

°C/°F -25.0...25.0

UM Range Default

0.0

Serie EVBOX Light J500 | Quadri elettrici fronte cella temperatura/umidità e stagionatura



HE	MA DI CONN	IESSIONE					TABELLA PARAMETRI LIVELLO 1
3≠0 Z	2 2 2 2		I	Pr3=0	5 2 3		Password d'accesso: 1.
				н Г			Gruppo CONFIGURAZIONE
		ntazione P		\		tazione	CA1 Calibrazione sonda Pb1.
	9 000000 000	TTL		6	****	m	Gruppo REGOLATORI
1	7 18 19 20 21 22 2	3		17	18 19 20 21 22 2	3	r0 Differenziale di regolazione.
							Gruppo UMIDIFICAZIONE / DI
	ut3 ut6	uts ut5	4		ut6 ut6	ut5 ut2 ut2	rd0 Differenziale di deumidificazione.
				L L	گر فغ ا		Gruppo SBRINAMENTO
_			Ļ		ı`î i`		d0 Intervallo tra due sbrinamenti succes
Ē		***	€		••••	\$\$\$\$\$\$\$	d2 Temperatura per fine sprinamento. d3 Durata sbrinamento.
:	L 2 3 4 5 6	9 10 11 12 13 14 15	16	1	2 3 4 5 6	9 10 11 12 13 14 15 16	Gruppo TASTI
-2	IALI Uscita relè Out:	3 (Luce)	12	2-15-16	Uscita relè O I	ut2 (Caldo)	PSr Disattivazione uscita allarme e tacitazi
3	Nessuna conne	Nessuna connessione N.C.			Ingresso digi	tale ID1	ACCESO AI PARAMETRI
5-6	Uscita relè Out	6 (Sbrinamento)		18-21	Ingresso digita Ingresso sond	ale ID3 se Pr3 =0 a Pb3 se Pr3 ≠0	Per accedere ai parametri:
10	Uscita relè Out	L (Compressore)		19-21	Ingresso son	da Pb2 (Umidità)	(1) β * * * * *
-12	Uscita relè Out5 (Ventole) Uscita relè Out4 (Umidificazione)			20-21	Ingresso son Ingresso alim	da Pb1 (Temperatura) Ientazione	¹ α ¹ 7 5 [°] 60 [°]
TER	FACCIA UT	ENTE					11.0.004
sti							Door open
sto	Pressione	singola		Press	sione prolunga	ita	
MEI				• Da 1	nome, accede i standby, acced	menu configurazione le menu programmazione	
Ċ	• Torna ind • Esci da u	lietro di un livello na funzione		• ON/	/OFF strument	0	3 8 Menu
V	Decreme	nta un valore		102	5014210110		Parameters Internal Values Alarms
•	Spostame Aumenta	Spostamento all'interno dei menu Aumenta un valore Spostamento all'interno dei menu Accede a menu AUX					Data Memory Reset Parameters Restore
A	JX • Spostame						Насср
\odot	Accension				nere 10 second	li per accedere alla	
¥	Conferma	a il valore /funzione s	configurazione uscite LUCE modulate				Ň
ET	• Accede a	l menu setpoint	Joona				5 Parameters
one	1						Password 1
ona Yi	Accesa fissa	eddo	Lampeggi	ante		OFF	
*	Richiesta de	eumidificazione	Ritardo p	orotezio	one ON	Compressore OFF	
*	Sbrinamento	attivo	 Ritardo Sgoccio 	sbrinar lamente	mento ON o ON		
ລົງ	Ventele even	anatona ON	• Ritardo	attivaz	ione ventole		
9	ventole evap	oratore on	• Ciclo Umid./deumid. ON			ventole evaporatore OFF	MODIFICA SETPOINT
3	Richiesta u Uscita digita	midificazione ale umid. ON					Per modificare il setpoint:
$\tilde{\gamma}$	• Richiesta de	eumidificazione	Ritardo deumidificazione				
	Uscita digita Bichiesta ca	ale deumid. ON aldo	con compressore ON				Ů−17.5 601
٧٧`	• Uscita digita	ale caldo ON					Door open
ACCP	Allarme HAC	CP in memoria	registrato				
Ø	Risparmio er	nergetico ON		Risparmio energe		Risparmio energetico OFF	
							3
<u>N</u>	Richiesta ma	anutenzione Collegamento remoto				Setpoint 2	
F	Temperatura	mperatura visualizzata in °C mperatura visualizzata in °F		a in °F			8
%	Umidità visua	nidità visualizzata in %					18/95 1
UX	Funzione Al Uscita digita	Funzione AUX ON Uscita digitale AUX ON		Funziona AUX OFF			
~ ~	Luce ON da t	uce ON da tasto		da micr	roporta	Luce OFF	
Ā		Alla		n corso	D		
٨	Valore sono	Valore sonda oltre il setpoint					C Timer
V	setpoint						9:55
0	Tastiera bloc	cata					@
	Tastiera sbloccata						
	Porta aperta		Porta ch	usa			
$\overline{)}$	Ciclo attivo		Ciclo sos	iclo sospeso per			
✔ nid · I	Umidificazione		attivazio	ne altra	difcazione		Per avviare un programma, da strumen
LAF	MI		2 cumu.	Journe			
dice	Descrizione	Causa	Effetti			Risoluzione allarme	
	Sanda 1		• Visua	lizzazion	ne codice Pr1		-1 /.5. 60 [±]
r1	sonda 1 in errore		• Regol	azione c azione c	compressore ir	ו	Program 01 Stop
		Sonda non	funzio	ne di C3	3 e C4	• Verificare il tipo di sonda	



