EV3802

## **Basic controllers for blast chillers**





Recommended configuration parameters for first-time use:

PAR.	DEF.	PARAMETER	MIN MAX.
P0	1	type of probe	0 = PTC $1 = NTC$
P2	0	temperature measurement unit	0 = °C 1 = °F
u0	1	auxiliary output configuration	0 = defrosting
			1 = evaporator fans

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

4. Disconnect the device from the mains.

Make the electrical connection as shown in the section ELECTRICAL CONNECTION 5. without powering up the device.

For the connection in an RS-485 network connect the interface  ${\sf EVIF22TSX}$ EVIF23TSX, 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 EVIE25TBX: see the relevant instruction sheets. If EVIE22TSX or EVIE23TSX

used, set parameter bLE to 0.

Power up the device again. 7.

		t the				12				
	3.	I ≙SET I		Touch the SET key (or take no action for 15 s).	15.	1		¢	Touch the UP or DOWN key within 15 s to set the value.	
	The set will res	tting is temporar tore the r9/rA va	y: wh lues.	en a new cycle is activated (and after a power failure), the device	16.		<b>≙</b> SET		Touch the SET key (or take no action for 15 s).	
_	<b>4.8</b> Check t	Activating mai	nual o	lefrost locked and that blast chilling/freezing is not active	17.				Touch the START/STOP key within 15 s.	
A-	1.	八帝		Touch the UP key for 4 s.	vice w	ill n	estore the r	8/r4, r	S/r6, r7/r8 and r9/rA values.	
N,	<b>4.9</b> Touch a	Silencing the b a key.	ouzze	r	If the chilling mains	ten g/fr act	nperature of eezing withi tive.	the n	needle does not reach the product temperature at the end of blast maximum duration of blast chilling/freezing, the cycle fails and re-	
or he	5 5.1	OPERATING C	CLES tion		Inform	atio	on about the	active		
ce is	Cycles -	managed: time controlled	olast o	chilling and conservation	blast tive	ch	illing/freezin	g ac-	needle temperature	
	-	time controlled	olast f	freezing and conservation	end b	las	t chilling/fre	ezing	End (press a key)	
	-	temperature cor	ntrolle	d blast chilling and conservation	conse	conservation active			cabinet temperature	
	- Before	each temperature cor each temperatur	re cor	a blast freezing and conservation. htrolled cycle, a test is run to check that the needle probe is cor	Viewin	Viewing other information about the active cycle				
	The tes	it consists of two	phas	es: if the first one is completed successfully, the second one is no	Check	tha	at the keypa	l is no	t locked.	
	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						1. <b>FNC</b>		Touch the DOWN key to view the remaining time of the maxi- mum duration of the blast chilling/freezing cycle (or the elapsed time from the end of the maximum duration of the blast chilling/freezing cycle if it has failed).	
	ous tes	t), checked ever	- cab y (dur	ration rd/8) s.	2.				Touch the DOWN key again to view the type of active cycle.	
	If the te	est fails, the corr	espor	nding time controlled cycle is activated.		L	AB. LED		DESCRIPTION	
	<b>5.2</b> Check t	Activating time that the keypad i	e con s not	trolled blast chilling/freezing and conservation locked and that defrosting is not active.		P	pos 🥕		temperature controlled blast chilling and conservation	

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	nEG	12	temperature controlled blast freezing and conservation
3.	FNC	$\sim$	Touch the DOWN key again to see the cabinet temperature.
4.	<b> </b> ==	GET	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, it is reactivated from the beginning.

54	Activating the	last	cycle carried out
Check t	hat the keypad	is no	t locked and that defrosting is not active.
1.	Ŭ		Touch the START/STOP key for 2 s.
2.	Ŭ		Touch the START/STOP key within 60 s: the display will show the duration of the time controlled blast chilling/freezing or the prod- uct temperature at the end of the temperature controlled blast chilling/freezing.
3.	≅set		Touch the SET key.
4.		۴	Touch the UP or DOWN key within 15 s to set the value.
5.	≙ SET		Touch the SET key (or take no action for 15 s).
6.	Ŭ		Touch the START/STOP key again within 15 s.
The cot			when a new cycle is activated (and after a new or failure), the de

The settings are temporary: when a new cycle is activated (and after a power failure), the device will restore the r1/r2 and r3/r4 values.

### 5.5 Interrupting an operating cycle

5.5	Interi	upting an of				
Check t	that the	keypad is no	ot locked.			
1.		Ö	Touch the START/STOP key for 2 s.			
6	ADDIT	IONAL FUN	CTIONS			
6.1	Viewir	ng compress	or and evaporator fan status			
Check t	that the	keypad is no	t locked.			
1.	FN	c∨	Touch the DOWN key once (to view compressor status) or twice (to view evaporator fan status).			
	LAB.	MEANING F	OR COMPRESSOR			
	C-1	compresso	ron			
	C-0	compresso	r off			
	C-P	compresso	r protection in progress			
	LAB.	MEANING F	OR EVAPORATOR FANS (if u0 = 1)			
	F-1	evaporator	fans on			
	F-0	evaporator	fans off			
	F-P	evaporator	fan delay in progress			

	F-P	evaporator	fan delay in progress
2.	I ≞∈	iet	Touch the SET key (or take no action for 15 s) to exit the procedure.

# 7 SETTINGS7.1 Setting first level configuration parameters

1.	à set	Touch the SET key for 4 s: the display will show the label " <b>PA</b> ".
2.		Touch the UP or DOWN key to select a parameter.
3.	<b>≙</b> SET	Touch the SET key.
4.		Touch the UP or DOWN key within 15 s to set the value.
5.	a set	Touch the SET key (or take no action for 15 s).
6.	<b>≙</b> SET	Touch the SET key for 4 s (or take no action for 60 s) to exit the procedure.

# 7.2 Setting second level configuration parameters

1.	≙ SET	Touch the SET key for 4 s: the display will show the label $``{\bf PA}''.$
2.	I ≙SET	Touch the SET key.
3.		Touch the UP or DOWN key within 15 s to set the PAS value (default "-19").
4.	I ≙SET I	Touch the SET key (or take no action for 15 s): the display will show the label "CA1".
5.		Touch the UP or DOWN key to select a parameter.
6.	I ≅SET	Touch the SET key.
7.		Touch the UP or DOWN key within 15 s to set the value.
8.	≙set	Touch the SET key (or take no action for 15 s).
9.	I ≙SET I	Touch the SET key for 4 s (or take no action for 60 s) to exit the procedure.
7.3	Restoring factory	(default) settings and saving customised settings

o <sub>o</sub>	N.B. - check that the factor PARAMETERS. - saving customise	actory settings are appropriate; see the section CONFIGURATION ed settings overwrites the factory settings.
1.	<b>≙</b> SET	Touch the SET key for 4 s: the display will show the label "PA".
2.	<b>≙</b> set	Touch the SET key.
3.		Touch the UP or DOWN key within 15 s to set the value.

