

MOD: SN203T-4P-R2

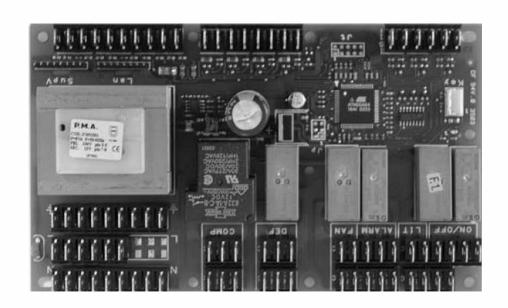
Production code : SFL016P002-DI



USE AND MAINTENANCE HANDBOOK









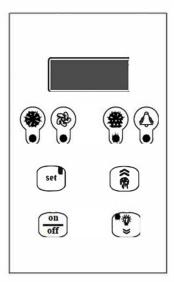
ENGLISH

7 STARTING THE MACHINE

Before starting the Blocksystem, make sure of the following:

- All locking screws are correctly tightened
- All electrical connections have been made correctly.
- The coldroom door is closed so that the door microswitch contact is closed.

7. 1 Control panel description



T .	
	Green "COMPRESSOR" LED
	OFF: The compressor is off
	LIT: The compressor is operating.
	BLINKING: The switch on request is pending (delays or protective devices activated)
	Green "FANS" LED
(88)	OFF: The fans are off
	LIT: The fans are operating
•	BLINKING: The switch on request is pending (delays or protective devices activated)
	Green "DEFROSTING" LED
	OFF: Defrosting is not activated
**	LIT: Defrosting is in progress
	BLINKING: Manual defrosting is in progress; a defrosting request is pending (delays or protective
	devices activated); network synchronised (master/slave) defrosting
	Yellow "ALARM LED"
	OFF: No alarm is in progress
	LIT: A serious alarm is in progress (and alarm relay activated)
	BLINKING: A non-serious alarm is in progress or a serious alarm has been silenced (alarm relay
	deactivated)
	"SETPOINT" key + "SETPOINT/REDUCED SET" green LED
	LIT: The setpoint is displayed
set	BLINKING: The reduced set is activated
	ENTER" key: This is used to set the setpoint, to access the programming menu, and to view the
	machine status (if held down for 1 second); to enter the programming mode, this key must be held
	down for 5 seconds.
	"I ID" 1 This is so a day as so and a second defending (i.f.) and desire for some day for so and the second as so and the
	"UP" key: This is used to command manual defrosting (if held down for more than 5 seconds) as well
4"1	as to increase the value of the parameter being displayed and to scroll forwards through the menu list.
On	"ON/OFF" key: This is used as a manual on-off control, to confirm a parameter value and it also
	allows you to return to the previous menu. To switch the machine on or off, hold this key down for
off	more than 5 seconds.
	"DOWN" key: This is used to command the lights manually (if held down for 1 second); it also
	decreases the value of the parameter being displayed and scrolls back through the menu list.
	and the state of the parameter demig dioping of this defend of the ment hat.



7. 2 Switching on/off

When the machine is energised, the display will read OFF and show the coldroom temperature alternately. To switch the Blocksystem on (off), hold down the "ON/OFF" key on the front of the machine for more than 5 seconds.

7. 3 Coldroom temperature adjustment

The temperature ranges within which the Blocksystem can operate are as follows:

	Minimum	Maximum
High Temperature (HBP)	+2	+10
Medium Temperature (MBP)	-5	+5
Low Temperature (LBP)	-25	-15

The temperature adjustment setpoint can be accessed directly for display or adjustment purposes.

- Press and release SETPOINT: the display will read "SEt" (the procedure is slightly different if there are alarms in progress; see the machine status display paragraph)
- Press SETPOINT: the green SET LED will switch on and the Setpoint value will be displayed
- Press UP or DOWN to set the new value
- Press SETPOINT or ON/OFF (or wait for the 5-second timeout) to confirm the value (the SET LED will switch off and the display will read "SEt")
- Press ON/OFF (or wait for the 5-second timeout) to return to the normal display mode

7. 4 How to vary parameters

Blocksystem operation is governed by parameters that have been stored in the memory of the electronic control unit by the manufacturer (see the parameters table). These factory settings should not be varied unless strictly necessary, and in all cases such operations are only to be carried out by qualified staff. Parameters are not only divided by function, they are also divided according to their security/accessibility levels:

Level 0 Setpoint parameters direct access (see paragraph 7.3)

Level 1 frequently used parameters access without password (see paragraph 7.5)

Level 2 configuration parameters access with password (see paragraph 7.7)

Parameters can be varied as follows:

- From the keyboard
- Via LAN network (Master/Slave)
- Via Supervision network

7. 5 How to vary level 1 parameters

- Hold down SET for 5 seconds until the display reads "reg" (adjustment parameters)
- Press UP or DOWN until the required menu appears on the display
- Press SET to access the menu; the code number for the first parameter in the selected menu will appear
- Press UP or DOWN until the required parameter appears
- Press SET to view the value of the parameter
- Press UP or DOWN to set the required value
- Press SET to confirm the value and return to the parameters list; press ON/OFF to confirm the value and return to the menu list
- Press ON/OFF to pass from the parameters list to the menu list
- Press ON/OFF again to exit the editing procedure,

If no key is pressed for more than 15 seconds, any value shown on the display will be stored in the memory for the relevant parameter and there will be a forced exit from the parameters variation procedure.

7. 6 Machine status display

- Press and release SET: the display will read "SEt" or "AAL" if there are any alarms in progress
- Press UP or DOWN until the required status is displayed
 - AAL alarms in progress (if present)
 - SEt setpoint
 - Pb1 coldroom temperature probe value
 - Pb2 evaporator temperature probe value



Pb3 probe 3 value (if present)
Out relay outputs status
InP digital inputs status

- Press SET to view the value
- For alarm status, output status or input status, press UP or DOWN to scroll through the alarms in progress, the outputs or the inputs,
- Press SET or ON/OFF (or wait for the 5-second timeout) to return to the status list
- Press ON/OFF (or wait for the 5-second timeout) to return to the normal display mode

Code	Level	Descr.		Range	Unit
		List of -PPS passwords			
PPA		Parameters access password Entering a pre-set password will give access to protected parameters		0 255	
		List of -rEG adjustment parameters			
SEt	0	Setpoint		LSEHSE	°C [°F]
diF	1	Differential		0.1 50.0	°C [°F]
uii	15.2%	temperature > setpoint + diff> adjustm		SPERIOR PROPERTY.	202 TAX-570
		temperature ≤ setpoint -> adjustment Off		-	
~		List of -Pro probe parameters Probe 1 calibration	TT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		00 100
CA1	1		The value assigned to this parameter is added to (positive value) or taken away from (negative	-20.0 20.0	°C [°F]
CA2	1	Probe 2 calibration	value) the temperature detected by the probe	2010 111 2010	
CA3	1	Probe 3 calibration			
		List of -CPr compressor parameters			
Ont	1	Compressor ON time in the event of	In the event of an adjustment probe error, the	0 60	min
	70.20	probe failure	compressor is enabled in cyclical mode with set		
OFt	1	Compressor OFF time in the event of probe failure	operation and off times. In particular: Ont=0: the compressor remains off	0 60	min
		proof faithful	Ont>0 and OFt=0: the compressor remains on		
dOn	1	Compressor activation delay	N W DECEMBER W DECEMBER W	0 250	sec
		The time, starting from the switch on requ activated.	uest, after which the compressor is effectively		
		200 COM (0.000 DO 100 DO)	tial mode, this represents the activation delay from		
		compressor to compressor	20 (MCCH, 24 (1975) - 1976) - 1976) - 1976, 20 (MCCH, 1976) - 1976, 20 (MCCH, 2016) - 2016, 201		
dOF	1	Minimum compressor OFF time		0 60	min
		The time, starting from the moment of de compressor	activation, for which it is not possible to restart the		
dbi	1	Delay between switch on times			min
dor	15,2.00	The time, starting from the moment of pro	evious activation, for which the compressor cannot be	28-5 (1/2007) (1/2008)	
0.10	1	Putputs delay at power-on (compressor	Outputs delay at power-on (compressor, fans, defrosting)		min
OdO	8.58	This is used to delay the enabling of adjustments after the instrument has been switched on for a set amount of time. The transition from stand-by to machine activated (ON command from the keyboard) bypasses this delay		0 60	11111
		List of -dEF defrosting parameters			
dtY*	1	Defrosting type		0,1	
at Y		0 = heating element: ends at temperature	or after maximum safe time (timeout)	0,1	
		$1 = \underline{\text{hot gas}}$: ends at temperature or after i			
		For defrosting using a heating element, the switching off and the defrosting relay being	nere is a 1 second delay between the compressor		
dit	1	Defrosting interval	ng unggereu	0 250	h
un	5550	The maximum time (from start to start) be	etween two consecutive defrosting cycles. When this	576 (888) 687 (887)	
		time expires, a defrosting cycle is enabled defrosting request (even if not cyclical).	(cyclical defrosting). The timer is reset at each		
		0 = cyclical defrosting disabled			
det	1	Defrosting interval count mode		0,1	
		0 = counts if the compressor is operating			
4011	1	1 = counts all the time Defrosting start delay at power-on		0 250	min
dOH			switched on, for which any defrosting requests are	V 250	*****
		frozen (manual defrosting excluded)		1 050	
dEt*	1	Defrosting timeout	n any case ended, even if the defrost end temperature	1 250	min
		has not been reached, passing on to the dr			
dSt*	St* 1 Defrost end temperature		-50.0 199.0	°C [°F]	
			frosting is ended. If, at the start of a defrosting cycle,		
			defrosting will be carried out. In the event of a will in any case terminate after reaching a time limit		



