

PRECAUTIONS FOR ELECTRICAL CONNECTION

If using an electrical or pneumatic screwdriver, adjust the tightening torque

- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power.
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section TECHNICAL SPECIFICATIONS.
- Disconnect the power supply before doing any type of maintenance.
- Do not use the device as safety device.
- For repairs and for further information, contact the EVCO sales network.

## FIRST-TIME

- Install following the instructions given in the section MEASUREMENTS AND INSTALLA-TION.
- Power up the device as shown in the section *ELECTRICAL CONNECTION* and an internal 2 test will be run.

The test normally takes a few seconds, when it is finished the display will switch off.

Configure the device as shown in the section Setting configuration parameters. Recommended configuration parameters for first-time use.

PAR.	DEF.	PARAMETER	MIN MAX.
SP	0.0	setpoint	r1 r2
PO	1	probe type	0 = PTC $1 = NTC$
P2	0	temperature unit of measurement	$O = °C \qquad 1 = °F$

Then check that the remaining settings are appropriate; see the section CONFIGURA-TION PARAMETERS.

- Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION with-5. out powering up the device.
- For the connection in an RS-485 network connect the interface EVIF22TSX or 6. EVIF23TSX, to activate real time functions connect the module EVIF23TSX (or use EV3... XRS); see the relevant instruction sheets.
- Power up the device.

	PF	power failu nected)	re alarm (available in EV3 XRS or if module EVIF23TSX is con-
i.	<b>  -</b> •	БЕТ	Touch the SET key.
ó.	(	U	Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure.
xampl	le of ala	rm informatio	on (e.g. a high temperature alarm).
	8.0		critical value (cabinet/ calculated product temperature)
			was 8.0 °C/°F
	Sta	(available	e in EV3 XRS or if module EVIF23TSX is connected)
		y15	alarm signalled in 2015
		n03	alarm signalled in March
		d26	alarm signalled on 26 March 2015
		h16	alarm signalled at 16:00
		n30	alarm signalled at 16:30
	dur		
		h01	alarm lasted 1h
		n15	alarm lasted 1h 15 min
.3			pressor functioning hours and view compressor start-up
	numbe	-	
	that the	keypad is no	t locked.
heck 1	1	_	
heck 1 1.	`	$\checkmark$	Touch the DOWN key for 4 s.
	l ` ∢_	✓ I _^☆ I,	Touch the DOWN key for 4 s. Touch the UP or DOWN key within 15 s to select a label.
1.	I ` ✓		Touch the UP or DOWN key within 15 s to select a label.
1.	ſ ſ	DESCRIPTIO	Touch the UP or DOWN key within 15 s to select a label.
1.	LAB.	DESCRIPTIC	Touch the UP or DOWN key within 15 s to select a label.

() Touch the ON/STAND-BY key to exit the procedure beforehand

exit	6.3	Restor	e the factor	y settings (default) and store customized settings as default					
	0,	actory settings are appropriate; see the section CONFIGURATION stomized settings overwrites the default.							
	1.	a:	ет	Touch the SET key for 4 s: the display will show the label "PA".					
	2.	a:	SET	Touch the SET key.					
	3.	ŕ		Touch the UP or DOWN key within 15 s to set the value.					
		VAL.	DESCRIPTI	- N					
		149 value to restore the factory settings (default)							
		161	value to sto	re customized settings as default					
t-up	4.	a :	567	Touch the SET key (or do not operate for 15 s): the display will show the label "dEF" (when value "149" is set) or the label "MAP" (when value "161" is set).					
	5.	<b>a</b> e	БЕТ	Touch the SET key.					
	6.	f	<u>∧</u> ∰ ∳	Touch the UP or DOWN key within 15 s to set "4".					
	7.	= =	5€⊤	Touch the SET key (or do not operate for 15 s): the display will show for 4 s "" flashing, then the device will exit the procedure.					
	8.	Interru	upt the power	supply to the device.					
	9.	≙€	эет	Touch the SET key 2 s before action 6. to exit the procedure be- forehand.					

