

VECTOR 8600MT

Multi-Temp Trailer Refrigeration Units

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DISPLAY





Display Screens





Display Screens - CONTINUED

LCD DISPLAY SCREENS



- 1. Status Bar
- 2. Box Temperature
- 3. Compartment (C1, C2, or C3)
- 4. Setpoint
- 5. MessageCenter

ALTERNATE SCREEN (Auto Scroll)

There are two available display options, Split Screen (see previous page) and Auto Scroll (above). Split Screen, which is the default, shows each compartment Setpoint & Box Temperature in one view. Auto Scroll, which is similar to the standard APX Single Temp display, shows one compartment Setpoint & Box Temperature in each view; the screen automatically changes views to display each active compartment. Only compartments that are turned ON will be displayed. To change between Split Screen and Auto Scroll:

- 1. Press and release the "MENU" key until the "LANGUAGE/VIEW" soft key is displayed.
- Press the "LANGUAGE/VIEW" soft key to open the LANGUAGE/ VIEW screen.
- 3. Press the ♥ or ▲ key to highlight "VIEW:", and press the "=" Key. The current view option will be highlighted.
- Press the ▼ or ▲ key to toggle between AUTO SCROLL and SPLIT SCREEN, press the "=" Key to select either display option.



5. Press the "EXIT" soft key to return to the selected display.

NOTE: Display screen examples in this manual use the default Split Screen view.



STARTING UNIT





STARTING UNIT - CONTINUED

- 3. If there is an alarm present, the alarm message will be displayed in the MessageCenter and the alarm LED will flash for 5 seconds. If one or more shutdown alarms are present, the alarm(s) must be cleared before the unit will start.
- 4. If the unit is to be switched from Engine Operation to Electric Operation or from Electric Operation to Engine Operation refer to SWITCHING OPERATING STATE on the next page. Once the unit is operating in the desired state, observe the MessageCenter. If the word "ACTIVE" or "MODIFIED" is displayed at the right, the unit is equipped with IntelliSet. Proceed to page 9. If "ACTIVE" or "MODIFIED" is not displayed, proceed to page 11.
- 5. If the LCD Display does not illuminate, check:
 - Battery voltage. A booster battery may be needed.
 - Check for blown fuse(s).
 - Verify the harness connector at the back of the display module and all other module connectors are securely attached.



SWITCHING OPERATING STATE





SWITCHING OPERATING STATE - CONTINUED

ENGINE TO ELECTRIC

- 1. If the standby electric cable is not already in place, ensure the external power circuit breaker is OFF, and connect cable to unit receptacle
- 2 Turn the external circuit breaker ON.
- 3. Press and release the MENU key until the STANDBY soft key is displayed.



- Press the STANDBY soft key, the STANDBY & DIESEL soft keys will display.
- Press the STANDBY soft key to place the unit in Electric Operation. The unit will stop, the status bar will change to ELECTRIC and the unit will restart in Electric Operation.

ELECTRIC TO ENGINE

restart in Engine Operation.

1. Press and release the MENU key until the STANDBY soft key is displayed.



4. If the standby electric cable is in place, and will not be needed, ensure the external power circuit breaker is OFF, disconnect the cable from the unit receptacle and hang up off the ground.



Products carried or stored in a refrigerated compartment require a multitude of refrigerant unit settings that must be checked and, if required, reset each time a new product is loaded. The APX Control System offers the settings necessary to meet these requirements. IntelliSet is a feature that allows pre-selection and naming of the necessary settings for over 40 different products. The operator may then call up the settings by simply selecting the assigned IntelliSet name.

For example: a load of apples may require continuous operation at 35°F (1.7°C) with a defrost every 3 hours while a load of cheese may require the same operation with setpoints ranging from 35°F to 42°F (1.7°C to 5.6°C) and a load of ice cream requires start-stop operation at -22°F (-30°C) with defrost at 12 hour intervals. The settings required for each product may be entered into the system and locked so that they cannot be changed, and they can be given an appropriate name. In the case of cheese, the range of setpoints may be locked, leaving the operator the ability to change the setpoint within the locked range.

When a load of apples is going to be picked up, the operator simply selects "APPLES" from the IntelliSet menu; for cheese, "CHEESE" is selected and the setpoint reset as required; for ice cream, "ICE CREAM" is selected. With each selection, the system automatically re-programs the settings to provide the best temperature control, fuel economy, and performance for that particular product.

NOTE: The above settings are examples of possible settings. Units leave the factory with default IntelliSets. However, most customers develop their own set.

An IntelliSet may be pre-programmed as "IntelliSleep" which allows Sleep Mode to be entered by simply changing to that IntelliSet. Range Protect may be applied to any single IntelliSet. Range Protect offers increased fuel savings over normal Start-Stop Operation for commodities that can use less restrictive temperature control.



CHANGING INTELLISET SELECTION

1. With the system powered up (START/RUN-OFF switch in the START/RUN position) and the default screen displayed, press the "=" key. If the screen shown just above step 3 below is displayed, proceed to step 3. Otherwise, proceed to step 2.



2. Press the MENU key until INTELLISET is displayed. Then, press the INTELLISET soft key to display the IntelliSet screen.



- 3. The IntelliSet screen will display with a 15 second timeout and five of the available IntelliSets listed. There may be more than five IntelliSets available. This information is provided, in parenthesis, on the first line. For example, in the preceding illustration there are seven IntelliSets available and the second IntelliSet is highlighted. Press the ▲ or ▼ key to scroll through the list of available IntelliSets. The IntelliSet that is currently selected will have the word "ACTIVE" or "MODIFIED" to the right.
- 4. To change to another IntelliSet, press the ▲ or ▼ key to scroll through the list and highlight the IntelliSet desired. Press the "=" key. The highlighted IntelliSet will become active and an "INTELLISET CHANGED" message will display.
- 5. Press the EXIT soft key to return to the default display.

