EVJ536N2

ENGLISH

auxiliary probes.

Alarm Buzzer

INSTALLATION PRECAUTIONS

CATIONS section.

BE AWARE OF

Pr3>0

17 18 19 20 21

Default values

k2 = 8A = Heating

K3 = 16A = Light

K1 = 30A = compresso

shocks

12Vac/dc power supply

alternative to BLE/LOG

DIMENSION AND INSTALLING

Dimensions in 11,4x76,4x48,5mm (in); Front Panel mounting

111.4

a way as to need the aid of a tool to remove them.

ELECTRICAL CONNECTION

as possible from the signal cables.

The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in)

Ensure that the working conditions are within the limits stated in the TECHNICAL SPECIFI-

Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or

In compliance with safety regulations, the device must be installed properly to ensure ad-

equate protection from contact with electrical parts. All protective parts must be fixed in such

Use cables of an adequate section for the current running through them.

17 18 19 20 21 22 23 Ic1 Pr3 Pr2 Pr1 Ic3

*

The unit does no support 4..20mA o 0.10V humidity probes

Pr3=0

To reduce any electromagnetic interference connect the power cables as far away

Door switch or configurable

Temperature and Humidity controller for Seasoning, 2.8" display with touch keys





Temperature and humidity controller for Seasoning with 6 cycles

Humidity probe EVCO EVHTP500/EVHTP520 only; Cabinet and

Real time clock RTC and memory for data logging and BLE for communication with APP EVconnect (Android).

6 relay configurable outputs, 30 A res. @ 250 VAC compressor relay

TTL communication port for optional RS485/RTC external interface

76,4

(Cap. First Handling)

48.5

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EVJ536

K4 K2

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Humidity EVCO probe EVHTP500/EVHTP520

Evaporator / Configurable / Digital input

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1010

К1 K5

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Cabinet probe

(programs) made by three processes with configurable parameters.



When the device is off, the display shows the off icon for some seconds and then turn to black for energy saving.

BE AWARE: after turning on the unit the regulation re-starts automatically if a cycle was running before the black-out.

5. USER INTERFACE AND MAIN KEY FUNCTIONS

LED ON OFF BLINKING Cooling request * compressor Off Protection delay time De-humidify reque Defrost delay time \mathbb{A} defrost Dripping Evaporator fan delay time @ Evaporator fans on Evaporator fan off De-humidify, Humidify cycle Humidify request $\leq i > i$ -lumidify relay \bigcirc De-Humidify request Delay when de-humidify with de-Humidify relay leating request ₩ Heating relay HACCP HACCP Alarm loggged New alarm logged ٢ Energy saving × Maintenance Collegamento remoto C/F/ Unit of measurement % Auxiliary function AUX Auxiliary not active Auxiliary relay \odot Light on by key Light off Light on by door oper Ŵ Active alarm Over the sepoint Under the sepoint keyboard status open Door Door closed Cycle in stand-by, another func-tion is running. \mathcal{O} Running Cycle No cycle running

6. KEY COMMANDS

Key commands can be direct (upper functions) or by 2 seconds time based (lower functions MENU-STOP/OFF):



BACK OF EXIT FROM A SUBMENU OR THE SETPOINT touch the key

7. AUX KEY FUNCTIONS

User commands are available touching the $\ensuremath{\text{AUX}}$ key



CONFIRM: Select an item with up and down keys, press SET to confirm or to abort:

Manual Defrost Set to Confirm



Some functions can be disabled by repeating the same procedure (Energy Sav ing). Other functions will proceed following their process until the end (Defrost,

2 3 Drying Dripping Seasoning 6 Phases

Each process or phase is provided with its own temperature and humidity setpoints and timer. The regulation proceeds until all the processes are completed and after the seasoning (3) it must be manually stopped

10. START A PROGRAM

SELECT THE PROGRAM Touch MENU to list the programs, select an item with up or down arrows and push SET

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CHANGE THE SETPOINTS AND TIMER BEFORE STARTING

To change temperature and humidity setpoints and/or the time duration of any process push MENU for 2" and enter the selected program (see the program configuration)

START A SELECTED CYCLE





The lower part of the display shows the running program, the process and the phase with the countdown time.

CHANGING THE SETTING OF A RUNTIME PRO-CESS

If enabled in your unit, it is possible to change the setpoints and time duration as follow

Push SET key, the temperature setpoint appears with the available 1. range



- Push up or down arrows to change the value and then SET to confirm 2
- 3. The humidity SET2 appears
- 4. Push up or down arrows to change the value and then SET2 to confirm
- 5 The timer of the process appears



- Push $\ensuremath{\text{SET}}$ and then up or down arrows to change the hours on the 6 left, push SET to confirm
- Push SET and then up or down arrows to change the minutes on the 7 right, push SET to confirm.

INTERMEDIATE EXIT: wait 5 seconds or push

12. END OF A PROGRAM

AUTOMATIC END After all the countdown timers of the 3 processes are expired, the cycle is finished and the "END" label appears on the bottom, the regulation proceed until the manual stop

MANUAL STOP available at any time, keep pushed the off key to stop the cycle, the "STOP" label appears for some seconds, the cycle icon is off.



The same cycle or another program can be selected to be restarted



All the alarms events are displayed by rotation on the bottom line of the display

K4 = 8A = Humidifyic1= Door switch or configurable K5 = 5A= Evaporator Fan K6 = 8A= Defrost PRECAUTIONS FOR ELECTRICAL CONNECTION

Pr1 =

Pr2=

Pr3 / ic3 =

 \odot

- If using an electrical or pneumatic screwdriver, adjust the tightening torque Moving the device from cold to warm places, there may be internal condensing. Wait
 - about an hour before switching on the power

- Air Change)

