

ModaSPACE – Installation Guide



NORBEC SYSTEMS INC.

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**** ATTENTION ****

PLEASE READ PRIOR TO INSTALLATION & START UP

TABLE OF CONTENT			
Reception of Product			
1	Important	3	
2	Steps to follow at delivery in case of short shipment or damaged product	3	
3	Steps to follow if concealed damage is found	4	
4	Steps to follow at carrier's inspection	4	
5	Steps to follow after inspection	4	
6	Steps to follow before installation	4	
Installation Instructions			
7	Walk-in placement	5	
8	Surface preparation	6	
9	Panel installation	6	
10	Electricity	8	
11	Refrigeration	8	
12	Options	8	
13	Appendix (Responsibility, I3, Intelliref V2 Cooler and Freezer)	9	

RECEPTION OF PRODUCT

1. **IMPORTANT:**

- 1.1 Keep all proof of delivery
 - Bills of lading
 - Shipping lists
 - Lists of crates and panels
 - Carrier paperwork

2. STEPS TO FOLLOW AT DELIVERY IN CASE OF SHORT SHIPMENT OR DAMAGED PRODUCT:

- 2.1 Verify the count
 - Make sure you have same number of crates or boxes as the number indicated on your ship list coupon.
 - If there is a discrepancy, duly note it on the carrier paperwork.
 - Ask carrier to indicate it on your copy.
- 2.2 Examine the state of each crate or box and make sure nothing is damaged
 - e If damages are visible, note it on the shipping papers and ask carrier to note it on your copy.
 - If it appears that the material is damaged within the truck, insist that it be opened right away.
 - The carrier and receiver must inspect it.
 - All concealed damages must be noted on the ship list.
 - Make sure to keep your copy.
- 2.3 Immediately after delivery, open all boxes and inspect them for concealed damage
 - 2.3.1 Even though the driver has already left, all boxes should immediately be opened and all the contents inspected for possible concealed damage.

3. <u>STEPS TO FOLLOW IF CONCEALED DAMAGE IS FOUND:</u>

- 3.1 Hold damaged items
 - 3.1.1 All damaged items along with their crating, wrapping and any related material must be kept at delivery point until inspection is done by carrier's inspector.
- 3.2 Contact carrier to signal damaged goods and to request an inspection
 - 3.2.1 The call must be made immediately after damage is found.
 - Under no circumstance should the call exceed 15 days from original product reception.
 - No claim for concealed damage will be accepted after 15 days.
- 3.3 Confirm damage call to carrier by a written statement
 - **3.3.1** For your protection you should always follow the call to the carrier with a written notification.
 - Make sure to keep a copy of your letter.

4. STEPS TO FOLLOW AT CARRIER'S INSPECTION:

- 4.1 Make sure that damaged items are in reception/delivery zone
 - 4.1.1 Make sure that no damaged items were moved from the original reception zone where the problem was originally found. Allow inspector to check damaged items, crates or boxes and bill of lading.
 - All original carrier reception documents will be required to support the claim.
- 4.2 When inspection is report complete, read thoroughly before signing
 - 4.2.1 If you do not accept inspector's conclusions, do not sign the inspection report.
 - Please make sure that the inspector indicates complete replacement of damaged goods on his report.
 - A new item can only be ordered if report states « REPLACEMENT ».

5. STEPS TO FOLLOW AFTER INSPECTION :

- 5.1 Store damaged products in a secure location at site
 - 5.1.1 Even if inspection is completed, the damaged items must not be used or eliminated without written permission from carrier.
- 5.2 Do not return damaged products to the carrier
 - 5.2.1 The return of any merchandise cannot be done without the authorization of the supplier.
- 5.3 Keep carrier receipt if they pick up the items
 - 5.3.1 If the merchandise is recuperated by the carrier, ensure you have the carrier's receipt at time of pick up.

6. STEPS TO FOLLOW BEFORE INSTALLATION :

6.1 Make sure that all material is received according to shipping list

97 D	èmes Norbec e Vaudreuil herville Québ da		7				Phone: 450-449-1499 Fax: 450-641-4657 Page 1 of Sales Order #
					Packi	ng S	lip
Bill to						Ship to	
Conta						Contac Phone	
Phone Fax:	90					Fax:	-
	PO:			Sł	ipVia:		FOB:
	Ship date:			Packir	g Slip:		Sales Person:
Line	Planned Qty		Ship Qty	Backorder	Part Number	Rev.	Description
2	1,00	un/ea	1,00		0902-0000		Ensemble porte & cadre sur mesure
3	1,00	un/ea	1,00	0,00	0705-0000	2	Rideaulamelle - Congélateur - Montage mural
4	3,00	un/ea	3,00	· · ·	0606-0000		Assemblage de trappe témoin pour cavité d'air
5	3,00	un/ea	3,00	0,00	0606-0000	1 01	Assemblage ventilateur PSC

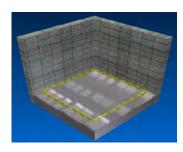
6.1.1 The shipping list is in a transparent envelope stack to the side of your crate or pallet.