NOTE: if setpoint change is allowed, refer to Page 15 for setpoint change instruction.



PRETRIP

Pretrip is a set of tests run by the system to check unit operation. It is recommended that a Pretrip is run prior to loading the refrigerated compartment. It will indicate a failure if one is detected.



to page 23). To return to Pretrip, press the BACK soft key.



PRETRIP - CONTINUED





TURNING COMPARTMENTS ON/OFF





TURNING COMPARTMENTS ON/OFF - CONTINUED

Individual compartment control status & temperature display boxes are configured left to right to match the compartments in the trailer, front to back. The left display box shows the status of the first compartment (C1), the middle display box shows the status of the second compartment (C2), and the right display box shows the status of the third compartment (C3); in a two compartment configuration, the right display box is blank.

The default display screen uses a highlight box to allow control of individual compartments. The highlight box will toggle between each of the compartments that are currently ON. If only one compartment is ON, the highlight box will remain on that compartment.

- With the system powered up (START/RUN-OFF switch in the START/RUN position) and the default screen displayed, press the"=" key to open the ON/OFF display.
 - If a compartment is currently OFF, the corresponding soft key will display "ON".
 - If a compartment is currently ON, the corresponding soft key will display "OFF".
- 2. To turn a compartment ON, press the "ON" soft key.
- 3. To turn a compartment OFF, press the "OFF" soft key.



CHANGING SETPOINT





CHANGING SETPOINT - CONTINUED

- With the system powered up (START/RUN-OFF switch in the START/RUN position) and the default screen displayed (press the BACK or EXIT soft key if required), and the correct compartment highlighted:
- Press the ▲ or ▼ key to bring the displayed setpoint to the desired value.

TIP: The setpoint will change one degree (or 0.1 degree, if configured to do so) with each press and release of an arrow key or the setpoint will scroll if the key is pressed and held.

- 3. Press the "=" key to save the new setpoint. The MessageCenter will display "SETPOINT CHANGED" for 10 seconds.
- If the "=" key is not pressed the setpoint screen will flash, the MessageCenter will display "SETPOINT NOT CHANGED" and then return to original setpoint.

NOTE: The setpoint range is from -22°F to +90°F (-30°C to +32°C). This range may not be fully accessible, depending on the settings for this system. If the message "MAX SET-POINT HAS BEEN REACHED" or "MIN SETPOINT HAS BEEN REACHED" is displayed, the setpoint range has been locked and can not be changed outside the range.



START-STOP / CONTINUOUS OPERATION





START-STOP / CONTINUOUS OPERATION - CONTINUED

- 1. With the system powered up (START/RUN-OFF switch in the START/RUN position) press the START-STOP/CONTINUOUS key until the desired operation (Start/Stop or Continuous) is highlighted.
- 2. The message ("START/STOP MODE SELECTED" or "CON-TINUOUS RUN MODE SELECTED") will be displayed in the MessageCenter for 10 seconds.
- 3. The operation indication in the status bar will no longer be highlighted. The unit is now in the displayed operation.

NOTE: If the message "CONTINUOUS LOCKED" or "START/STOP LOCKED" is displayed, the system is currently locked into the displayed operation and cannot be changed using the "START/STOP - CONTINUOUS" key.



DATA RECORDER





DATA RECORDER - CONTINUED



f = Power down t = Trip Start



MANUAL DEFROST





LANGUAGE SELECTION





UNIT DATA





UNIT DATA - CONTINUED





ALARM LIST - VIEW ALARMS



- 1. With the system powered up (START/RUN-OFF switch in the START/RUN position) press the ALARM key.
- If there are active alarms, the alarm number will be displayed preceded by the letter "A" (active alarm). The system may also be Configured to display an alarm description, following the alarm number. The last alarm that occurred will be the first alarm displayed and so on.
- 3. Next to the ACTIVE ALARMS screen name in the status bar, information on the total number of alarms and the position in the list of the highlighted alarm is provided. (In the preceding illustration there are 5 alarms and the second alarm is highlighted.)
- 4. Press the \blacktriangle or \checkmark key to scroll through the list of alarms.
- To clear the alarms, press the CLEAR ALARMS soft key. The LCD Display will provide an "ACTIVE ALARMS CLEARED" message and then return to the default display after 10 seconds.
- If there are no active alarms, the LCD Display will provide a "NO ACTIVE ALARMS" message and then return to the default display after 5 seconds.



VIEW HOUR METERS





STOPPING UNIT



TIPS

Carrier Transicold wants you to get optimum performance from your refrigeration unit. The way to get that performance is to review the following checklist before each trip. Do this and you'll be well on your way to ensuring maximum refrigeration efficiency with a minimum of trouble.

- Examine interior and exterior of the refrigerated compartment for door, door seal and wall damage.
- Floor and floor drains should be clear of debris and drain kazoos installed.
- Evaporator drains should be clear of debris and drain kazoos installed.
- Use pallets and follow proper loading instructions, such as the United States Department of Agriculture Handbook 669, for maximum air circulation.
- Run Pretrip.
- Precool refrigerated compartment and cargo. Initiate a manual defrost before loading.

In an emergency, call Carrier Transicold Action Line 1-800-448-1661.



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