		In		ъ т	¥1 *.
Code	Level	Descr.	Range	Unit	
dS2	1	Defrost end temperature for the second evaporator The probe 3 temperature above which defrosting for the	-50.0 199.0	°C [°F]	
		The probe 3 temperature above which defrosting for the start of a defrosting cycle, the temperature is greater than			
	1	out. In the event of a probe 3 malfunction, the defrosting			
		reaching a time limit.			
	1	This function is only enabled if P01=3o4, Co4=3 and			
		evaporator defrosting and probe 3 used to detect the term			
		this case, the dripping phase will begin after the defrosti			
		ended.		0.1	-
dPO	1	Defrosting at power-on 0 = disabled		0,1	flag
		1 = defrosting when the instrument is switched on			
		List of -FAn fan parameters			
EC4	1	Fans switch on temperature	probe2≥FSt: fans off	-50.0 199.0	°C [°F]
FSt			Fot ≤ probe2 < (FSt – FAd): fans on		
Fot	1	Fans switch off temperature	probe2 < (Fot - FAd): fans off	-50.0 199.0	°C [°F]
FAd	1	Fans switch on and off differential		1.0 90.0	°C [°F]
Fdt	1	Post-dripping time		0 60	min
	.	The time after the dripping phase, during which the fans	remain switched off	0 60	
dt	1	Dripping time The time after a defrosting cycle during which the comp	ressor and the evanorator are stonged	0 60	min
		in order to favour evaporator dripping	ressor and the evaporator are stopped		
dFd	1	Fans deactivated during defrosting		0,1	flag
ur u		0 = fans activated (operation set from FPt)			-
		1 = fans deactivated		0.0	
FCO	1	Fans activated with compressor off 0 = fans deactivated		0 2	
		0 = fans deactivated 1 = fans activated (operation set from FPt)			
		2 = fans in duty cycle operation			
Fon	1	Fans ON time during duty cycle operation (FCO=2)		1 60	min
FoF	1	Fans OFF time during duty cycle operation (FCO=2)		1 60	min
101					
		List of -ALr alarm parameters		10 000	90 (91)
AFd	1	Temperature alarm threshold differential This sets the re-entry temperature threshold after a high-	or low-temperature alarm condition	1.0 90.0	°C [°F]
HAL	1	Maximum alarm threshold	or 10th schipterine aranii condition	-50.0 199.0	°C [°F]
HAL	-	Above this value (absolute or referred to the setpoint) and	alarm is triggered		-1-1
		If the reference is relative, the unmarked value is added	to the setpoint		
LAL	1	Minimum alarm threshold	alam is singered	-50.0 199.0	°C [°F]
		Below this value (absolute or referred to the setpoint) an If the reference is relative, the unmarked value is subtract			
DAO	1	Temperature alarm delay at power-on	жо пош ше эсцюші	010	h
PAO		· · ·			
dAO	1	Temperature alarm delay after defrost The time, starting from the end of the dripping phase, du	tring which no alarm is signalled	0 999	min
		In the event of contemporaneous network defrosting, the			
		command			
OAO	1	Temperature alarm delay after door closure		0 10	h
		The time, after the door is closed again and during which	h no alarm is signalled	0.1	0
dAt	1	Defrosting alarm timeout enabling This enables the signalling of any defrosting end due to	the maximum time limit being reached	0,1	flag
		(timeout).	and maximum time munt being reached		
		0 = signal disabled			
		1 = signal enabled			
		List of -diS display parameters			
ndt	1	Decimal point display		0,1	flag
		0 = display without decimal point			
1.17	1	1 = display with decimal point. Display during the defrosting phase		0,1,2	
ddL	'	0 = normal display (as set from the ddd par.)		0,1,2	
	1	1 = freezes the temperature value displayed at the start o	f defrosting until the end of defrosting		
		and the reaching of the setpoint			
		2 = "dF" until the end of defrosting and the reaching of t			
		The ddL parameter can be controlled only if the stan adjustment probe (probe 1 or network probe)	dard display (ddd par.) includes the		
144	1	Defrosting display block timeout		0 255	min
Ldd	1 1	The time, starting from the end of defrosting (end of drip	oping phase),after which the normal	V 233	*****
		display is in any case restored			
dro	1	°C or °F selection		0,1	flag
	0 = °C				
	1 = °F This selection only affects temperature measurements. The values of the parameters				
	concerning temperature maintain their current values and therefore, they must be varied				
		manually to adapt them to the Fahrenheit scale.			