6.1.2 If items are missing, contact Norbec's customer service.

INSTALLATION INSTRUCTIONS

7. WALK-IN PLACEMENT

- 7.1 Determine exact walk-in location with customer.
- 7.2 Trace exterior placement of walls as indicated on your assembly drawing.
 - When tracing, it is important to respect the minimal spacing (2") between walk-in and building walls.
- 7.3 Make sure there are no interferences within the area where the walk-in will be located (width, length, height).



8. SURFACE PREPARATION



- Make sure surfaces are clean and dry.
- Make sure installation surface is levelled (Max ¼" at 10').
- 8.1 For rooms with insulated floors, adjustment of installation surface must be made by pouring self leveling concrete

- 8.2 In case of a floorless room, the levelling adjustment must be within floor screeds supplied by Norbec.
 - Installation of screed may be done directly on the floor following instruction details supplied with the cold room.
- 8.3 If it is impossible to level the floor, make sure all panels are installed following the same plane.

9. PANEL INSTALLATION :

IMPORTANT

- Sharp edges may be present on some panels. Gloves should be worn when installing panels.
- Allow 12 hours before using your cold-room.

9.1 GÉNÉRAL

- 9.1.1 A two- person crew is preferable to install a walk-in. Some panel may be too long or heavy to be handled alone
- 9.1.3 Before installing a panel, make sure the plastic protective adhesive film is removed.
- 9.1.4 The installation system requires the use of a hexagonal key supplied by Norbec.
- 9.1.5 When installing panels, it is preferable not to tighten all cam-locks of the panel when positioning it.
 - Only tighten one per axis. This will allow panel adjustment.
 - Finish tightening of all cam-locks when all panels are in place.
- 9.1.6 Except if otherwise indicated on assembly drawings, Norbec panels are designed to have cam-lock fasteners on the inside of the walk-in.

9.2 BASE

- 9.2.1 For room with insulated floor, install floor panel (numbered B...) following the assembly drawing supplied with your installation kit. As mentioned on 8.2, floor leveling is critical.
- 9.2.2 For a floorless room, apply construction adhesive (supplied by Norbec) on the floor as indicated on the assembly drawing. Make sure that there are no air pockets between the screed and the floor.
 - As per details, fix the screed to the floor with appropriate fasteners and follow the required spacing.
 - Screed junctions must be filled with silicone to ensure air tightness.
 - Cut screeds at a 45-degree angle at corners.

9.3 WALLS

- 9.3.1 For room with insulated floor, install wall panel in the floor panel grooves designed to receive wall panel tongue.
- 9.3.2 For floorless room, make sure each panel is leveled or follow the same angle. If the shimming of the panel tends to be too high, apply spray foam insulation between the screed and floor to fill the gap.
- 9.3.3 Position first wall panel (numbered M...).
 - You should start by a corner panel.

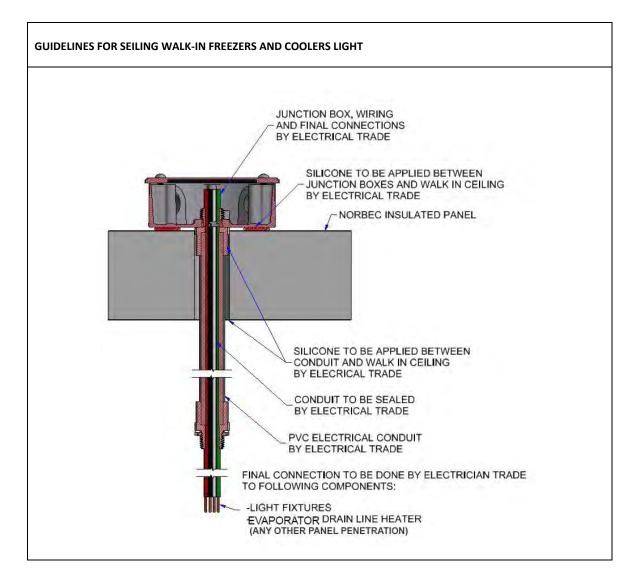
- Second panel will fit perpendicularly into first panel, this will give strength and stability to the assembly and facilitate the wall installation.
- 9.3.4 If final assembly is a two-room combination, make sure to start with the shared wall of the combination walk-in.
- 9.3.5 Continue assembly of all panels as per assembly drawing.

