### Basic controllers for blast chillers





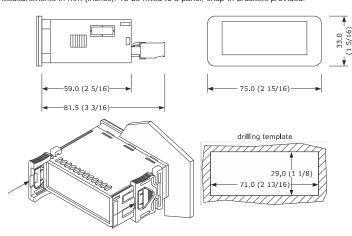


- 230 VAC or 115 VAC power supply (according to the model)
- cabinet probe and needle probe (PTC/NTC)
- door switch/multi-purpose input
- compressor relay 16 A res. @ 250 VAC
- TTL MODBUS slave port for EVconnect app, EPoCA remote monitoring system or for
- operation with EV3KEY programming key.

Purchasing code	Power supply
EV3802N7	230 VAC
EV3802N5	115 VAC

#### MEASUREMENTS AND INSTALLATION

Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided



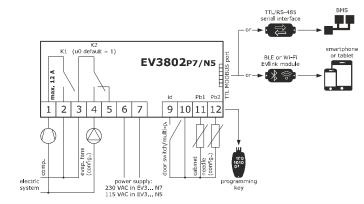
#### INSTALLATION PRECAUTIONS

- 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  $\it TECHNICAL$ SPECIFICATIONS section
- 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
- in compliance with safety regulations, the device must be installed properly to ensure  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$ adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

#### ELECTRICAL CONNECTION



use cables of an adequate section for the current running through them to reduce any electromagnetic interference, locate the power cables as far away as possible from the signal cables



## PRECAUTIONS FOR ELECTRICAL CONNECTION

- if using an electrical or pneumatic screwdriver, adjust the tightening torque
- if the device is moved from a cold to a warm place, humidity may cause condensation to form inside. Wait for 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 carrying out any type of maintenance
- do not use the device as a safety device
- for repairs and for further information, contact the EVCO sales network.

## FIRST-TIME USE

- Carry out the installation following the instructions given in the section MEASUREMENTS AND INSTALLATION.
- Power up the device as set out in the section ELECTRICAL CONNECTION: an internal 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

	Recomr	t-time use:	
PAR.	DEF.	PARAMETER	MIN MAX.
PO	1	type of probe	O = PTC 1 = NTC
P2 <b>0</b> tempera		temperature measurement unit	0 = °C 1 = °F
u0	1	auxiliary output configuration	0 = defrosting

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

1 = evaporator fans

- Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION, without powering up the device.
- For the connection in an RS-485 network connect the interface EVIF22TSX or  $\ensuremath{\mathsf{EVIF23TSX}}\xspace$  , to use the device with the EPoCA remote monitoring system, connect the EVIF25TWX module, to use the device with the APP EVconnect connect the interface EVIF25TBX; see the relevant instruction sheets. If EVIF22TSX or EVIF23TSX is

## used, set parameter bLE to 0.

Power up the device again

#### 4 USER INTERFACE AND MAIN FUNCTIONS conservation of measurement °C \* \* ۰F defrost @ min time u. of m temperature △ time controll. controlled 0 cycle ► low consump

 $\Diamond$ 

START/STOP

#### Switching the device on/off

Power up/disconnect the device

If the device is switched on and no cycle is active, the display will show the cabinet tempera-

FNC \

DOWN,

additional

functions

△₩

defrost

If the display shows an alarm code, see the section ALARMS.

**≙** SET

SET,

keypad lock

If no cycle is active, after 10 s have elapsed without the keys being pressed, the display will automatically switch off, except for the low consumption LEDs.

When 60 s have elapsed without the keys being pressed, the display will show the " $\mathbf{Loc}$ " label and the keypad will lock automatically

LE	ED	ON	OFF	FLASHING
÷,	*	compressor switched on	compressor switched off	compressor protection in progress
Y.	<u>-</u> 5	defrost active	-	dripping active
Q	ઉ	evaporator fans on	evaporator fans off	evaporator fan delay in progress
/	0	temperature controlled cycle active	-	- temperature controlled cycle selected  - test to check needle probe is correctly inserted in progress; when time controlled cycle LED is on, test has failed and time controlled cycle is active  - when alarm LED is on, blast chilling/freezing has failed and is active  - when alarm LED flashes, blast chilling/freezing has failed and conservation is active
_ \frac{1}{1}			<ul> <li>setpoint during conservation be- ing set</li> </ul>	
	$\Delta$	alarm active	-	-
°C	∕°F	temperature displayed	-	-
m	in	time displayed	-	residual time maximum duration of temperature controlled blast chilling/freezing displayed
(	time controlled cycle is selected		time controlled cycle active	

### Switching the display back on

Touch a key.

