Does the machinery tray slide in & out easily + Fit the securing bolt		GÖZLE (eye)	✓		
5	SEVKİYAT ARKA DESTEĞI TAKILIDIR kre the rear duct spacers is fitted		GÖZLE (eye)	1		
A	KKESUARLARIN RENGI SIPARIŞE UYGUN MU ? kcessories color		GÖZLE	1		
1	a) AKSESUAR PAKETI MEVCUT MU?		GÖZLE	1		
+	Accessory packaged b) HASARLARI ÖNLEMEK IÇIN AKSESUAR PAKETİ SABİTLENMIŞ MI ?		(eye) GÖZLE	y		
K	Accessory packing is fixed to cabinet surface to avoid damages/stratches APILI DOLAPLARDA KAPILAR SABÍTLENDÍ MÍ?	+	(eye) GÖZLE			
C	oors are included with shipment protection EHBA KALIP DESTEK BAĞLANDIMI		(eye) GÖZLE	✓		
	tre the corner supports for chassis in place		(sye)	✓		
	QUALITY CONTROL RESPON	SIBLE				
1	QUALITY OUT THOSE RESPON					



 1. Images

 1.1 Installation Technical Drawing

 1.2 Transportation

 1.3 Product Serial ID Plate

 1.4 Installation and Environmental Factors





NEPTUN H PLUG-IN

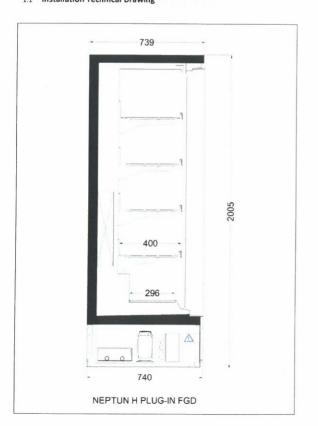
Installation and User Manual

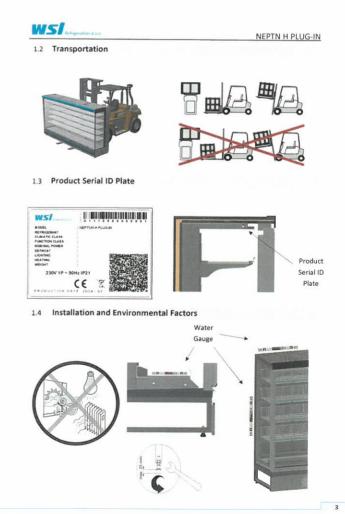
CONTENT

WS Retriguestion d. p. o

NEPTN H PLUG-IN

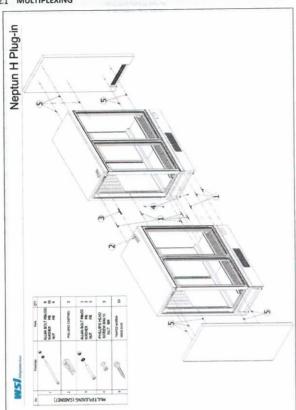
- 1. Images
- 1.1 Installation Technical Drawing



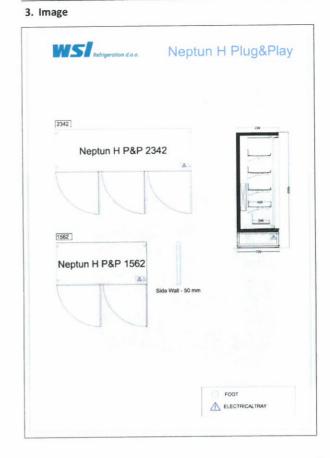


2. Images

2.1 MULTIPLEXING



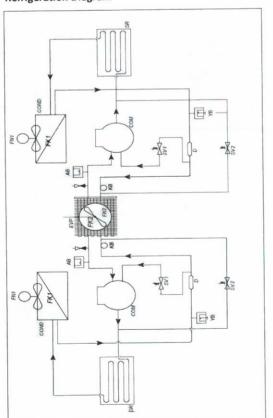




WSI Retrigeration d.o.a

NEPTN H PLUG-IN

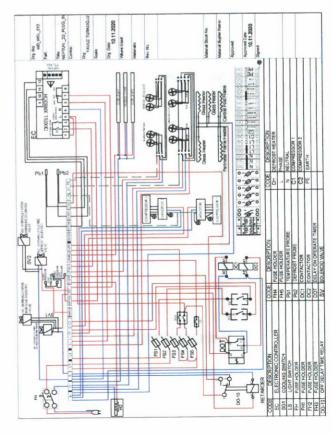
4. Refrigeration Diagram



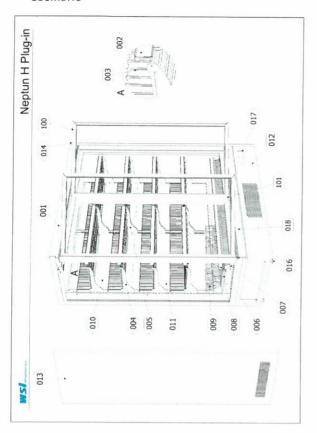
MS Refrigeration d.a.a.

NEPTN H PLUG-IN

5. Electrical Wiring Diagram



COSMETIC



WS Retrigeration d u.u

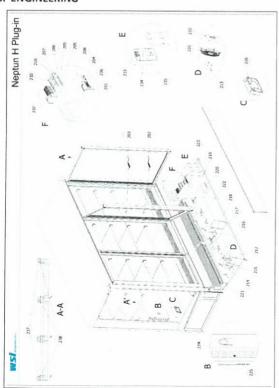
5.1 Cosmetic Parts List

PART NO	PART DESCRIPTION	938 PART NO:	1250 PART NO:	1875 PART NO:	2500 PART NO:
001	CANOPY PROFILE				
002	SHELF TICKET STRIP				
003	WIRE SHELF				
004	RHS SHELF BRACKET				×
005	LHS SHELF BRACKET				
006	BASE TICKET STRIP				
007	AIR RETURN GRILL				
800	BASE PLATE				
009	BASE WIRE BASKET				
010	BACK PANEL - TOP				
011	BACK PANEL - BOTTOM				
012	MACHINERY GRILL				
013	BLOCK END WALL GABLE SET				
016	FEET				
017	ISOLATOR COVER				
018	ÖN RENKLİ				1.00
100	FRONT OVERLAY				
101	HINGE				