9.4 CEILING

- 9.4.1 Install ceiling panels (numbered T...) following assembly drawing.
- 9.4.2 If plan indicates ceiling suspension points, you should install suspension at each panel as they are installed.
 - For suspension installation details, refer to details on assembly drawing.
- 9.5.1 Once all panels are in place, tighten all cam-lock fasteners.

9.5 FINITION

- 9.5.2 Install the caps on top of all cam-lock openings. Use white caps on white surfaces and grey caps on grey surfaces.
- 9.5.3 Apply silicone at all panel junctions (ceiling, floor, walls), inside and outside where possible.
 - Silicone must also be applied along all floor screeds.
 - Silicone may be required at other areas; if so it will be indicated on assembly drawings.
- 9.5.4 In the case of an NSF approved room, step 9.5.3 is not required.
- 9.5.5 Complete the form titled **Quality Control for Walk-In and Refrigeration Installation** and send it back as indicated.



10. ELECTRICITY :

- 10.1.1 A certified electrician must make the electrical connection(s) between walk-in and building electrical systems.
- 10.1.2 The lights may be shipped uninstalled on ceiling panels. This detail may apply to the majority of panel penetrations.
- 10.1.3 If an intelligence module is supplied or a part must be replaced, please refer to **Appendix.**

11. **REFRIGERATION** :

11.1.1 All types of refrigeration system must be installed by a certified refrigeration specialist.

12. OPTIONS :

If other options have been requested, the installation must be made as per details on the assembly drawing.

YOUR RESPONSIBILITY WHEN RECEIVING FREIGHT

SAVE ALL DELIVERY RECEIPTS

1 - STEPS TO TAKE AT TIME OF DELIVERY TO PROTECT AGAINST LOSS OR DAMAGE

A. VERIFY COUNT -

Make sure you are receiving as many cartons as are listed on the delivery. If any shortage is discovered, note exactly how many cartons are short on the carrier's delivery receipt and have the driver note the shortage on your copy.

B. CAREFULLY EXAMINE EACH CARTON FOR DAMAGE -

If damage is visible, so note this fact on the delivery receipt and have the driver clearly note that fact on your copy. If carton has appearance that contents inside may possibly be damaged, insist that it be opened right at that time, and both you and the driver should make joint inspection of the contents. Any concealed damage discovered should like wise be noted on the delivery receipt and on your copy. Be sure to retain your copy.

C. IMMEDIATELY AFTER DELIVERY, OPEN ALL CARTONS AND INSPECT FOR CONCEALED DAMAGE -

Even though driver has already left, all cartons should immediately be opened and the contents inspected for possible concealed damage.

2 - STEPS TO TAKE WHEN VISIBLE OR CONCEALED DAMAGE IS DISCOVERED

A. RETAIN DAMAGED ITEMS -

Not only must the damaged items be held at the point where received, but the containers and all inner packing materials must be held until an inspection is made by a carrier inspector.

B. CALL CARRIER TO REPORT DAMAGE AND REQUEST INSPECTION -

The call should be placed immediately upon discovery of the damage, but under no circumstances should it be put off longer than 15 days after delivery. Failure to report concealed damage within this 15 day period will almost certainly result in the carrier denying your claim.

C. CONFIRM CALL IN WRITING -

Although this is not a mandatory requirement, for your own protection in establishing the fact the carrier was notified within the 15 day period, we strongly recommend that all calls be confirmed in writing. Be sure to retain a copy of your letter.

3-STEPS TO TAKE WHEN CARRIER MAKE INSPECTION OF DAMAGED ITEMS

A. HAVE DAMAGED ITEMS IN RECEIVING AREA -

Make certain the damaged items have not been moved from the receiving area prior to discovery of the damage. Allow inspector to inspect damaged items, cartons, inner packing materials and freight bill. Be sure to retain your delivery receipt – it will be needed as a supporting document when claim is filed.

B. AFTER INSPECTOR FILLS OUT INSPECTION REPORT, CAREFULLY -READ IT BEFORE SIGNING

If you do not agree with any facts or conclusions made by the inspector on the report, do not sign it. Unless repairs will be completely satisfactory, be sure the inspector requests replacement **on the inspection report.** A new item can be ordered only if the inspection report specifies "REPLACE".