Some functions may not be visible if the unit status is not running or the model

-	Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section <i>TECHNICAL SPECIFICATIONS</i> .	does not support the function itself.		
_	Disconnect the power supply before doing any type of maintenance.	Manual defrost: Execute a defrost, if the evaporator probe is present "Pr3=5"		DITY ALARMS are available during the final part of
-	Do not use the device as safety device.	and the evaporator condition allows it. With no evaporator probe configured the	the program: the 3d proce	ss of Seasoning.
-	For repairs and for further information, contact the EVCO sales network.	defrost is time based.		larm sounding can be reset touching MENU/SET
		Air: it executes a stop regulation interval with Air output enabled.	keys.	
4.	FIRST HANDLING	Next : it jumps to next process/phase (dripping, drying, seasoning) of a pro- gram skipping the loaded countdown in that moment.		Faulty Sensor alarms: a faulty probe or wrong
1.	Install following the instructions given in the section DIMENSION AND IN- STALLING.	Air Change: Run-Rest and Defrost do no skip, but follow their own regulation.		probe connection is showed by "". The alarm icon and an alarm message is available on the
2.	Power up the device as shown in the section ELECTRICAL CONNECTION.	Energy Saving : Enable the energy saving function changing the "temperature set + r4 differential". Repeat the operation to disable the function.		bottom line.
3.	Check the value of parameter PO. Configure the device with configura- tion parameters: relay uc1uc6, inputs Pr2 Pr3 e ic1 and uc3;	Aux: if the auxiliary output is configured as manual control.		
4.	Then check that the remaining settings are appropriate;			<u>/</u>
5.	Disconnect the device from the mains.	OFF W key to EXIT	Probe 1 failure	
6.	Make the electrical connection as shown in the section ELECTRICAL CONNECTION without powering up the device.		RTC	RTC alarm and Power failure With rtc and pa-
7.	To connect the unit to an RS-485 network connect the interface EVIF22TSX or EVIF23TSX (With RTC). A network communication is al-	8. LIGHT COMMAND KEY		rameter "Hr0=1" it is recorded if longer than > A10. The alarm message is showed on the bot-
	ternative to local transmission and data recording, necessary set BLE=0.	$\overline{\mathbf{w}}$	17:31	tom line of the display, push a key to check the
8.	Power up the device.	Touch once the light command to turn ON or OFF the light.		clock. Push a key to check the clock setting then mes-
				sage disappears.
		The light output turns on by opening the door if $ic1=7/8/9$.	01/01/2017	5 11
U	Device ON/OFF		01/01/2017	
		9. PROGRAMS		
Tou	ch the ON-OFF key for 2", the device alternatively turns on or Off.	9. PROGRAWS	LIST OF THE ACTIVE ALA	
		A program is made by 3 sequential processes:	All the active alarms are also	o listed into MENU_SERVICE_ALARMS.
			LIST OF HACCP ALARMS I	
			All the Haccp alarm are liste	d into the MENU_SERVICE_HACCP log.

EVCO S.p.A. | EVJ536 | Instruction sheet ver. 1.0 | Code 104J536E103 | Page 2 of 5 | LCT 36/18 To reset the blinking alarm icon enter the MENU_SERVICE: Reset data Parameters memory

14. MENU - PROGRAM CONFIGURATIO

Touch the MENU key for 2 seconds to enter the loaded program configuration, push SET and then select the item with up or down and the SET to confirm

Programm 03 Run Rest Air Control Air Interval Air Interval Language	C 12	Programm 03 Dripping Dry 1 Dry 2 Dry 3 Dry Seasoning		
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Program values can be changed by the user also during a running cycle. The new value will be loaded if the corresponding process/phase hasn't been executed yet or with next program restarts.



At the end of the Dripping process it is possible to activate a Rest period. The whole Drying process is made by 6 phases where the Run-Rest function is available

It is also possible to activate a defrost during the Rest duration, both will follows their timers

BY default the defrost is manual, to enable the automatic timer set "d0>0"

PROGRAM 1..6 STRUCTURE

1 -DRIPPING (*)		
DURATION	Hours	0= skip process
CORE SET	°C/°F	only display
SET 1 temperature	°C/°F	cabinet regulation temperature
SET 2 Humidiy	%	0=humidity not regulated
Low speed fan	Y/N	Low speed fan on (Evap fan stopped)
Run-Rest	Y/N	execute a Rest at the end of the drip
2- DRIYNG (*) PHASE 16		
DURATION	Hours	
SET 1 temperature	°C/°F	cabinet regulation temperature
SET 2 Humidiy	%	0=humidity not regulated
low speed fan	Y/N	Low speed fan relay
Run-Rest	Y/N	Enable Run-Rest function
3- SEASONING (*)		
DURATION	Days	
SET 1 temperature	°C/°F	cabinet regulation temperature
SET 2 Humidiy	%	0=humidity not regulated

	=)	
ture	°C/°F	cabinet regulation temperatu
	%	0=humidity not regulated
	Y/N	Low speed fan relay
	Y/N	Enable Run-Rest function

Running interval time

Resting duration time

Select Air change in processes 1..3 (*)

Air Interval if >0. if 0 = only manual.

MENU COMMON PROGRAM FUNCTIONS

6	
1	Programm 03
1	Run
1	Rest
1	Air Control
1	Air Interval
1	Air Time
J	Language

Enable Air Change if >0**Run-Rest**

The Run-Rest is a common repetitive function available by selecting it at the end of the Dripping (1) and along the whole Driyng 1..6 phases (2) or in seasoning(3)

The "Rest" function is repeated if the interval time is >0, during the "Rest" time no regulation is executed. It is possible to combine a defrost by enabling the parameter "d13=1". Configuration parameters are available under MENU.

(*) Air change

Low speed fan

Run-Rest

The Air Change is a common repetitive function that activates the Air relay after an interval time, while the regulation is turned off. If no relay is configured the function just stop the regulation control for the time duration. Configuration parameters are available under the MENU. By default the function is manual.

MANUAL FUNCTION (Default) with Air interval=0 and operating with AUX key.

CYCLING FUNCTION

If "Air Interval > 0 hours" the function repeats after each interval with the fol-

To access and configure parameters Internal value Alarms Reset data memory Parameters Restore Show the HACCP Log from last Alarm Reset. Haccp

To show I/O values of the I/O signals and variables To show the list of active alarms Alarm Reset (code 149) Re-load original parameter map. ! BE AWARE (**)

(**) custom configuration may be different from default values. By reloading the original values the loads can be damaged if not corresponding.

REAL TIME CLOCK

Real time clock functions are available if provided on board or connected with external interfaces EVIF23TSX or EVIF25TBX (Evlink), Enter this menu to set the clock. Function related to Clock



Regulation functions related to the clock:

daily defrost time table: Hd1..Hd6 if enabled the unit always performs the defrosts at the selected time

daily Air change time table: F31..F36 if enabled the unit always performs the Air Change at the selected times.

daily Energy Saving H01..H02

16. PARAMETERS AND PASSWORDS

ENTER: Push MENU key for 2 seconds





password value corresponding to "PAS=-19" to enter all the parameters.

17. REGULATION

Temperature regulation

The temperature setpoint can be set between the limits min "r1" and max "r2" The temperature is regulated with the following outputs:

$\underset{\text{Cooling between "SET+r0= on" (1) and "SET=off" (2).}{\overset{\text{Cooling between "SET+r0= on" (1) and "SET=off" (2).}}$

Heating between "SET-r12= on" (3) and "SET=Off" (4).



TEMPERATURE REGULATION WITH NEUTRAL ZONE

Available by setting "r11<>0" the value is inserted between the SET and the dif ferential

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- w Heating regulation "SET-r11-r12" = on (3) and "SET-r11" = OFF (2).

Temp + r0 * (2) r11 Set T 4 r11

OPEN DOOR

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The regulation can be suspended depending on "ic1" digital input function. Regulation can be restarted by forcing the timer setting "i3"

Humidity regulation SEt2

The Humidity is basically controlled by the following algorithms: \bigcirc

de-humidify is controlled between "SET2+rd0=On" (1) and "SET2=Off" (2)

humidify is controlled between "SET2-rh0=On" (3) and "SET2=Off" (4).



A NEUTRAL ZONE is available by setting "rh1" for the humidify process and "rd1" for the de-humidify process.



OPEN DOOR regulation is suspended depending on "ic1" digital input function. Cooling regulation can be restarted by forcing the time parameter "i3".