AH	AH temperatura massima Temperatura Pb1 > A4		registro allarmi • Nessun effetto sulla regolazione	letta da Pb1 salga sopra la soglia di allarme (A4+A11)
AL2	Allarme umidità bassa	Umidità Pb2 < AH1 per un tempo AH7	Visualizzazione codice AL2 Nessun effetto sulla regolazione	Attendere che la temperatura letta da Pb2 scenda sotto la soglia di allarme (AH1 -2%)
AH2	Allarme umidità alta	Umidità Pb2 > AH4 per un tempo AH7	 Visualizzazione codice AH2 Nessun effetto sulla regolazione 	Attendere che la temperatura letta da Pb2 salga sopra la soglia di allarme (AH4 +2%)
id	Allarme porta aperta	Ingresso digitale attivato per un tempo maggiore di i2	Se i2 ≠-1, strumento genera allarme	Chiudere la porta
сон	Segnalazione alta condens.	Temperatura letta da Pb3 > C6	 Visualizzazione codice COH Nessun effetto sulla regolazione 	Verificare C6
CSd	Allarme alta condensazione	Temperatura letta da Pb3 > C7 per un tempo C8	 Visualizzazione codice CSd Blocco compressore 	Togliere e riapplicare l'alimentazione per riarmare la regolazione
iA	Allarme multifunzione	Ingresso digitale attivato (IC =1)	 Visualizzazione codice iA Nessun effetto sulla regolazione 	Configurare un ritardo i5 maggiore
dFd	Fine sbrinamento per timeout	Sbrinamento terminato per timeout anziché per raggiungimento temperatura d2	 Visualizzazione codice dFd Icona allarme lampeggiante Nessun effetto sulla regolazione 	• Toccare un tasto qualsiasi • Verificare d2 , d3 e d11
НР	Allarme pressostato	Attivazione allarme pressostato causato dal pressostato digitale	• Blocco compressore e deum. • Il regolatore conta il numero di eventi i8 nel tempo i6	Verificare e rimuovere la causa che ha provocato l'allarme su ingresso digitale (reset automatico con I6 =0)
CtH	Allarme termica 1	Ingresso digitale attivato (IC1 =5)	Il regolatore conta il numero di eventi i8 nel tempo i7	Se i7 =0 il reset è automatico
rtc	Allarme orologio	Allarme orologio o batteria scarica	Funzioni collegate all'orologio non presenti o non sincronizzate con l'orario effettivo	Impostare l'ora corretta. Se la segnalazione persiste, cambiare lo strumento (batteria RTC scarica)
PF	Allarme mancanza di tensione	Mancanza di tensione per un tempo > A10	Registrazione codice PF	Verificare il cablaggio dell'alimentazione

Regolazione umid./ deumid. sospesa. Per saturazione il regolatore applica un tempo AH7 prima

di generare l'allarme

è per timeout

registro allarmi

Visualizzazione codice Pr3

Nessun effetto sulla regolazione

Se Pr3 = 5, fine sbrinamento

Aggiunta allarme AL nel

Aggiunta allarme AH nel

(NTC)

della sonda

Attendere che la

allarme (A1-A11)

temperatura letta da Pb1

scenda sotto la soglia di

Attendere che la temperatura

Verificare il cablaggio

Cambiare la sonda

Dichiarazione di conformità UE semplificata

EVCO S.p.A. dichiara che il tipo di apparecchiatura radio

EVLJ536N7V3RXV1

è conforme alla direttiva 2014/53/UE e alla direttiva 2011/65/UE.

Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: https://www.evco.it/it/16175-evbox-light-j500

Declinazione di responsabilità

La presente documentazione è proprietà esclusiva di EVCO. Contiene la descrizione generale e/o le caratteristiche tecniche per le prestazioni dei prodotti qui contenuti. Questa documentazione non è destinata e non deve essere utilizzata per determinare l'adeguatezza o l'affidabilità di questi prodotti relativamente alle specifiche applicazioni dell'utente. Ogni utente o specialista di integrazione deve condurre le proprie analisi complete e appropriate del rischio, effettuare la valutazione e il test dei prodotti in relazione all'uso o all'applicazione specifica.

Né EVCO né qualunque associata o filiale deve essere ritenuta responsabile o perseguibile per il cattivo uso delle informazioni ivi contenute. Gli utenti possono inviarci commenti e suggerimenti per migliorare o correggere questa pubblicazione.

EVCO adotta una politica di continuo sviluppo. Pertanto EVCO si riserva il diritto di effettuare modifiche e miglioramenti a qualsiasi prodotto descritto nel presente documento senza previo preavviso.

I dati tecnici presenti nel manuale possono subire modifiche senza obbligo di preavviso.

CONSIDERA L'AMBIENTE Si prega di leggere e conservare il documento



(5)

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



EVBOX Light J500 Series | Frontal electrical panels for temperature/humidity and food processing rooms

For further information, consult the user manual p/n **114LJ50E4** downloadable from the website www.evco.it SCAN THE QR CODE AND **READ THE USER MANUAL!** , RO 同笑 т, ELECTRICAL CONNECTIONS \Lambda 🕰 DANGER RISK OF ELECTRIC SHOCK, EXPLOSION OR ELECTRIC ARC Various product components, including the printed circuits, run at hazardous voltage levels. Only use electrically insulated and suitably calibrated measuring devices and equipment. Do not open, disassemble, repair or modify the product.
Before handling the product, make sure you are wearing all the necessary personal protective equipment (PPE). · Do not expose the equipment to liquids or chemicals Use this device and all parts connected to it at the specified voltage only. Do not use this equipment for critical safety functions. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL RESULT IN DEATH OR SERIOUS INJURY. \Lambda 🕰 DANGER **RISK OF ELECTRIC SHOCK AND FIRE** Do not use the device with loads greater than those indicated in the technical specifications.
 Do not exceed the temperature and humidity ranges indicated in the technical specifications. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL RESULT IN DEATH OR SERIOUS INJURY. A WARNING MALFUNCTIONING OF THE EQUIPMENT electromagnetic compatibility and safety compliance with Perform the wiring carefully, in requirements. Do not operate the product with unknown or incorrect settings or data. Make sure the wining is correct for the final application. Use shielded cables for all I/O signal and communication cables. Minimise the length of the connections as much as possible and avoid winding the cables around electrically connected parts. The signal cables (analogue and digital inputs, communication and corresponding power supplies), power cables and power supply cables for the device must be routed separately. Before applying the power supply, check all the wiring connections. Do not connect wires to unused terminals and/or to terminals labelled "No connection "(N.C.)". FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN DEATH, SERIOUS INJURY, OR EQUIPMENT DAMAGE. **TECHNICAL SPECIFICATIONS** The product complies with the following harmonised standards: EN60730-1 and EN60730-2-9 Device construction: Incorporated device Device purpose: Operating control device Type of action: Pollution category Overvoltage category: Rated impulse withstand voltage: 4000 V Power supply: Consumption: 12 Vac/dc, ±10%, 50/60 Hz 12 valve, 10 val Ambient operating conditions: Transportation and storage conditions Software class: IP65 Environmental front protection: OTHER TECHNICAL INFORMATION **Display properties** Display: Display resolution: 2.8" TFT graphic display, 16 colours 320 x 240 pixels -50...99 (decimals on large display: -9.9...19.9) Display range: Input properties (SELV) Analogue Inputs: 2 analogue inputs Analogue inputs Default Pb1 Temperature probe Pb2 Humidity probe Pb3 (se Pr3=5) Evaporator probe 2 voltage-free digital inputs (**ID3** also configurable as analogue input **Pb3** with **Pr3≠0**) Digital input **Output properties Digital outputs** 6 relay outputs Relay Default Load (at Type of Туре 250 Vac) load Out1 Compressor SPST 30 A Resistive Out2 Heating SPDT 8 A Resistive Out3 Light SPST 16 A Resistive Out4 Humidification SPST Resistive 8 A Out5 Fans SPST 5 A Resistive Out6 Defrost SPDT 8 A Resistive Serial communication port properties (SELV) RS-485 serial port: 1 TTL serial DIMENSIONS mm (in.) Pr2 Pr3 **-17.**5℃ 60; AL ===|0|v|^e=0 AH