4 - STEPS TO TAKE AFTER INSPECTION HAS BEEN MADE

A. CONTINUE TO RETAIN DAMAGED MERCHANDISE -

Even thought inspection has been completed, damaged items cannot be used or disposed of without written permission from the carrier.

B. Do Not Return Damaged Items To Shipper -

Return of such items should not be made without written authorization of the supplier.

C. SECURE RECEIPT FROM CARRIER IF DAMAGED ITEMS ARE PICKED UP FOR SALVAGE -

If your surrender damaged merchandise to a carrier for salvage because it is valueless to you, be sure to secure a receipt from the driver when it is picked up and retain that receipt.





INTELLIGENCE I3 OPERATING INSTRUCTIONS

OPERATING AND CONFIGURING INSTRUCTIONS





DESCRIPTION FOR EACH FEATURE

Activation & disabling the module

Before being delivered to the customer, the module is disabled. The "OFF" message is displayed on the screen. When the module is disabled, only the alarms and temperature displays are disactivated. It is always possible to control the lighting manually or automatically, with the door (See "lighting Control"). Note that all the initial parameters and those modified by the customer are stored in memory when the module is disabled.

Refer to "keypad Operation" section on how to enable and disable the module.

Temperature monitoring and display

The unit displays the temperature in degrees Celcius. Should one or more alarms be present, the display will show the temperature and the alarm message(s) alternatively.

Lighting control

The lighting is controlled two different ways;

- 1. By pressing the button on the keypad, wich will switch alternatively ON and OFF.
- By detecting the opening of the door, wich will turn the lights ON and the closing door will initiate a 5 minute countdown. The light will then go OFF after this delay.

- 1. Panic Alarm Buzzer
- 2. Battery (9 Volt) Holder
- 3. Display
- 4. High Tem alarm Button
- 5. Light Switch Button
- 6. Set Button
- 7. Low Temp Alarm Button
- 8. Up Buttom (and Mute)
- 9. Down Button
- 10. Loud annunciator
- 11. Mute Button

Temperature Alarms

These alarms are activated 45 minutes (adjustable, see «parameter descriptions» after reaching the temperature alarm settings. An audible alarm (about 55 dB) from the keypad will then occur. The display will show the message HA (High Temp Alarm) Or LA *Low Temp Alarm), alternatively with the actual temperature. The 115 Volt alarm signal will turn ON.

The High and Low temperature alarm setting and the acivation delay can be modified in the parameters menu.

Door Open Alarm

If the door remains open for more than 15 minutes (adjustable, see « parameter descriptions»), this alarm is triggered and an audible alarm from the keypad will occur. The display will show the message dA (Door Open Alarm), alternatively with the actual temperature. The 115 Volt alarm signal will turn ON.

NORBEC I3

DESCRIPTION FOR EACH FEATURE (Cont'd.) Panic Alarm

This alarm is triggered by an interior backlit button, besides the door opening. When pressing this button, an audible alarm (about 80 dB) from the keypad and from the external grey buzzer will occur. The display will also show the message EA (External Alarm) alternatively with the actual temperature. The 115 Volt alarm signal will turn ON. **This alarm will be active as long as the panic button is pressed.**

Note that the gray external buzzer connected to the emergency alarm is powered only by the battery backup power. It is important to periodically check the condition of the battery and the backup power. It is important to periodically check the condition of the battery and the backup power because once the battery dies, no external sound signal will be triggered with the activation of the emergency alarm push button.

Muting an alarm

Pressing the "Silent" button Son the keybord (top left), during an alarm, will mute the audible signal but the associated alarm message and the 115 Volt signal will remain until the alarm condition disappears.

OPTIONS

Alarm Annunciator

This additionnal buzzer (about 90dB) is ideally suited for hearing any of the I3 alarms in a noisy environment. It is muted independently from the keybord Buzzer, by its own Mute button. This annunciator is not supported by the back-up battery.

Note that at the request of the client on site, this additional audible warning can be surface mounted to the desired location (see I3 wiring diagrams for details). Without special request, it will be installed near the I3 Intelligence module.

Fan failure alarm

When a ventilation system circulates air in concealed spaces around the exterior of walk-in cold rooms, optional sensors can be supplied to monitor the presence of air flow on each blower. If air flow stops, the system triggers an audible alarm and displays a message on the keypad. The display will also show the message EA (External Alarm) alternatively with the actual temperature. Without grey external alarm (Different from Panic Alarm).