				31   Instruction sheet ver. 1.0   Code 1 PARAMETERS			N.	PAR.	DEF.	DIGITAL				MIN MAX.		
0-	N.	PAR.	DEF.	SETPOINT	MIN MAX.		56	iO	1		tch/multi-	purpos	e input	0 = none		
₽	1	SP	0.0	setpoint	r1 r2					function				1 = compres 2 = reserved		
	N.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.									3 = reserved		
	2	CA1	0.0	cabinet probe offset	-25 25 °C/°F									4 = reserved		
	3	CA2	0.0	auxiliary probe offset	-25 25 °C/°F									5 = reserved		
	4	PO	1	probe type	0 = PTC $1 = NTC$									6 = reserved		
	5	P1	1	enable °C decimal point	0 = no 1 = yes									7 = energy s		
	6	P2	0	temperature unit of measure-	$0 = °C \qquad 1 = °F$									8 = iA alarm 9 = device o		
0	7	P4	0	ment	O door owitch/multi-pur									10= Cth alarr		
~	<sup>′</sup>	P4		configurable input function	0 = door switch/multi-pur- pose input									11= th alarm		
					1 = evaporator probe		57	i1	0		tch/multi-	purpos	e input	0 = with con		
					2 = condenser probe		-			activatior				1 = with con		
	8	P5	0	value displayed	0 = cabinet temperature		58	i2	30	open aoo	r alarm de	elay		-1 120 min -1 = disabled		
					1 = setpoint 2 = auxiliary temperature		59	i3	15	regulation	n inhibiti	on m	aximum	-1 120 min		
	9	P8	5	display refresh time	0 250 s : 10						door ope			-1 = until the		
	N.	PAR.	DEF.	REGULATION	MIN MAX.		60	i7	0	multi-pur	pose inpu	t alarm	delay	-1 120 min		
	10	r0	2.0	setpoint differential	1 15 °C/°F									-1 = disabled		
	11	r1	-50	minimum setpoint	-99 °C/°F r2									if $i0 = 10$ or		
	12	r2	50.0	maximum setpoint	r1 199 °C/°F		61	i10	0	door clos	ed conse	rutive	time for	on delay after 0 999 min		
	13	r4	0.0	setpoint offset in energy saving	0 99 °C/°F		.			energy sa		Surre		after regulati		
	14	r5	0	cooling or heating operation	0 = cooling 1 = heating									< SP		
	15	r6	0.0	setpoint offset in overcool-	0 99 °C/°F		<u> </u>							0 = disabled		
				ing/overheating			62	i13	180	number of frost	of door op	penings	for de-	0 240 0 = disabled		
	16	r7	30	overcooling/overheating duration	0 240 min		63	i14	32		n consec	utive t	ime for	0 = disabled 0 240 min		
	17	r8	0	DOWN key additional function	0 = disabled					defrost		unito i		0 = disabled		
					<ol> <li>1 = overcooling/overheating</li> <li>2 = energy saving</li> </ol>	- 0	N.	PAR.	DEF.	ENERGY	SAVING (i	f r5 = 0	))	MIN MAX.		
	18	r12	0	position of the r0 differential	0 = asymmetric	<b>*</b>	64	HE2	0	energy sa	aving max	imum d	duration	0 999 min		
		112			1 = symmetric									-1 = until the		
-	N.	PAR.	DEF.	COMPRESSOR	MIN MAX.		N.	PAR.	DEF.		ME ENERG	GY SAV	/ING (if	MIN MAX.		
	19	CO	0	compressor on delay after pow-	0 240 min		65	H01	0	r5 = 0	aving time			0 23 h		
				er-on			66	H02	0		aving dura			0 23 h		
	20	C2	3	compressor off minimum time	0 240 min	O_	67	HEd	7	energy sa				0 = Monday		
	21 22	C3 C4	0 10	compressor on minimum time	0 240 s 0 240 min	-								2 = Wedneso		
	22	C4	10	compressor off time during cabi- net probe alarm	0 240 min									3 = Thursday		
	23	C5	10	compressor on time during cabi-	0 240 min									5 = Saturday 7 = none		
Ľ				net probe alarm			N.	PAR.	DEF.	REAL TIM	E DEFROS	ST (if d	8 - 4	MIN MAX.		
	24	C6	80.0	threshold for high condensation	0 199 °C/°F		68	Hd1	h-	1	defrost tir			h- = disabled		
	05	07		warning	differential = 2 °C/4 °F		69	Hd2	h-		defrost ti			h- = disabled		
	25	C7	90.0	threshold for high condensation alarm	0 199 °C/°F	<b>●</b> ©	70	Hd3	h-	3rd daily	defrost tir	me		h- = disabled		
	26	C8	1	high condensation alarm delay	0 15 min		71	Hd4	h-	4th daily	defrost tir	me		h- = disabled		
	27	C10	0	compressor hours for service	0 999 h x 100		72	Hd5	h-		defrost tir			h- = disabled		
					0 = disabled		73 N.	PAR.	h- DEF.	6th daily SAFETIES		me		h- = disabled MIN MAX.		
	N.	PAR.	DEF.	DEFROST (if r5 = 0)	MIN MAX.	$\overline{\mathbf{O}}$	74	POF	0		, N/STAND-	BY key		0 = no		
	28	d0	8	automatic defrost interval	0 99 h		75	PAS	-19	password		DIRCy		-99 999		
					0 = only manual if d8 = 3, maximum interval	$\square$	N.	PAR.	DEF.	REAL TIN	IE CLOCK			MIN MAX.		
	29	d2	8.0	threshold for defrost end	-99 99 °C/°F	0	76	Hr0	0	enable cle	ock			0 = no		
	30	d3	30	defrost duration	0 99 min		Ν.	PAR.	DEF.	MODBUS				MIN MAX.		