DE-HUMIDFY WITH COMPRESSOR

set rd4=1 to use the compressor de-humidify function.

set rd4=2 to use the compressor de-humidify function together with heating relay

18. EVAPORATING FAN

Evaporating fan follows the "F0" parameter

FAN STATUS

Parameter "FO" allows the following fan behaviour:

- 0= Fans on with regulation on (***)
- 1 = Always ON, (default)
- 2= ON with compressor ON,
- 3= Temperature threshold F1, if the evaporator probe is enabled "Pr3=5".
- 4= ON with compressor ON, if the evaporator probe is enabled "Pr3=5"

For safety reason the fan stop temperature "F1" must be set very high to avoid stopping the fan during the heating.

OTHER SETTINGS

FAN TEMPERATURE THRESOLD "F1" to lock for high temperature if "Pr3=5" Working with heating elements F1 must be set at high values to avoid turning it off

DEFROST with "F2" to determine the fan status. DRIPPING with "F3" to determine the fan stop time after the defrost.

By setting uc()=14 as "evaporator fan 2": if the "low speed fan selection" is enabled, the "evaporator fan 2" runs while the main Evaporator fan is stopped.

FAN CYCLES F0=0

- (***) By using "F0=0" the evaporators fans can follow on-off cycle:
- 1) when there are no temperature or humidity request: F11, F12
- 2) when there is a **de-humidity request** with compressor: rd2-rd3
- 3) when there is a humidity request and there is no humidity relay: rh2-rh3

DEFAULT VALUES: these values allows to operate normal function, Fan_on values F11, rd2 and rh2 =60" 0 while the Fan_Off values F12, rd3 and rh3 are equal to 0": When there is a request the fans turns on. TO ACTIVATE A CYCLE: By setting F12, rd3 and rh3>0 the fan cycling function is activated when requested.

TO STOP THE FUN DURING A FUNCTION: setting F11 & F12=0, rd2 or rd3=0 or rh2 & rh3=0 the fan output is disabled even the functions request is to turn it on

19 OTHER REGULATION





lowing Control Process: 0= all the processes 1-2-3 (dripping-driyng-seasoning), 1= only 1 & 2 dripping-driyng processes, 2= only 2 & 3 driyng-seasoning processes,	-r12 ·····	19. OTHER REGULATION COMPRESSOR PROTECTION (default value: C2= 3 minutes)		
= only 1 & 3 dripping-seasoning processes.15. OTHER MENU CONFIGURATION	if "r11<0" the neutral zone is available only for heating side 3-4.	Power on: the first compressor start can be delayed with "C0" minutes. PROTECTION : during normal regulation "C2" keeps the compressor off for the time set in minutes, while "C3" keeps the compressor on for a minimum value in seconds.		
Air Time Language Language Select language	TEMPERATURE REGULATION and DE-HUMIDIFY WITH COMPRESSOR By setting "rd4=1" the de-humidify function with compressor is enabled, while setting "rd4=2" the same function is performed by turning on also the Heating output on with the Compressor.	PROBE SAFETY : if a faulty or wrong probe connection events happen, the display shows "". The compressor follows the "C4" (off) & "C5" (on) time in minutes.		
Service Service Real Time Clock Service Service Service Service Service Service Service Real Time Clock Service Service Service	TEMPERATURE PRIORITY OVER DE-HUMIDIFY with compressor if "rd4>0". The " r14 " parameter can be configured as the following priority: 0 = Temperature and humidity are independent and follow their requests. 1 = Heat: if the temperature drifts up, the de-humidify is suspended. 2 = Heat-Cool: if the temperature drifts up or down, the de-humidify is suspended.	CONDENSING and CONDENSING FAN (default: to configured) Condensing fan follow the compressor on cycles if no condensing probe is con- figured. By enabling the condensing probe Pr3=1 the following controls are available: "Fc1+Fc2" Temperature threshold to turn on the fan		
LANGUAGE To select the operative language. This version fully supports "I" and "E". MENU_SERVICE to configure the I/O, service and maintenance.	3 = Cool: if the temperature drifts-down, the de-humidify is suspended. HEATING MODULATION The heating output can be modulated with "r13" by setting a duty cycle interval			
Programm 03 Run Rest Air Control Air Interval Air Time Language Alar Air Time Language Real Time Clock Real Time Clock Real Time Clock Real Time Clock Real Time Clock	between 10 and 60". The "r13=60" value (default) means that the heating relay is always on when the request of heating is active. Be aware that increasing the switching frequency of the relay may introduce long term contact duration concerning. For safety reasons the fan stop temperature "F1" must be set very high to avoid stopping the fan during the heating.	DEFROST BY default the defrost is manual , to enable the automatic timer set "d0>0".		