#### 4.3 Unlocking the keypad Touch a key for 1 s: the display will show the label "UnL".

4.4 Activating an operating cycle Check that the keypad is not locked and that defrosting is not active.

1.	aset		Touch the SET key to select a cycle.
	LAB. LED		DESCRIPTION
PoS 🕙		0	time controlled blast chilling and conservation (if E0 = 0 or 1)
	nEG 💮		time controlled blast freezing and conservation (if E0 = 1 or 2)
PoS 🎤		P	temperature controlled blast chilling and conservation (if $E0 = 0$ or 1)
	nEG	P	temperature controlled blast freezing and conservation (if E0 = 1 or 2)
2.	(	<u> </u>	Touch the START/STOP key within 15 s.

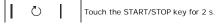
## Activating the last cycle carried out

Check that the keypad is not locked and that defrosting is not active.

1.	I	Ŏ	Touch the SET key.
2.	Ī	()	Touch the START/STOP key again within 15 s.

## Interrupting an operating cycle

Check that the keypad is not locked.



#### 4.7 Setting the cabinet setpoint during conservation Check that the keypad is not locked

1.	≙SET	Touch the SET key.			
2.	₹ FNL- ♦	Touch the UP or DOWN key within 15 s to set the value.			
3.	_ aset	Touch the SET key (or take no action for 15 s).			

The setting is temporary: when a new cycle is activated (and after a power failure), the device will restore the r9/rA values

## Activating manual defrost

Check that the keypad is not locked and that blast chilling/freezing is not active.

△₩ Touch the UP key for 4 s.

#### 4.9 Silencing the buzzer

Touch a key.

#### OPERATING CYCLES 5.1 Initial information

# Cycles managed:

- time controlled blast chilling and conservation
- time controlled blast freezing and conservation
- temperature controlled blast chilling and conservation temperature controlled blast freezing and conservation.

Before each temperature controlled cycle, a test is run to check that the needle probe is cor rectly inserted.

The test consists of two phases: if the first one is completed successfully, the second one is not carried out.

The first phase is completed successfully if [(needle temperature - cabinet temperature) threshold rc] 3 times out of 5, checked every 10 s. The second phase is completed successfully if [(needle temperature - cabinet temperature) > 1  $^{\circ}$ C/ $^{\circ}$ F] 6 times out of 8 (compared to previous ous test), checked every (duration rd/8) s. If the test fails, the corresponding time controlled cycle is activated.

Activating time controlled blast chilling/freezing and conservation

Check that the keypad is not locked and that defrosting is not active.

1.	ود ا	5E⊤	Touch the SET key to select a cycle.
	LAB.	LED	DESCRIPTION
	PoS	0	time controlled blast chilling and conservation (if E0 = 0 or 1)
	nEG	0	time controlled blast freezing and conservation (if E0 = 1 or 2)
2.	FN	c ∨	Touch the DOWN key within 15 s to see the duration of the blast chilling/freezing.
3.	29	∍ET	Touch the SET key.
4.	√ FN		Touch the UP or DOWN key within 15 s to set the value.
5.	aset		Touch the SET key (or take no action for 15 s).
6.	FN	c ∨	Touch the DOWN key within 15 s to see the cabinet setpoint during blast chilling/freezing.
7.	29	∍∈⊤	Touch the SET key.
8.	√ FN		Touch the UP or DOWN key within 15 s to set the value.
9.	1 = 9	<b>5</b> €⊤	Touch the SET key (or take no action for 15 s).
10.	FN	c ∨	Touch the DOWN key within 15 s to see the cabinet setpoint during conservation.
11.	1 25	5ET	Touch the SET key.
12.	√ FN		Touch the UP or DOWN key within 15 s to set the value.
13.	1 25	5ET	Touch the SET key (or take no action for 15 s).
14.		<u> </u>	Touch the START/STOP key within 15 s.
	-		· : when a new cycle is activated (and after a power failure), the de- 7/r8 and r9/rA values.

vice will restore the r1/r2, r7/r8 and r9/rA values

Information about the active male			
Information about the active cycle PHASE DISPLAY			
blast chilling/freezing ac-	residual time blast chilling/freezing cycle		
tive			
end blast chilling/freezing	End (press a key)		
conservation active	cabinet temperature		

#### Viewing other information about the active cycle

Check t	Check that the keypad is not locked.			
1.	FNC		Touch the DOWN key to view the type of active cycle.	
	LAB.	LED	DESCRIPTION	
	PoS	0	time controlled blast chilling and conservation	
	nEG	0	time controlled blast freezing and conservation	
2.	FN	c 🗸	Touch the DOWN key again to view the cabinet temperature.	
3.	25	<b>9</b> ∈⊤	Touch the SET key (or take no action for 15 s) to exit the procedure.	