	13	I FD	90	maximum duration temperature	1 600 min
		1		controlled blast chilling	
	14	r6	240	maximum duration temperature	1 600 min
				controlled blast freezing	
	15	r7	0.0	cabinet setnoint during blast	-99 99 °C/°F
	15		0.0	chilling	55 55 6, 1
	16	-0	40.0	cohing	00 00 %C/%E
	10	10	-40.0	freezing	-99 99 °C/°F
	17		2.0		00 00 00 00 00
	11/	19	2.0	cabinet setpoint during conserva-	-99 99 °C/°F
				tion after blast chilling	
	18	rA	-20.0	cabinet setpoint during conserva-	-99 99 °C/°F
	l	i i		tion after blast freezing	
8.2	Seco	nd leve	el parar	neters	
	NO.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.
	1	CA1	0.0	cabinet probe offset	-25 25 °C/°F
	2	CA2	0.0	needle probe offset	-25 25 °C/°F
$\mathbf{O}$	3	P0	1	type of probe	0 = PTC $1 = NTC$
	4	P1	1	enable decimal point °C	0 = no 1 = yes
	5	P2	0	temperature measurement unit	0 = °C 1 = °F
	6	P3	1	enable needle probe	0 = no $1 = yes$
	7	P8	5	display refresh time	0 250 s : 10
-	NO.	PAR.	DEF.	REGULATION	MIN MAX.
	8	r0	2.0	r7, r8, r9 and rA differential	1 15 °C/°E
	0	r1	90	duration time controlled blast	1 600 min
	<sup>'</sup>	1 11	30	chilling	1 000 mm
	10	r2	240	duration time controlled blact	1 600 min
	10	12	240	freezing	1 600 mm
				ineezing	00 00 00 00
	11	r3	3.0	product temperature at end of	-33 33 °C/°F
				controlled blast	
		<u> </u>		critiling	00 00 00 00
	12	r4	-18.0	product temperature at end of	-99 99 °C/°F
		1		temperature controlled blast	
	<u> </u>		-	rreezing	
	13	r5	90	maximum duration temperature	1 600 min
				controlled blast chilling	<u> </u>
	14	r6	240	maximum duration temperature	1 600 min
	<u> </u>			controlled blast freezing	
	15	r7	0.0	cabinet setpoint during blast	-99 99 °C/°F
		<u> </u>		chilling	
	16	r8	-40.0	cabinet setpoint during blast	-99 99 °C/°F
				rreezing	
	11/	r9	2.0	cabinet setpoint during conserva-	-99 99 °C/°F
	10		20.0		00 00 00 00 00
	18	I FA	-20.0	cabinet setpoint during conserva-	-99 99 °C/°F
	10				0 black shilling and son
	19	rb	1	type of cycle enabled	0 = blast chilling and con-
		1			servation
		1			1 = blast chilling/freezing
		1			and conservation
		1			2 = blast freezing and con-
					servation
	20	rc	5.0	minimum gap to pass first phase	0 99 °C/°F
		1		of needle probe test	0 = disabled
		1			first phase ok if [(needle
		1			temperature - cabinet tem-
					perature) > rc] 3 times out of
		l			E shashad susan 10 s
					5, checked every 10 s
	21	rd	60	duration second phase needle	1 99 s
	21	rd	60	duration second phase needle probe test	1 99 s second phase ok if [(needle
	21	rd	60	duration second phase needle probe test	1 99 s second phase ok if [(needle temperature - cabinet tem-
	21	rd	60	duration second phase needle probe test	1 99 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times
	21	rd	60	duration second phase needle probe test	199 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ-
	21	rd	60	duration second phase needle probe test	<ol> <li>checked every 10 s</li> <li>99 s</li> <li>second phase ok if [(needle temperature - cabinet tem- perature) &gt; 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every</li> </ol>
	21	rd	60	duration second phase needle probe test	5, checked every 10 s 1 99 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s
	21 NO.	rd PAR.	60 DEF.	duration second phase needle probe test	S, checked every 10 s 1 99 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX.
	21 NO. 22	rd PAR. C0	60 DEF. 3	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle	5, checked every 10 s 1 99 s second phase ok if [(needle temperature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min
	21 NO. 22	rd PAR. C0	60 DEF. 3	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on	S, checked every 10 s 1 99 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min
	21 NO. 22 23	rd PAR. C0 C1	60 DEF. 3 5	duration second phase needle probe test  COMPRESSOR  compressor-on delay from cycle activation and power-on delay between two compressor	S, checked every 10 s 1 99 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min
	21 NO. 22 23	rd PAR. C0 C1	60 DEF. 3 5	duration second phase needle probe test  COMPRESSOR  compressor-on delay from cycle activation and power-on delay between two compressor switch-ons	S, checked every 10 s 1 99 s second phase ok if [(needle temperature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min
	21 NO. 22 23 24	rd PAR. C0 C1 C2	60 DEF. 3 5 3	duration second phase needle probe test  COMPRESSOR  Compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time	3. Checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min         0 240 min
	21 NO. 22 23 24 25	rd PAR. C0 C1 C2 C2 C3	60 DEF. 3 5 3 0	duration second phase needle probe test  COMPRESSOR  compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time	S, checked every 10 s 1 99 s second phase ok if [(needle temperature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min 0 240 s
	21 NO. 22 23 24 25 26	rd PAR. C0 C1 C2 C3 C4	60 DEF. 3 5 3 0 10	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-off time in cabinet	3, checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         with a second se
	21 NO. 22 23 24 25 26	rd PAR. C0 C1 C2 C3 C4	60 DEF. 3 5 3 0 10	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-off time in cabinet probe alarm during conservation	S, checked every 10 s 1 99 s second phase ok if [(needle temperature) - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min 0 240 s 0 240 min
	21 NO. 22 23 24 25 26 27	rd PAR. C0 C1 C2 C3 C4 C5	60 DEF. 3 5 3 0 10	duration second phase needle probe test	S, checked every 10 s 1 99 s second phase ok if [(needle temperature) - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min
	21 NO. 22 23 24 25 26 27	rd PAR. C0 C1 C2 C3 C4 C5	60 DEF. 3 5 3 0 10	duration second phase needle probe test	S, checked every 10 s 1 99 s second phase ok if [(needle temperature) - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min
	21 NO. 22 23 24 25 26 27	rd PAR. C0 C1 C2 C3 C4 C5	60 DEF. 3 5 5 3 0 10 10	duration second phase needle probe test COMPRESSOR Compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor delay between two compressor-on minimum compressor-on time minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling	S, checked every 10 s 1 99 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min
	21 NO. 22 23 24 25 26 27 27 28	rd PAR. C0 C1 C2 C3 C4 C5 C5	60 DEF. 3 5 5 10 10 20	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor- delay between two compressor- minimum compressor-on time minimum compressor-on time minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet	S, checked every 10 s 1 99 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min
	21 NO. 22 23 24 25 26 27 27 28	rd PAR. C0 C1 C2 C3 C4 C5 C6	60 DEF. 3 5 3 0 10 10 20	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-off time minimum compressor-on time minimum compressor-on time probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation	S, checked every 10 s 1 99 s second phase ok if [(needle temperature - cabinet tem- perature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min
	21 NO. 22 23 24 25 26 27 28	rd PAR. C0 C1 C2 C3 C4 C5 C6	60 DEF. 3 5 3 0 10 10 20	duration second phase needle probe test	3. checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min
	21 NO. 22 23 24 25 26 27 28 28	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11	60 DEF. 3 5 3 0 10 10 20 0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling needle probe function in event of	3. checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min
	21 NO. 22 23 24 25 26 27 28 28 29	rd PAR. C0 C1 C2 C3 C4 C5 C6 C6 C11	60 DEF. 3 5 3 0 10 10 20 0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-off time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling needle probe function in event of cabinet probe error	3. checked every 10 s         1 99 s         second phase ok if [(needle temperature) - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min
	21 NO. 22 23 24 25 26 27 28 29	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11	60 DEF. 3 5 3 0 10 10 20 0	duration second phase needle probe test COMPRESSOR Compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor- delay between two compressor- delay between two compressor- delay between two compressor- delay between two compressor- on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error	3. criecked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min         1 240 min         1 240 min         1 240 min
	21 NO. 22 23 24 25 26 27 28 29 NO.	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11 PAR.	60 DEF. 3 5 5 10 10 20 0 DEF.	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor switch-ons minimum compressor-off time minimum compressor-on fime minimum compressor-on time minimum compressor-on time probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST	3. checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min
	21 NO. 22 23 24 25 26 27 27 28 29 NO. 30	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11 C11 PAR. d0	60 DEF. 3 5 3 0 10 10 20 0 DEF. 8	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on fime minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval	3. checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min
	21 NO. 22 23 24 25 26 27 28 29 NO. 30	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11 PAR. d0	60 DEF. 3 5 3 0 10 10 20 0 DEF. 8	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval	3. checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min         0 99 h         0 = needle probe         1 = needle probe and cabinet probe         MIN MAX.         0 99 h         0 = manual only
•••	21 NO. 22 23 24 25 26 27 28 29 29 NO. 30 31	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11 PAR. d0 d3	60 DEF. 3 5 3 0 10 10 10 20 0 DEF. 8 30	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-off time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast friezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval	3. checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min         0 99 h         0 = manual only         0 99 min
	21 NO. 22 23 24 25 26 27 27 28 29 NO. 30 31 32	rd           PAR.           C0           C1           C2           C3           C4           C5           C6           C11           PAR.           d0           d3           d7	60 DEF. 3 5 3 0 10 10 10 20 0 DEF. 8 30 2	duration second phase needle probe test  COMPRESSOR  compressor-on delay from cycle activation and power-on delay between two compressor witch-ons minimum compressor-off time minimum compressor-on time compressor-off time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error  DEFROST automatic defrost interval defrost duration dripping time	<ul> <li>S, checked every 10 s</li> <li>1 99 s</li> <li>second phase ok if [(needle temperature) &gt; 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s</li> <li>MIN MAX.</li> <li>0 240 min</li> <li>1 15 min</li> </ul>