EVCO S.p.A. EVJ536 Instruction sheet ver. 1.0 Code 104J536E103 Page 3 of 5 LCT 36/18										
兴	Temperature alarms are enabled during	the Seasoning: threshold. To configure the alarm: "A2"	Clock drift:		≤	60 s/mor	nth a 25 °	C (77 °F).		
The defrost control is performed after the "d0" interval if>0 and can be selected among the following mode "d1": 0=electric heater, 1= hot gas, 2=stop	0= disable, 1=relative to SET, 3=absol	Clock battery autonomy in blackout:			> 6 months 25 °C (77 °F).					
compressor. TEMPERATURE THRESOLD is determined by "d2" and is available only if the	"HIGH TEMPERATURE " setting the "A4 0= disable, 1=relative to SET, 3=absol	Clock battery charging time:			24 h (supplied from the device).					
evaporator probe is enabled " Pr3=5 ". MAXIMUM DURATION determined by the time interval " d3 " in minutes. DEFROST AT POWER ON determined by the parameter " d4 ": 0 = no , 1 = port evaporating(\$) (2) paywar on § part evaporating(\$) (\$) if available	TEMPERATURE ALARM DELAY After a power-on with "A6" minutes?	Analogue inputs:	р	2 for PTC or NTC sensor (cabinet and auxiliary probe*). 1 humidity Evco probe EVHTP500/EVHTP520						
post overcooling(*), 2=power-on & post-overcooling(*). (*) if available. DEFROST DELAY: "d5" in minutes following the "d4" selection.	During normal regulation with A7 in min After a defrost with "A8" in minutes.	nutes.	Digital inputs:		1	configura	ble			
DISPLAY LOCKED in DERFOST using the "d11": 0=not locked, 1= locked to SET+2, 3= label.		Other inputs:	gurable a	le auxiliary probe or pressure switch.						
COMPRESSOR STATUS PRE DEFROST time to keep the compressor on before hot gas defrost: 0=no enabled, d15>0 enabled.	HUMIDITY ALARMS			(a malk		eccanico (Ci		.14.	
DEFROST SYNCHRONISED with REST using the parameter "d13"=1 if a Rest	Humidity alarms are enabled during the "LOW HUMIDITY ALARM" setting the A	-	Digital output:	6 a reie	elettrom	ieccanico (configurat	i per dela	uit:	
function is performed also the defrost is activated.	"HIGH HUMIDIY ALARM" setting the AH		(K1) Compressor:		S	PST 30 A	res. @ 25	0 VAC		
	Humidity alarm delay "AH7" in minutes	5.	(K2) Heating:		s	PDT 8 A re	es. @ 250	VAC;		
RTC DEFROST When the clock function is available, the user can set 6 dai- ly defrosts that starts at "hd1hd6 > 0" parameters. The function is independ-	POWER FAILURE - rtc Clock failure		(K3) Light:			SPST 16A res. @ 250 VAC				
ent from any other timer based functions of the unit.	It is signaled after a power failure longe		(K4) Huidify:			PST 8 A re	es. @ 250	VAC;		
♣.			(K5) Evaporator fan		s	PST 5 A re	es. @ 250	VAC;		
DEFROST OUTPUT AS HEATER/DE-HUMIDIFIER	DOOR OPEN ALARM It occurs when the digital input is set a	s "ic1=7/8/9" is active after the "i2" delay	(K6) defrost			PDT 8 A re	ac @ 250	VAC		
Setting "rd5=1" it is possible to use the defrost output also as heating element.		contact closed, "iP1=1" active when con- n is disabled, and "i2=0" the alarm starts					25. @ 250	VAC;		
AUXILIARY RELAY (default value: to configured)	when the door is open.		Type1 or type 2 action			ype 1.				
When configured with "uc ()=15" the auxiliary relay works as: • on-off relay based on the cabinet probe reading if no auxiliary	MULTIFUNCTION ALARM		Additiona fetures for Type	or type 2 ad				1 000	0.40	
probe configured;	It occurs when the digital input is set when contact closed, "iP1=1" active wh	as "iC1=2" is active. With "iP1=0" active en contact is open.	Display: Buzzer:			FT 2,8 incl n board.	nes, 16 c	biours, 320) x 240 p	xei.
 on-off relay based on the the auxiliary probe reading if Pr3=4; Manual On-Off via AUX key. 	Regulation is not modified.		Communication port:			TL picobla IODBUS co				RS485
After setting the device output relay, configure the regulation as follow:	THERMAL SWITCH 1 ALARM	as "iC1=5" is active. With "iP1=0" active			10		Silverter (aiternativ	(U BLE)	
"u6" Heating regulation (0), cooling regulation (1), manual via AUX key (2).	when contact closed, "iP1=1" active when	en contact is open. The regulation is sus-								
"u7" Setpoint temperature to turn off the output. "u8" Temperature differential of "u7" to turn on the output .		disappears. Starting from the very first ts "i8" during the "i7" interval. When the	27. PARAMETE	RS KEY						
	number of event is reached the alarm alarm is always automatic, with "i8=1"	must be manually reset. With "i8=0 the	Using the EVJKEY key f	llow these						
For probe error the relay is open.	alarmis always automatic, with 10–1	the diarm is always manual.	UPLOAD from REGULA dip-switches 1-2-3 set		JKEY:	insert th	e cable	to TTL a	nd the l	VJKEY
AUX OUTPUT VIA MANUAL FUNCTION	PRESSURE SWITCH ALARM		DOWNLOAD from EVJ EVJKEY dip-switches 1-			FOR: ins	sert the	cable to	o TTL a	nd the
By setting "u6=2" the auxiliary relay can be turned on or off entering the AUX		as "iC3=1" is active. With "iP3=0" active nen contact is open. The regulation is sus-								
menu and selecting AUX function.	pended and restarts when the alarm	disappears. Starting from the very first	Insert the EEVJKEY int leds blink together, th							
20. DIGITAL INPUT 1 CONFIGURATION	number of event is reached the alarm	ts "i8" during the "i6" interval. When the must be manually reset. With "i8=0 the	blinking: DATA TRANSFER OK	communic	ation le	d" is on				
The digital input 1 can be configured in "ic1" parameter, default door switch	alarm is always automatic, with "i8=1"	DATA TRANSFER OK "error led" is on.								
(7): 0= Disabled,	CONDENSER OVERHEATED									
1= Energy Saving;	Setting the condenser probe " $Pr3=1$ " and the temperature threshold C6 the unit									
2= Alarm Multifunction; Only signaling 3= Reserved;	shows the condenser alarm as soon as									
4= Remote Onoff; Turns Off and on the unit, a running cycle ends.	COMPRESSOR BLOCKED (for high co	ondensing)								
5= Thermal switch; i8 events , interval i7. i8=0 autoreset 6= Reserved;	5	and the temperature threshold "C7" the temperature rises above "C7" for the								
7= Door open 1 : Compressor and Fan off, Light on;	time "C8". Compressor regulation is loc	ked. Manual reset is necessary by turning	Communication LED			D				
 8= Door open 2 : Compressor off, Fan and Light on; 9= Door open 3 : Light on; 	off and the on the unit. Be aware tha stopped.									
							EVJKEY		•	
Input polarity is determined by "iP1": 0= active with closed contact; 1= active with open contact.	24. EVCONNECT EVLINK		port A						<i>,</i>	
OPEN DOOD (Information 114, 7)	Communication functions cannot	work tougher: the presence of embedded		Error	LED	/				
OPEN DOOR (default value: ic1=7) Regulation is suspended while the compressor can follow "i3" settings:	or remote EVLINK (eg EVIF25TBX) pre interface EVIF22TSX o EVIF23TSX and	vents the user to connect a RS485 serial	MODBUS	Upload				Downl		
"i3=-1" the compressor follows its regulation, "i3=0" compressor goes off,	Hr0 enables the rtc 0=no 1=Yes. Conn	ecting an EVLINK "Hr0=1" is automatical-	Ē	EVJ500->	EVJKEY			∬ \/ E V JKE	Y->EVJ5	00
"i3>0" the compressor restarts after this delay.	ly enabled and the "rtc" alarm appea EVIF23TSX the Hr0 parameter must be	ars if the EVLINK is removed. Inserting manually set.					ITCHES			
21. CONFIGURATION INPUT 3	BLE = EVLINK presence. The serial inte	erface EVIF22/23TSX modules operates if								
By selecting the parameter "Pr3" the following functions are available: 0 = digital input (configuration via ic3)	BLE=0 but the BLE and the data loggin \mathbf{rEt} = Local or remote transmission. Wi	th EVIF25TBX its value is always rEt=0.								
0 = digital input(configuration via ic3)1 = condenser probe(controls Condenser fan and alarms)	PA1 = 824 service password access fro PA2 = 642 user password access from		28. SEASONIN							
2 = Core probe (only display) 3 = External air probe (only display)	ייידב עזכו אמסאיטוע מננפטא 1011	EVOCUMENT ALL.	Entering the MENU (2")			ns are pr	eloaded	with the	e same i	baram-
3 = External air probe(only display)4 = Auxiliary probe(regulation u6,u7,u8.)	25. LOCAL PARAMETER P	ASSWORD	eters as shown in the fo							
5= defrost probe 2 (defrost control)	To access the parameters with local part PAS =-19 service password for all the p	5				Dry	ing			
PRESSURE SWITCH CONFIGURATION	PS1 = 1 password to access level 1 pa			Drei	D			Den	Des	Sea
By selecting the parameter "Pr3=0" it is possible to configure also the function			Drip- ping	Dry 1	Dry 2	Dry 3	Dry 4	Dry 5	Dry 6	so- nin
of the digital input via iC3": 0 disabled e 1=pressure switch (see alarms).	26. TECHNICAL DATA									g 1
22. RELAY OUTPUT CONFIGURATION	Purpose of the control device:	function controller.	Duration 10 ore	15 ore	24 ore	24 ore	24 ore	24 ore	24 ore	gior
4	Construction of the controller device:	buil-in electronic device.	C-14 00.5	10.0	10.0	10.0	17 0	14.0	15.0	no 14
Expert users only Relay functions are configurable through uc16 parameters that corresponds to	Case:	Plastic Self estinguish or Open frame.	Set 1 20 C	19 C	19 C	18 C	17 C	16 C	15 C	С
the K1K6 outputs. The default configuration:	Category of heat and fire resistance:	D.	Set 2 0 %	75%	68%	65%	68%	72%	76%	82 %
0 = Unused 1 = Umidify (rh) K4	Dimensions:		Low speed no	no	no	no	no	no	no	no
2 = De-Umidify (drh) (the function is performed by the compressor) 3 = Alarm	Plasti 111,4 x 76,4 x 48,0 mm (4 3/8 x 3 x		Rest no	yes	yes	yes	yes	yes	yes	no
4 = Compressor K1	1 15/16in)	x1 7/8)	Defrost man	man	man	man	man	man	man	man
5 = Heating K2 6 = Condenser fan	Mounting methods:	panel with elastic mounting flaps or backpanel with double stick tape	Air change man	man	man	man	man	man	man	man
7 = Device status on or off,	Front Panel degree of protection:	IP65	Man= manual by the Al	IX key.						