WIRIN	IG I	DIAGRAM	/						
Pr3≠0 Pr3=0									
101	Pb3 Pb1 Pb1				101 103 103				
(Power supply				Power supply				
	(*) = Maxim					<u>`</u>		(*) = Maximum 10 A	
	@@@@@@@ TTL					@ @	}@@@@@ @		
1	17 18 19 20 21 22 23					171	8 19 20 21 22 2	3	
	out3	out6	out1 out5 out4			out3	out6	out1 out5 out4 out2	
[٦	ei 🗂						n n t t t i	
	°/								
E C			66666666	e l		E C		666666666	
	2	3 4 5 6	9101112131415	16		12	3456	9 10 11 12 13 14 15 16	
TEDRATH			0 10 11 11 10 14 10			-1-1		0 10 11 12 10 14 10 10	
1-2	Rel:	o av output C	ut3 (Light)		12-	15-16	Belay outp	ut Out2 (Heating)	
3	No	connection	N.C.	17-21 Digital input			Digital inpu	it ID1	
4-5-6	Rela	av output (ut6 (Defrost)	18-21 Digital inpu			Digital inpu	it ID3 if Pr3 =0	
4-0-0	-	ay output c		18-21 Probe input			Probe inpu	t Pb3 if Pr3≠0	
8-10	Rela	ay output C	uti (Compressor)		18	9-21 1-21	Probe inpu	t Pb2 (Humidity)	
12-14	Rela	ay output C	outs (Fans)	n)	22	2-23	Power sup	plv input	
		EPEACE		.,					
Kovo		ENFAGE							
Keys		D							
кеу	_	Press once	•••			Hold d	own	Access the configuration menu	
	١U					•(From	n stand-by) Ac	cess the programming menu	
(1)		• Go back o	ne level			• Swite	ch device on/	′off	
		• Exit a fun	ction			• Stop	regulation		
		Move with	nin a menu						
		• Increase	a value						
NHC	JX	Move with							
6	Access the AUX menu								
¥	Active/Deactivate the light relay o				output				
SET (5	• Confirm a selected value/func							
	-	• Access th	e setpoint menu						
Icons	_								
Icon	ON			Flash	ind			OFF	
1×1			1	1 Iddon	iiig			orr	
*	• C • D	ooling requ	est tion request	Prote	ction c	lelay Of	N	Compressor OFF	
**	• C • D	ooling requi ehumidifica	est tion request	Prote • Defr	ction c	lelay Ol Iay ON	N	Compressor OFF	
**	• C • D Dei	ooling requ ehumidifica frost active	est tion request	Prote • Defr • Drip	ction c rost de pping C	lelay Ol Ilay ON IN	N	Compressor OFF	
<u>%</u> ₩ * -	• C • D Dei	cooling required ehumidifica frost active	est tion request	Prote • Defr • Drip • Eval dela	ction c rost de pping C porato	lelay OI Ilay ON IN In fan ac	N	Compressor OFF Evaporator fans OFF	
*** @	• C • D Dei	cooling requ Pehumidifica frost active aporator far	est tion request ns ON	Prote • Defr • Drip • Eval dela • Hun	ction c rost de pping C porato y ON nid./de	lelay Of Ilay ON IN In fan ac	N ctivation . cycle ON	Compressor OFF Evaporator fans OFF	
※ 学 の で	• C • D Dei Eva	cooling requ lehumidifica frost active aporator far lumidificatic	est tion request Is ON n request	Prote • Defr • Drip • Eva dela • Hun	rost de poing C porato y ON nid./de	lelay Of Iay ON In fan ar Shumid.	N ctivation . cycle ON	Compressor OFF Evaporator fans OFF	
*** @ ??	• C • D Def Eva • H • H	cooling requirely the termination of terminatio of termination of termination of termination	est tion request is ON n request n digital output ON	Prote • Defr • Drip • Eval dela • Hun	ction c rost de pping C porato y ON nid./de	lelay Ol elay ON DN r fan ac ehumid. 	N ctivation cycle ON	Compressor OFF Evaporator fans OFF	
×*:@ 2</th <th>• C • D Dei Eva • H • H</th> <th>cooling requirely tooling requ</th> <th>est tion request is ON n request n digital output ON tion request ion digital output ON</th> <th>Prote • Defr • Drip • Eval dela • Hun Dehut comp</th> <th>rost de porato porato y ON nid./de midific resso</th> <th>lelay OI elay ON DN r fan ac ehumid. ation do</th> <th>N ctivation . cycle ON elay with</th> <th>Compressor OFF Evaporator fans OFF</th>	• C • D Dei Eva • H • H	cooling requirely tooling requ	est tion request is ON n request n digital output ON tion request ion digital output ON	Prote • Defr • Drip • Eval dela • Hun Dehut comp	rost de porato porato y ON nid./de midific resso	lelay OI elay ON DN r fan ac ehumid. ation do	N ctivation . cycle ON elay with	Compressor OFF Evaporator fans OFF	
**** @ ₩0\$	• C • D De ⁱ Eva • H • H • D • D	ooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lehumidifica lehumidifica leating requ	est tion request is ON in request in digital output ON tion request ion digital output ON est	Prote • Defr • Drip • Eva dela • Hun Dehut comp	rost de porato porato y ON nid./de midific resso	lelay OI Ilay ON In fan ac in fan ac	N ctivation cycle ON elay with	Compressor OFF Evaporator fans OFF	
**** @ ♡>> *	• C • D • D • D • H • H • H • H	ooling requ behumidifica frost active aporator far lumidificatic lumidificatic lehumidificat leating requ leating digiti	est tion request is ON in request in request ion request ion digital output ON est al output ON	Prote • Defr • Drip • Eval dela • Hun Dehui comp	ction c rost de pping C porato y ON nid./de midific resso	lelay OI Ilay ON IN In fan au ehumid ehumid 	N ctivation cycle ON elay with	Compressor OFF Evaporator fans OFF	
*** *	• C • D Dei Eva • H • H • D • D • H • H	cooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lehumidificat leating requ leating digit CCP alarm	est tion request n request n digital output ON tion request ion digital output ON est al output ON aved	Prote • Defr • Drip • Eva dela • Hun Dehun comp	ction c rost de porato y ON nid./de midific ressoi	delay Of elay ON on fan ad ehumid ation de <u>o</u> ON e alarm	N ctivation .cycle ON elay with recorded	Compressor OFF Evaporator fans OFF	
★ ¥- @ ⑦ ② \$ HACCP	• C • D De' • H • H • H • H • H • H • H	ooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lehumidifica ehumidificat leating requ leating digit CCP alarm ergy saving	est tion request n request n digital output ON digital output ON est al output ON saved ON	Prote • Defri • Drip • Eval dela • Hun Dehuu comp	ction of rost de oping C porato y ON nid./de midific ressoi	lelay Of elay ON N r fan ac ehumid. ation do ON P alarm	N ctivation .cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Energy saving OFF	