					se P4 = 1, maximum duration		77	LA	247 2	MODBUS address MODBUS baud rat				1247 0 = 2,400 ba		
	31	d4	0	enable defrost at power-on	0 = no 1 = yes	ld	/°	Lb	2					0 = 2,400  ba 1 = 4,800  ba		
	32 33	d5 d6	0	defrost dealy after power-on value displayed during defrost	0 99 min 0 = cabinet temperature									2 = 9,600  ba		
	55	uu	2	value displayed during denost	1 = display locked									3 = 19,200  k		
					2 = dEF label		I			l				parity even		
	34	d7	0	dripping time	0 15 min	8	ALAF	RMS								
	35	d8	0	defrost interval counting mode	0 = device on hours			une								
					<ol> <li>1 = compressor on hours</li> <li>2 = hours evaporator tem-</li> </ol>	COD.	DES	SCRIPTI	ON		RESET		REMED	ES		
					perature < d9	Pr1	-		be alarn		automati		- checl			
					3 = adaptive	Pr2	aux	iliary pr	obe alar	rm	automatic	ic		c probe integrit		
۸.					4 = real time	rtc	cloc	k alarm			manual			c electrical coni e, time and day		
-	36	d9	0.0	evaporation threshold for auto- matic defrost interval counting	-99 99 °C/°F	AL	1		ature al	arm	automati	ic		A, A1 and A2		
	37	d11		111 0	0	enable defrost timeout alarm	0 = no 1 = yes	AH	high	n tempe	rature a	larm	automati	ic	check A	A, A4 and A5
	38	d18		adaptive defrost interval	0 999 min	id	<u> </u>	n door a			automati	ic	check i			
				9 3.0		if compressor on + evapora-	PF	pow	er failu	re alarm		manual		- touch		
						tor temperature < d22	сон	biat	conde	nsation	varning	automati	ic	- check C	< electrical con	
	39	410			- 20	threshold for adaptive defrost	0 = only manual 0 40 °C/°F	CSd	-		nsation	-	manual			h the device of
	37	019			(relative to optimal evaporation	optimal evaporation tempera-								- checl		
				temperature)	ture - d19	iA	mul	ti-purpo	se inpu	t alarm	automati	ic	check i	) and i1		
	40	d20	180	compressor on consecutive time	0 999 min	Cth			therm	al switch	automati	ic	check i	) and i1		
				for defrost	0 = disabled		alar									
	41	d21	200	compressor on consecutive time	0 500 min	th	giob	ai therr	nai swit	ch alarm	manual			h the device of < i0 and i1		
				for defrost after power-on and overcooling	if (cabinet temperature - setpoint) > 10°C/20 °F	dFd	defr	ost time	eout ala	rm	manual		- touch			
					0 = disabled	1	1							c d2, d3 and d1		
	42	d22	-2.0	evaporation threshold for adap-	-10 10 °C/°F											
	-			tive defrost interval counting	optimal evaporation tempera-	9	TECI	INICAL	SPECI	FICATION	IS					
				(relative to optimal evaporation	ture + d22	Purpo	se of	the con	trol devi	ce		Functi	on contro	oller		
	N.	PAR.	DEF.	temperature) ALARMS	MIN MAX.				control					nic device		
	1.1	AA	DEF.	select value for high/low temper-	0 = cabinet temperature	Conta		2. 110						nguishing		
	43		1		1 = auxiliary temperature			heat a	nd fire r	esistance		D		- 0		
				ature alarms		Category of heat and fire resistance D Measurements										
		A1	-10.0	threshold for low temperature	-99 99 °C/°F											
	43 44	A1		threshold for low temperature alarm	-99 99 °C/°F	75.0	< 33.0	) x 59.0		15/16 x				81.5 mm (2 1		
	43		-10.0 1	threshold for low temperature	-99 99 °C/°F 0 = disabled	75.0 x 2 5/1	< 33.0 6 in)	) x 59.0 with fix	ed scre	15/16 x w termina	l blocks;	3 3/1	6 in) w	ith removable		
	43 44	A1		threshold for low temperature alarm	-99 99 °C/°F 0 = disabled 1 = relative to setpoint	75.0 x 2 5/1 75.0 x	< 33.0 6 in) < 33.0	) x 59.0 with fix	ed scre ) mm (2	15/16 x	l blocks;	3 3/1 blocks	6 in) w ; 75.0 x	•		
	43 44	A1		threshold for low temperature alarm	-99 99 °C/°F 0 = disabled	75.0 x 2 5/1 75.0 x 2 7/8	< 33.0 6 in) < 33.0 in) in	) x 59.0 with fix ) x 73.0 EV3	ed scre ) mm (2 XRS	15/16 x w termina	l blocks; 1 5/16 x	3 3/1 blocks 5/16 >	6 in) w ; 75.0 x ; 3 1/4 in	ith removable 33.0 x 83.0 m		
	43 44 45	A1 A2	1	threshold for low temperature alarm low temperature alarm type	-99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute	75.0 : 2 5/1 75.0 : 2 7/8 Mount	< 33.0 6 in) < 33.0 in) in ing m	) x 59.0 with fix ) x 73.0 EV3	ed scre mm (2 XRS for the	15/16 x w termina 15/16 x	l blocks; 1 5/16 x vice	3 3/1 blocks 5/16 >	6 in) w ; 75.0 x <u>&lt; 3 1/4 ir</u> fitted to	ith removable 33.0 x 83.0 m ) in EV3 XRS		