After a power failure during a cycle, the cycle is automatically reactivated from the phase it was in at the moment the power failed. If power fails during blast chilling/freezing, the count is resumed with a maximum error of 10 min.

## Activating temperature controlled blast chilling/freezing and conservation

Check	that the keypad is no	ot locked and that defrosting is not active.
1.	≙ SET	Touch the SET key to select a cycle.
	LAB. LED	DESCRIPTION
	PoS 🎤	temperature controlled blast chilling and conservation (if E0 = 0 or 1)
	nEG 🔊	temperature controlled blast freezing and conservation (if E0 = 1 or 2)
2.	FNC V	Touch the DOWN key within 15 s to view the product temperature at the end of blast chilling/freezing.
3.	≙SET	Touch the SET key.
4.	₹ FNE ♦	Touch the UP or DOWN key within 15 s to set the value.
5.	aset	Touch the SET key (or take no action for 15 s).
6.	FNC \/	Touch the DOWN key within 15 s to view the maximum duration of blast chilling/freezing.
7.	≙SET	Touch the SET key.
8.	₹ FNE V	Touch the UP or DOWN key within 15 s to set the value.
9.	FNC \/	Touch the DOWN key within 15 s to view the cabinet setpoint during blast chilling/freezing.
10.	aset	Touch the SET key.
11.	₹ FNL V	Touch the UP or DOWN key within 15 s to set the value.
12.	≙SET	Touch the SET key (or take no action for 15 s).
13.	FNC \/	Touch the DOWN key within 15 s to view the cabinet setpoint during conservation.
14.	aset	Touch the SET key.
15.	₹ NE V	Touch the UP or DOWN key within 15 s to set the value.
16.	aset	Touch the SET key (or take no action for 15 s).
17.	U	Touch the START/STOP key within 15 s.
The se	ttings are temporary	when a new cycle is activated (and after a nower failure), the de-

The settings are temporary: when a new cycle is activated (and after a power failure), the device will restore the r3/r4, r5/r6, r7/r8 and r9/rA values.

If the temperature of the needle does not reach the product temperature at the end of blast chilling/freezing within the maximum duration of blast chilling/freezing, the cycle fails and remains active.

ı	Information about	the	active	СУ	cle
ı	DHACE			11	II.

	Information about the active cycle		
	PHASE	INFORMATION DISPLAYED	
	blast chilling/freezing ac-	needle temperature	
	tive		
	end blast chilling/freezing	End (press a key)	
conservation active		cabinet temperature	

## Viewing other information about the active cycle

Check t	hat the	keypad is no	t locked.									
1.	FN	c ∨	Touch the DOWN key to view the remaining time of the maxi mum duration of the blast chilling/freezing cycle (or the elapse time from the end of the maximum duration of the blast chilling/freezing cycle if it has failed).									
2.	FN	c ∨	Touch the DOWN key again to view the type of active cycle.									
	LAB.	LED	DESCRIPTION									
	PoS	A	temperature controlled blast chilling and conservation									