	21 NO. 22 23 24 25 26 27 27 28 29 29 30 30 31 32 NO.	rd         PAR.         C0         C1         C2         C3         C4         C5         C6         C11         PAR.         d0         d3         d7         PAR.	60 DEF. 3 5 3 0 10 10 10 20 0 DEF. 8 30 2 DEF.	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor delay between two compressor- minimum compressor-on time minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva-	<ul> <li>S, Checked every 10 s</li> <li>1 99 s</li> <li>second phase ok if [(needle temperature) &gt; 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s</li> <li>MIN MAX.</li> <li>0 240 min</li> <li>0 25 min</li> <li>0 15 min</li> <li>MIN MAX.</li> </ul>
	21 NO. 22 23 24 25 26 27 27 28 29 29 29 NO. 30 31 32 NO.	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11 C11 PAR. d0 d3 d7 PAR.	60 DEF. 3 5 3 0 10 10 10 20 0 DEF. 8 30 2 DEF.	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor delay between two compressor- minimum compressor-onf time minimum compressor-on time compressor-on fime in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion)	S, checked every 10 s         1 99 s         second phase ok if [(needle temperature - cabinet temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min         0 10 min         0 10 min         MIN MAX.         0 99 h         0 15 min         MIN MAX.
	21 NO. 22 23 24 25 26 27 28 29 29 30 30 31 32 NO. 33	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11 C5 C6 C11 PAR. d0 d3 d7 PAR.	60 DEF. 3 5 3 0 10 10 10 20 0 DEF. 8 30 2 DEF. 10.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time minimum compressor-on time minimum compressor-on time probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold	3. checked every 10 s         1 99 s         second phase ok if [(needle         temperature - cabinet temperature) > 1 °C/°F] 6 times         out of 8 (compared to previous test), checked every         (rd/8) s         MIN MAX.         0 240 min         0 99 h         0 = needle probe         1 = needle probe and cabinet probe         MIN MAX.         0 99 min         0 99 min         0 99 °C/°F
	21 NO. 22 23 24 25 26 27 28 29 29 NO. 30 30 31 32 NO. 33	rd           PAR.           C0           C1           C2           C3           C4           C5           C6           C11           PAR.           d0           d3           d7           PAR.           A1	60 DEF. 3 5 3 0 10 10 10 20 20 0 DEF. 8 30 2 DEF. 10.0	duration second phase needle probe test         COMPRESSOR         compressor-on delay from cycle activation and power-on         delay between two compressor switch-ons         minimum compressor-off time in cabinet probe alarm during conservation         compressor-on time in cabinet probe alarm during conservation after blast chilling         compressor-on time in cabinet probe alarm during conservation after blast freezing         needle probe function in event of cabinet probe error         DEFROST         automatic defrost interval         defrost duration         dripping time         ALARMS (active during conservation tion)         low temperature alarm threshold (relative to r9 and rA)	<ul> <li>S, checked every 10 s</li> <li>1 99 s</li> <li>second phase ok if [(needle temperature - cabinet temperature) &gt; 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s</li> <li>MIN MAX.</li> <li>0 240 min</li> <li>0 15 min</li> <li>MIN MAX.</li> <li>0 99 °C/°F</li> <li>r9 - A1 and rA - A1</li> </ul>
	21 NO. 22 23 24 25 26 27 28 29 29 30 30 31 32 NO. 33	rd         PAR.         C0         C1         C2         C3         C4         C5         C6         C11         PAR.         d0         d3         d7         PAR.         A1	60 DEF. 3 5 3 0 10 10 10 20 20 0 DEF. 8 30 2 DEF. 10.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-off time in cabinet probe alarm during conservation after blast during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold (relative to r9 and rA)	<ul> <li>3. checked every 10 s</li> <li>1 99 s</li> <li>second phase ok if [(needle temperature) &gt; 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s</li> <li>MIN MAX.</li> <li>0 240 min</li> <li>0 99 h</li> <li>0 = manual only</li> <li>0 99 °C/°F</li> <li>rg - A1 and rA - A1</li> <li>differential = 2 °C/4 °F</li> </ul>
	21 NO. 22 23 24 25 26 27 27 28 29 29 30 30 31 32 NO. 33 33 33	rd         PAR.         C0         C1         C2         C3         C4         C5         C6         C11         PAR.         d0         d3         d7         PAR.         A1         A2	60 DEF. 3 5 3 0 10 10 10 20 0 DEF. 8 30 2 DEF. 10.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-off time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold (relative to r9 and rA) enable low temperature alarm	3. checked every 10 s         1 99 s         second phase ok if [(needle temperature) > 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s         MIN MAX.         0 240 min         0 99 h         0 = needle probe         11 = needle probe and cabinate probe         MIN MAX.         0 99 min         0 15 min         MIN MAX.         0 99 °C/°F         r9 - A1 and rA - A1         differential = 2 °C/4 °F         0 = no       1 = yes
	21 NO. 22 23 24 25 26 27 27 28 27 28 29 29 30 30 31 32 NO. 33 33 33	rd         PAR.         C0         C1         C2         C3         C4         C5         C6         C11         PAR.         d0         d3         d7         PAR.         A1         A2         A4	60 DEF. 3 5 3 0 10 10 10 20 0 DEF. 8 30 2 DEF. 10.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor delay between two compressor- minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold (relative to r9 and rA)	<ul> <li>S, checked every 10 s</li> <li>1 99 s</li> <li>second phase ok if [(needle temperature) &gt; 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s</li> <li>MIN MAX.</li> <li>O 240 min</li> <li>O 240 m</li></ul>
	21 NO. 22 23 24 25 26 27 28 29 29 29 30 30 31 32 30 31 32 33 33 33	rd         PAR.         C0         C1         C2         C3         C4         C5         C6         C11         PAR.         d0         d3         d7         PAR.         A1         A2         A4	60 DEF. 3 5 3 0 10 10 20 0 DEF. 8 30 2 DEF. 10.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-on fime in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold (relative to r9 and rA)	<ul> <li>S, checked every 10 S</li> <li>1 99 s</li> <li>second phase ok if [(needle temperature) &gt; 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s</li> <li>MIN MAX.</li> <li>O 240 min</li> <li>O 99 h</li> <li>O = manual only</li> <li>O 99 min</li> <li>O 199 °C/°F</li> <li>r9 - A1 and rA - A1</li> <li>differential = 2 °C/4 °F</li> <li>O = no 1 = yes</li> <li>O 99 °C/°F</li> <li>r9 + A4 and rA + A4</li> </ul>
	21 NO. 22 23 24 25 26 27 28 29 29 29 30 30 31 32 NO. 33 33 33 34 35	rd PAR. C0 C1 C2 C3 C4 C5 C6 C11 PAR. d0 d3 d7 PAR. d0 d3 d7 PAR.	60 DEF. 3 5 3 0 10 10 20 0 DEF. 8 30 2 DEF. 8 30 2 DEF. 10.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-on fime in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold (relative to r9 and rA) enable low temperature alarm	5, checked every 10 s 1 99 s second phase ok if [(needle temperature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 90 min 0 99 h 0 = manual only 0 99 min 0 99 min 0 99 min 0 99 °C/°F r9 - A1 and rA - A1 differential = 2 °C/4 °F 0 = n0 1 = yes 0 99 °C/°F r9 + A4 and rA + A4 differential = 2 °C/4 °F
	21 NO. 22 23 24 25 26 27 28 29 29 29 30 30 30 31 32 NO. 33 33 33 34 35 36	rd         PAR.         C0         C1         C2         C3         C4         C5         C6         C11         PAR.         d0         d3         d7         PAR.         A1         A2         A4         A5	60 DEF. 3 5 3 0 10 10 10 20 20 20 0 EF. 8 30 2 DEF. 10.0 110.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor witch-ons minimum compressor-off time minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold (relative to r9 and rA) enable low temperature alarm	S, checked every 10 s 1 99 s second phase ok if [(needle temperature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 99 h 0 = needle probe and cabi- net probe MIN MAX. 0 99 h 0 = manual only 0 99 min 0 15 min MIN MAX. 0 99 °C/°F r9 - A1 and rA - A1 differential = 2 °C/4 °F 0 = no 1 = yes 0 99 °C/°F r9 + A4 and rA + A4 differential = 2 °C/4 °F
	21 NO. 22 23 24 25 26 27 28 29 29 29 29 31 32 30 31 32 NO. 33 33 33 33 33 34 35	rd         PAR.         C0         C1         C2         C3         C4         C5         C6         C11         PAR.         d0         d3         d7         PAR.         A1         A2         A4         A5         A6	60 DEF. 3 5 3 0 10 10 10 20 20 20 0 0 DEF. 8 30 2 DEF. 10.0 11 10.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-on time compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold (relative to r9 and rA) enable low temperature alarm high temperature alarm	<ul> <li>3. checked every 10 s</li> <li>1 99 s</li> <li>second phase ok if [(needle temperature) &gt; 1 °C/°F] 6 times out of 8 (compared to previous test), checked every (rd/8) s</li> <li>MIN MAX.</li> <li>0 240 min</li> <li>0 241 min</li> <li>0 90 n</li> <li>0 15 min</li> <li>MIN MAX.</li> <li>0 99 °C/°F</li> <li>r9 - A1 and rA - A1</li> <li>differential = 2 °C/4 °F</li> <li>0 = no 1 = yes</li> <li>0 99 °C/°F</li> <li>r9 + A4 and rA + A4</li> <li>differential = 2 °C/4 °F</li> <li>0 = no 1 = yes</li> <li>0 240 min</li> </ul>
	21 NO. 22 23 24 25 26 27 28 29 29 29 30 30 31 32 NO. 33 31 32 33 33 34 35 37	rd         PAR.         C0         C1         C2         C3         C4         C5         C6         C11         PAR.         d0         d3         d7         PAR.         A1         A2         A4         A5         A6	60 DEF. 3 5 3 0 10 10 10 20 20 0 DEF. 8 30 2 DEF. 10.0 11 10.0	duration second phase needle probe test COMPRESSOR compressor-on delay from cycle activation and power-on delay between two compressor switch-ons minimum compressor-off time minimum compressor-off time minimum compressor-on time compressor-off time in cabinet probe alarm during conservation after blast chilling compressor-on time in cabinet probe alarm during conservation after blast freezing needle probe function in event of cabinet probe error DEFROST automatic defrost interval defrost duration dripping time ALARMS (active during conserva- tion) low temperature alarm threshold (relative to r9 and rA) enable low temperature alarm high temperature alarm high temperature alarm high/low temperature alarm high/low temperature alarm high/low temperature alarm	S, checked every 10 S 1 99 s second phase ok if [(needle temperature) > 1 °C/°F] 6 times out of 8 (compared to previ- ous test), checked every (rd/8) s MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 99 h 0 = manual only 0 99 min 0 15 min MIN MAX. 0 99 °C/°F 79 - A1 and rA - A1 differential = 2 °C/4 °F 0 = no 1 = yes 0 240 min