- I			ATTON	PARAMETERS		•	56	iO	1	DIGITAL door sw	itch/multi-p	urpose input	MIN MAX. t 0 = none	
Ĵ⊧⊦	N. 1	PAR. SP	DEF.	SETPOINT setpoint	MIN MAX. r1 r2					function		,	1 = compressor off 2 = reserved	
-	Ν.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.	[							3 = reserved	
-	2	CA1 CA2	0.0	cabinet probe offset auxiliary probe offset	-25 25 °C/°F -25 25 °C/°F	-							4 = reserved 5 = reserved	
	4	PO	1	probe type	0 = PTC $1 = NTC$	-							6 = reserved	
┝	5 6	P1 P2	1	enable °C decimal point temperature unit of measure-	$0 = no \qquad 1 = yes$ $0 = °C \qquad 1 = °F$	-							7 = energy saving 8 = iA alarm	
2	_			ment		-							9 = device on/off 10= Cth alarm	
	7	Ρ4	0	configurable input function	0 = door switch/multi-pur- pose input								11= th alarm	
					1 = evaporator probe 2 = condenser probe		57	i1	0	door sw activatio		urpose input	t 0 = with contact closed 1 = with contact open	
F	8	P5	0	value displayed	0 = cabinet temperature		58	i2	30	open doo	or alarm del	ау	-1 120 min -1 = disabled	
					1 = setpoint 2 = auxiliary temperature		59	i3	15	regulatio	n inhibitic	n maximum		
_	9	P8	5	display refresh time	0 250 s : 10		60	i7	0		n door open	alarm delay	-1 = until the closing -1 120 min	
Ľ	N. 10	PAR. r0	DEF. 2.0	REGULATION setpoint differential	MIN MAX. 1 15 °C/°F	-							-1 = disabled	
F	11	r1	-50 50.0	minimum setpoint	-99 °C/°F r2 r1 199 °C/°F	-							if i0 = 10 or 11, compressor on delay after alarm reset	
Ŀ	12 13	r2 r4	0.0	maximum setpoint setpoint offset in energy saving	0 99 °C/°F	-	61	i10	0	door clos energy s		utive time for	<ul> <li>0 999 min after regulation temperature</li> </ul>	
	14	r5	0	cooling or heating operation	0 = cooling 1 = heating					energy s	aving		< SP	
	15	r6	0.0	setpoint offset in overcool-	0 99 °C/°F	-	62	i13	180	number	of door ope	enings for de-	0 = disabled 0 240	
ŀ	16	r7	30	ing/overheating overcooling/overheating duration	0 240 min	-	63	i14	32	frost		tive time for	0 = disabled 0 240 min	
	17	r8	0	DOWN key additional function	0 = disabled 1 = overcooling/overheating		0.3	114	32	defrost	en consecu	live lime loi	0 = disabled	
					2 = energy saving		N. 64	PAR. HE2	DEF.		SAVING (if	r5 = 0) num duration	MIN MAX. 0 999 min	
	18	r12	0	position of the r0 differential	0 = asymmetric 1 = symmetric						-		-1 = until the door opening	
	N.	PAR.	DEF.	COMPRESSOR	MIN MAX.	[	N.	PAR.	DEF.	REAL TI r5 = 0)	ME ENERG	Y SAVING (if	f MIN MAX.	
	19	CO	0	compressor on delay after pow- er-on	0 240 min		65	H01	0	energy s	aving time	lon	0 23 h	
F	20	C2	3	compressor off minimum time	0 240 min	i 🖉	66 67	H02 HEd	0 7		aving durat aving day	IUN	0 24 h 0 = Monday 1 = Tuesday	
┢	21 22	C3 C4	0 10	compressor on minimum time compressor off time during cabi-	0 240 s 0 240 min	·   -					-		2 = Wednesday 3 = Thursday 4 = Friday	
┝	23	C5	10	net probe alarm compressor on time during cabi-	0 240 min	-							5 = Saturday 6 = Sunday	
				net probe alarm		.	N.	PAR.	DEF.	REAL TIN	ME DEFROS	Γ (if d8 = 4)	7 = none MIN MAX.	
	24	C6	80.0	threshold for high condensation warning	0 199 °C/°F differential = 2 °C/4 °F		68	Hd1	h-	1st daily	defrost tim	e	h- = disabled	
ſ	25	C7	90.0	threshold for high condensation		•O	69 70	Hd2 Hd3	h- h-		/ defrost tin defrost tim		h- = disabled h- = disabled	
╞	26	C8	1	alarm high condensation alarm delay	0 15 min	·   *	71	Hd4	h-	4th daily	defrost tim	ie	h- = disabled	
ľ	27	C10	0	compressor hours for service	0 999 h x 100	- 	72 73	Hd5 Hd6	h- h-	1	defrost tim defrost tim		h- = disabled h- = disabled	
╈	N.	PAR.	DEF.	DEFROST (if r5 = 0)	0 = disabled MIN MAX.		N.	PAR.	DEF.	SAFETIE	S		MIN MAX.	
	28	d0	8	automatic defrost interval	0 99 h 0 = only manual		74 75	POF PAS	0 -19	password		, rey	0 = no 1 = yes -99 999	
					if d8 = 3, maximum interval	<u> </u>	N. 76	PAR. Hr0	DEF.	REAL TIN			MIN MAX. 0 = no 1 = yes	
┝	29 30	d2 d3	8.0 30	threshold for defrost end defrost duration	-99 99 °C/°F 0 99 min	·	N.	PAR.	DEF.	MODBUS			MIN MAX.	
-					se P4 = 1, maximum duration		77	LA Lb	247 2	MODBUS	address baud rate		1 247 0 = 2,400 baud	
Ŀ	31 32	d4 d5	0	enable defrost at power-on defrost dealy after power-on	0 = no 1 = yes 0 99 min	ld			-		budu rato		1 = 4,800 baud	
	33	d6	2	value displayed during defrost	0 = cabinet temperature 1 = display locked								2 = 9,600 baud 3 = 19,200 baud	
					2 = dEF label	_							parity even	
┝	34 35	d7 d8	0	dripping time defrost interval counting mode	0 15 min 0 = device on hours	8	ALAF	RMS						
				g	1 = compressor on hours	COD.	DES	SCRIPTI	ON		RESET REMEDI		DIES	
					2 = hours evaporator tem- perature < d9	Pr1	Pr1 cabinet probe alarm				automatic			
					3 = adaptive 4 = real time	Pr2	Pr2 auxiliary probe alarm automatic			<ul> <li>check probe integrity</li> <li>check electrical connection</li> </ul>				