WS Religeration d'a c

NEPTN H PLUG-IN

6. ENGINEERING



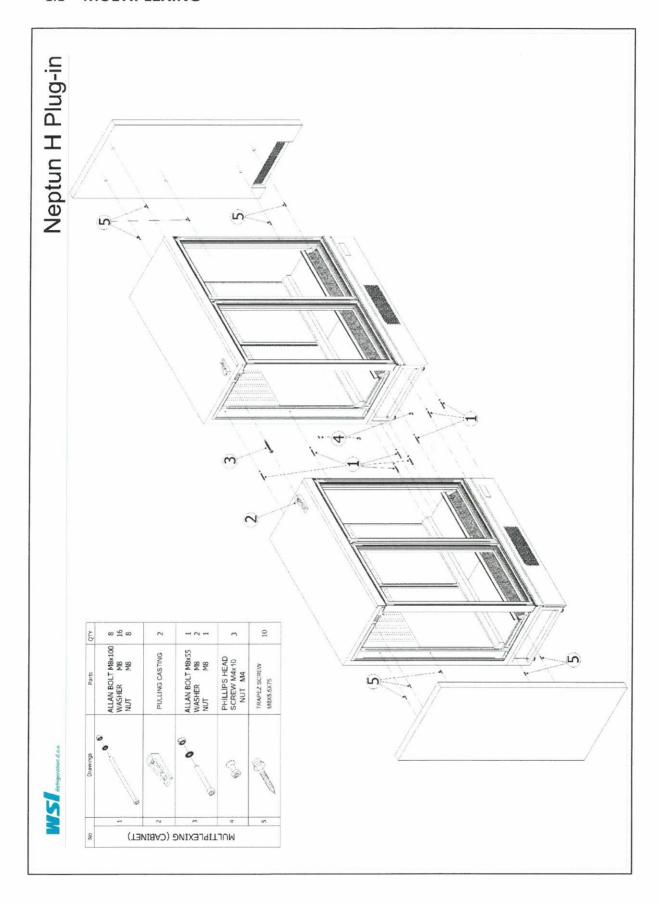
WSI.

NEPTN H PLUG-IN

6.1 Engineering Parts List

PART NO	PART DESCRIPTION	938 PART NO:	1250 PART NO:	1875 PART NO:	2500 PART NO:
201	DIGITAL CONTROLLER				
202	PROBE - DEFROST				
203	PROBE - AIR ON				10000
204	MAIN SWITCH				
205	MBC'S FOR DOOR HEATER				
206	MBC'S FOR LIGHT				
207	MBC'S FOR EVAPARATOR FANS				
208	MBC'S FOR COMPRESSOR -1				
209	MBC'S FOR COMPRESSOR -2				
210	CONTACTOR				
211	T8 LED				
212	CONDENSER (Micro Channel)				
213	CONDENSER FAN MOTOR				
214	HIGH PRESSURE SWITCH				
215	LOW PRESSURE SWITCH				
216	COMPRESSOR (R290)	7			
217	DRIER				
218	SELENOID VALVE - OPEN				
219	SELENOID VALVE - CLOSED				
220	ELECTRICAL BOX				
221	INDUSTRIAL CLOTH			g to the first	
222	CATHOD				
223	CONDENSATE TRAY				
224	CAPILLARY				
225	EVAPORATOR				
226	EVAPORATOR FAN MOTOR				
230	TIME DELAY RELAY				
231	FAN GAURD METAL				
232	CONTACTOR				
233	START RELAY				
234	RUN CAPACITOR				
235	START CAPACITOR				
236	ON / OFF SWITCH				
237	LIGHTING PROTECTION COVER PLASTIC				

1.1 MULTIPLEXING



Digital controller with defrost and fan management XR70CH

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1.	GENERAL WARNING	1
2.	GENERAL DESCRIPTION	1
3.	CONTROLLING LOADS	1
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1. GENERAL WARNING

1.1 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.
- Dixell SrI reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.

1.2 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.
- Dixell SrI reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.

2. GENERAL DESCRIPTION

Model XR70CH, format 32x74mm, is microprocessor based controller, suitable for applications on medium or low temperature ventilated refrigerating units. It has four relay outputs to control compressor, fan, and defrost, which can be either electrical or reverse cycle (hot gas). The last one can be used as light, for alarm signalling or as auxiliary output. It is also provided with up to 4 NTC or PTC probe inputs, the first one for temperature control, the second one, to be located onto the evaporator, to control the defrost termination temperature and to managed the fan. The digital input can operate as third temperature probe. The fourth one, to connect to the HOT KEY terminals, is used to signal the condenser temperature alarm or to display another temperature.

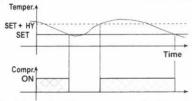
The HOT-KEY output allows to connect the unit, by means of the external module XJ485-CX, to a network line ModBUS-RTU compatible such as the dixall monitoring units of X-WEB family. It allows to program the controller by means the HOT-KEY programming keyboard.

The instrument is fully configurable through special parameters that can be easily programmed through the keyboard.

3. CONTROLLING LOADS

3.1 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 ${\bf Con}$ and ${\bf CoF}$.

3.2 DEFROST

Two defrost modes are available through the tdF parameter: defrost through electrical heater (tdF=EL) and hot gas defrost (tdF=in).

Other parameters are used to control the interval between defrost cycles (idF), its maximum length (MdF) and two defrost modes: timed or controlled by the evaporator's probe (P2P).

At the end of defrost dripping time is started, its length is set in the Fdt parameter. With Fdt=0 the dripping time is disabled.

3.3 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.

FnC=o n, fans will run even if the compressor is off, and not run during defrost.

After defrost, there is a timed fan delay allowing for drip time, set by means of the Fnd parameter. FnC=C_Y, fans will switch ON and OFF with the compressor and run during defrost. FnC=o_Y, fans will run continuously also during defrost.

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

3.3.1 Forced activation of fans

This function managed by the FCt parameter is designed to avoid short cycles of fans, that could happen when the controller is switched on or after a defrost, when the room air warms the evaporator. How it works: if the temperature difference between evaporator probe and room probe is higher than the FCt parameter value, fans will be switched on. With FCt=0 the function is disabled.