Man= manual by the AUX key. 0%= the humidity is not controlled.

7 = Device status on or off,	
8 = Air change	
9 = Light	K3
10 = Compressor 2	
11 = Evaporator fan	K5
12 = Defrost	K6
13 = Reserved	
14 = Evaporator fan 2	(Low speed fan)
15 = AUX	(Auxiliary u6,7,8)

TEMPERATURE ALARMS

Be aware to accurately verify the functions related to the relay outputs, configuration errors may activate unwanted loads. The reloading procedure of a default map is available in "MENU_SERVICE_ Parameters Restore" and it must be done disconnecting the loads.

23. ALARMS	Conformity:
	RoHS 2011/65/CE
Alarms are displayed on the bottom line of the display	
PROBE FAILURE: typical problems: open or short circuited sensor, wrong sen-	EN 60730-1
sor type or bad connection.	Power supply:
"Probe 1 failure" Regulation probe failure, heating regulation is suspended, cooling regulation follow the on-off cycle C4-C5 in minutes.	Earthing methos f
"Probe 2 failure" Humidity probe failure, humidity and de-humidity regula-	
tions are suspended.	rated impulse-wit
"Probe 3 failure" 3d probe failure. If working as evaporator defrost is per-	0
formed by time "d3", if working as condenser probe the condenser fan follows	Over-voltage cate
the compressor, if working as auxiliary the auxiliary relay turns off.	Sftware class stru

Front Panel degree of prote	e of protection:		IP65			
Connections:						
screw connector for wires to 2,5 mm ² .	up	Removable te quest 2,5 mm	erminals by re- 2;	TTL Picoblade.		
Maximum lenght for connect	ctior	n cable:				
power supply: 10 m (32,8	ft)		analog inputs: 1	0 m (32,8 ft)		
digita inputs: 10 m (32,8 ft)		digital outputs:	10 m (32,8 ft).		
Operating temperature:			-5 55 °C (da 3	32 a 131 °F).		
Storage temperature:			from -10 to 70)°C (da -13 a 158 °F).		
Operating humidity:	Operating humidity: Pollution status of the control device:		from 10 to 90 % not condensing.			
Pollution status of the contr			2.			
Conformity:						
RoHS 2011/65/CE		WEEE 2012/19	9/EU	REACH (CE) n. 1907/2006		
EN 60730-1			IEC 60730-1			
Power supply: 12v	ac/c	dc (±10%), 5	50/60Hz(±3 Hz), 10 VA max			
Earthing methos for the cor	Earthing methos for the control device		None.			
rated impulse-withstand voltage: Over-voltage category: Sftware class structure:			4 KV.			
			111			
			Α.			
Real time clock:			Incorporated se	condary lithium battery		

RUN - REST and AIR CHANGE DEFAULT VALURE							
 Run:	3 hours	Rest: 30 minuti					
Air control:	all the processes						
Air interval:	0 hours	Air change: 10 minuti					
Funcrion management							
 To disable a phase/process set the duration to 0.							
 Core temperature SET is only for display.							
 By default it is enabled the setpoint and timer change function during the cycle with P31=1. With P31=0 the SET and the timer can just be viewed.							
 A setpoint value changed during the active cycle can be saved into the active program phase/process if P32=1. Default disabled P32=0 .							

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29. PARAMETERS									
AIR CHANGE AND RUN-REST PARAMETERS									
Run:	5 Hours	Rest: 10 minutes							
Air Control:	All processes								
Air interval:	0 hours	Air change: 10 minutes							

LEVEL 1 PARAMETERS password PS1

CA1	0.0	Probe 1 calibration
CA2	0.0	Probe 2 calibration
rO	2.0	Heating differential
r12	-2.0	Cooling differential
rd0	3.0	De-humidify differential
rh0	-3.0	Humidify differential
d0	0 hours	defrost interval
d2	8	End defrost temperature
d3	30 min	Defrost duration
PLi	1	Light key configuration in stand-by
Pbu	2	Buzzer enabled for alarm and keys

SETPOINT LIST (FROM KEYBOARD)

₽≣	N.	PAR.	DEF.	SETPOINT	MIN MAX. (°c)	
B -		SET	*	temperarure setpoint	r1r2	
		SET2	*	umidity setpoint	h1h2	
* it changes according to the program and to the phase (look at chapter 29)						