			15	maxi ulatio	mum tim on with de	ne for oor op	inhibiti ben	ng reg-	-1 120 min -1 = until closed if i0 = 0 or 1
	49	i7	0	comp purp	oressor-o ose input	n dela alarn	ay fron n reset	n multi-	-1 120 min -1 = disabled
×	NO. 50	PAR. u0	DEF.	DIGI auxili	TAL OUTE	PUTS ut cor	nfigurat	tion	MIN MAX. 0 = defrosting
	N.	PAR.	DEF.	DATA	-LOGGIN	NG EV	LINK		1 = evaporator fans MIN MAX.
50	51 52	Hr0 bLE	- 1	unus seria necti	ed I port co vity	nfigur	ation f	or con-	- 0 = free 1 = forced for EVconnect or EPoCA 2-99 = EPoCA local network
	53	rE0	15	data-	logger sa	amplir	ng inter	rval	address 0 240 min
	NO. 52	PAR.	DEF.	MOD	BUS BUS addr	ress			MIN MAX.
ld	53	Lb	2	MOD	BUS bau	d rate			0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud
	54	LP	2	MOD	BUS parit	ty			3 = 19,200 baud 0 = none 1 = odd
	NO. 55	PAR. E0	DEF. 247	MOD quick cle a	BUS setting ctivation	of va	lue du	ring cy-	Z = even MIN MAX. 0 = disabled 1 = duration of time con-
Id									<ul> <li>chilling/freezing or product temperature all end of temperature controlled blast chilling/freezing</li> <li>2 = duration of time controlled blast chilling/freezing and/or cabinet setpoint during blast chilling/freezing and</li> <li>3 = duration of time controlled blast chilling/freezing and controlled blast chilling/freezing and cabinet setpoint during blast chilling/fre</li></ul>
	56	E9	-	unus	ed				cabinet setpoint during blast chilling/freezing
<b>~</b>	NO.	PAR.	DEF.	SECU	JRITY word				MIN MAX.
$\bigcirc$	58	PA1	426	level	1 passwo	ord			-99 999
0		MS	024	lievei	2 003300	oru			· · · · · · · · · · · · · · · · · · ·
9		MS						70.000	25.07
CODE Pr1	MEA cabi	NING net pro	be alarn	n	aut	SET omati	с	- check	RECT < P0
Pr2	need	ile prot	be alarm	I	aut	omati	с	<ul> <li>chec</li> <li>chec</li> </ul>	k integrity of the probe k electrical connection
AL	low	temper	ature al	arm	aut	omati	c	check A	1 and A2
id	door	open a	alarm		aut	omati	c	check i	) and i1
iA	mult	i-purpo	ose inpu	t alarn	n aut	omati	с	check i	) and i1
10	TECH	NICAL	SPECI	FICAT	IONS				
Purpos	e of t	he cont	trol devi	ce: device	<u>.</u>		functi built-i	on contro	oller.
Housin	ig:						black,	self-ext	inguishing.
Measu	reme	nts:	numen	esistai	ice.				
75.0 x 2 5/16	33.0						D.		
Mount Degree	ing m	x 59.0 vith fixe ethods rotectio	0 mm (2 ed screw for the o on provid	2 15/1 termi contro ded by	6 x 1 5/ nal block I device: the casir	'16 x :s ng:	D. 75.0 : 3 3/10 to be vided IP65 0	x 33.0 x 6 in) with fitted to (front).	81.5 mm (2 15/16 x 1 5/16 » n plug-in screw terminal blocks a panel, snap-in brackets pro-
Degree Conne	ing m of pr ction	x 59.0 vith fixe ethods rotectio methoo	0 mm (2 ed screw for the o on provic d:	2 15/1 termi contro ded by	6 x 1 5/ nal block I device: the casin	/16 x .s ng:	D. 75.0 : 3 3/10 to be vided IP65 (	x 33.0 x 6 in) with fitted to (front).	81.5 mm (2 15/16 x 1 5/16 x n plug-in screw terminal blocks a panel, snap-in brackets pro
Mount Degree Conne fixed s wires u Maxim	ing m e of pr ction crew up to	x 59.( iith fixe ethods rotectio methoo termina 2.5 mm ermitte	o mm (2 ed screw for the o on provid 1: al blocks n <sup>2</sup> d length	2 15/1 termi contro ded by for 1 1 1 1 1 1	6 x 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup>	116 x s ng: crew t wires (on ro cable	D. 75.0 : 3 3/1 to be vided IP65 ( termina up equest es:	x 33.0 x 6 in) with fitted to (front). al blocks b to )	81.5 mm (2 15/16 x 1 5/16 x n plug-in screw terminal blocks a panel, snap-in brackets pro
Mount Degree Conner fixed s wires u Maxim power digital	ing m of protection crew up to um pro suppl input	x 59.0 vith fixe ethods rotection methoo termina 2.5 mm ermitte y: 10 m s: 10 m	o mm (2 d screw for the o n provic 1: al blocks n <sup>2</sup> d length n (32.8 f n (32.8 f	2 15/1 termi contro ded by for t ft t	6 x 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> pnnection	/16 x .s ng: crew t wires (on ro cable	D. 75.0 : 3 3/1 to be vided IP65 ( IP65 ( termina equest es: analo digita	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue input l outputs	81.5 mm (2 15/16 x 1 5/16 x n plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. ts: 10 m (32.8 ft) : 10 m (32.8 ft).
Mount Degree Conner fixed s wires t Maxim power digital Operat Storag	ing m ing m e of pr ction crew um pr suppl input ing te e term	x 59.0 vith fixe ethods rotection methods termina 2.5 mm ermitte y: 10 m s: 10 m emperatu	o mm (2 d screw for the o on provic d: al blocks n <sup>2</sup> d length n (32.8 f (32.8 f ture: re:	2 15/1 termi contro ded by s for 1 1 1 5 1 for co ft) T	6 x 1 5/ nal block I device: the casin plug-in so for v 2.5 mm <sup>2</sup> nnnection	(16 x is ng: crew t wires (on re cable	D. 75.0 : 3 3/10 to be vided IP65 ( IP65 ( equest es: analo digita from	x 33.0 x 5 in) with fitted to (front). al blocks b to ) gue input l outputs 0 to 55 ° -25 to 70	81.5 mm (2 15/16 x 1 5/16 : n plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. ts: 10 m (32.8 ft) : 10 m (32.8 ft). C (from 32 to 131 °F) o °C (from -13 to 158 °F).
Mount Degree Conne fixed s wires u Maxim power digital Operat Storag Operat	e of pr ction crew um pr suppl input ting te e terr ing h	x 59.0 rotection methods cermitte y: 10 m ermitte y: 10 m emperatu umidity	o mm (2 d screw for the e on provid 1: al blocks 1 <sup>2</sup> d length n (32.8 f (32.8 f ture: re: r: ture:	2 15/1 termi contro ded by s for   1 1 2 1 for cc ft) ft) ft)	6 x 1 5/ nal block. I device: the casin plug-in sc for v 2.5 mm <sup>2</sup> pnnection	rife x s crew t wires (on ro cable	D. 75.0: 3 3/1 to be vided IP65 ( IP65 ( up equest equest es: analoo digita from from relativ 10 to 2.	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue input l outputs 0 to 55 ° -25 to 70 //e humio 90%.	81.5 mm (2 15/16 x 1 5/16 s n plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. ts: 10 m (32.8 ft) : 10 m (32.8 ft). C (from 32 to 131 °F) 0 °C (from -13 to 158 °F). dity without condensate from
Mount Degree Conne fixed s wires u Maxim power digital Operat Storag Operat Pollutio Compli	e of pr ction crew um pr suppl input input input input input input input input input	x 59.0 vith fixe ethods rotectic methocs termina 2.5 mm ermitte y: 10 n ermitte y: 10 n empera upperatu uumidity tus of fi	0 mm (2 d screw for the o m provid 1: al blocks 1 <sup>2</sup> d length n (32.8 f ture: re: re: r: the cont	2 15/1 termi contro ded by s for 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 x 1 5/ nal block. I device: the casin plug-in sc for v 2.5 mm <sup>2</sup> vice: vice:	/16 x s ng: crew t wires (on r cable	D. 75.0 : 3 3/1/ to be vided IP65 ( IP65	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue inputs 0 to 55 ° -25 to 7C //e humio 90%.	81.5 mm (2 15/16 x 1 5/16 x 1 plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. ts: 10 m (32.8 ft) : 10 m (32.8 ft). C (from 32 to 131 °F) 0 °C (from -13 to 158 °F). dity without condensate from REACH (EC) Regulation no. 1907/2006
Mounti Degree Conne fixed s wires t Maxim power digital Operat Storag Operat Pollutio Compli RoHS : EMC 20 Power	i in) w ing m e of pro- ccrew up to um pro- suppli input in	x 59.0 vith fixe ethods rotectic methods termina 2.5 mm ermitte y: 10 n ermitte y: 10 n empera umidity umidity tus of 1 c 65/EC	0 mm (2 d screw for the o n provid 1: al blocks 1 <sup>2</sup> d length n (32.8 f (32.8 f (32.8 f ture: re: r: the cont	2 15/11 termi icontro for for for for ccc f(t) t)	6 x 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> ponnection vice: WEEE 20	116 x s ng: crew t wires (on r a cable	D. 75.0 : 3 3/1/1 to be vided IP65 ( termina up equest analo digita from relativ 10 to 2. /EU LVD 2	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue input l outputs 0 to 55 ° -25 to 7C //e humid 90%.	81.5 mm (2 15/16 x 1 5/16 x a plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. ts: 10 m (32.8 ft) : 10 m (32.8 ft). C (from 32 to 131 °F) °C (from -13 to 158 °F). dity without condensate from REACH (EC) Regulation no. 1907/2006 EU.
