



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB02-0006

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Subject: THE –AAC CONTROLLER EXPLANATION

This service bulletin will discuss the details of the control module menu for the –AAC SAFETEMP reach-in line. The refrigerator and freezer use different controllers therefore the menus are different.

To access the menu on either the freezer or refrigerator depress the “°F” key and the “down” arrow key at the same time and then release the screen will go blank for 2 seconds and then the following menus will be displayed.

To advance to the next display press “°F”. To store changed settings, you may either advance through all menus by depressing “°F” until you return to cabinet temperature, or you may press “SET”. Either procedure will store changed settings and return to the cabinet temperature.

-AAC Refrigerator Models

- 1st Command:
 - “dIF” Indicates next display is cabinet differential setting
 - “-05” Indicates cabinet differential is set for -5°F Factory default for refrigerator is -5°F
- 2nd Command:
 - “HI” Indicates the next display is the maximum allowable setpoint
 - “55” Indicates a maximum allowable set point of 55°F Default for refrigerator is 55°F
- 3rd Command:
 - “LO” Indicates the next display is the minimum allowable setpoint
 - “37” Indicates a minimum allowable set point of 37°F Default for refrigerator is 37°F
- 4th Command:
 - “CAL” Indicates the next display is for calibration of the thermistor.
 - “XX” When replacing thermistor, place thermistor end in an ice water bath of 32°F and confirm that the display reads 32°F. If not adjust setting.

- 5th Command:
 - “dEF” The next series of displays refer to the defrost initiation temperature
 - “In1” The next display shows initiation temperature
 - “13” Defrost will initiate at 13°F. Factory default for refrigerators is 13°F
- 6th Command:
 - “dEF” The next series of displays refer to the defrost termination temperature
 - “End” Next display shows defrost termination temperature
 - “40” Defrost will terminate at 40°F. Factory default for refrigerators is 40°F
- 7th Command:
 - “SH0” The next series of displays refer to the Short Cycle Protection
 - “CyC” Minimum time Compressor must remain OFF
 - “02” 2 Minute minimum OFF time
- 8th Command:
 - “COI” The next series of displays refer to the temperature of the defrost sensor
 - “SEn” The next display shows actual defrost thermistor temperature
 - “20” Actual temperature of the defrost sensor in °F

WARNING

This unit has been tested with its default settings. Under normal conditions the only value that should be adjusted is the Setpoint

SET POINT ADJUSTMENT

The following steps will explain how to adjust the temperature set point on the –AAC series Refrigerators.

1. Press “Set” on the control module
2. The display should now read SP1
3. Press “Set” again
4. Display should now read Current Set point
5. Use the UP/Down arrow keys to change set point
6. Press “Set” to store. If no button is pressed in 15 seconds, the display will go to normal and the set point will remain unchanged.

Set point is the temperature that the compressor will come on. For Refrigerators the differential is -5°F for the compressor to turn off. The adjustable set point range for the Refrigerators is 37°F to 55°F

-AAC Freezer Models

- 1st Command:
 - “dIF” Indicates next display is cabinet differential setting
 - “-06” Indicates cabinet differential is set for -6°F Factory default for freezer -6°F
- 2nd Command:
 - “HI” Indicates the next display is the maximum allowable setpoint
 - “28” Indicates a maximum allowable set point of 28°F Default for freezer is 28°F
- 3rd Command:
 - “LO” Indicates the next display is the minimum allowable setpoint
 - “-10” Indicates a minimum allowable set point of -10°F Default for refrigerator is -10°F
- 4th Command:
 - “CAL” Indicates the next display is for calibration of the thermistor.
 - “XX” When replacing thermistor place thermistor end in an ice water bath of 32°F and confirm that the display reads 32°F. If not adjust setting.
- 5th Command:
 - “dEF” The next series of displays refer to the defrost frequency
 - “Int” The next display shows defrost interval
 - “6” Defrost frequency in hours (ex. 1 Defrost cycle every 6 hours)

Note: The defrost frequency can be adjusted by using the up and down arrow keys. You must cycle through the remaining steps in this menu before any changes will be recognized.

- 6th Command:
 - “dEF” The next series of displays refer to the maximum allowable time for defrost
 - “dur” The next display shows maximum defrost duration
 - “60” Equals 60 minute maximum Defrost
- 7th Command:
 - “dEF” The next series of displays refer to the defrost termination temperature
 - “HI” The next display shows the defrost temperature
 - “100” Defrost will terminate at 100°F

- 8th Command:
 - “SH0” The next series of displays refer to the short cycle protection time.
 - “CyC” Minimum time compressor must remain off.
 - “02” 2 Minute minimum OFF time.
- 9th Command:
 - “FAn” Next series of displays refer to the re-Initiation temperature of Evap. fan after defrost.
 - “HI” Next display shows the temperature that the evaporator fan will energize after a defrost.
 - “00” Default Setting is 0°F.
- 10th Command:
 - “COI” The next series of displays refer to temperature of the defrost Sensor.
 - “SEn” Next display shows actual defrost sensor temperature.
 - “20” Actual Temperature of the defrost Sensor in °F.

WARNING

This unit has been tested with its default settings. Under normal conditions the only values that should be adjusted are the Setpoint and Defrost frequency

SET POINT ADJUSTMENT

The following steps will explain how to adjust the temperature set point on the –AAC series Freezer.

7. Press “Set” on the control module
8. The display should now read SP1
9. Press “Set” again
10. Display should now read Current Set point
11. Use the UP/Down arrow keys to change set point
12. Press “Set” to store. If no button is pressed in 15 seconds, the display will got to normal and the set point will remain unchanged.

Set point is the temperature that the compressor will come on. For Freezers the differential is -6°F for the compressor to turn off. The adjustable set point range for the Freezers is -10°F to 28°F