The 115 Volt alarm signal will be active as long as the failure exists. When this alarm is ON, the Alarm LED on the left of the display will ON.

Battery back-up

The 9 Volt battery holder is located just above the controller. In normal condition, an alkaline battery should maintain the temperature display and the alarm messages in operation during power outages for 24 hours, depending on the battery condition. As this battery is not rechargeable, it shall be replaced yearly or every time there is a power outage lasting more than one hour.

The battery only supports the controller display and the local Panic Alarm, Via the grey buzzer. This battery's condition must be checked periodically.

The external 115 Volt alarm signal is not supported by this battery back-up. If it is a requirement to have an external alarm signal on power outages, the Dry Contact signal option, with proper parameter settings, is required to achieve this functionality.

Three way switch for lighting

This option allows to control lighting through two different doors. The three-way switch for lighting can be in automatic of manual mode. For each lighting mode, cable configurations and, positioning of hardware and disctinct metrication is required. You must refer to the 13 wiring diagrams for the proper electrical connection according to the lighting mode selected. By default, the three-way witch is in automatic mode. The configuration in three ways manual mode is only on demand.

Noe that the open door alarm will be disabled with the three-way switch for manual lighting.

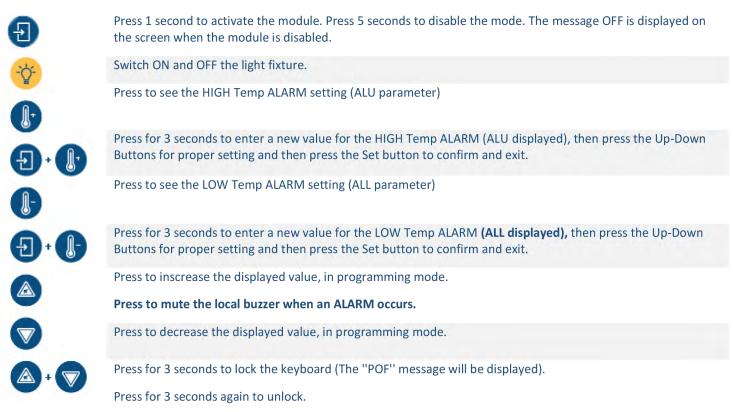
Dry Contact for External Alarm signal

The standard external alarm is a 115 Voltsignal. As an option, It can be converted to a dry contact (Normally Closed) that opens an alarm signal (see I2 wiring diagrams for more details). This option also includes a normally open contact if it needs to be.

Glycerin Immersion

Having the temperature probe immersed in glycerin prevents rising temperature readings and false temperature alarms due to the opening of the door.

KEYPAD OPERATION



Silencing buzzer

Once the alarm signal is detected, the buzzer can be muted by pressing the ⁽¹⁾ key. The alarm message and the 120V message will be displayed until the alarm condition is reset.

PARAMETERS SETTING

- 1. Enter the Programming Mode by pressing the keys for 3 seconds and the LED $\frac{1}{2}$ will start blinking.
- 2. Select the required parameter by using the $\bigcirc^{\circ r} \bigtriangledown$ keys.
- 3. Press the 🕑 key to display its value (now only the LED 🧡 is blinking).
- 4. Use to change its value
- 5. Press 🕑 to store the new value and move to the next parameter.
- **To exit:** Press or wait 15 seconds without pressing a key.

NOTE: The set value is stored upon its recording, even when the procedure is not completed by exiting the configuration menu.

NORBEC I3

The factory settings are as follows:

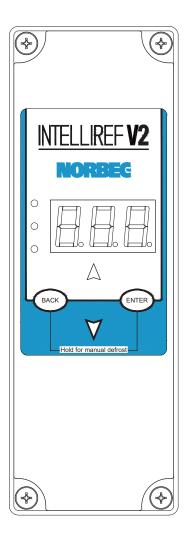
PARAMETER	DESCRIPTION	PRESET VALUE (By default)	RANGE
ALU	High temperature alarm setting	C:6°C F:-12°C	« ALL » value to 150°C
ALL	Low temperature alarm setting	C: 0°C F: -25°C	-50°C to «ALU» value
Ald	Temperature alarm delay	45	0 — 255 (min)
LHt	Light timer, start after door closing	5	0 — 255 (min)
doA	Door open alarm delay (timer start after door opening)	15	0 — 255 (min)
Ot	Temperature probe calibration	0	- 12°C à 12°C