• [	36	d9	0.0	evaporation threshold for auto-	-99 99 °C/°F	rtc AL	-	k alarm temper		arm	manual automatic			
ŀ	37	d11	0	matic defrost interval counting enable defrost timeout alarm	0 = no 1 = yes	AH	higł	n tempe	rature a		automatic	check	AA, A4 and A5	
	38	d18	40	adaptive defrost interval	0 999 min if compressor on + evapora-	id PF	1	n door a /er failu		<u>ו</u>	automatic manual		i0 e i1 ch a key	
					tor temperature < d22	сон	biał	n conde	nsation	warning	automatic		ck electrical connection	
┢			3.0	threshold for adaptive defrost	0 = only manual 0 40 °C/°F	CSd	- ×	n condei		· · ·	manual			
	39	d19		(relative to optimal evaporation	U 40 C/ F	iA	mul			out alarm automati			ch the device off and on	
	39	d19			optimal evaporation tempera-		multi-purpose input compressor therm			t alarm	automatic	- che		
-	39 40	d19 d20	180	temperature) compressor on consecutive time	optimal evaporation tempera- ture - d19 0 999 min	Cth	com	pressor			automatic	- che check	ck C7	
-			180	temperature)	optimal evaporation tempera- ture - d19		com alar	npressor m	therm		automatic	- cher check check	ck C7 i0 and i1	
	40	d20		temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature -	Cth th	com alar glob	npressor m bal therr	therm	nal switch	automatic automatic manual	- check check check - swit - check	ck C7 i0 and i1 i0 and i1 ich the device off and on ck i0 and i1	
	40 41	d20 d21	200	temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F 0 = disabled	Cth	com alar glob	npressor m	therm	nal switch	automatic automatic	- cher check check - swit - cher - tour	ck C7 i0 and i1 i0 and i1 	
	40	d20		temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F	Cth th dFd	com alar glob defr	npressor m pal therr rost time	mal swit	nal switch	automatic automatic manual manual	- cher check check - swit - cher - tour	ck C7 i0 and i1 i0 and i1 ich the device off and on ck i0 and i1 ch a key	
	40 41	d20 d21	200	temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F	Cth th dFd	com alar glob defr	npressor m bal therr rost time	therm mal swit eout ala	nal switch ich alarm irm	automatic automatic manual manual	- chee check check - swit - chee - touo - chee	ck C7 i0 and i1 i0 and i1 ich the device off and on ck i0 and i1 ch a key ck d2, d3 and d11	
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	40 41 42 42 43 43 44 45 46 47 48 48 49 50 51 52 53 53	d20 d21 d22 AA AA A1 A2 A3 A4 A5 A3 A6 A7 A8 A9 A10 A11 A12	200 -2.0 DEF. 0 -10.0 1 10.0 1 10.0 1 15 15 15 10 2.0 2	temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification type	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED 1 = HACCP LED + PF label + buzzer 2 = HACCP LED + PF label + buzzer (if duration > A10)	Cth th dFd 9 Purpos Conta	TECI alar glob TECI se of ruction inner ory of ruction inning m c 33.(C 6 in).(c 33.(C 6 in).(c 33.(C 6 in).(c 33.(C 6 in).(c 33.(C) 6 in).(c 33.(C) 6 in).(c 33.(C) 6 in).(c 33.(C) 7 inner inne	Antical theorem Antical theorem and there and there and there and the con- on of the the con- on of the f heat and the con- f heat and the con- f heat and the con- the con- f heat and the con- the c	therm mal swit eout ala SPECI trol devi control a control on mm (2 XRS for the on prov d length n (32.8 n (32.8 ture re f f the cont	In the second se	automatic automatic manual manual manual NS 1 5/16 x 1 5/16 x vice tovable scr s for w mm <sup>2</sup> ; by rec sction cable covable scr s for w m <sup>2</sup> ; by rec sction cable covable scr s for w m <sup>2</sup> ; by rec sction cable covable scr s for w m <sup>2</sup> ; by rec sction cable covable scr s for w for w	- chee check - switt - check - switt - chee - touc - touc - chee - ch	ck C7           i0 and i1           i0 and i1           i0 and i1           ich the device off and on ck i0 and i1           in a key           ck d2, d3 and d11           roller           onic device           tinguishing           ck 81.5 mm (2 15/16 x 1 5/16 x with removable screw terminal x 33.0 x 83.0 mm (2 15/16 x 1 in) in EV3 XRS           o a panel, snap-in brackets pro-           uts: 10 m (32.8 ft)           sc (from 32 to 131 °F); from 0 n 32 a 122 °F) in EV3 N3 0 °C (from -13 to 158 °F)           idity without condensate from 1907/2006           REACH (EC) Regulation 1907/2006           REACH in EV3 N7           ted in EV3 N5	