Mount Degreat Conne fixed s wires t Maxim power digital Operat Storaga Operat Operat Storaga Operato Storaga Operato Storaga Operato Storaga Operato Storaga Operato Storaga Operato Storaga Operato Storaga Operato Storaga Operato Storaga Operato Storaga Storaga Operato Storaga Storaga Operato Storaga Operato Storaga Oper	e of pi ction w crew up to um pi suppl input in	x 59.0. x 5	D mm (2 d screw for the on provided an provided al blocks blacks al blocks blacks al length n (32.8 f ture: re: re: r: the cont -15%), d in FV2	2 15/1 termii contro ded by s for 1 i i for cc ft) i t i rol dev 550/60	6 x 1 5/ nal block I device: the casin plug-in so for v 2.5 mm <sup>2</sup> nnnection //ice: WEEE 20. Hz (±3	116 x s ng: crew t wires (on r o cable 12/19 Hz),	D. 75.0 : 3 3/1' to be vided IP65 ( termina up up equest from from from from 10 to 2. /EU LVD 2	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue input l outputs 0 to 55 ° -25 to 70 re humi 90%. 014/35/ (AC (+10	81.5 mm (2 15/16 x 1 5/16 x 1 plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. ts: 10 m (32.8 ft) : 10 m (32.8 ft). C (from 32 to 131 °F) 0 °C (from -13 to 158 °F). dity without condensate from REACH (EC) Regulation no. 1907/2006 EU. % -15%), 50/60 Hz (±3 Hz) ulated in EV3 _ N5
mount Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Storag Operat Storag Operat Pollutit Compl EMC 2: Power 230 V/ max. 2 Earthing	in) w in mg m e of pn ction acrew um pr suppl input input input input input 2011/ 014/3 suppl 014/3 suppl AC (+ ? VA in g me	x 59.0. x 59.0. with fixe ethods methods methocs ermitte y: 10 n ermitte y: 10 n ermitte y: 10 n ermitte for s: 10 n ermitte for for for for for for for for for for	D mm (2 d screw for the o n provic d: al blocks 1 <sup>2</sup> d length n (32.8 f (32.8 f (32.8 f (32.8) f (32.8	2 15/1 termii contro ded by s for     i for cc ft) t t t t t i i contro l dev for cc t t i contro s for     i t t i contro s for   i i t contro s for   i t contro s for   i contro s for   i c	6 x 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> ponnection vice: WEEE 20 Hz (±3 device:	116 x is crew t wires (on rn a cable 12/19 Hz),	D. 75.0 : 3 3/11 to be vided IP65 etermina equest es: analo digita from from relati 10 to 2. /EU LVD 2 LVD 2	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue input l outputs 0 to 55 ° -25 to 7C /e humid 90%. 0114/35// //AC (+10 2 VA insu	81.5 mm (2 15/16 x 1 5/16 x a plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. ts: 10 m (32.8 ft) : 10 m (32.8 ft) : 10 m (32.8 ft). C (from -13 to 158 °F). dity without condensate from REACH (EC) Regulation no. 1907/2006 EU. % -15%), 50/60 Hz (±3 Hz) ulated in EV3 N5.
Mount Degree Conne fixed s wires I Maxim power digital Operat Storag Operat Storag Operat Pollutic Compi RoHS : EMC 22 Power 230 V/ max. 2 Earthir Rated Over-v	e of provide the second	x 59.0. x 59.0. x 59.0. rotectic methods termina: 2.5 mm ermitte y: 10 n s: 10 n mmpera mmpera mmpera do fil 65/EC 0/EU y: -10% - nsulate thods f se-witt e catego	<ul> <li>mm (2</li> <li>d screw for the operation of the operation</li></ul>	2 15/1 termii contro ded by s for 1 for co for co ft) rol dev 50/60 50/60 50/60 50/60	6 x 1 5/ nal block. I device: the casin plug-in so for v 2.5 mm <sup>2</sup> nnnection //ice: WEEE 20. Hz (±3 device:	<pre>/16 x s ng: crew t wires (on r cable 12/19 12/19 Hz),</pre>	D. 75.0 ; 3 3/1' to be vided IP65 ( terminau up up equest from from from from from 10 to 2. /EU LVD 2 115 V max. none. 4 KV. III.	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue input l outputs 0 to 55 ° -25 to 7C re humie 90%. 014/35/ /AC (+10 2 VA insu	81.5 mm (2 15/16 x 1 5/16 x)         a plug-in screw terminal blocks         a panel, snap-in brackets pro         Pico-Blade connector.         ts: 10 m (32.8 ft)         : 10 m (32.8 ft).         C (from 32 to 131 °F)         O'C (from -13 to 158 °F).         dity without condensate from         REACH (EC) Regulation         no. 1907/2006         EU.         0% -15%), 50/60 Hz (±3 Hz)         ulated in EV3 N5.
mount Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Pollutiti Compl RoHS : EMC 22 Power 230 V. max. 2 Earthin Rated Over-v Softwa	e of pi ction ccrew up to um po suppl input inpu	x 59.0. x 59.0. x 59.0. rotectic methods rotectic termina 2.5 mm ermitte y: 10 n ermitte y: 10 n ermitte s: 10 n ermitte for s: 10 n ermitte for s: 10 n ermitte for s: 10 n ermitte for for for for for for for for	D mm (2 d screw for the o m provid 1: al blocks n <sup>2</sup> d length n (32.8 n (32.8 n (32.8 n (32.8 n (32.8 n (32.8) n (32.8)	2 15/1 termii contro ded by s for 1 for ccc ft) t) t) rol dev s 50/60 s 50/60 ontrol oltage re:	6 x 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> ponnection vice: WEEE 20 Hz (±3 device:	116 x is crew t wires (on rn a cable	D. 75.0 : 3 3/1 to be vided IP65 of termina up up equest es: analoi digita from relativi 10 to 2. /EU LVD 2 115 V max. none. 4 KV. III. A. 2 for needla	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue inputs 0 to 55 ° -25 to 7C /e humio 90%. 014/35// /AC (+10 2 VA insu PTC or N e probe).	81.5 mm (2 15/16 x 1 5/16 x a plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. ts: 10 m (32.8 ft) : 10 m (32.8 ft). C (from 32 to 131 °F) °C (from -13 to 158 °F). dity without condensate from REACH (EC) Regulation no. 1907/2006 EU. Where the state of the stat
Mount Degree Conne fixed s wires i Maxim power digital Operat Storag Operat Pollutic Compl RoHS 2 EMC 22 Power 230 V. max. 2 Earthir Rated Over-v Softwa Analog PTC pr	in) within the second s	x 59.0 view of the service of the se	2) mm (2 d screw for the o m provice al blocks 1 <sup>2</sup> d length n (32.8 f ture: re: re: r: the cont the cont -15%), d in EV3 for the c istand vo iory: structur	2 15/1 termii contro ded by s for f f f f f f f f f f f f f	6 x 1 5/ nal block I device: the casin plug-in so for v 2.5 mm <sup>2</sup> xice: WEEE 20 Hz (±3 device: :	12/19 Hz),	D.           75.0 : 3 3/1           to be           vided           IP65 (           analo           digita           from           from           from           from           from           from           from           from           ll15 \           mone.           4 KV.           III.           A.           2 for           neeedlu           KTY 8           from	x 33.0 x 6 in) with fitted to (front). al blocks b to c to	81.5 mm (2 15/16 x 1 5/16 x)         1 plug-in screw terminal blocks         a panel, snap-in brackets pro-         Pico-Blade connector.         1 10 m (32.8 ft)         : 10 m (32.8 ft).         C (from 32 to 131 °F)         0 °C (from -13 to 158 °F).         dity without condensate from         no. 1907/2006         EU.         0% -15%), 50/60 Hz (±3 Hz)         ulated in EV3 N5.         4TC probes (cabinet probe and         90 Ω @ 25 °C, 77 °F)         90 Ω (from -58 to 302 °F)
mount Degree Conne fixed s wires of Maxim power digital Operat Storag Operat Pollutic Compl Storag Operat Pollutic Compl Storag Operat Pollutic Compl Storag Operat Pollutic Compl Storag Power 230 V max. 2 EMC 21 Power 230 V max. 2 EMC 21 Power Softwa Analog PTC pr	in) wights in the second secon	x 59.0 view of the second seco	2) mm (2 d screw for the o m provid d length n (32.8 h (32.8 f ture: re: re: r: the cont ture: re: r: the cont d in EV3 for the o structur structur ype of se easurem solutior ype of se	2 15/1 termi contro ded by s for 1 for cc ft) rol dev rol dev 50/60 50/60 50/60 50/60 50/60 1 re: ensor: ensor: ensor: ensor:	6 x 1 5/ nal block. I device: the casin plug-in so for v 2.5 mm <sup>2</sup> xice: WEEE 20. Hz (±3 device: :	12/19 Hz),	D. 75.0 : 3 3/1' to be vided IP65 ( remnina up equest from from from from from 10 to 2. /EU LVD 2 LVD 2 LVD 2 KVD 2 LVD 2	x 33.0 x 6 in) with fitted to (front). al blocks b to ) gue input l outputs 0 to 55 ° -25 to 7C re humin 90%. (014/35// 2 VA insu (AC (+10 2 VA insu PTC or N e probe). 1-121 (9 -50 to 15 C (1 °F). 5 (10 K_3	81.5 mm (2 15/16 x 1 5/16 x)         a plug-in screw terminal blocks         a panel, snap-in brackets pro-         Pico-Blade connector.         is: 10 m (32.8 ft)         : 10 m (32.8 ft).         C (from 32 to 131 °F)         0 °C (from -13 to 158 °F).         dity without condensate from         REACH (EC) Regulation         no. 1907/2006         EU.         0% -15%), 50/60 Hz (±3 Hz)         ulated in EV3 N5.         ITC probes (cabinet probe and         90 Ω @ 25 °C, 77 °F)         50 °C (from -58 to 302 °F)