★ ★- ♦ 1 <th>• C • D Def Eva • H • H • H • H • H • H • H</th> <th>ooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lehumidificatic ehumidificatic leating requ leating digit CCP alarm ergy saving</th> <th>est tion request n request n digital output ON digital output ON est al output ON saved ON</th> <th>Prote • Defr • Drip • Eval dela • Hun Dehuu comp</th> <th>rost de portato portato portato y ON nid./de HACCP</th> <th>lelay OI Ilay ON IN In fan ac ehumid ation de ON e alarm </th> <th>N ctivation .cycle ON elay with recorded</th> <th>Compressor OFF Evaporator fans OFF Energy saving OFF</th>	• C • D Def Eva • H • H • H • H • H • H • H	ooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lehumidificatic ehumidificatic leating requ leating digit CCP alarm ergy saving	est tion request n request n digital output ON digital output ON est al output ON saved ON	Prote • Defr • Drip • Eval dela • Hun Dehuu comp	rost de portato portato portato y ON nid./de HACCP	lelay OI Ilay ON IN In fan ac ehumid ation de ON e alarm 	N ctivation .cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Energy saving OFF	
*** 	• C • D Def • H • H • H • H • H • H • H • H • H • H	ooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lehumidificatic ehumidificatic ehumidificatic cepanne eating digiti CCP alarm s ergy saving antenance r	est tion request n request n nequest n nigital output ON tion request ion digital output ON est al output ON saved ON	Prote • Defri • Eval dela • Hun Dehuu comp New H	ction c rost de poping C porato ny ON nid./de HACCP	lelay OI blay ON bN er fan a ehumid ation d e alarm nection	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Energy saving OFF	
★ ¥- @ ⑦ O \$ ACP	• C • D Dei • H • H • H • H • H • H HA End	ooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lehumidificatic eh	est tion request is ON is ON in request in digital output ON tion request ion digital output ON est al output ON saved ON equest isplayed in °C	Prote • Defri • Drip • Eval dela • Hun Dehuu New H	rost de poping Co popato y ON midific ressou HACCF	lelay OI Ilay ON N eshumid. con ation di con con con con con con con con con con	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Energy saving OFF	
☆☆- @ ⑦ ♡ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	• C • D De ¹ • H • H • H • H • H • H • H • H • H • H	cooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic ehu	est tion request n request n nequest n nigital output ON tion request al output ON est al output ON saved ON equest isplayed in °C isplayed in °F	Prote	rost de poping C porato y ON midific ressol HACCF	lelay OI lay ON N r fan a shumid ation d ^ ON t alarm nectior 	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Energy saving OFF	
☆☆: @ ⑦ ② \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	• C • D De • H • H • H • H • H • H • H • H • H • H	cooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic ehu	est tion request is ON in request in nigital output ON tion request ion digital output ON est al output ON saved ON equest isplayed in °C isplayed in % ON	Prote	ction c rost de pping C porato y ON midific ressoi HACCF	lelay OI lay ON N r fan au ehumid con con con aation du con con con con con con con con con con	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF	
	• C • D • D • D • H • H • H • H • H • H • H • H • H • H	cooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic lehumidificatic	est tion request is ON is ON in request ion digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in % ON oN utput ON	Prote Prote Defr Drip Eva dela Hun Dehuu comp New H	ction c rost de poping C porato y ON midific resson HACCF	Ielay OI Ilay ON N r fan au ation du r ON ation du ation du du du du du du du du du du du du du d	N ctivation cycle ON elay with recorded	Compressor OFF Compre	
	• C • D • D • D • H • H • H • H • H • H • H • H • H • H	ooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic lehumidificatic le	est tion request is ON is ON in request ion digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in % ON dN dN dN dN dN dN dN dN dN dN dN dN dN	Prote	ction of cost delay of the cost of the cos	Ielay OI Ilay ON N r fan au ation du c ON d alarm nectior ON by d	N ctivation .cycle ON elay with recorded	Compressor OFF Compre	
	• C • D • D • H • H • H • H • H • H • H • H • H • H	ooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic leating requ leating digit CCP alarm s ergy saving untenance r mperature c mperature c midity disple UX function UX function UX function	est tion request is ON is ON in request ion digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C oN utput ON by key	Prote	ction of ost delaying Coordinates of the construction of the const	lelay OI lay ON N r fan av shumid. ation do ON 	N ctivation cycle ON elay with recorded	Compressor OFF Compre	
	• C • D • D • H • H • H • H • H • H • H • H • H • H	cooling requirely the termination of t	est tion request is ON is ON in request ion digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C oN utput ON by key	Prote Prote Defr Prote P	relay (n in pro	lelay OI lay ON N r fan a shumid. ation d · ON ation d · ON 	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF	
	 C D D D Eva H 	cooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic leating requ leating digit CCP alarm s ergy saving untenance r mperature c merature c midity disple UX function UX function UX function th relay ON	est tion request is ON is ON in request ion digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C oN utput ON by key pelow the setpoint above the setpoint	Prote Prote Defr Prote P	relay (n in pro	lelay OI lay ON N r fan au shumid. ation du 'ON nectior 	N ctivation cycle ON elay with recorded	Compressor OFF Compre	