	40 41 42 42 43 43 44 45 46 47 48 48 49 50 51 52 53 53	d20 d21 d22 AA AA A1 A2 A3 A4 A5 A3 A6 A7 A8 A9 A10 A11 A12	200 -2.0 DEF. 0 -10.0 1 10.0 1 10.0 1 15 15 15 10 2.0 2	temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification type	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED 1 = HACCP LED + PF label + buzzer 2 = HACCP LED + PF label + buzzer (if duration > A10)	Cth th dFd 9 Purpoo Conta Conta Categy Measu 75.0 > 2 5/10 75.0 > 2 5/10 75.0 > 2 5/10 75.0 > 2 5/10 75.0 > 2 5/10 75.0 > 2 7/8 Mount Degre ing Conne Fixed for win Opera Opera Opera Opera Storag Opera Polluti Confor RoHS EMC 2 Pourpoo 2 30 V 2 30 V 3 50	TEC) se of ruction iner ory od ruction iner ory od ruction iner ory od ruction iner ory od iner ory od ory od iner ory od ory od o	Appressor m bal therr rost time FINICAL the con n of the f heat and ints 0 x 59.0 with fix 0 x 73.0 EV3 protection methods w termino to 2,5 permitte by: 10 r ts: 10 r emperatu numidity 100% -1 -100% -100% -1 -100% -100% -1 -100% -100% -100% -100% -100% -100% -100% -10	therm mal switt eout ala SPECI trol devi e control e control on mm (2 ced scree o mm (2 ced scree ced scree o mm (2 ced scree o mm (2 ced scree o mm (2 ced	International switch and switch alarm and switch alarm arm arm arm arm arm arm arm arm arm	automatic automatic manual manual NS 1 5/16 x al blocks; 1 5/16 x vice i 1 5/16 x vice i 1 5/16 x vice i 1 5/16 x vice i 1 5/16 x vice i 2 000 i 2 000	- cher     - cher     - cher     - cher     - swit     - cher     - tour     - tour     - cher      - tour     - cher	ck C7           I0 and I1           i0 and i1           i0 and i1           ich the device off and on ck i0 and i1           ich a key           ck 02, d3 and d11   roller onic device tinguishing           in a key           ck 15. mm (2 15/16 x 1 5/16 x           in in EV3 XRS           o a panel, snap-in brackets pro-           is: 10 m (32.8 ft)           sc (from 32 to 131 °F); from 0 n 32 a 122 °F) in EV3 N3           o °C (from -13 to 158 °F)           idity without condensate from           REACH (EC) Regulation 1907/2006           VUE	
	40 41 42 42 43 43 44 45 46 47 48 48 49 50 51 52 53 53	d20 d21 d22 AA AA A1 A2 A3 A4 A5 A3 A6 A7 A8 A9 A10 A11 A12	200 -2.0 DEF. 0 -10.0 1 10.0 1 10.0 1 15 15 15 10 2.0 2	temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification type	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED 1 = HACCP LED + PF label + buzzer 2 = HACCP LED + PF label + buzzer (if duration > A10)	Cth       th       dFd       9       Purpor       Constr       Conta       Categr       Measu       75.0 >       2 5/10       75.0 >       2 7/8       Mount       Degree       ing       Connee       Fixed       for wir       Digital       Opera       Storag       Opera       Pollutit       Confor       RoHS       EMC 2       Power       230 V       112-24       SELV       Earthi	TECI alar glot defir se of ructio iner ory of ructio in) in in) in i	Appressor m bal therr rost time FINICAL the con n of the f heat and ints 0 x 59.0 with fix 0 x 73.0 EV3 protection methods w termino to 2,5 permitte by: 10 r ts: 10 r emperatu numidity 100% -1 -100% -100% -1 -100% -100% -1 -100% -100% -100% -100% -100% -100% -100% -10	therm mal swit eout ala SPECI trol devi a control of fire r on mm (2 XRS for the on prov d length n (32.8 ture re re for the cont 5%), 50 5%), 50 5%), 50 5%), 50 5%, 5%	International switch and switch alarm and switch alarm arm arm and switch alarm arm arm arm arm arm arm arm arm arm	automatic automatic manual manual manual NS 1 5/16 x al blocks; 1 5/16 x al blocks; 1 5/16 x vice vice vice s for w mm²; by received s for w mm²; by received covable scr iss for w mm²; by received by received s for w mm²; by received s for w m²; by received s for w m²; by received s for w m²; by received s for w m²; by received s for w for	- chee check - switt - check - switt - chee - touc - touc - chee - ch	ck C7           i0 and i1           i0 and i1           i0 and i1           ich the device off and on ck i0 and i1           in a key           ck d2, d3 and d11           roller           onic device           tinguishing           ck 81.5 mm (2 15/16 x 1 5/16 x with removable screw terminal x 33.0 x 83.0 mm (2 15/16 x 1 in) in EV3 XRS           o a panel, snap-in brackets pro-           uts: 10 m (32.8 ft)           sc (from 32 to 131 °F); from 0 n 32 a 122 °F) in EV3 N3 0 °C (from -13 to 158 °F)           idity without condensate from 1907/2006           REACH (EC) Regulation 1907/2006           REACH in EV3 N7           ted in EV3 N5	