mount Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Storag Operat Storag Operat Pollutic Compl RoHS : EMC 21 Power 230 V/ max. 2 Earthir Rated Over-v Softwa Analog PTC pr	in) wishing m ing m e of production crew up to suppling the input input input input input input input input ing the input inpu	x 59.0. x 5	O mm (2     d screw     for the o     in provid     i:     al blocks     1 <sup>2</sup> d length     n (32.8     1	2 15/1 termii contro ded by for contro for contro	6 × 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> onnection vice: WEEE 20 Hz (±3 device: :	116 x is crew t wires (on rn a cable 12/19 Hz), Hz),	D. 75.0 : 3 3/1: to be vided IP65 etermina up pequest equest analo digita from relativi 10 to 2. /EU LVD 2 115 \ max. none. 4 KV. 2 for needli KTY 8 from 0.1 °C 633432 from 0.1 °C	x 33.0 x 6 in) with fitted to (front). al blocks b) gue input l outputs 0 to 55 ° -25 to 7C //e humid 90%. 014/35/1 //AC (+10 2 VA insu -25 to 7 //e humid 90%. 014/35/1 //AC (+10 2 VA insu -25 to 15 5 (1 °F). 5 (10 K= -40 to 10 C (1 °F).	81.5 mm (2 15/16 x 1 5/16 )         n plug-in screw terminal blocks         a panel, snap-in brackets pro-         Pico-Blade connector.         10 m (32.8 ft)         : 10 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (32.8 ft)         : 10 m (32.8 ft)         : 0 c (from -13 to 158 °F)         : 0 m -15%), 50/60 Hz (±3 Hz)         ulated in EV3 N5.         : 0 m @ 25 °C, 77 °F)         : 0
Mount Degree Conne fixed s wires I Maxim power digital Operat Storag Operat Pollutic Compl RoHS : 230 V max. 2 Earthir Rated Over-v Softwa Analog PTC pr Digital Dry co	in) wind in ing ming ming ming ming ming ming mi	x 59.0. x 59.0. x 59.0. rotectic methods remittee y: 10 n s: 10 n remittee y: 10 n remittee y: 10 n remethods f se-with e catego puts: Ty Ma Ref s: s: x MM	<ul> <li>D mm (2</li> <li>d screw for the original formation of the or</li></ul>	2 15/1 termi contro ded by s for f for f f f f f f f f f f f f f	6 × 1 5/ nal block I device: the casin plug-in so for v 2.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>	12/19 Hz), Hz), mg: l2/19	D. 75.0 : 3 3/1 to be vided IP65 ( remina up equest analo digita from 1 from 2 LVD 2 LVD 2 LVD 2 LVD 2 LVD 2 LVD 2	x 33.0 x 6 in) with fitted to (front). al blocks b to c to	81.5 mm (2 15/16 x 1 5/16 x 1 plug-in screw terminal blocks a panel, snap-in brackets pro Pico-Blade connector. (Pico-Blade connector. 10 m (32.8 ft) 10 m (32.8 ft) 10 m (32.8 ft). C (from 32 to 131 °F) 0 °C (from -13 to 158 °F). dity without condensate from (REACH (EC) Regulation no. 1907/2006 EU. (No -15%), 50/60 Hz (±3 Hz) ulated in EV3 N5. (Or probes (cabinet probe and (P) 0 0 @ 25 °C, 77 °F) 10 °C (from -58 to 302 °F) 10 °C (from -58 to 302 °F) 10 °C (from -40 to 221 °F) (door switch/multi-purpose). 5 VDC, 1.5 mA none
Mount Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Pollutiti Compl RoHS : 230 V/ max. 2 Earthir Rated Analog PTC pr NTC pr Digital Dry co	in) wishing m ing m ing m ction acrew up to up to um pr suppl input input input ing th on sta iance 2011/ 	x 59.0. x 59.0. x 59.0. rotectic methods methods rotectic methoc methoc rotectic methoc methoc s: 10 m romperatu puratu tus of f 65/EC 0/EU y: -10% - nsulate f se-with thods f se-with thods f Ref S: -10% - nsulate -10% - -10% - -1	2) mm (2 d screw for the o m provid d: al blocks n <sup>2</sup> d length n (32.8 n (32.8 n (32.8 n (32.8 n (32.8 n (32.8 n (32.8 n (32.8 n (32.8) n (32.8) n (32.8 n (32.8) n (	2 15/1 termii contro ded by for contro for contro for contro for contro for control for	6 x 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> ponnection vice: WEEE 20 Hz (±3 device: : eld: casin plug-in so for v 2.5 mm <sup>2</sup> ponnection Hz (±3 device: casin plug-in so for v 2.5 mm <sup>2</sup> ponnection device: casin plug-in so for v for v fo	<pre>/16 x /16 x /16 x /16 x /17 /17 /17 /17 /17 /17 /17 /17 /17 /17</pre>	D. 75.0 : 3 3/11 to be vided IP65 5 ermina up equest ermina digita from from relativi 10 to 2. /EU LVD 2 LVD 2 LVD 2 LVD 2 115 \ max. none. 4 KV 83433 from 0.1 °C 13433 from 0.1 °C 11 dry t: 	x 33.0 x 6 in) with fitted to (front). al blocks b to 55 ° -25 to 7C /e humid 90%. -25 to 7C /e humid -25 to 7C /e	81.5 mm (2 15/16 x 1 5/16 x)         a plug-in screw terminal blocks         a panel, snap-in brackets pro         Pico-Blade connector.         is: 10 m (32.8 ft)         : 10 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (50.00 ft)         : 10 m - 58 to 302 °F)         : 10 m - 40 to 221 °F)         : 20 c (from -40 to 221 °F)         : 5 VDC, 1.5 mA         : none         : none
Mount Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Storag Operat Storag Operat Compl RoHS : Storag Pollutic Compl RoHS : EAC 21 Power 230 V/ max. 2 Earthir Rated Over-v Softwa Analog PTC pr Digital Dry co	in) wind in ing ming ming ming ming ming ming mi	x 59.0 view of the second seco	2 mm (2 d screw for the o m provice al blocks 1 <sup>2</sup> d length n (32.8 f ture: re: re: r: the cont the cont the cont cor the cont ory: structur ree of se easurem esolution ree of se	2 15/1 termi contro ded by s for 1 for c ft) rol dev rol dev s for 1 ft ft rol dev s for 1 ft ft rol dev s for 1 ft ft ft ft ft ft ft ft ft ft	6 × 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> mnection vice: WEEE 20 Hz (±3 device: : : eld: : eld: Protection 2 with e relay).	<pre>/16 x /s ng: crew t /wires (on rn o cable // 12/19 // Hz), // Hz), // // // // // // // // // // // // //</pre>	D. 75.0 : 3 3/1 to be vided IP65 of termina up up equest analo digita from relativ 10 to 2. /EU LVD 2 LVD 2 115 \ max. none. 4 KV. III. A. 2 for needl KTY 8 from 0.1 °C B3433 from 0.1 °C 1 dry t: -mecha	x 33.0 x 6 in) with fitted to (front). al blocks b to 1 outputs 0 to 55 ° -25 to 70 ////////////////////////////////////	81.5 mm (2 15/16 x 1 5/16 )         1 plug-in screw terminal blocks         a panel, snap-in brackets pro         Pico-Blade connector.         1 blog-in (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m (40 to 21 °F)         : 0 me
mounti Degree Conne fixed s wires i Maxim power digital Operat Storag Operat Pollutiti Compl RoHS : 230 V. max. 2 Earthin Rated Over-v Softwa Analog PTC pr Digital Dry co Digital	in) wind in the second seco	x 59.0. x 5	2) mm (2 d screw for the o m provid d: al blocks h <sup>2</sup> d length n (32.8 h (32.8 h (32.8 h (32.8 h (32.8 h (32.8 h (32.8) h (32.8 h (32.8) h (32.8 h (32.8) h	2 15/1 termii contro ded by for contro for contro for contro for control for control fo	6 × 1 5/ nal block: I device: I the casin plug-in so for v 2.5 mm <sup>2</sup> onnection Vice: WEEE 20 Hz (±3 device: : eld: Seld: Seld: Type of c Power su Protection 2 with e relay).	116 x is crew t wires (on rn a cable 12/19 Hz), Hz), Hz), n: contac pply: :	D. 75.0 : 3 3/11 to be vided IP65 : analo digita from relativi 10 to 2. /EU LVD 2 LVD 2 LVD 2 LVD 2 LVD 2 LVD 2 CVD 2 CVD 2 LVD 2 CVD 2	x 33.0 x 6 in) with fitted to (front). al blocks b to 1 outputs 0 to 55 ° -25 to 7C // re humin 90%. 014/35// //AC (+10 2 VA insu 011/35// //AC (+10 2 VA insu 0 -25 to 15 -25 to 15 -25 to 15 -25 to 15 -25 to 15 -25 to 1	81.5 mm (2 15/16 x 1 5/16 x         n plug-in screw terminal blocks         a panel, snap-in brackets pro         Pico-Blade connector.         (1)         x         10 m (32.8 ft)         : 10 m (32.8 ft)         : 10 m (32.8 ft)         : 0 °C (from -13 to 158 °F).         dity without condensate from         x         x         y         -15%), 50/60 Hz (±3 Hz)         y         y         x         y         x         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y         y