3.3.2 Cyclical activation of the fans with compressor off.

When FnC=C-n or C-Y (fans working in parallel with the compressor), by means of the Fon and FoF parameters the fans can carry out on and off cycles even if the compressor is switched off. When the compressor is stopped the fans go on working for the Fon time. With Fon=0 the fans remain always off, also when the compressor is off.

4. FRONT PANEL COMMANDS



	SET	dixal	EMERSON	Ο
SET	To display targe an operation.	et set point; in pro	gramming mode it sel	ects a parameter or confirm
xtx	(DEF) To start a	a manual defrost.		

(UP) To see the max stored temperature; in programming mode it browses the parameter codes or increases the displayed value.

(DOWN) To see the min stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.

To switch the instrument on and off (when onF=oFF)

To switch on and off the light (when oA3=LiG).

KEY COMBINATIONS:

$\triangle + \forall$	To lock & unlock the keyboard.	
SET+	To enter in programming mode.	
SET +	To return to the room temperature display.	

4.1 USE OF LEDS

Each LED function is described in the following table.

LED	MODE	FUNCTION
*	ON	Compressor enabled
**	Flashing	Anti-short cycle delay enabled
**	ON	Defrost enabled
4.6.4	Flashing	Drip time in progress
35	ON	Fans enabled
20	Flashing	Fans delay after defrost in progress.
(b)	ON	An alarm is occurring
(*)	ON	Continuous cycle is running
ECO	ON	Energy saving enabled
- ` \documents	ON	Light on
AUX	ON	Auxiliary relay on
°C/°F	ON	Measurement unit
UI F	Flashing	Programming phase

5. MAX & MIN TEMPERATURE MEMORIZATION

5.1 HOW TO: SEE THE MIN TEMPERATURE

- Press and release the DOWN key.
- The "Lo" message will be displayed followed by the minimum temperature recorded.
- 3. By pressing the DOWN key again or by waiting 5 sec the normal display will be restored.

5.2 HOW TO: SEE THE MAX TEMPERATURE

- 1. Press and release the UP key
- The "Hi" message will be displayed followed by the maximum temperature recorded.
- By pressing the UP key again or by waiting 5 sec the normal display will be restored.

HOW TO: RESET THE MAX AND MIN TEMPERATURE RECORDED

- Keep the SET key pressed more than 3 sec, while the max or min temperature is displayed. ("rSt" message will be displayed)
- To confirm the operation the "rSt" message will start blinking and the normal temperature will be displayed.

6. MAIN FUNCTIONS

HOW TO: SEE THE SET POINT



- Push and immediately release the SET key: the display will show the Set point value
- Push and immediately release the SET key or wait for 5 sec to display the probe value again

HOW TO CHANGE THE SET POINT 6.2

- Push the SET key more than 2 sec to change the Set point value. The value of the set point will be displayed and the "°C" or "°F" LED will start blinking
- To change the Set value push the UP or DOWN arrows within 10 sec
- To save the new set point value, push the SET key again or wait for 10 sec

6.3 HOW TO START A MANUAL DEFROST



Push the DEF key for more than 2 sec and a manual defrost will start.

HOW TO: CHANGE A PARAMETER VALUE 6.4

To change a parameter value, operate as follows:

- Enter the Programming mode by pressing the SET+DOWN buttons for 3s (the °C or °F LED will start blinking).
- Select the required parameter. Press the SET button to display its actual value
- Use UP or DOWN buttons to change its value.
- 4. Press SET button to store the new value and move to the following parameter.

To exit: Press SET + UP buttons or waiting for 15s without pressing any key.

NOTE: the set value is stored even when the procedure is exited by waiting for the time-out to expire

6.5 THE HIDDEN MENU

The hidden menu includes all the parameters of the instrument.

6.5.1 HOW TO: ENTER THE HIDDEN MENU

- 1. Enter the Programming mode by pressing the SET+DOWN buttons for 3 sec (the °C or °F LED will start blinking).
- Released the buttons and then push again the SET+DOWN buttons for more than 7s. The Pr2 label will be displayed immediately followed from the HY parameter. Now it is possible to browse the hidden menu.
- Select the required parameter
- Press the SET button to display its value.
- Use UP or DOWN to change its value
- Press SET to store the new value and move to the following parameter.

To exit: Press SET+DOWN or wait 15 sec without pressing a key

NOTE1: if no parameter is present in Pr1 menu, after 3 sec the "noP" message will be displayed. Keep the buttons pushed till the Pr2 message will be displayed.

NOTE2: the set value is stored even when the procedure is exited by waiting for the time-out to expire

6.5.2 HOW TO: MOVE A PARAMETER FROM THE HIDDEN MENU TO THE FIRST LEVEL AND VICEVERSA.

Each parameter present in the hidden menu (Pr2) can be moved into the user level (Pr1) by pressing SET+DOWN buttons. If a parameter is part of the user level, when showed in the hidden menu the decimal point will be lit.

6.6 HOW TO: LOCK THE KEYBOARD

- Keep both UP and DOWN buttons pressed for more than 3 sec
- The "PoF" message will be displayed and the keyboard will be locked. At this point it will be 2 possible only to see the set point or the MAX o Min temperature stored
- If a button is pressed more than 3 sec the "PoF" message will be displayed

6.7 HOW TO: UNLOCK THE KEYBOARD

Keep pressed together for more than 3 sec the UP and DOWN keys till the "Pon" message will be displayed

THE CONTINUOUS CYCLE

When defrost is not in progress, it can be activated by holding the UP key pressed for about 3 sec. The compressor operates to maintain the CCS set point 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 UP for 3 sec.

6.9 THE ON/OFF FUNCTION



With "onF = oFF", pushing the ON/OFF key, the instrument is switched off. The "OFF" message is displayed. In this configuration, the regulation is disabled. To switch the instrument on, push again the ON/OFF key

WARNING: Loads connected to the normally closed contacts of the relays are always supplied and under voltage, even if the instrument is in stand by mode.