ALARM MESSAGE DESCRIPTIONS

MESSAGE	MODE	CAUSE
P1	Flashing	Probe failure
PoF	Flashing (3s)	Keyboard locked
Pon	Flashing (3s)	Keyboard unlocked
НА	Alternated with temperature	High Temperature Alarm
LA	Alternated with temperature	Low Temperature Alarm
dA	Alternated with temperature	Door open Alarm
EA	Alternated with temperature	Panic Alarm (Message and gray signal alarm) Or
		Fan failure alarm (message only)
Pan	Alternate with temperature	Serious external Alarm



INTELLIREFV2 COOLER CONTROLS AND SETTINGS



Indicator lights	Red Blinking - the Real Time Clock battery needs replaced Yellow light - non-critical alarm (system running) Green light - compressor on Green blinking - compressor waiting on timer to start / stop				
tS (temperature setpo	e by pressing and holding the ENTER button until int) displays on the screen.				
Use the \bigwedge up and \bigvee Press (ENTER) to view	Use the \bigwedge up and \bigvee down arrows to scroll through the available setpoints.				
Use the \bigwedge up and \bigvee the digits to accelerate	to change the setpoint, Press ENTER to move between the changes.				
Press enter and hold	d to confirm each setpoint change.				
Press BACK to escap	De.				

KE2 Temp + Defrost NORBEC: 0419-00078 (KE2: 20611)

Basic Setpoints

Setpoint	Description	Minimum	Default	Maximum
tS	Temperature Setpoint	-50°F (-45°C)	2 C°	100°F (38°C)
diF	Differential	1°F (1K)	1 C°	30°F (17K)
CSH	Maximum Compressor Starts/Hour	5 (Off)*	6	10
dPd	Defrost Per Day	0	6	12, CUS**
dFt	Defrost Time	0 min	15 min	720 min
Unt	Units for temp display	FAH / CEL	CEL	CEL

* Selecting fewer than 5 compressor starts per hour results in the starts per hour feature being turned off.The compressor will then function on temperature only.

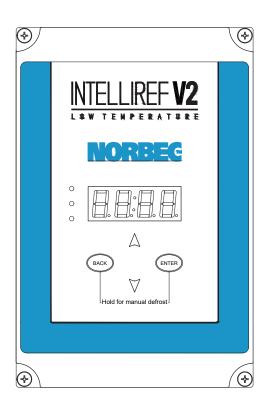
** Selecting CUS (custom) unlocks additional Setpoints. See Advanced Setpoints table.

Service Call Saver - Post Defrost Indicator

To eliminate unnecessary/unwarranted service calls, the KE2 Temp + Defrost alerts the user when it is coming out of a defrost cycle using the onboard display. The display alternates between dEF and the actual temperature measured by the air sensor. This continues until temperature has reached setpoint, or for the amount of time set by dFt (Defrost Time) whichever is shorter.



INTELLIREFV2 FREEZER CONTROLS AND SETTINGS



	 Red Blinking - Basic Menu - not used; Advance Menu - pulsing Yellow light - non-critical alarm (system running) Green light - compressor on Green blinking - compressor waiting on timer to start / stop
	node by pressing and holding the ENTER button until etpoint) displays on the screen.
Use the \bigwedge up an	d $ abla$ down arrows to scroll through the available setpoints.
Press ENTER to vi	ew the current setting.
Use the A up an the digits to accele	d \bigvee to change the setpoint, Press (ENTER) to move between the changes.
Press ENTER and	hold to confirm each setpoint change.
Press BACK to es	scape.

KE2 Low Temp + Defrost NORBEC: 0419-00079 (KE2: 20903)

Basic Setpoints

Setpoint	Description	Minimum	Default	Maximum
tS	Temperature Setpoint	-50°F (-45°C)	-18 C°	100°F (38°C)
diF	Differential	1°F (1K)	2 C°	30°F (17K)
CSH	Maximum Compressor Starts/Hour	5 (Off)*	6	10
dtyP	Type of Defrost, Air or Electric	Air	Elec	Elec
dPd	Defrost Per Day	0	4	12, CUS**
dtsP	Defrost Term Temperature Setpoint	-	15 C°	-
dFt	Defrost Time	0 min	45 min	720 min
drnt	Drain Time	0 min	2 min	15 min

* Selecting fewer than 5 compressor starts per hour results in the starts per hour feature being turned off.The compressor will then function on temperature only.

** Selecting CUS (custom) unlocks additional Setpoints. See Advanced Setpoints table.