	• C • D • D • D • H • H • H • H • H • H • H • H • H • H	ooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic leating requ leating digit CCP alarm s ergy saving argy saving untenance r mperature c merature c midity disple UX function UX function UX function th relay ON robe value l robe value s	est tion request is ON in request in digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C oN utput ON by key pelow the setpoint	Prote	relay (lelay OI lay ON N r fan av shumid. ation do 'ON 	N ctivation cycle ON elay with recorded	Compressor OFF Compre	
	C C D D O D	ooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic leating requ leating digit CCP alarm s ergy saving uintenance r mperature c mergy saving uintenance r mergy saving lux function UX function UX function lux digital or ht relay ON robe value l robe value s ypad locked ypad unlock	est tion request is ON in request in digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C oN utput ON by key below the setpoint bove the setpoint	Prote	relay (lelay OI lay ON N r fan av shumid. ation do 'ON 	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Evaporator fans OFF Energy saving OFF AUX function OFF Light relay OFF	
	CONTRACTOR OF CONTRACTOR	cooling requirely intervention of the second	est tion request is ON in request in digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C isplayed in °C oN utput ON by key 	Prote	relay (lelay OI lay ON N r fan au shumid. ation du ON 	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Evaporator fans OFF	
	• C • D • D • H • H • H • H • H • H • H • H • H • H	ooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic lehumidificatic l	est tion request in request in digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C oN utput ON by key below the setpoint bove the setpoint eed	Prote	relay (rest con portato porta	lelay OI lay ON N r fan av shumid. ation do ' ON ation do ' ON 	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Evaporator fans OFF	
	COMPANY C	ooling requ ehumidifica frost active aporator far lumidificatic lumidificatic lumidificatic ehumidificatic ehumidificatic ehumidificatic leating requ leating digit CCP alarm s ergy saving argy saving untenance r mperature c mperature	est tion request in request in digital output ON tion request ion digital output ON est al output ON est al output ON equest isplayed in °C isplayed in °C oN utput ON by key 	Prote	relay (rest con midificient ressol	lelay OI lay ON N r fan av shumid. ation do 'ON ation do 'ON 	N ctivation cycle ON elay with recorded	Compressor OFF Evaporator fans OFF Evaporator fans OFF	
	Constant of the second se	ooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lehumidificatic leating requ leating requ midificatic cCP alarm - model leating requ leating re	est tion request in request in digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C isplayed in °C oN utput ON by key pelow the setpoint above the setpoint ed	Prote	relay (resting of the subject of th	lelay OI lay ON N r fan av shumid. ation du ' ON ation du ' ON 	N ctivation .cycle ON elay with recorded n oor switch	Compressor OFF Evaporator fans OFF Evaporator fans OFF	
	Constant of the second se	ooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lehumidificatic leating requ leating requ l	est tion request is ON n request n digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C isplayed in °C oN oN oN utput ON by key below the setpoint tabove the setpoint ed	Prote	relay (resting of the point of	lelay OI lay ON N r fan av shumid. ation du ' ON ation du ' ON 	V ctivation cycle ON elay with recorded n oor switch oor switch l ue to function dification	Compressor OFF Evaporator fans OFF	
	Constant of the second se	ooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lehumidificatic leating requ leating requ l	est tion request is ON n request n digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C isplayed in °C oN oN oN oN utput ON by key below the setpoint tabove the setpoint ed	Prote	relay (resultion of a in pro-	lelay OI lay ON N r fan av shumid. ation du ' ON ation du ' ON 	N ctivation .cycle ON elay with recorded n oor switch oor switch l ue to function	Compressor OFF	
	Constant of the second se	cooling requirely investigation of the second secon	est tion request in request in nequest in digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C isplayed in °C oN utput ON by key pelow the setpoint above the setpoint bove the setpoint above the setpoint cause	Prote	relay (reswitch suspection o rost dec porato por	lelay OI lay ON N r fan a shumid. ation d · ON ation d · ON nectior 	N ctivation cycle ON elay with recorded n oor switch oor switch l ue to function	Compressor OFF Evaporator fans OFF Evaporator fans OFF	
	Constant of the second se	ooling requ lehumidifica frost active aporator far lumidificatic lumidificatic lehumidificatic leating requ leating requ l	est tion request as ON n request n digital output ON tion request ion digital output ON est al output ON equest isplayed in °C isplayed in °C isplayed in °C oN oN oN oN tiput ON by key below the setpoint tabove the setpoint ed een	Prote	relay (resultion of the first	lelay OI lay ON N r fan av shumid. ation do 'ON ation do 'ON 	N ctivation cycle ON elay with recorded n oor switch oor switch l ue to function lification	Compressor OFF	