Code	Level	Descr.	Range	Unit
		List of -CnF configuration parameters		
LOC (**)	1	Keyboard lock 0 = keyboards disabled 1 = main terminal keyboard enabled 2 = secondary terminal keyboard enabled 3 = keyboards enabled (the first to request a service has precedence until completion)	0 3	
rEL	1	Software release A read-only value that identifies the software version	0.0 99.9	
		List of -Lan(***) network parameters		
dEA	1	Supervision network address (for Master only) The address to be set on each master must take into account the number of slaves present in the LAN network preceding it: "dEA"="dEA[previous master]"+"L01[previous master]"+1 The Supervision network address for a Slave is "dEA[master]"+"L00")	1 199	

(*) For models

PTM068Z012,PTM080Z012,PTL060Z012,PTL080Z012,PTM110Z012,PTM140Z012,PTM200Z012,PTL130Z012,PTL180Z012,PTL200Z012,PTL260Z012,PTM300Z012, PTM370Z012, PTL350Z012 and PTL450Z012, the dtY,dEt and dSt parameters have the following values (Defrosting by heater):

dtY	1	Defrosting type	0,1	
ut I		0 = heating element: ends at temperature or after maximum safe time (timeout)		
		1 = hot gas: ends at temperature or after maximum safe time (timeout)		
		For defrosting using a heating element, there is a 1 second delay between the compressor switching off and the defrosting relay being triggered		
dEt	1	Defrosting timeout (Defrosting by heater)	1 250	min
uLt		When the set time expires, defrosting is in any case ended, even if the defrost end temperature		
		has not been reached, passing on to the drip phase		
dSt	1	Defrost end temperature (Defrosting by heater)	-50.0 199.0	°C [°F]
usi		The probe 2 temperature above which defrosting is ended. If, at the start of a defrosting cycle,		
	1	the temperature is greater than that set, no defrosting will be carried out. In the event of a		
	Į.	probe 2 malfunction, the defrosting cycle will in any case terminate after reaching a time limit		

(**) Note: To release the keypad, hold down "SET" and "ON/OFF" together for at least 5 seconds.

(***) Note: The "LAn" network parameter only serves in the event of MASTER/SLAVE or REMOTE CONTROL operation

7. 7 ADVANCED ELECTRONIC CARD PROGRAMMING FOR BLOCKSYSTEM

1. Level 2 programming

The procedure for editing level 2 parameters is protected by a password and can be carried out in the following manner: enter the programming mode by holding down the "set" key for at least 7 seconds until the display reads "reg", which corresponds to the adjustment parameters directory, then proceed as follows:

Press the "down" key (the display will read "PPS")

Press the "set" key (the display will read "PPA")

Press the "set" key again (the display will read "0")

Press the "up" key until the display reads 22 (the level 2 password)

Press the "set" key to confirm the password

At this point, using the "up" and "down" keys, you can access all of the electronic card parameters shown in the annexed programming chart.

Once you have edited the required parameters, press the "ON/OFF" key twice until the display shows the cold room temperature (or wait for 15 seconds without pressing any keys); this way the edited parameters will be stored to the memory.

CAUTION!