EVCO S.	nEG PINSTRU	ction sheet ver. 2.0   Code 1043802E203   Page 2 of 3   PT 49/20 temperature controlled blast freezing and conservation		13	r5	90	maximum duration temperature	1 600 min		48	i3	15		me for inhibiti	ng reg-	-1 120 min
3.	FNC V	Touch the DOWN key again to see the cabinet temperature.		14	r6	240	controlled blast chilling maximum duration temperature controlled blast freezing	1 600 min		10	:7		ulation with	door open on delay from		-1 = until closed if iO = 0 or 1
4.		Touch the SET key (or take no action for 15 s) to exit the procedure.		15	r7	0.0	cabinet setpoint during blast	-99 99 °C/°F		49 NO.	i7			ut alarm reset		-1 120 min -1 = disabled MIN MAX.
I I I I I I I I I I I I I I I I I I I			16	r8	-40.0	cabinet setpoint during blast freezing	-99 99 °C/°F	×	50	u0			tput configurat	ion	0 = defrosting 1 = evaporator fans	
After a power failure during a cycle, the cycle is automatically reactivated from the phase it was in at the moment the power failed. If power fails during blast chilling/freezing, it is reactivated from the beginning.				17	r9	2.0	cabinet setpoint during conserva- tion after blast chilling	-99 99 °C/°F		_	PAR. Hr0	DEF.	DATA-LOGG unused	ING EVLINK		MIN MAX.
5.4 Activating the last cycle carried out				18	rA	-20.0	cabinet setpoint during conserva- tion after blast freezing	-99 99 °C/°F		-	bLE	1		configuration f	or con-	0 = free 1 = forced for EVconnect or
Check t	nat the keypad is no	t locked and that defrosting is not active.  Touch the START/STOP key for 2 s.	8.2	Seco	nd leve	el parai	meters	1					nectivity			EPoCA 2-99 = EPoCA local network
		Touch the START/STOP key within 60 s: the display will show the		NO.	PAR. CA1		ANALOGUE INPUTS cabinet probe offset	MIN MAX. -25 25 °C/°F		53	rE0	15	data-logger	sampling inter	val	address 0 240 min
2.	U	duration of the time controlled blast chilling/freezing or the product temperature at the end of the temperature controlled blast		2	CA2 P0		needle probe offset type of probe	-25 25 °C/°F 0 = PTC 1 = NTC		$\overline{}$	PAR. LA	DEF.	MODBUS ad			MIN MAX. 1 247
3.	1 a set	chilling/freezing.  Touch the SET key.	Q	4 5	P1 P2	1 0	enable decimal point °C temperature measurement unit	0 = no 1 = yes 0 = °C 1 = °F		53	Lb	2	MODBUS ba	ud rate		0 = 2,400 baud 1 = 4,800 baud
4.	l AM L	Touch the UP or DOWN key within 15 s to set the value.		6 7	P3 P8		enable needle probe display refresh time	0 = no 1 = yes 0 250 s : 10	ld							2 = 9,600 baud 3 = 19,200 baud
5.	SET	Touch the SET key (or take no action for 15 s).		NO. 8	PAR.		REGULATION r7, r8, r9 and rA differential	MIN MAX. 1 15 °C/°F		54	LP	2	MODBUS pa	rity		0 = none 1 = odd 2 = even
6.	<u> </u>	Touch the START/STOP key again within 15 s.		9	r1	90	duration time controlled blast chilling	1 600 min		NO. 55	PAR. E0	DEF. 247	MODBUS quick setting	g of value dur	ing cy-	MIN MAX. 0 = disabled
	ings are temporary restore the r1/r2 ar	when a new cycle is activated (and after a power failure), the de-		10	r2	240	duration time controlled blast freezing	1 600 min					cle activation	n		1 = duration of time con- trolled blast
	Interrupting an op			11	r3	3.0	product temperature at end of temperature controlled blast	-99 99 °C/°F								chilling/freezing or product temperature at
	nat the keypad is no	t locked.		12	r4	-18.0	chilling product temperature at end of	-99 99 °C/°F								end of temperature con- trolled blast
1.	0	Touch the START/STOP key for 2 s.					temperature controlled blast freezing									chilling/freezing 2 = duration of time controlled blast
	ADDITIONAL FUNC Viewing compress	CTIONS or and evaporator fan status		13	r5	90	maximum duration temperature controlled blast chilling									chilling/freezing and/or cabinet setpoint during
	nat the keypad is no	t locked.  Touch the DOWN key once (to view compressor status) or twice		14	r6		maximum duration temperature controlled blast freezing		Id							blast chilling/freezing 3 = duration of time con-
1.	FNC V	(to view evaporator fan status).		15	r7 r8	0.0	cabinet setpoint during blast chilling cabinet setpoint during blast									trolled blast chilling/freezing and