7. PARAMETERS

REGIII ATION

HY	Differential: (0.1 to 25.5°C; 1 to 45°F) intervention differential for set point. Compressor
	Cut IN is Set Point + differential (HY). Compressor Cut OUT is when the temperature reaches the set point.
LS	Minimum set point: (-100°C to SET; -148°F to SET) sets the minimum value for the set point.
US	Maximum set point: (SET to 150°C; SET to 302°F) set the maximum value for set point.
ot	Thermostat probe calibration: (-12.0 to 12.0°C; -21 to 21°F) allows to adjust possible offset of the thermostat probe.
P2P	Evaporator probe presence: (n; Y) n = not present, the defrost stops by time; Y = present, the defrost stops by temperature.
οE	Evaporator probe calibration: (-12.0 to 12.0°C; -21 to 21°F) allows to adjust possible offset of the evaporator probe.
P3P	Third probe presence (P3): (n; Y) n = not present, the terminals 18-20 operate as digital input; Y = present, the terminals 18-20 operate as third probe.
о3	Third probe calibration (P3): (-12.0 to 12.0°C; -21 to 21°F) allows to adjust possible offset of the third probe.
P4P	Fourth probe presence: (n; Y) n = Not present; Y = present.
04	Fourth probe calibration: (-12.0 to 12.0°C; -21 to 21°F) allows to adjust possible offset of the fourth probe.
odS	Outputs activation delay at start up: (0 to 255min) this function is enabled at the initial start up of the instrument and inhibits any output activation for the period of time set in the parameter.
AC	Anti-short cycle delay: (0 to 50min) minimum interval between the compressor stop and the following restart.
rtr	Percentage of the second and first probe for regulation: (0 to 100; 100=P1, 0=P2) it allows to set the regulation according to the percentage of the first and second probe, as for the following formula (rtr(P1-P2)/100 + P2).
CCt	Compressor ON time during continuous cycle: (0.0 to 24h00min, res. 10min) allows to set the length of the continuous cycle. Compressor stays on without interruption during CCt time. This is useful, for instance, when the room is filled with new products.
CCS	Set point for continuous cycle: (-55 to 150°C; -67 to 302°F) it sets the set point used during the continuous cycle.
Con	Compressor ON time with faulty probe: (0 to 255min) 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 to 255min) time during which the compressor is OFF in case of faulty thermostat probe. With CoF=0 compressor is

DISPLAY

always active.

CF	Temperature measurement unit: (°C; °F) °C = Celsius; °F = Fahrenheit. WARNING: When the measurement unit is changed the SET point and the values of the parameters HY, LS, US, ot, ALU and ALL have to be checked and modified (if necessary).
rES	Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.
Lod	Instrument display: (P1; P2, P3, P4, SET, dtr) it selects which probe is displayed by the instrument. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.
rEd	X-REP display (optional): (P1; P2, P3, P4, SET, dtr) it selects which probe is displayed by X-REP. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.
dLY	Display delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1°C or 1°F after this time.
dtr	Percentage of the second and first probe for visualization when Lod=dtr: (0 to 99; 100=P1, 0=P2) if Lod=dtr it allows to set the visualization according to the percentage of the first and second probe, as for the following formula (dtr(P1-P2)/100 + P2).

DEFROST

dAF

tdF	Defrost type: (EL; in) EL = electrical heater; in = hot gas.
dFP	Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe or Hot Key plug.
dtE	Defrost termination temperature: (-55 to 50°C; -67 to 122°F) (enabled only when EdF=Pb) sets the temperature measured by the evaporator probe, which causes the encof defrost.
idF	Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.
MdF	(Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe timed defrost) it sets the defrost duration. When P2P=Y (defrost end based of temperature) it sets the maximum length for defrost.
dSd	Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.
dFd	Temperature displayed during defrost: (rt, it, SEt, dEF) rt = real temperature; it = temperature at defrost start; SEt = set point; dEF = "dEF" label.
dAd	MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.
Fdt	Drip time: (0 to 120min) 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: (n; Y)
	 n = after the idF time,
	 Y = immediately.

Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval

between the end of the fast freezing cycle and the following defrost related to it.

Installing and operating instructions

EMERSON

Fans operating mode: (C-n; o-n; C-Y; o-Y) C-n = runs with the compressor, OFF during
defrost; o-n = continuous mode, OFF during defrost; C-Y = runs with the compressor,
ON during defrost; o-Y = continuous mode, ON during defrost.

- Find Fans delay after defrost: (0 to 255min) interval between end of defrost and evaporator fans start.
- FCt Temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: if FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.
- FSt Fans stop temperature: (-55 to 50°C; -67 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.
- Fan ON time: (0 to 15min) with Fnc=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off. With Fon=0 and FoF≠0 the fan are always off, with Fon=0 and FoF=0 the fan are always off.
- FoF Fan OFF time: (0 to 15min) With FnC=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator fan off cycling time when the compressor is off. With Fon=0 and FoF≠0 the fan are always off, with Fon=0 and FoF=0 the fan are always off.
- FAP Probe selection for fan management: (nP; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Hot Key plug.

ALARMS

ALC Temperature alarms configuration: (Ab; rE) Ab = absolute temperature, alarm temperature is given by the ALL or ALU values. rE = temperature alarms are referred to the set point. Temperature alarm is enabled when the temperature exceeds the [SET+ALU] or [SET-ALL] values.

ALU MAXIMUM temperature alarm:

- If ALC=Ab: [ALL to 150.0°C or ALL to 302°F]
- If ALC=rE: [0.0 to 50.0°C or 0 to 90°F]

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

ALL Minimum temperature alarm:

- If ALC=Ab: [-100°C to ALU; -148 to ALU]
- If ALC=rE: [0.0 to 50.0°C or 0 to 90°F]

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

- AFH Differential for temperature alarm recovery: (0.1 to 25.5°C; 1 to 45°F) intervention differential for recovery of temperature alarm.
- ALd Temperature alarm delay: (0 to 255 min) time interval between the detection of an alarm condition and alarm signalling.
- dAo Exclusion of temperature alarm at start-up; (0.0 to 24h00min, res. 10min) time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.

CONDENSER TEMPERATURE ALARM

AP2	Probe selection for temperature alarm of condenser: (nP; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Hot Key plug.
AL2	Low temperature alarm of condenser: (-100 to 150°C; -148 to 302°F) when this

- temperature is reached the LA2 alarm is signalled, possibly after the Ad2 delay.