THE FOLLOWING SECTION EXPLAINS THE NECESSARY PROCEDURE IN THE EVENT THAT PARAMETERS ARE EDITED WITHOUT FOLLOWING ANY CRITERIA OR THAT THE CARD SETTINGS ARE LOST. IN ANY CASE, WE ADVISE THAT YOU FOLLOW THESE STEPS ONLY AFTER THE APPROVAL OF A RIVACOLD TECHNICAL ENGINEER.



2. Restoring the factory settings

CAUTION: the following procedure will restore all factory settings for the electronic card. We advise that you only do this if strictly necessary and in any case, that you are assisted by a technical engineer from Rivacold.

Cut off the power to the Blocksystem.

Press the "set" and "down" keys at the same time, then switch the Blocksystem on again while holding down these keys.

Release the keys when the display reads " $-\square 3$ ".

At this point, the electronic card will re-start and its parameters will have returned to those set in the factory. The display will read "Um" for 1 second; it will then show the temperature read by the cold room probe.

PLEASE NOTE: THIS OPERATION RESTORES THE FACTORY SETTINGS FOR A MEDIUM-TEMPERATURE MACHINE APPLICATION (-5/+5°C) WITH "HOT GAS" DEFROSTING.

IF YOU ARE USING AN APPLICATION OTHER THAN "MEDIUM TEMPERATURE" AND/OR A DIFFERENT TYPE OF DEFROSTING (NOT "HOT GAS"), YOU MUST FOLLOW THE INSTRUCTIONS IN THE FOLLOWING SECTION, AND REFER TO THE "CPP PARAMETER PROGRAMMING CHART".

3. Rapid programming according to the application required

Level 2 programming contains a parameter known as "CPP" (to be found in the "cnf" directory) which is used for the rapid programming of parameters according to application and defrosting types (see following chart).

CPP parameter programming chart

Defrosting		Hot gas	Hot gas	Fan	Heating element	Heating element
Application		-5/+5°C	-25/-15°C	+2/+10°C	-5/+5°C	-25/-15°C
Menu	Code no.	CPP=1	CPP=2	CPP=3	CPP=4	CPP=5
REG	SEt	2.0	-18.0	5.0	2.0	-18.0
REG	diF	2.0	2.0	2.0	2.0	2.0
REG	HSE	5.0	-15.0	10.0	5.0	-15.0
REG	LSE	-5.0	-25.0	2.0	-5.0	-25.0
DEF	dtY	1	1	0	0	0
DEF	dEt	15	15	15	30	30
DEF	dSt	10.0	15.0	10.0	15.0	15.0
Fan	FSt	8.0	-5.0	50.0	8.0	-5.0
Fan	Fdt	1	2	0	1	2
Fan	dt	2	2	0	2	2
Fan	dFd	1	. 1	0	1	1

Follow the instructions in paragraph 1 to access level 2 programming

Press the "up" or "down" keys until you reach the "CnF" directory

Press the "set" key (the LOC parameter will appear)

Press the "up" key until you reach the "CPP" parameter

Press the "set" key (the number 0 will appear)

Press the "up" key until you reach the number corresponding to the required program

Then press the "set" key to confirm.

8. ALARM SIGNALS

In the event of an alarm, the card normally activates the following:

- The relevant alarm code is shown on the display. In particular, the control alternates the alarm
 code and the temperature that is normally shown on the display; if there is more than one alarm,
 they are displayed in succession, alternated with the temperature
- The alarm LED is switched on
- The alarm relay is triggered.

For some alarms and signals, the LED and/or relay are not triggered. The table below gives a detailed description for each alarm and the relevant actions undertaken.

Pressing any button will deactivate the relay (if triggered) and the LED will blink, while the alarm code will remain on the display. The LED will switch off and the alarm code will disappear only when the cause behind it has ceased. The alarm codes are listed in the table below:



Code displayed	Description/Control	LED enable	Relay enable	Reset Mode
E1	cold room probe temperature error	yes	yes	automatic when the
	if a probe is used for adjustment, the compressor will	,	,	condition ceases
	be activated cyclically and defrosting cycles will be			
	disabled;			
	if a balanced network probe is enabled, adjustment			
	will continue, bypassing the malfunctioning probe			
E2	End defrostin probe g error	yes	yes	automatic when the
	defrosting will end due to timeout	,	,	condition ceases
E3	3 rd probe error (condenser temperature)	blink.	no	automatic when the
	the associated controls are disabled			condition ceases
	3rd probe error (2nd evaporator temperature)	yes	yes	
	defrosting will end due to timeout	,	,	
	heat alarm (*)	yes	no	automatic when the
	adjustment is disabled	, , ,		condition ceases
	HP pressure switch alarm(*)	yes	no	automatic when the
	adjustment is disabled	, , ,		condition ceases
	LP pressure switch alarm(*)	yes	no	automatic when the
	adjustment is disabled	, , , ,		condition ceases
E4	repeated heat alarm	yes	yes	at switch on
	adjustment is disabled permanently	700	,00	di swiicii oii
E5	repeated HP pressure switch alarm	yes	yes	at switch on
	adjustment is disabled permanently	703	yes	di swiicii oii
E6	repeated LP pressure switch alarm	yes	yes	at switch on
	adjustment is disabled permanently	700	,00	di swiicii oii
LO	low temperature alarm	yes	yes	automatic when the
	low temperature diami	703	yes	condition ceases
HI	high temperature alarm	yes	yes	automatic when the
		,00	,00	condition ceases
EE	data saving alarm	yes	yes	at power-on or after
	default parameters are loaded	, , , ,	, , , ,	the parameter has
	deliant parameters are readed			been stored to
				memory
Ec	condenser cleaning alarm	blink.	no	automatic when the
	condenser clearing diarm	Sillik.	110	condition ceases
Er	network alarm (**)	yes	yes	automatic when the
	network didnii ()	yes	yes	condition ceases
Ed	defrosting timeout alarm	blink.	no	automatic at the start
Lu	derrosiing iimeoor didim	Dillik.	110	of the next defrost
Od	door open timeout alarm	blink.	no	automatic when the
J	normal operation is enabled again	Dillik.	110	condition ceases
ny	slave x alarm (on master only)	Voc	progr	automatic when the
nx	siave x diamir (on masier only)	yes	progr.	condition ceases
Ux	slave x not connected (on master only)	blink.	no	automatic when the
UX.	the slave is not controlled	DIIIIK.	no	condition ceases
υ0	master not connected (on slave only)	blink.	no	automatic when the
00	, , , , , , , , , , , , , , , , , , , ,	DIIIIK.	no	condition ceases
	the slave is released from the network and operates			condition ceases
ما	autonomously	Jalia I.		manual as assistant
dx	slave x download failed(on master only)	blink.	no	manual or automatic when the condition
]		ceases

^(*) There is no reading on the display.

During operation, in specific conditions the following signals are displayed:

^(**) Network alarms are where, subsequent to programming, the alarm command is communicated from the master to all network devices, in the event that the alarm relay is triggered on the master itself



Code displayed	Description	Notes
OFF	unit in stand-by (operation disabled)	remains until the next ON command
dF	defrosting in progress	see par. "ddL"
dFu	defrosting not performed	displayed for 2 seconds when the defrosting command is not performed because the evaporator temperature is already above the defrosting end temperature (parameter dst)
υM	master unit	at switch on, the network configuration of the unit is
υSx	slave x unit	displayed
Cn	terminal/control connection interrupted	the terminal is not receiving data from the control

If the terminal/control connection does not operate correctly at switch on, the terminal display will read "88,8" and the LEDs will all be switched off.

EMERGENCY SYSTEM

PLEASE NOTE: A specialist technical engineer must only perform the operations described here below.

If the electronic control unit breaks down or presents operating anomalies and it is impossible to replace it immediately, there is an EMERGENCY SYSTEM that can be used to maintain the unit in operation until it can be replaced.

To use this system, proceed as follows:

- 1. Cut off power to the Blocksystem
- Remove all jumpers between the L terminals and the common contacts of the card relays (terminals 25-28-33-36-38)
- As shown in the diagram, connect a thermostat between the L terminal, the NO terminals (terminals 32,37) and the NC terminal (terminal 34) of the compressor, defrosting and fan relays (COMP, DEF and FAN)
- Fit a jumper between the L terminal and the NO terminal of the ON/OFF relay (terminal 26 supplying power to the crankcase heaters, door and waste, where fitted).
- Connect the Blocksystem back to the mains power, setting the thermostat to the required temperature.
- PLEASE NOTE: This connection can only be used momentarily. Contact your dealer as soon as possible to replace the malfunctioning card.
- 7. PLEASE NOTE: Defrosting will be cut out for the entire emergency phase and for this reason, we recommend that cold room door opening be kept to a minimum.
- 8. When fitting the new control unit, restore all of the connections described in points 2,3,4 and 5.