Pr1	Probe error		 Code Pr1 displayed Compressor regulated according to C4 and C5 Heat regulation suspended 	• Check the type of probe (PO) • Check probe wiring • Change type of probe	
Pr2		 Probe not working Probe incorrectly connected Incorrect type of probe 	Code Pr2 displayed Humid./dehumid.regulation suspended. Upon saturation, the regulator applies a time AH7 before generating the alarm		
Pr3			 Code Pr3 displayed If Pr3 = 5, end defrost is due to timeout 		
AL	Low temperature alarm Pb1	Temperature Pb1 > A1 for a time equal to A7	 Code AL displayed No effect on regulation 	Wait until the temperature read by Pb1 goes below the alarm threshold (A1-A11)	
АН	High temperature alarm Pb1	Temperature Pb1 > A4 for a time equal to A7	 Code AH displayed No effect on regulation 	Wait until the temperature read by Pb1 goes above the alarm threshold (A4+A11)	
AL2	Low humidity	Humidity Pb2 > AH1	Code AL displayed	Wait until the temperature read by Pb2 goes below the	

PAR	AMETERS TABLE LEVEL 1						
Acce	ess Password: 1.						
Par.	Description	MU	Range	Default			
	CONFIGURATION Group						
CA1	Pb1 probe offset.	°C/°F	-25.025.0	0.0			
CA2	Pb2 probe offset.	°C/°F	-25.025.0	0			
	REGULATORS Group						
r0	Cooling mode setpoint differential.	°C/°F	0.125.0	2.0			
r12	Heating differential. (SET+ r11+r12).	°C/°F	-25.00.1	-2.0			
	HUMIDIFICATION/DEHUMIDIFICATION Group						
rd0	Dehumidification differential.	%	125	3			
rh0	Humidification differential.	%	-251	-3			
	DEFROST Group						
d0	Defrost interval.	h	099	0			
d2	Evaporator temperature above which defrost with evaporator probe terminates ($\mathbf{Pr3} = 5$).	°C/°F	-99.099.0	8.0			
d3	Defrost duration.	min	099	15			
	KEYS Group						
PLi	Enable light key in stand-by. 0 = Disabled; 1 = Enabled.		0/1	1			
PSr	Deactivate alarm output with silencing buzzer. 0 = Do not deactivate; 1 = Deactivate.		0/1	1			
ACC	ESSING THE PARAMETERS						