 Au2 High temperature alarm of condenser: (-100 to 150°C; -148 to 302°F) when this
- Au2 High temperature alarm of condenser: (-100 to 150°C; -148 to 302°F) when this temperature is reached the HA2 alarm is signalled, possibly after the Ad2 delay.

 AH2 Differential for temperature condenser alarm recovery: 0.1 to 25.5°C; 1 to 45°F
- Ad2 Condenser temperature alarm delay: (0 to 255 min) time interval between the detection of the condenser alarm condition and alarm signalling.
- dA2 Condenser temperature alarm exclusion at start up: 0.0 to 24h00min, res. 10min.
 bLL Compressor off with low temperature alarm of condenser: (n; Y) n = compressor keeps on working; Y = compressor is switched off till the alarm is present, in any case regulation restarts after AC time at minimum.
- AC2 Compressor off with high temperature alarm of condenser: (n; Y) n = compressor keeps on working; Y = compressor is switched off till the alarm is present, in any case regulation restarts after AC time at minimum.

FOURTH RELAY

- tbA Alarm relay silencing (with oA3 =ALr): (n; Y) n = silencing disabled: alarm relay stays on till alarm condition lasts. Y = silencing enabled: alarm relay is switched OFF by pressing a key during an alarm.
- oA3 Second relay configuration (1-4): (dEF; FAn; ALr, LiG; AUS; onF; db; dEF2; HES) dEF = defrost; FAn = do not select it; ALr = alarm; LiG = light; AUS = Auxiliary relay; onF = always on with instrument on; db = neutral zone; dEF2 = do not select it; HES = night blind
- AoP Alarm relay polarity: (CL; oP) it set if the alarm relay is open or closed when an alarm occurs. CL = terminals 1-4 closed during an alarm; oP = terminals 1-4 open during an alarm.

DIGITAL INPUTS

- i1P Second digital input polarity: (oP; CL) oP = the digital input is activated by opening the contact; CL = the digital input is activated by closing the contact.
 - Second digital input configuration: (EAL; bAL; PAL; dor, dEF; ES; AUS; Htr; FAn; HdF; onF) EAL = external alarm: "EA" message is displayed; bAL = serious alarm "CA" message is displayed; PAL = pressure switch alarm, "CA" message is displayed; dor = door switch function; dEF = activation of a defrost cycle; ES = energy saving; AUS = auxiliary relay activation with oA3=AUS; Htr = type of inverting action (cooling or heating); FAn = fan; HdF = Holiday defrost (enable only with RTC); onF = to switch the controller off.
- did Digital input 1 alarm delay: (0 to 255 min) delay between the detection of the external alarm condition and its signalling.
 - When i1F= PAL, it is the interval of time to calculate the number of pressure switch activation

nPS	Number of pressure switch activation: (0 to 15) Number of activation, during the did or d2d interval, before signalling an alarm event (i1F, i2F=PAL). If the nPS activation during did or d2d time is reached, switch off and on the instrument to restart normal regulation.
odC	Compressor status when open door: (no; FAn; CPr;F_C;) no = normal; FAn = normal; CPr = compressor OFF, F_C = compressor OFF.
rrd	Outputs restart after door open alarm: $(n; Y) n = \text{outputs follow the odC}$ parameter. $Y = \text{outputs restart with a door open alarm.}$
HES	Delta temperature during an Energy Saving cycle: (-30.0 to 30.0°C; -54 to 54°F) it sets the increasing value of the set point [SET+HES] during the Energy Saving cycle.

OTHER

Serial address: (1 to 247) identifies the instrument address when connected to a ModBUS compatible monitoring system.
Type of probe: (PtC; ntC) it allows to set the kind of probe used by the instrument: PtC = PTC probe, ntC = NTC probe.
On/Off key enabling: (nU; oFF; ES) nU = disabled; oFF = enabled; ES = not set it.
Thermostat probe display.
Evaporator probe display.
Third probe display- optional.
Fourth probe display.
Real set point: it shows the set point used during the energy saving cycle or during the continuous cycle.
Software release for internal use.
Parameter table code: readable only.

8. DIGITAL INPUTS

The free voltage digital input is programmable by the i1F parameter.

8.1 GENERIC ALARM (I1F = 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 statuses don't change. The alarm stops just after the digital input is deactivated.

8.2 SERIOUS ALARM MODE (I1F = BAL)

When the digital input is activated, the unit will wait for **did** delay before signalling the **CA** alarm message. The relay outputs are switched OFF. The alarm will stop as soon as the digital input is deactivated

8.3 PRESSURE SWITCH (I1F = PAL)

If during the interval time set by **did** parameter, the pressure switch has reached the number of activation of the **nPS** parameter; the **CA** pressure alarm message will be displayed. The compressor and the regulation are stopped. When the digital input is ON the compressor is always OFF. If the **nPS** activation in the **did** time is reached, switch off and on the instrument to restart normal regulation.

8.4 DOOR SWITCH INPUT (I1F = DOR)

It signals the door status and the corresponding relay output status through the odC parameter: 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 door alarm is enabled, the display shows the message dA and the regulation restarts is rtr=YES. The alarm stops as soon as the external digital input is disabled again. With the door open, the high and low temperature alarms are disabled.

8.5 START DEFROST (I1F = DEF)

It starts 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.

8.6 SWITCH THE AUXILIARY RELAY (I1F = AUS)

With oA3 = AUS the digital input switched the status of the auxiliary relay

8.7 INVERSION OF THE KIND OF ACTION: HEATING-COOLING (I1F=HTR)

This function allows to invert the regulation of the controller: from cooling to heating and viceversa.

8.8 ENERGY SAVING (I1F = 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.

8.9 ON OFF FUNCTION (I1F = ONF)

To switch the controller on and off

8.10 DIGITAL INPUT POLARITY

The digital input polarity depends on the i1P parameter. i1P = CL: the input is activated by closing the contact. i1P = oP: the input is activated by opening the contact

9. TTL SERIAL LINE - FOR MONITORING SYSTEMS

The TTL serial line, available through the HOT KEY connector, allows to connect the instrument to a monitoring system ModBUS-RTU compatible such as the XWEB500.