	C-1 compressor			17	r9	2.0	freezing  cabinet setpoint during blast  greezing  cabinet setpoint during conserva-	-99 99 °C/°F								cabinet setpoint during blast chilling/freezing or
		protection in progress	*	18	rA		tion after blast chilling conserva-	-99 99 °C/°F								product temperature at end of temperature con-
	F-1 evaporator			19	rb	1	tion after blast freezing type of cycle enabled	0 = blast chilling and con-								trolled blast chilling/freezing and
	F-O evaporator F-P evaporator	fan delay in progress					7,7,- 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	servation  1 = blast chilling/freezing		F.4	F0		unusad			cabinet setpoint during blast chilling/freezing
2.	≘ SET	Touch the SET key (or take no action for 15 s) to exit the procedure.						and conservation 2 = blast freezing and con-		56 NO.			SECURITY			MIN MAX.
	SETTINGS	configuration parameters		20	rc	5.0	minimum gap to pass first phase	servation 0 99 °C/°F	$\bigcirc$	58	PAS PA1		level 1 passy			-99 999 -99 999
1.		Touch the SET key for 4 s: the display will show the label " <b>PA</b> ".					of needle probe test	0 = disabled first phase ok if [(needle	0	59   ALARI		824	level 2 passi	word		-99 999
2.		Touch the UP or DOWN key to select a parameter.						temperature - cabinet tem- perature) > rc] 3 times out of		MEAN			R	ESET	TO COR	RECT
3.	≙ SET	Touch the SET key.		21	rd	60	duration second phase needle	5, checked every 10 s 1 99 s	Pr1 Pr2	cabin	et prol	oe alarm e alarm	n au	utomatic utomatic	- check	
4.	√ FNL VH	Touch the UP or DOWN key within 15 s to set the value.					probe test	second phase ok if [(needle temperature - cabinet tem-	AL			ature ala		utomatic	- chec	c electrical connection  1 and A2
5.	≘ SET	Touch the SET key (or take no action for 15 s).						perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every	AH	high		rature a	larm au	utomatic utomatic		4 and A5
6.	≙SET	Touch the SET key for 4 s (or take no action for 60 s) to exit the procedure.		NO.	PAR.	DEF.	COMPRESSOR	(rd/8) s	iA			se input	alarm au	utomatic	check iC	and i1
7.2	Setting second lev	el configuration parameters		22	CO	3	compressor-on delay from cycle activation and power-on		10	TECHI	NI CAL	SPECII	FICATIONS			
1.	≙SET	Touch the SET key for 4 s: the display will show the label "PA".		23	C1	5	delay between two compressor switch-ons	0 240 min				rol devi			on contro n electro	iller. nic device.
2.	≙ SET	Touch the SET key.		24 25	C2 C3	3	minimum compressor-off time minimum compressor-on time	0 240 min 0 240 s	Housin Catego		neat ar	nd fire re	esistance:	black, D.	self-exti	nguishing.
3.		Touch the UP or DOWN key within 15 s to set the PAS value (default "-19").  Touch the SET key (or take no action for 15 s): the display will		26	C4	10	compressor-off time in cabinet probe alarm during conservation	0 240 min		33.0	x 59.0		2 15/16 x 1 5			81.5 mm (2 15/16 x 1 5/16 x
4.	A SET	show the label "CA1".		27	C5	10	compressor-on time in cabinet probe alarm during conservation	0 240 min					terminal bloc control device	to be		plug-in screw terminal blocks a panel, snap-in brackets pro-
5.	FNE	Touch the UP or DOWN key to select a parameter.		28	C6	20	after blast chilling compressor-on time in cabinet	0 240 min					led by the cas	vided sing: IP65 (	(front).	
6.	A SET	Touch the SET key.					probe alarm during conservation after blast freezing			crew t	ermina	l blocks	1			Pico-Blade connector.
7.	FNL	Touch the UP or DOWN key within 15 s to set the value.		29	C11	0	needle probe function in event of cabinet probe error	1 = needle probe and cabi-	wires u				I	wires up 12 (on request)		
8.	aset	Touch the SET key for 4 s (or take no action for 60 s) to exit the		NO.	PAR.	DEF.	DEFROST automatic defrost interval	net probe MIN MAX. 0 99 h	power sup		supply: 10 m (32.8 nputs: 10 m (32.8		ft)	analog		s: 10 m (32.8 ft) 10 m (32.8 ft).
7.		procedure.		31	d3		defrost duration	0 = manual only 0 99 min	Operating t		ting temperature: le temperature: ting humidity:		.,	from (	rom 0 to 55 °C (from 32 to 131 °F) rom -25 to 70 °C (from -13 to 158 °F).	