Mount Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Storag Operat Storag Operat Pollutia Compl RoHS : 230 V/ max. 2 Earthir Rated Over-v Softwa Analog PTC pr Digital Dry co Digital Type 1 Additic	in) wind in ing ming ming ming ming ming ming mi	x 59.0. x 59.0. x 59.0. rotectic termina termina termina s: 10 n emperatu umidity tus of 1 65/EC 0/EU y: 10% - nsulate thods f se-with e categ uss and puts: Ty Mi Ref s: relay ((22) ye 2 a ageatures	2 mm (2 d screw for the o m provice al blocks 1 <sup>2</sup> d length n (32.8 f ture: re: re: r: the cont the cont corthe cont ory: structur ree assurem easurem esolution repe of se easurem esolution resoluti	2 15/1 termi contro ded by s for 1 for c for c for c t for c for c fo	6 × 1 5/ nal block I device: the casin plug-in so for v2 2.5 mm <sup>2</sup> mnection Vice: WEEE 20 Hz (±3 device: : : eld: : : : : : : : : : : : : : : : : : :	<pre>/16 x /s ng: crew t /wires (on rn o cable // 12/19 // Hz), // Hz), // Hz), // // / / / / / / / / / / / / / / / /</pre>	D. 75.0 : 3 3/1 to be vided IP65 of termina up up equest analo digita from 1 from 2. III 0 to 2. /EU LVD 2 LVD 2 IIT5 V max. none. 4 KV. III. A. 2 for needlk KTY 8 from 0.1 °C (B3433 from 0.1 °C (B3433 from 0.1 °C SPST, SPDT, SPDT, C.	x 33.0 x 6 in) with fitted to (front). al blocks b to 1 outputs 0 to 55 ° -25 to 7C //e huming 90%. 	81.5 mm (2 15/16 x 1 5/16 :         1 plug-in screw terminal blocks         a panel, snap-in brackets pro         Pico-Blade connector.         1 10 m (32.8 ft)         : 0 °C (from -13 to 158 °F).         dity without condensate from         0 °C (from -13 to 158 °F).         dity without condensate from         0 °C (from -13 to 158 °F).         dity without condensate from         0 °C (from -13 to 158 °F).         dity without condensate from         0 °C (from -13 to 158 °F).         dity without condensate from         0 °C (from -1907/2006         EU.         0 °C (from -5% to 302 °F)         0 °C (from -58 to 302 °F)         0 °C (from -40 to 221 °F)         0 °C (from -40 to 221 °F)         (door switch/multi-purpose).         5 VDC, 1.5 mA         none         none.         lay (compressor and auxiliar         s. @ 250 VAC         @ 250 VAC.
mounti Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Pollutit Compl RoHS : 230 V. max. 2 Earthin Rated Over-v Softwa Analog PTC pr Digital Dry co Digital Dry co Digital Type 1 Additic	in) wi in) ming m ing m ction crew up to up to u	x 59.0. x 59.0. x 59.0. rotectic methods methods rotectic methods rotectic remite x: 10 n remperatu undity tus of fi- 65/EC 0/EU y: -10% - nsulate fo- se-with rotectic y: -10% - nsulate fo- se-with rotectic y: -10% - nsulate rotectic y: -10% - nsulate rotectic y: -10% - nsulate rotectic y: -10% - rotectic y: -10% - - rotectic y: - - - - - - - - - - - - -	2 mm (2 d screw for the o m provid d: al blocks n <sup>2</sup> d length n (32.8 n (32.8 n (32.8 n (32.8 n (32.8 n (32.8 n (32.8) n (32.8 n (32.8) n	2 15/1 termii contro ded by for contro for contro for contro for contro for control for	6 × 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> ponnection vice: WEEE 20 Hz (±3 device: : Hz (±3 device: : eld: Type of c Power su Protection 2 with e relay).	<pre>/16 x /s ng: crew t wires (on rn a cable // 12/19 // // // // // // // // // // // // //</pre>	D. 75.0 : 3 3/11 to be vided IP65 : analo digita from from relativi 10 to 2. /EU LVD 2 LVD 2 LVD 2 LVD 2 LVD 2 LVD 2 (LVD 2 LVD 2 LVD 2 C : C : C :	x 33.0 x 6 in) with fitted to (front). al blocks b to comparison gue input l outputs 0 to 55 ° -25 to 7C //e humid 90%. 014/35/1 //AC (+10 2 VA insu -25 to 7C //a humid -25 to 7C //a humid -26 to 15 -26 to 15 -26 to 15 -26 to 15 -26 to 15 -26 to 15 -26 to 15 -26 to 15 -26 to 15 -26	81.5 mm (2 15/16 x 1 5/16 x         n plug-in screw terminal blocks         a panel, snap-in brackets pro         Pico-Blade connector.         is: 10 m (32.8 ft)         : 10 m (32.8 ft)         : 10 m (32.8 ft)         : 0 m.         : 0 m (2 form -13 to 158 °F)         : 0 m (2 form)         : 0 m (2 form) <td: (2="" 0="" form)<="" m="" td=""> <td: (2="" 0="" form)<="" m="" td="" td<=""></td:></td:>
Mount Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Pollutic Compl EMC 22 Power 230 V max. 2 Earthin Rated Over-v Softwa Saftwa Analog PTC pr Digital Dry co Digital Dry co Digital Compr Auxilia Type 1 Compr Auxilia	in) wind in ing ming ming ming ming ming ming mi	x 59.0 x 50.0 x	2 mm (2 d screw for the o in provice al blocks bl d length n (32.8 f ture: re: re: r: the cont d in EV3 for the c istand vo iory: structur pe of se easurem esolution (pe of se easurem (pe of se easurem)(pe of se easu	2 15/1 termi contro ded by s for 1 for c ft) rol dev rol dev rol dev s for 1 t t rol dev rol dev rol dev s for 1 t t rol dev rol dev s for 1 t t rol dev s for 1 t t t t t t t t t t t t t	6 × 1 5/ nal block. I device: the casin plug-in so for v2 2.5 mm <sup>2</sup> wice: WEEE 20 Hz (±3 device: : : eld: : : : : : : : : : : : : : : : : : :	<pre>/16 x /s ng: crew t /wires (on r o cable // 12/19 // 12/19 // // // // // // // // // // // // //</pre>	D. 75.0 : 3 3/1 to be vided IP65 of termina up equest analo digita from relativ se: analo digita from 10 to 2. /EU LVD 2 LVD 2 LVD 2 LVD 2 LVD 2 115 V max. none. 4 KV. III. A. 2 for needlk KTY 8 from 0.1 °C B3433 from 0.1 °C B3433 from 0.1 °C C. C. custor built-i C. C.	x 33.0 x 6 in) with fitted to (front). al blocks b to c to	81.5 mm (2 15/16 x 1 5/16 )         1 plug-in screw terminal blocks         a panel, snap-in brackets pro-         Pico-Blade connector.         1 10 m (32.8 ft)         : 10 m (32.8 ft).         C (from 32 to 131 °F)         0 °C (from -13 to 158 °F).         dity without condensate from         REACH (EC) Regulation         no. 1907/2006         EU.         0% -15%), 50/60 Hz (±3 Hz)         ulated in EV3 N5.         90 Ω @ 25 °C, 77 °F)         50 °C (from -58 to 302 °F)         10 °C (from -40 to 221 °F)         (door switch/multi-purpose).         5 VDC, 1.5 mA         none         none.         lay (compressor and auxiliary         s. @ 250 VAC         @ 250 VAC.         7, 3 digit, with function icons.
mount Degree Conne fixed s wires ( Maxim power digital Operat Storag Operat Storag Operat Storag Operat Storag Operat Compl EMC 21 Pollutic Compl RoHS : EMC 21 Power 230 V/ max. 2 Earthir Rated Over-v Softwa Analog PTC pr Digital Dry co Digital Compr co Compr co Co Compr co Co Co Co Co Co Co Co Co Co Co Co Co Co	in) wi in) wi ing m e of pr ction crew up to up to suppl input ting tr input input input input 2011/ 014/3 suppl 014/3 suppl 014/3 suppl 014/3 suppl 014/3 suppl 014/3 suppl oltag me clag me imput re clag input re clag input re clag input obes: robes: ry rel outpu input suppl outpu re clag input suppl outpu re clag input suppl outpu suplu supplu supplu supplu supplu supplu supplu supplu	x 59.0. x 59.0. x 59.0. x 59.0. rotectic methods rotectic methods rotectic remitte y: 10 n rmperatu umidity remuter of/EU y: -10% - nsulate 65/EC 0/EU y: -10% - nsulate catego puts: Ty Ma Ref ss and puts: relay ( ry r: -10% - nsulate ss and puts: -10% - nsulate ss and puts: -10% - -10% - -1	2 mm (2 d screw for the o m provid d: al blocks 1 <sup>2</sup> d length n (32.8 f ture: re: re: re: re: r: the cont d in EV3 for the c istand vi ory: structur resolution rype of se easurem easurem easolution rype of se easurem esolution rype of se easurem	2 15/1 termi contro ded by 5 for 1 1 1 1 1 50/60 50/60 3 N7 50/60 3 N7 50/60 3 N7 ontrol 001tage re: ensor: 1 1 1 1 1 1 1 1 1 1 1 1 1	6 x 1 5/ nal block: I device: the casin plug-in so for v 2.5 mm <sup>2</sup> onnection WEEE 20 Hz (±3 device: : Hz (±3 device: : eld: Type of c Power su Protection 2 with e relay).	<pre>/16 x /s ng: crew t wires (on ru a cable ////////////////////////////////////</pre>	D. 75.0 : 3 3/1: to be vided IP65 analo digita from relativi 10 to 2. /EU LVD 2 115 V max. none. 4 KV. 111. A. 2 for max. none. 4 KV. SPST, SPDT, type 3 C. Custoo built-1 1 TTL EVPC/	x 33.0 x 6 in) with fitted to (front). al blocks b to contact 20 to 55 ° -25 to 7C //e huming 90%. 2014/35// //AC (+10 2 VA insu 2 VA insu -25 to 15 2 (1 °F). 5 (10 K - -40 to 10 C (1 °F). contact of -40 to 10 C (1 °F). contact of -40 to 10 C (1 °F). contact of -40 to 10 C (1 °F). -40 to 10 C (1 °F). -50 to 15 C (1 °F). -50 to 15 C (1 °F). -40 to 10 C (1 °F)	81.5 mm (2 15/16 x 1 5/16 is 1 plug-in screw terminal blocks         a panel, snap-in brackets pro         Pico-Blade connector.         (1)         (1)         (2)         (1)         (2)         (2)         (2)         (1)         (2)         (2)         (2)         (2)         (32.8 ft)         (1)         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (3)         (3)         (4)         (5)         (5)         (2)         (3)         (4)         (5)         (5)         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (2)         (3)         (2)         (2)         (3)         (2)         (2)         (3)         (2)