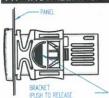
10. X-REP OUTPUT - OPTIONAL

As optional, an X-REP can be connected to the instrument, trough the dedicated connector.



To connect the X-REP to the instrument the following connectors must be used CAB-51F(1m), CAB-52F(2m), CAB-55F(5m),

INSTALLATION AND MOUNTING



Instrument XR70CH shall be mounted on vertical panel, in a 29x71 mm hole, and fixed using the special bracket supplied.

The temperature range allowed for correct operation is 0 to 60°C. Avoid places subject to strong vibrations, corrosive gases, excessive dirt or humidity. The same recommendations apply to probes. Let air circulate by the cooling holes.

ELECTRICAL CONNECTIONS 12.

The instrument is provided with screw terminal block to connect cables with a cross section up to 2.5mm². 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

PROBE CONNECTION 12.1

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.

13. USE THE HOT KEY

HOW TO: PROGRAM A HOT KEY FROM THE INSTRUMENT (UPLOAD)

- Program one controller with the front keypad
- When the controller is ON, insert the "HOT-KEY" and push UP button; the "uPL" message 2 appears followed a by a flashing "End" label.
- Push SET button and the "End" will stop flashing
- Turn OFF the instrument, remove the "HOT-KEY" and then turn it ON again.

NOTE: the "Err" message appears in case of a failed programming operation. In this case push again button if you want to restart the upload again or remove the "HOT-KEY" to abort the operation.

HOW TO: PROGRAM AN INSTRUMENT USING A HOT KEY (DOWNLOAD)

- Turn OFF the instrument
- Insert a pre-programmed "HOT-KEY" into the 5-PIN receptacle and then turn the Controller 2 ON.
- The parameter list of the "HOT-KEY" will be automatically downloaded into the Controller memory. The "doL" message will blink followed a by a flashing "End" label.
- After 10 seconds the instrument will restart working with the new parameters
- Remove the "HOT-KEY".

NOTE: the message "Err" is displayed 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.

14. ALARM SIGNALS

Message	Cause	Outputs
"P1"	Room probe failure	Compressor output acc. to par. Con and CoF
"P2"	Evaporator probe failure	Defrost end is timed
"P3"	Third probe failure	Outputs unchanged
"P4"	Fourth probe failure	Outputs unchanged
"HA"	Maximum temperature alarm	Outputs unchanged.
"LA"	Minimum temperature alarm	Outputs unchanged.
"HA2"	Condenser high temperature	It depends on the AC2 parameter
"LA2"	Condenser low temperature	It depends on the bLL parameter
"dA"	Door open	Compressor and fans restarts
"EA"	External alarm	Output unchanged.
"CA"	Serious external alarm (i2F=bAL)	All outputs OFF.
"CA"	Pressure switch alarm (i2F=PAL)	All outputs OFF
"rtc"	Real time clock alarm	Alarm output ON; Other outputs unchanged; Defrosts according to par. idF Set real time clock has to be set
rtF	Real time clock board failure	Alarm output ON; Other outputs unchanged; Defrosts according to par. idF Contact the service

14.1 ALARM RECOVERY

Probe alarms P1", "P2", "P3" and "P4" start some seconds after the fault in the related probe; they automatically stop some seconds after the probe restarts normal operation. Check connections before replacing the probe

Temperature alarms "HA", "LA" "HA2" and "LA2" automatically stop as soon as the temperature

returns to normal values.

Alarms "EA" and "CA" (with i2F=bAL) recover as soon as the digital input is disabled Alarm "CA" (with i2F=PAL) recovers only by switching off and on the instrument.

14.2 OTHER MESSAGES

Pon	Keyboard unlocked.
PoF	Keyboard locked
noP	In programming mode: none parameter is present in Pr1 On the display or in dP2, dP3, dP4: the selected probe is nor enabled

15. TECHNICAL DATA

Housing: self extinguishing ABS

Case: frontal 38x80 mm; depth 62mm; Mounting: panel mounting in a 71x29mm panel cut-out

Protection: IP20; Frontal protection: IP65

Connections: Screw terminal block ≤ 2.5 mm² wiring

Power supply: according to the model

12VAC/DC, ±10% 110AC ±10%, 50/60Hz

230VAC ±10%, 50/60Hz

Power absorption: 3VA max

Display: 3 digits, red LED, 14.2 mm high Inputs: Up to 4 NTC or PTC probes

Digital inputs: free voltage contact

Relay outputs: compressor SPST 8(3) A, 250VAC or SPST 16A 250VAC

Defrost: SPDT 8(3) A, 250VAC Fan: SPST 5A, 250VAC Aux: SPDT 8(3) A, 250VAC

Buzzer: optional

Data storing: on the non-volatile memory (EEPROM)

Internal clock back-up: 24 hours

Kind of action: 1B Pollution degree: 2

Software class: A

Rated impulsive voltage: 2500V

Overvoltage Category: II

Operating temperature: 0 to 55°C

Storage temperature: -25 to 60°C
Relative humidity: 20 to 85% (no condensing)

Measuring and regulation range:

NTC probe: -40 to 110°C (-40 to 230°F) PTC probe: -100 to 150°C (-148 to 302°F)

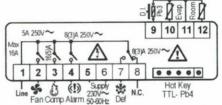
Resolution: 0.1°C or 1°C or 1°F (selectable)

Accuracy (ambient temp. 25°C): ±0.7°C ±1 digit

16. CONNECTIONS

The X-REP output excludes the TTL output. It's present in the following codes: XR70CH- xx2xx, XR70CH -xx3xx;

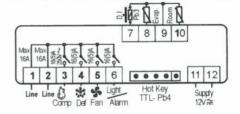
16.1 XR70CH - 8A OR 16A COMP. RELAY - 230VAC OR 110VAC



NOTE: The compressor relay is 8(3)A or 16(6)A according to the

24Vac supply: connect to the terminals 5 and 6.