PARAMETER LIST

	N.	PAR.	DEF.	ANALOG INPUTS	MIN MAX.	
	1	CA1	0	Ambient probe offset	-25+25 ° C/F	
	2	CA2	0	Humidity Probe Offset	-25+25 %rH	
	3	CA3	0	Auxiliary Probe Offset	-25+25 °C/F	
	4	PO	3	Probe Type EVHTP500 T+Rh probe. EVHTP520 T+Rh new probe.	0= ptc+ EVHTP500 1= ntc + EVHTP500 3= ptc+ EVHTP520 4= ntc + EVHTP520	
	5	P1	1	Enable °C Decimal Point	0=no 1=yes	
	6	P2	0	Temperature Unit Of Measu- rement	0 = Celsius 1 = Fahrenheit	
O,	7	Pr3	o	Probe 3 configuration	 a Digital input b = Digital input c = Cordenser Probe 2 = Core Probe 3 = External Air 4 = Auxiliary Probe 5 = Defrost 2 Probe 	
	8	Ρ5	1	Value Displayed (left side) Setting to 0 the display is off.	0 = None 1 = Input 1 2 = Input 2	
	9	Р6	2	Value Displayed 2 (right side). Setting to 0 the display is off	3 = Input 3 4 = Setpoint 1 5 = Setpoint 2	
	10	P8	5	Display Refresh Time to in- crease/decrease a digit.	0255 s	
	11	Р9	5	Display 2 Refresh Time to in- crease/decrease a digit.	0255 1/10 sec s	
	12	P31	1	Enable Runtime Set Change	0=no 1=YES	
	13	P32	0	Enable P31 Change Memory. Available only for tempera- ture and humidity setpoints	0=no 1=YES	
	N.	PAR.	DEF.	TEMPERATURE	MIN MAX.	
	N .	PAR. r0	DEF. 2		MIN MAX. 0,115 °C/F	
				TEMPERATURE Setpoint cooling Differential. (SET+r0)		
	14	r0	2	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone)	0,115 °C/F	
	14 15	r0 r1	2 0.0	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp	0,115 °C/F -30 r2 °C/F	
	14 15 16	r0 r1 r2	2 0.0 50.0	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy	0,115 °C/F -30 r2 °C/F r1 +99 °C/F	
	14 15 16 17	r0 r1 r2 r4	2 0.0 50.0 0.0	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy Saving Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is ac-	0,115 °C/F -30 r2 °C/F r1 +99 °C/F 099 °C/F	
	14 15 16 17 18	r0 r1 r2 r4 r11	2 0.0 50.0 0.0	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy Saving Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is ac- tive only for heating function. Setpoint Heating Differential (SET-r12) (SET-r11-r12 if neutral zone). Heating Duty Cycle. "r13=60"	0,115 °C/F -30 r2 °C/F r1 +99 °C/F 099 °C/F 010 ° C/F	
	14 15 16 17 18 19	r0 r1 r2 r4 r11 r12	2 0.0 50.0 0.0 0.0 -2.0	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy Saving Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is ac- tive only for heating Differential (SET-r12) (SET-r11-r12 if neutral zone).	0,115 °C/F -30 r2 °C/F r1 +99 °C/F 099 °C/F 010 ° C/F -250,1 ° C/F	
	14 15 16 17 18 19 20	r0 r1 r2 r4 r11 r12 r13	2 0.0 50.0 0.0 -2.0 60	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy Saving Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is active for heating function. Setpoint Heating Differential (SET-r12) (SET-r12 if neutral zone). Heating Duty Cycle. "r13=60" = always on, 0 = Off. Temperature Priority control: if >0 the unit stops de- humidiffy (with compressor)	0,115 °C/F -30 r2 °C/F r1 +99 °C/F 099 °C/F 010 ° C/F -250,1 ° C/F 060" s 0 = Disabled 1 = Heating 2 = Heat/Cool	
*	14 15 16 17 18 19 20 21	r0 r1 r2 r4 r11 r12 r12 r13 r14	2 0.0 50.0 0.0 0.0 -2.0 60 2	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy Saving Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is active for heating or cooling. With r11<0 the value is active for heating function. Setpoint Heating Differential (SET-r12) (SET-r11-r12 if neutral zone). Heating Duty Cycle. "r13=60" = always on, 0 = Off. Temperature Priority control: if >0 the unit stops de- humidify (with compressor) to adjust temperature first.	0,115 °C/F -30 r2 °C/F r1 +99 °C/F 099 °C/F 010 ° C/F -250,1 ° C/F 060" s 0 = Disabled 1 = Heating 2 = Heat/Cool 3 = Cooling	
*	14 15 16 17 18 19 20 21 N.	r0 r1 r2 r4 r11 r12 r13 r14 PAR.	2 0.0 50.0 0.0 -2.0 60 2 DEF.	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy Saving Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is ac- tive only for heating function. Setpoint Heating Differential (SET-r12) (SET-r12 if neutral zone). Heating Duty Cycle. "r13=60" = always on, 0 = Off. Temperature Priority control: if >0 the unit stops de- humidify (with compressor) to adjust temperature first. HUMIDITY	0,115 °C/F -30 r2 °C/F r1 +99 °C/F 099 °C/F 010 ° C/F -250,1 ° C/F 060" s 0 = Disabled 1 = Heating 2 = Heat/Cool 3 = Cooling MIN MAX.	
*	14 15 16 17 18 19 20 21 N. 22	r0 r1 r2 r4 r11 r12 r12 r13 r14 PAR. h1	2 0.0 50.0 0.0 -2.0 60 2 DEF. 10	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy Saving Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is ac- tive only for heating function. Setpoint Heating Differential (SET-r12) (SET-r12) (SET-r12) Heating Duty Cycle. "r13=60" = always on, 0= Off. Temperature Priority control: if >0 the unit stops de- humidify (with compressor) to adjust temperature first. HUMIDITY Minimum setpoint 2	0,115 °C/F -30 r2 °C/F r1 +99 °C/F 099 °C/F 010 ° C/F -250,1 ° C/F 060" s 0 = Disabled 1 = Heating 2 = Heat/Cool 3 = Cooling MIN MAX. 0h2 %rH	
*	14 15 16 17 18 19 20 21 N. 22 23	r0 r1 r2 r4 r11 r12 r12 r13 r14 PAR. h1 h2	2 0.0 50.0 0.0 -2.0 60 2 DEF. 10 95	TEMPERATURE Setpoint cooling Differential. (SET+r0) (SET+r1)+r0 if neutral zone) Minimum Setpoint Temp Maximum Setpoint Temp Setpoint Offset in Energy Saving Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is active for heating or cooling. With r11<0 the value is ac- tive only for heating function. Setpoint Heating Differential (SET-r12) (SET-r11-r12 if neutral zone). Heating Duty Cycle. "r13=60" = always on, 0 = Off. Temperature Priority control: if > 0 the unit stops de- humidify (with compressor) to adjust temperature first. HUMIDITY Minimum setpoint 2	0,115 °C/F -30 r2 °C/F r1 +99 °C/F 099 °C/F 010 ° C/F -250,1 ° C/F 060" s 0 = Disabled 1 = Heating 2 = Heat/Cool 3 = Cooling MIN MAX. 0h2 %rH h1100 %rH	