	40 41 42 42 43 43 44 45 46 47 48 48 49 50 51 52 53 53	d20 d21 d22 AA AA A1 A2 A3 A4 A5 A3 A6 A7 A8 A9 A10 A11 A12	200 -2.0 DEF. 0 -10.0 1 10.0 1 10.0 1 15 15 15 10 2.0 2	temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification type	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED 1 = HACCP LED + PF label + buzzer 2 = HACCP LED + PF label + buzzer (if duration > A10)	Cth th dFd 9 Purpor Constr Conta Cont	TECI alar alar alar alar corr alar	An and a series of the series	therm mal swit eout ala SPECI trol devi control a control on mm (2 ced scre on mm (2 XRS for the on prov d length n (32.8 ture re re the cont 5%), 5( 5%), 5( 5%), 5( 5%), 5( cor the cont cor the cont cont cont cont cont cont cont cont	In the second se	automatic automatic manual manual manual NS 1 5/16 x al blocks; 1 5/16 x vice covable scr is for w mm <sup>2</sup> ; by rec scr for w m <sup>3</sup> ; by rec scr for w	- cher      -	ck C7           I0 and i1           i0 and i1           i0 and i1           ich the device off and on ck i0 and i1           ch a key           ck i0 and i1           ch a key           ck d2, d3 and d11           roller           onic device           tinguishing           ck 81.5 mm (2 15/16 x 1 5/16 x           with removable screw terminal x           x 33.0 x 83.0 mm (2 15/16 x 1           in) in EV3 XRS           o a panel, snap-in brackets pro-           uts: 10 m (32.8 ft)           s: 10 m (32.8 ft)           s: 10 m (32.8 ft)           s: C (from -13 to 158 °F)           idity without condensate from           gatter in EV3 N7           ted in EV3 N7           ted in EV3 N5           /2W in EV3 N3, provided by a	
	40 41 42 42 43 43 44 45 46 47 48 48 49 50 51 52 53 53	d20 d21 d22 AA AA A1 A2 A3 A4 A5 A3 A6 A7 A8 A9 A10 A11 A12	200 -2.0 DEF. 0 -10.0 1 10.0 1 10.0 1 15 15 15 10 2.0 2	temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification type	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED 1 = HACCP LED + PF label + buzzer 2 = HACCP LED + PF label + buzzer (if duration > A10)	Cth th dFd 9 Purpor Constr Conta Cont	TECI alar alar alar alar corr alar	Appressor m Anit call the con n of the f heat as as the con n of the f heat as the con f heat as f heat	therm mal swit eout ala SPECI trol devi control a control on mm (2 ced scre on mm (2 XRS for the on prov d length n (32.8 ture re re the cont 5%), 5( 5%), 5( 5%), 5( 5%), 5( cor the cont cor the cont cont cont cont cont cont cont cont	In the second se	automatic automatic manual manual NS 1 5/16 x al blocks; 1 5/16 x vice is for w mm <sup>2</sup> ; by rec scion cable covable sci is for w mm <sup>2</sup> ; by rec scion cable is for w m <sup>2</sup> ; by rec scion cable is for w for	- cher      -	ck C7           I0 and I1           i0 and i1           i0 and i1           ich the device off and on ck i0 and i1           ich a key           ck d2, d3 and d11           roller           onic device           tinguishing           k 81.5 mm (2 15/16 x 1 5/16 x           with removable screw terminal x 33.0 x 83.0 mm (2 15/16 x 1 in) in EV3 XRS           o a panel, snap-in brackets pro-           uts: 10 m (32.8 ft)           s: 10 m (32.8 ft)           c (from 32 to 131 °F); from 0 n 32 a 122 °F) in EV3 N3           0 °C (from -13 to 158 °F)           iidity without condensate from           REACH (EC) Regulation 1907/2006           //LE           ted in EV3 N7           ted in EV3 N3, provided by a           N3	
	40 41 42 42 43 43 44 45 46 47 48 48 49 50 51 52 53 53	d20 d21 d22 AA AA A1 A2 A3 A4 A5 A3 A6 A7 A8 A9 A10 A11 A12	200 -2.0 DEF. 0 -10.0 1 10.0 1 10.0 1 15 15 15 10 2.0 2	temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification type	optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED 1 = HACCP LED + PF label + buzzer 2 = HACCP LED + PF label + buzzer (if duration > A10)	Cth Cth dFd 9 Purpos Consta Con	TECI alar glot glot se of ructio inner ory of ructio inner ory of ructio inner ory of ructio ory of ructio inner ory of alar e of inner c 33.( c 33.(	Annu and a series of the serie	therm mal swit eout ala SPECI trol devi control a control on mm (2 ced scre on mm (2 XRS for the on prov d length n (32.8 ture re re the cont 5%), 5( 5%), 5( 5%), 5( 5%), 5( cor the cont cor the cont cont cont cont cont cont cont cont	In the second se	automatic automatic manual manual NS 1 5/16 x al blocks; 1 5/16 x vice value covable scr s for w mm <sup>2</sup> ; by rete scrion cable covable scr s for w for a for a	- chei - chei - chei - swit - chei -	ck C7           I0 and i1           i0 and i1           i0 and i1           ich the device off and on ck i0 and i1           in a key           ck d2, d3 and d11           roller           onic device           tinguishing           k 81.5 mm (2 15/16 x 1 5/16 x           with removable screw terminal x 33.0 x 83.0 mm (2 15/16 x 1 in) in EV3 XRS           o a panel, snap-in brackets pro-           uts: 10 m (32.8 ft)           s: 10 m (32.8 ft)           °C (from 32 to 131 °F); from 0 n 32 a 122 °F) in EV3 N3           o °C (from -13 to 158 °F)           idity without condensate from           REACH (EC) Regulation 1907/2006           /UE           ted in EV3 N7           ted in EV3 N5           /2W in EV3 N3, provided by a           N3           secondary lithium battery	