16.2 XR70CH - 4 X 16A - 12VAC/DC



abe	l Name	Range	Value	Lev
SEt	Set point	LS; US	-5.0	
ΗY	Differential	[0.1 to 25.5°C] [1 to 45°F]	2.0	Pr
LS	Minimum set point	[-100°C to SET] [-148°F to SET]	-50.0	Pr
US	Maximum set point	[SET to 150°C] [SET to 302°F]	110	Pr
ot	Thermostat probe calibration	[-12.0 to 12.0°C] [-21 to 21°F]	0.0	Pr
2P	Evaporator probe presence	n; Y	Υ	Pr
οE	Evaporator probe calibration	[-12.0 to 12.0°C] [-21 to 21°F]	0.0	Pr
3P	Third probe presence	n; Y	n	Pr
03	Third probe calibration	[-12.0 to 12.0°C]	0	Pr
4P		[-21 to 21°F] n; Y	n	Pr
04	Fourth probe calibration	[-12.0 to 12.0°C]	0	Pr
		[-21 to 21°F]		
	Outputs delay at start up Anti-short cycle delay	0 to 255 min 0 to 50 min	0	Pr
tr	P1-P2 percentage for regulation	0 to 100 (100=P1 , 0=P2)	100	Pr
Ct	Continuous cycle duration	0.0 to 24h00min, res. 10 min	0.0	Pr
CS	Set point for continuous cycle	[-100 to 150.0°C] [-148 to 302°F]	-5	Pr
	Compressor ON time with faulty probe	0 to 255 min	15	Pr
	Compressor OFF time with faulty probe Temperature measurement unit	0 to 255 min °C; °F	30 °C	Pr
	Resolution	dE; in	dE	Pr
	Probe displayed	P1; P2; P3; P4; SEt; dtr	P1	Pr
	X-REP display Display temperature delay	P1; P2; P3; P4; SEt; dtr 0.0 to 20min00sec, res. 10 sec	P1 0.0	Pr Pr
itr	P1-P2 percentage for display	1 to 99	50	Pi
	Defrost type	EL; in	EL	Pr
FP	Probe selection for defrost termination	nP; P1; P2; P3; P4 [-55 to 50.0°C]	P2	Pr
tΕ	Defrost termination temperature	[-67 to 122°F]	8	Pr
dF.		0 to 120 hours	6	Pr
	(Maximum) length for defrost Start defrost delay	0 to 255 min 0 to 255 min	30	Pr
	Displaying during defrost	rt; it; SEt; dEF	it	Pr
Αd	MAX display delay after defrost	0 to 255 min	30	Pr
	Draining time First defrost after start-up	0 to 255 min n; Y	0 n	Pr
	Defrost delay after fast freezing	0.0 to 24h00min, res. 10 min	0.0	Pr
nC	Fan operating mode	C-n; o-n; C-Y; o-Y	o-n	Pr
	Fan delay after defrost Differential of temperature for forced	0 to 255 min (0 to 50°C)	10	Pr
Ct	activation of fans	[0 to 90°F]	10	Pr
St	Fan stop temperature	[-55 to 50.0°C] [-67 to 122°F]	2	Pr
	Fan on time with compressor off	0 to 15 min	0	Pr
	Fan off time with compressor off	0 to 15 min	0 P2	Pr
	Probe selection for fan management Temperat. alarms configuration	nP; P1; P2; P3; P4 rE; Ab	Ab	Pr
	MAXIMUM temperature alarm	Rel: [0.0 to 50.0°C] [0 to 90°F] AbS: [ALL to 150°C] [ALL to 302°F]	110.0	Pr
LL	Minimum temperature alarm	Rel: [0.0 to 50.0°C] [0 to 90°F] AbS: [-100°C to ALU] [-148°F to ALU]	-50.0	Pr
FH	Differential for temperat. alarm recovery	[0.1 to 25.5°C] [1 to 45°F]	1.0	Pr
	Temperature alarm delay	0 to 255 min	15	Pr
	Delay of temperature alarm at start up	0.0 to 24h00min, res. 10 min	1.3	Pr
	Probe for temperat. alarm of condenser	nP; P1; P2; P3; P4 [-100 to 150°C]	P4	Pr
_2	Condenser for low temperat. alarm	[-148 to 302°F] [-100 to 150°C]	-40	Pr
J2	Condenser for high temperat. alarm	[-148 to 302°F]	110	Pr
12	Differ. for condenser temp. alar. recovery	[0.1 to 25.5°C] [1 to 45°F]	5	Pr
	Condenser temperature alarm delay	0 to 254 min, 255(nu)	15	Pr
	Delay of cond. temper. alarm at start up Compr. off for condenser low	0.0 to 24h00min, res. 10 min	1.3	Pr
-L	temperature alarm Compr. off for condenser high	n; Y	n	Pr
C2	temperature alarm	n; Y	n	Pr
Α	Alarm relay disabling	n; Y	Υ	Pr
13	Fourth relay configuration	ALr = alarm; dEF = do not select it; LiG = Light; AUS = AUX; onF=always on; FAn= do not select it; db = neutral zone; CP2 = second compressor; dF2 = do not select it	ALr	Pr
	Alarm relay polarity (oA3=ALr)	oP; CL	CL	Pr
P	Digital input polarity (18-19)	oP; CL EAL; bAL; PAL; dor; dEF; ES; AUS;	CL	Pr
F	Digital input configuration (18-19)		dor	Pr

Label	Name	Range	Value	Level
nPS	Number of activation of pressure switch	0 to 15	15	Pr2
odC	Compress and fan status when open door	no; FAn; CPr; F-C	F-C	Pr2
rrd	Regulation restart with door open alarm	n; Y	Y	Pr2
HES	Differential for Energy Saving	[-30 to 30°C] [-54 to 54°F]	0	Pr2
Adr	Serial address	0 to 247	1	Pr2
PbC	Kind of probe	PtC; ntC	ntC	Pr2
onF	on/off key enabling	nu; oFF; ES	nu	Pr2
dP1	Room probe display	probe value	-	Pr1
dP2	Evaporator probe display	probe value		Pr1
dP3	Third probe display	probe value	-	Pr1
dP4	Fourth probe display	probe value	-	Pr1
rSE	Real set	actual set	-	Pr2
rEL	Software release	read only	-	Pr2
Ptb	Map code	read only		Pr2