			1	Cabinet Probe Alarm	,
	38	C5	10	Cabinet Probe Alarm Compressor ON Time during Cabinet Probe Alarm	0240 min
	39	C6	80	Threshold for High Condensa- tion Warning	0199 ° C/F
	40	C7	90	Threshold for High Condensa- tion Alarm	0199 ° C/F
	41	C8	0	Compressor Shutdown Alarm Delay for high condensing.	015 min
	42	C10	0	Compressor run time for Ser- vice	99
	43	C11	10	Compressor 2 On Delay after Compressor 1	0240 "
	N.	PAR.	DEF.	DEFROST	MIN MAX.
	44	d0	0	Defrost interval time	099 h 0 = Electric
	45	d1	0	Type of Defrost	1 = Hot gas 2 = Compressor Stop
	46 47	d2 d3	8 15	Threshold for Defrost End Defrost Duration	-99+99 ° C/F 099 min
	47		15		0=no 1=poweron
	48	d4	о	Enable Defrost at Power-on	2= post overcooling 3= poweron and post
٠,					overcooling
	49	d5	0	Defrost Delay after Power-on Value Displayed during De-	099 min 0 = Regulation Value
	50	d6	0	frost	1 = Display Locked 2 = reserved
	51	d7	0	Dripping Time	015 min
	52	d11	0	Enable Defrost Time-Out Alarm	0=NO 1=YES
	53	d13	o	Defrost and Rest Synchroni- zed	0=NO 1=YES
	54	d15	0	Compressor ON Consecutive Time for Hot Gas Defrost	099 min
	N.	PAR.	DEF.	ALARMS Threshold for Low Tempera-	MIN MAX.
	55	A1	0.0	ture Alarm	-99+99 ° ° C/F 0 = Disabled
	56	A2	2	Low Temperature Alarm Type	1 = Relative to Setpoint 2 = Absolute
	57	A4	50.0	Threshold for High Tempera- ture Alarm	-99+99 ° C/F
	58	AF			0 = Disabled 1 = Relative to Setpoint
	58	A5	2	HighTemperature Alarm Type	2 = Absolute
	59	A6	120	High Temperature Alarm De- lay after Power-on	0240 min
2	60 61	A7	15	Temperature alarm delay High Temperature Alarm De-	0240 min
	61 62	A8 	15 15	lay After Defrost High Temperature Alarm De-	0240 min
	_	A9 A10	15	lay after Door Closing Power Failure Duration for PF	0240 min
	63 64	A10	15	Alarm Recording High/Low Temperature Alarm	0240 min 0,115 ° C/F
	64 65	A11 AH1	50	Reset Differential Low Humidity Alarm relative	0.100 %rH
	65 66	AH1 AH4	50	to SET2 High Humidity Alarm relative	0100 %rH
	66 67	AH4 AH7	30	to SET2 Humidity Alarm Delay and	0240 min
	67 N.	PAR.	30 DEF.	sensor error. EVAPORATOR FAN	0240 min MIN MAX.
	68	FO	1	Normal Operation. With $FO=0$ parameters F11- F12, rd2-rd3, rh2-rh3 can enable a fan cycling regula- tion. For safety reason (use of heating elements and cycles) check the fan control chapter.	 2 = ON if Compressor ON 3 = Thermoregulated (with F1 relative to Regulation Temper- ature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temper-
	69	F1	99.0	Threshold for Evaporator Fan Operation with F0=3 or 4. The fan starts under F1 and stops at "F1+F8".	ature) -99+99 °C/F 0 = 0FF
	70	F2	о	Evaporator Fan Mode during Defrost	1 = ON 2 = According to F0
	71	F3	0	Evaporator Fan OFF Maxi- mum Time after Dripping	015 min
5	72	F7	99.0	Threshold for Evaporator Fan ON after Dripping (relative to	-99+99 ° C/F
	73	F8	2.0	Setpoint) Evaporator Setpoint Differen-	0,115 ° C/F
	73	F0 F9	5	tial Evaporator Fan OFF Delay af-	0240 " s
	74	F11	60	ter Compressor OFF Fan On Time with no regula-	0240 " s
	75	F12	0	tion. To be used with F0=0. Fan Off Time with no Regula-	0240 " s
	N.	PAR.	DEF.	tion. To be used with F0=0.	MIN MAX.
	77	F30	0	Evap Fan For Air Change	0=no 1=yes
	78 79	F31 F32		Air Change Hour Air Change Hour	024 h h 024 h
	80 81	F33 F34		Air Change Hour Air Change Hour	024 h 024 h
	82	F35		Air Change Hour	024 h
	83	F36 PAR.	DEF.	Air Change Hour CONDENSER FAN	024 h MIN MAX.
	Ν.	Fc1	25	Threshold for Condenser Fan ON	099 ° C/F
	N . 84	101	_ 23	ON	
	84 85	Fc2	5.0	Condenser Fan Differential	0,115 ° C/F
	84				0,115 ° C/F 0240 " s MIN MAX.
	84 85 86	Fc2 Fc3	5.0 5	Condenser Fan Differential Condenser Fan Off delay DIGITAL INPUTS FUNC Lock Display with Open Door	0240 " s
	84 85 86 N .	Fc2 Fc3 PAR.	5.0 5 DEF.	Condenser Fan Differential Condenser Fan Off delay DI GITAL INPUTS FUNC Lock Display with Open Door Open Door Alarm Delay. -1=disabled 0= immediate Cooling Inhibition Max Time	0240 " s MIN MAX.
	84 85 86 N. 87	Fc2 Fc3 PAR. i1	5.0 5 DEF. 0	Condenser Fan Differential Condenser Fan Off delay DIGITAL INPUTS FUNC Lock Display with Open Door Open Door Alarm Delay. -1=disabled 0= immediate Cooling Inhibition Max Time with Open Door -1=disabled 0= immediate without re-	0240 " s MIN MAX. 0240 min
Id	84 85 86 N . 87 88	Fc2 Fc3 PAR. i1 i2	5.0 5 DEF. 0 15	Condenser Fan Differential Condenser Fan Off delay DIGITAL INPUTS FUNC Lock Display with Open Door Open Door Alarm Delay. -1=disabled 0= immediate Cooling Inhibition Max Time with Open Door -1=disabled 0= immediate without re- starting. Multi-purpose Input Alarm	0240 " s MIN MAX. 0240 min -1120 min
Id	84 85 86 N . 87 88 88	Fc2 Fc3 PAR. i1 i2 i3	5.0 5 DEF. 0 15 15	Condenser Fan Differential Condenser Fan Off delay DIGITAL INPUTS FUNC Lock Display with Open Door Open Door Alarm Delay. -1=disabled 0= immediate Cooling Inhibition Max Time with Open Door -1=disabled 0= immediate without re- starting. Multi-purpose Input Alarm Delay High Pressure Events Count-	0240 " s MIN MAX. 0240 min -1120 min -1120 min
Id	84 85 86 N. 88 88 89 90	Fc2 Fc3 PAR. i1 i2 i3 i5	5.0 5 DEF. 0 15 15	Condenser Fan Differential Condenser Fan Off delay DIGITAL INPUTS FUNC Lock Display with Open Door Open Door Alarm Delay. -1=disabled 0= immediate Cooling Inhibition Max Time with Open Door -1=disabled 0= immediate without re- starting. Multi-purpose Input Alarm Delay High Pressure Events Count- ing Interval Multi-purpose Input Alarm	0240 " s MIN MAX. 0240 min -1120 min -1120 min 0120 min
Id	84 85 86 N. 87 88 88 89 90 91	Fc2 Fc3 PAR. i1 i2 i3 i5 i6	5.0 5 DEF. 0 15 15 15 0 60	Condenser Fan Differential Condenser Fan Off delay DIGITAL INPUTS FUNC Lock Display with Open Door Open Door Alarm Delay. -1=disabled 0= immediate Cooling Inhibition Max Time with Open Door -1=disabled 0= immediate without re- starting. Multi-purpose Input Alarm Delay High Pressure Events Count- ing Interval Multi-purpose Input Alarm Delay Digital Input Event Counting For Pressure or Thermal Alarm.	0240 " s MIN MAX. 0240 min -1120 min -1120 min 0120 min 0120 min
Id	84 85 86 N. 87 88 89 90 91 92 92	Fc2 Fc3 PAR. i1 i2 i3 i5 i6 i7 i8	5.0 5 DEF. 0 15 15 0 60 60 60	Condenser Fan Differential Condenser Fan Off delay DIGITAL INPUTS FUNC Lock Display with Open Door Open Door Alarm Delay. -1=disabled 0= immediate Cooling Inhibition Max Time with Open Door -1=disabled 0= immediate without re- starting. Multi-purpose Input Alarm Delay High Pressure Events Count- ing Interval Multi-purpose Input Alarm Delay Digital Input Event Counting For Pressure or Thermal Alarm. 0= always automatic, 1= always manual.	0240 " s MIN MAX. 0240 min -1120 min -1120 min 0120 min 0120 min 0120 min 015
Id	84 85 86 N. 87 88 88 89 90 91 92	Fc2 Fc3 PAR. i1 i2 i3 i5 i6 i7	5.0 5 DEF. 0 15 15 15 0 60 60	Condenser Fan Differential Condenser Fan Off delay DIGITAL INPUTS FUNC Lock Display with Open Door Open Door Alarm Delay. -1=disabled 0= immediate Cooling Inhibition Max Time with Open Door -1=disabled 0= immediate without re- starting. Multi-purpose Input Alarm Delay High Pressure Events Count- ing Interval Multi-purpose Input Alarm Delay Digital Input Event Counting For Pressure or Thermal Alarm. 0= always automatic,	0240 " s MIN MAX. 0240 min -1120 min -1120 min 0120 min 0120 min 0120 min