To access and change the parameters





2







AL2	Pb2 alarm	for a time equal to AH7	• No effect on regulation	read by Pb2 goes below the alarm threshold (AH1-2 %)
AH2	High humidity Pb2 alarm	Humidity Pb2 < AH4 for a time equal to AH7	 Code AH2 displayed No effect on regulation 	Wait until the temperature read by Pb2 goes above the alarm threshold (AH4+2 %)
id	Door open alarm	Digital input activated for a time > i2	 Code id displayed Regulators blocked depending on the current function in iC1 = 7, 8 or 9 	• If i2 = -1 the alarm is disabled; • Check i2 and iP1
сон	Condenser overheat signal	Condenser temperature > C6	 Code COH displayed No effect on regulation 	Check C6
CSd	High condensation alarm	Condenser temperature > C7 for a time equal to C8	• Code CSd displayed • Compressor locked	 Switch the device off then on again; Check C7 and C8
iA	Multi-purpose input alarm	Digital input activated (iC1 = 2) for a time equal to i5	 Code iA displayed No effect on regulation 	Check i5
dFd	Defrost timeout alarm	Defrost terminated due to timeout and not to reaching temperature d2	• Code dFd displayed • Alarm icon A flashing • No effect on regulation	• Touch any key • Check d2 , d3 and d11
HP	Digital pressure switch alarm	Pressure switch alarm activated due to digital pressure switch	 Compressor and dehumidification blocked The regulator counts the number of events i8 in the time i6 from the first one 	Check and remove the cause of the digital input alarm (automatic reset with i6 = 0)
CtH	Thermal switch 1 alarm	Digital input activated (iC1 = 5)	The regulator counts the number of events i8 in the time i7 from the first one	If i7 = 0 alarm is always automatically reset
rtc	Clock alarm	Clock (RTC) alarm not working	Clock-connected functions not present or not synchronised with the actual time	Set the right time. If the error persists, replace the device (RTC battery dead
PF	Power failure alarm	Power failure for a time > A10	Code PF is recorded	Check the power supply wiring

Simplified EU declaration of conformity

EVCO S.p.A. declares that the type of radio equipment:

EVLJ536N7V3RXV1

complies with directive 2014/53/EU and directive 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address: https://www.evco.it/en/16175-evbox-light-i500

Disclaimer

This document is the exclusive property of EVCO. It contains a general description and/or a description of the technical specifications for the services offered by the products listed herein. This document should not be used to determine the suitability or reliability of these products in relation to specific user applications. Each user or integration specialist should conduct their own complete and appropriate risk analysis, in addition to carrying out a product evaluation and test in relation to its specific application or use. Users can send us comments and suggestions on how to improve or correct this publication.

Neither EVCO nor any of its associates or subsidiaries shall be held responsible or liable for improper use of the information contained herein.

EVCO has a policy of continuous development. Therefore, EVCO reserves the right to make changes and improvements to any product described in this document without prior notice.

The technical data in this manual is subject to change without prior notice.



CONSIDER THE ENVIRONMENT

Please read this document carefully and save it

DISPOSAL



The device must be disposed of according to local regulations governing the collection of electrical and electronic equipment.



Advanced Controllers



Via Feltre 81, 32036, Sedico (BL) ITALIA Telephone: 0437 8422 | Fax: 0437 83648 Email: info@evco.it | Web: www.evco.it