7.3 Restoring factory (default) settings and saving customised settings			32 NO.	_	2	dripping time  ALARMS (active during conserva-	0 15 min MIN MAX.							nidity without condensate from		
N.B check that the factory settings are appropriate; see the section CONFIGURATION PARAMETERS.			33	A1		tion) low temperature alarm threshold		Pollutio		us of t	he contr	rol device:	2.			
¥	PARAMETERS saving customise	ed settings overwrites the factory settings.					(relative to r9 and rA)	r9 - A1 and rA - A1 differential = 2 °C/4 °F	RoHS 2		5/EC		WEEE 2	2012/19/EU		REACH (EC) Regulation no. 1907/2006
1.	≙SET	Touch the SET key for 4 s: the display will show the label "PA".		34 35	A2 A4	1	enable low temperature alarm high temperature alarm thresh-	0 = no 1 = yes 0 99 °C/°F	EMC 20					LVD 2	014/35/	
2.	≙ SET	SET Touch the SET key.					old (relative to r9 and rA)	r9 + A4 and rA + A4 differential = 2 °C/4 °F	230 V	AC (+	10% -	15%), 5 d in EV3	50/60 Hz (±3 N7	I		% -15%), 50/60 Hz (±3 Hz), llated in EV3 N5.
3.		Touch the UP or DOWN key within 15 s to set the value.		36 37	A5 A6	1 15	enable high temperature alarm high/low temperature alarm de-	0 = no 1 = yes 0 240 min		-		or the co stand vo	ontrol device: oltage:	4 KV.		
	VAL. MEANING 149 value for re	storing the factory information (default)		38	A7	15	lay from conservation high/low temperature alarm de-	0 240 min	Over-v Softwa	_	_	ory: structur	re:	III.		
-	161 value for sa	ving customised settings  Touch the SET key (or take no action for 15 s): the display will		39	A8	15	high temperature alarm delay	0 240 min	Analog					needle	e probe).	TC probes (cabinet probe and
4.	≙ SET	show the label "dEf" (for setting the "149" value) or the label "MAP" (for setting the "161" value).		40	A9	15	post-defrosting high temperature alarm delay from door closure	0 240 min if i0 = 0 or 1	PTC pro	obes:	Me		ent field:	from -	-50 to 15	90 Ω @ 25 °C, 77 °F) 0 °C (from -58 to 302 °F)
5.	_ ≙ SET	Touch the SET key.		41	AA	5			NTC pr	obes:	Ту	solution pe of se	nsor:	ß3435		2 @ 25 °C, 77 °F)
6.	₹ FNC \\	Touch the UP or DOWN key within 15 s to set "4".		NO.	PAR.	DEF.	EVAPORATOR FANS (always on during defrosting)	MIN MAX.			Re	asurem solution	ent field:	0.1 °C	C (1 °F).	5 °C (from -40 to 221 °F)
7.	≙ SET	Touch the SET key (or take no action for 15 s): the display will show " " flashing for 4 s, after which the device will exit the	S	42	FO	2	evaporator fan mode during blast chilling/freezing	0 = off 1 = on 2 = on if compressor on	Digital Dry co		:			contact:	contact (	door switch/multi-purpose). 5 VDC, 1.5 mA
8.	Disconnect the dev	nnect the device from the power supply.  Touch the SET key for 2 s before action 6 to exit the procedure		43 F2		1	evaporator fan mode during con- servation						Power supply: Protection:			none.
9. SET louch the SET key for 2's before action 6 to exit the procedure beforehand.			44	Digital outputs:		2 with relay).	with electro-mechanical relay (compressor and auxiliary ay).  SPST, 16 A res. @ 250 VAC									
	CONFIGURATION First level parame			NO. 45	PAR.	DEF.	DIGITAL INPUTS door switch/multi-purpose input	MIN MAX.  O = evaporator fans off	Auxilia	ry rela	y (K2)	:		SPDT,	8 A res.	. @ 250 VAC @ 250 VAC.
	NO.   PAR.   DEF.   REGULATION   MIN MAX.			145			function	1 = compressor + evapora- tor fans off					e 1 or Type	2 ac- C.	l.	
	9 r1 <b>90</b>	9 r1 90 duration time controlled blast 1 600 min chilling						2 = alarm iA 3 = after 10 s evaporator	tions: Displays: Alarm buzzer:							, 3 digit, with function icons.
<u></u>	10 r2 <b>240</b>							fans off 4 = after 10 s compressor +	Commi			rts:				s slave port for EVconnect app, e monitoring system or for
*	11 r3 <b>3.0</b>	product temperature at end of eps-99 99 °C/°F temperature controlled blast		46	i1	0	activation door switch/multi-	evaporator fans off  0 = with contact closed						BMS.		, morntoring system or for
	12 r4 <b>-18.0</b>	chilling product temperature at end of -99 99 °C/°F			10	20	purpose input	1 = with contact open 2 = disabled								
		temperature controlled blast	1	47	i2	30	door open alarm delay	-1 120 min	1							
		freezing						-1 = disabled if i0 = 0 or 1								

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