	Clock battery	autonomy in th	e absence of a	> 24 h at 25 °C (77 °F)					
	power supply								
	Clock battery of	charging time		24 h (the battery is charged by the power					
					supply of the device)				
	Analogue input	ts		1 for PTC or NT	C probes (cabinet probe)				
	PTC probes	Sensor type		KTY 81-121 (9	90Ω@25°C,77°F)				
		Measurement f	field	From -50 to 15	0 °C (from -58 to 302 °F)				
		Resolution		0.1 °C (1 °F)					
	NTC probes	Sensor type		ß3435 (10 K□Ω @ 25 °C, 77 °F)					
		Measurement f	field	From -40 to 105 °C (from -40 to 221 °F)					
		Resolution		0.1 °C (1 °F)					
	Other inputs	•	Input configur	able for analog	ue input (auxiliary probe) or				
٠I			digital input (d	door switch/multi-purpose, dry contact)					
	Dry contact		Contact type		5 VDC, 1.5 mA				
۰I			Power supply		None				
			Protection		None				
۰I	Digital outputs		1 electro-mech	chanical relay (compressor relay)					
	Compressor re	lay (K1)	EV3221	SPST, 16 A res	. @ 250 VAC				
٠I			EV3231	SPST, 30 A res. @ 250 VAC Type 1					
	Type 1 or Type	e 2 Actions							
	Additional feat	ures of Type 1	or Type 2 ac-	С					
	tions	ions							
•	Displays			3 digits custom display, with function icons					
	Alarm buzzer	Alarm buzzer			Incorporated				
	Communication	n ports							
	1 TTL MODBUS	6 slave port for I	BMS (not avail-	1 RS-485 MOD	BUS slave port for BMS (avail-				
•	able in EV3 XRS)			able in EV3 >	(RS)				

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

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