	95	u7	0.0	Auxiliary Setpoint if "u6=1 or 2".	-99+99 ° C/F
	96	u8	1.0	Auxiliary differential for "u7" if "u6=1 or 2"	0,115 ° C/F
	Ν.	PAR.	DEF.	DIG IN CONFIGURATION	MIN MAX.
Id	97	iC1	7	Multi-purpose Input Function, Door switch: 7,8 or 9.	0 = Disabled 1 = Energy saving 2 = Multipurpose 3 = Reserved 4 = Stand-by 5 = Thermal Switch ' 5 = Thermal Switch ' 7 = Compressor + E Light ON 9 = Light ON 10 = Compressor + Evaporator Fan O 11 = Evaporator fan o 11 = Evaporator fan o
×	98	iP1	0	Multi-purpose Input 1 Activa- tion. 0= function active for contact closed.	0=closed 1=open
	99	iC3	o	Digital Input 3 configuration Pr3=0.	0= disabled 1= high pressure swi
	100	iP3	0	Multi-purpose Input 3 Activa- tion. 0= function active for contact closed.	0=closed 1=open
	Ν.	PAR.	DEF.	USCITE DIGITALI	MIN MAX.
	101	uc1	4	K1 Output Configuration (C)	0 = Disabled 1 = Humidity 2 = de-Humidfy
	102	uc2	5	K2 Output Configuration (Ht)	3 = Alarm 4 = Compressor 1 5 = Heating
	103	uc3	9	K3 Output Configuration (L)	6 = Condenser Fans 7 = ON / STAND-BY 8 = Air Change
	104	uc4	1	K4 Output Configuration (rH)	9 = Light 10 = Compressor 2 11 = Evaporator Fans
	105	uc5	11	K5 Output Configuration (EF) K6 Output Configuration	12 = Defrost 13 = Reserved 14 = Evaporator Fan
	106	uc6	12	(Def)	15 = Auxiliary Relay
	N.	PAR.	DEF.	TOUCH KEYS	MIN MAX.
	107 108	POF	1	Enable ON/Stand-by Key	0 = no $1 = y0 = no$ $1 = yes$
C,	108	PLi PSr	1	Light button in stand-by Disable Alarm Output by Si- lencing the Buzzer	0 = no 1 = yes
	110	Pbu	2	Enable key and Buzzer Func- tion	0 = no 1 = only alarm, no k 2 = alarm and keys
	Ν.	PAR.	DEF.	SICUREZZE	MIN MAX.
	111	PAS	-19	Password all parameters	-99 999
$\overline{\bigcirc}$	112 113	PS1	1	Level 1 service	-99 999
~	114	PA1	426	Evlink user password	-99 999
		PS2	824	Evlink service password	-99 999
	N.	PAR.	DEF.	OROLOGIO Enable clock function.	MIN MAX.
Θ	115	Hr0	0 / 1	1= for models provided with rtc or EVLINK on board.	0 = no 1 = y
	N.	PAR.	DEF.		MIN MAX.
	116	BLE	1	"1"= EVLINK presence leav- ing LA, Lb and LP to default. To enable modbus communi- cation via EVIF22/23TSX modules set to "0".	0 = no 1 = si
	117	rE0	15	Recording interval	0240 min
	118	rE1	4	Select Probes for Data-logger Recording	0=none 1=probe 1; 2= pro 2 3= probe 3; 4= pro 1 e probe 2; 5= probes
	N.	PAR.	DEF.	REAL TIME DEFROST Hr0=1	MIN MAX.
	119	Hd1		1st Daily Defrost Time	024 h
_	120	Hd2		2nd Daily Defrost Time 3d Daily Defrost Time	024 h
٥Ċ	121 122	Hd3 Hd4		4th Daily Defrost Time	024 h 024 h
	122	Hd5		5th Daily Defrost Time	024 h
	123	Hd6		6th Daily Defrost Time	024 h
	N.	PAR.	DEF.	MODBUS	MIN MAX.
	129	LA	247	MODBUS address if BLE=0	1 247
RS485		Lb	3	MODBUS Baud Rate if BLE=0.	0= 2400; 1= 4800 2= 9600; 3= 19200 0= None; 1= Odd;
	127	LP	2	Modbus Parity if BLE=0.	Even
	Ν.	PAR.	DEF.	ENERGY SAVING Energy Saving Max Duration	MI N MAX.
				Lenergy saving wax Duration	0990 min
<u></u>	128	HE2	0	in manual mode	0
*	128 129	HE2 H01	0	in manual mode Energy Saving Start Time with rtc Hr0=1	023h

	26	rd2	60	Fan On Time in De_humidify. 0= fan off.	0240 " s
	27	rd3	0	Fan Off Time In De-Humidify. 0=normal function.	0240 " s
	28	rd4	1	De-Humidify with Compressor or compressor and heater. 0= temperature and de- humidity outputs are inde- pendent.	0 = Disabled 1 = Compressor 1 2 = Compressor and Heat
	29	rd5	o	Heating and de-Humidify functions executed with De- frost output if no heating output is available.	0=no 1=Yes
	N.	PAR.	DEF.	DE HUMI DI FY	MIN MAX.
	30	rh0	-3	Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone)	-251 %rH
	31	rh1	0	Humidify Neutral Zone	010 % %rH
	32	rh2	60	Humidify Output On Time (or Fan if no rH output config- ured). 0= Humidify output off.	0240 " s
	33	rh3	o	Humidify Output Off Time (or Fan if no rH output config- ured). 0= Humidify output normal.	0240 " s
	N.	PAR.	DEF.	COMPRESSOR	MIN MAX.
	34	со	0	Compressor ON Delay After Power-on	0240 min
	35	C2	3	Compressor OFF Minimum Time	0240 min
	36	C3	0	Compressor ON Minimum Ti- me	0240 " s
	37	C4	10	Compressor OFF Time during	0240 min

ATTENZIONE II dispositivo d

Il dispositivo deve essere smaltito secondo le normative locali in merito alla raccolta delle apparecchiature elettriche ed elettroniche.

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