	VAL. MEANING						
	149 value for re			storing the factory information (default)			
	161 value for sa			iving customised settings			
4.			I	Touch the SET key (or take no action for 15 s): the display will show the label "dEF" (for setting the "149" value) or the label "MAP" (for setting the "161" value).			
5.	≙SET			Touch the SET key.			
6.				Touch the UP or DOWN key within 15 s to set "4".			
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 procedure.			
8.	Disconnect the device from the power supply.						
9.	Ì ≅ SET			Touch the SET key for 2 s before action 6 to exit the procedure beforehand.			
8	CONFI	(GUR/	TION	PARAMETERS			
8.1 First level parameters							
	NO.	PAR.	DEF.	REGULATION	MIN MAX.		
	8	r0	2.0	r7, r8, r9 and rA differential	1 15 °C/°F		
	9	r1	90	duration time controlled blast chilling	1 600 min		
	10	r2	240	duration time controlled blast freezing	1 600 min		
4.	11	r3	3.0	product temperature at end of temperature controlled blast chilling	-99 99 °C/°F		
	12	r4	-18.0	product temperature at end of temperature controlled blast freezing	-99 99 °C/°F		

	38	A7	15	high/low temperature alarm de-	0 240 min
	39	A8	15	high temperature alarm delay post-defrosting	0 240 min
	40	A9	15	high temperature alarm delay from door closure	0 240 min if i0 = 0 or 1
	41	AA	5	buzzer duration after blast chilling/freezing	0 240 s
ŝ	NO.	PAR.	DEF.	EVAPORATOR FANS (always on during defrosting)	MIN MAX.
	42	F0	2	evaporator fan mode during blast chilling/freezing	0 = off $1 = on2 = on if compressor on$
	43	F2	1	evaporator fan mode during con- servation	0 = off   1 = on 2 = on if compressor on
	44	F8	0	evaporator fan delay from de- frost activation	0 99 min
	NO.	PAR.	DEF.	DIGITAL INPUTS	MIN MAX.
¢	45	iO	1	door switch/multi-purpose input function	0 = after 10 s evaporator fans off 1 = after 10 s compressor + evaporator fans off 2 = alarm iA 3 = evaporator fans off 4 = compressor + evapora- tor fans off
	46	i1	0	activation door switch/multi- purpose input	0 = with contact closed 1 = with contact open 2 = disabled
	47	i2	30	door open alarm delay	-1120 min $-1 = disabled$ if i0 = 0 or 1

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#### N.B.

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

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