Dixell



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	DIXELL XR60 / XR70						
Kod	lsim	Azalık	FACTORY SETTING	PLUG-IN NEPTUN DI			
Set	Ayar degeri	LS+US	-5,0	-24			
Ну	Fark degen	0.1+26.6°C/1+ 256°F	2.0	4			
L5	Asgan ayar değeri	-50°C+SETA- 58°F+SET	-50.0	-30			
us	Azamı ayar degeri	SET+110°C/SET+	110	-18			
Ot	Yermostat sensor kalibrasyonu	-12+12 C /- 120+1201F	0.0	0			
P2P	Evaporator sensor varligi	n=yok Y=var	Y	Y			
OE	Evaporator sensor satiotatyonu	-12+12 C A- 120+120°F	0.0	Q.			
P3P	Úçuncu sensor varège	neyok Yevar	n	n			
03	Uçuncu sensor kalibrasyonu	*12+12°C /- 120+120°F	0	0			
P4P	Dordúncu sensor varlejs	neyok Yevar	n.	n.			
04	Dorduncu sensor kasbrasyonu	-12/12 C A 120/120 F	0	0			
OdS	Kalkışta çıkış gecikmesi	0+265 dakska	0	0			
AC	Kompresor tekrar çalıştırma gecikmesi	0 - 50 сакжа	1	0			
rtr	P1-P2 duzenšeme yuzdesi	0 - 100 (100=P1 _ 0=P2)	100	100			
CCI	Sürekli döngü süresi	0.0+24.0 seet	0.0				
ccs	Sürekli döngü için ayar degeri	(-55.0 - 150.0 °C) (- 67 - 302 °F)	-6				
COn	Sensdi arızası ile kommpresor açık kalma suresi	0 + 255 dakika	15	0			
COF	Sensor arizasi ile kommpresor kapali kalma suresi	0 + 255 dakika	30	6			
CF	Sicaldik pirimi	C+F	c	c			
rES	Gösterim	in=kesir dE= ondalixlir	dE	οE			
Lod	Sensor gösterimi	P1 P2	P1	P1			
rEdi	X-REP gösterimi	P1 - P2 - P3 - P4 - SE1 - dtr	P1	Pt			
đLy	Sıcaklık gösterim gecilimesi	0 + 20.0 min (10 saniye)	0	0			
dtr	P1-P2 yüzdesel gösterimi	1 - 99	50	50			
tdF	Dehost tipi	EL=elektrik in= sicak gsz	EL	IN			
dПЕ	Defrost sontanderma sicakligi	-50 + 50 C	8	14			
ldF	Defrost aratisten	1 / 120 sast	- 6				
MdF	Azami defrost uzuNugu	9 + 255 dakika	30	40			
dSd	Defrost başlangıç gecikmesi	D=99 dakika	٥	0			
dFd	Defrost strassinda gosterim	n, it SEt DEF		п			
dAd	Defrost sonrasi azami gosterim gecikmesi	0 - 255 dakka	30	ō			

did	Dirtal giriş aların gecikmesi	0-255 daxika	15	0
nP5	Basinc otomatigi aktivasyon sayssi	G -15	15	-
ode	Açık Yapı dürümündə kümpresör dürümü	no Fan CPr F_C	F<	no
rrd	Açık kaps alarmında düzenlerilerin yeniden başlaması	n – Y	У	у
HES	Enerji tasarrufu için fark degeri	(-30 C-30 C) (- 54 F-54 F)	a	
PbC	Sensor turu	Ptc ntc	1	nts
onF	aç/kapa özelliği aktifliği	nu off ES	rec	ES
dP1	Ode sensoru		nu	
oP2	Evaporator sensor gosterimi	-	-	
вР3	Uçuncu sensor gösterimi	-	1070	
dP4	Darduncü sensor gasterimi	-	-	
rSE	Gerçex ayar degen	ayar degeri	-	
rEL	Software vereiyonu	- 1	-	
Ptb	Parametre kodu		_	

Fdt	Drenaj suresi	0-120 dakka	0	3
dPo	Kalkıştan sonraki	neldF süresinden	n .	0
	defrost Hizli sogutmadan	sonra y=hemen		
dAF	sonra defrost gecikmesi	0 - 23 saat 50 dakka	0.0	0
Fns	Fan çalışma modu	C-ri, o-ri, C-y, o-Y	0-0	C-n
Fnd	Defrost sonrasında tan gecikmesi	0-255 daki+s	10	4
Fet	Zodanmış fan aktivas yonlarında sıcakek fark degen	0-50°C	10	10
FSt	Fan durma sicakligi	-50-50° C#58-122° F	2	50
Fon	Kompresor kapaliyken fan açık kalma suresi	D=15 dakka	0	0
FoF	Kompresor kapatiyken fan kapati katina sûresi	0-15 dakika	۰	0
ALc	Sicaklık alarm konfigürasyonu	rE= ayara bagli Ab = mudak depere bagli	Ab	Ab
ALU	Azamı sıcaklık alarmı	Seti 110.0°C Set+230°F	110	20
ALL	Asgan sicaklik alarmi	-50.0 C : Set/ - 58 F : Set	-50.0	-30
AFH	Sicaklik alarmi duzeltmesi için fark degeri	(0.1°C-25.5°C) (1°F-45°F)	,	1
ALd	Straklik alanmi gerikmesi	0 + 255 dakka	15	0
dAo	Kalkışta sıcaklık alarmı gecikmesi	0 - 23saat 50dak.ka	1,Mar	0
AL2	Kondanser duşuk sıcaklık alarmi	(+55 = 150°C) (+67= 302°F)	:-40	
AU2	Kondanser yüksek secaklık alarmı	(+65 + 160 C) (+67+ 302 F)	110	
AH2	Kondanser sıcaklık alarmı düzeltimi için fark ayar degeri	[0.1 C - 26.5 C][1 F - 45 F]	5	
AdZ	Kondanser sicaldik alarmi gecikmesi	0 - 254 (davika) 255×nU	15	
dA2	Kalkışta kondanser sıcaklık alarmı gecikmesi	0.0 - 23n 50	13	E .
BLL	Kondanser duşük sicaklık alarmında kompresor kapanması	n(0) - Y(1)	n	-
AC2	Kondanser yuksek sicaklik alarminda kompresor kapanmasi	n(D) - Y(1)		
i1P	Diptal gins polantesi	oP+açma CL=xapam	¢L.	
inf	Dytal giris konfigurasyonu	EAL DAL PAL OOF GEF. Hb AUS	gor 100	

