



**Ascend / ColdTech - Jimex Corp.**  
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## REPLACEMENT CONTROL / CONTROL REPROGRAMMING

\*If you are installing a replacement control (SF-102, or SF-104) you will need to program the control

\*If you are installing a replacement PC board (blue box) the control will already be programmed.

### To view/change setpoint:

Press and release the "SET" button. The flashing number is the set point. To change, press the "UP" or "DOWN" button until the desired set point is achieved. To save and exit, simply wait until number stops flashing.

### To change/reprogram parameters:

\*Press and hold the "SET" button for five seconds, until the control emits an audible beep - release the "SET" button. The display will now show a blinking "E1." This is the first of the adjustable settings.

\*To change to any setting, press and release the up or the down arrow until the desired setting is reached.

\*To move to the next setting press and release the "SET" button. If more than ten seconds go by without any buttons being pressed, the control will save all settings, and go back to reading the box temperature.

\*To either lock or unlock the parameter set-up mode, press and hold the down arrow while the display is reading box temperature. After ten seconds the control will emit an audible beep and the display will read "ON," indicating that settings E1 through C1 can be changed, or "OFF," indicating no settings can be modified.

\*To view the evaporator sensor temperature (freezer only), press and hold the up arrow while the display is reading box temperature.

\*NOTE: Resetting the control to "factory defaults" **does not** reset to the Jimex recommended settings and will result in incorrect settings and undesirable performance

### Jimex Recommended settings:

#### SF-104, set point -5°

\*All solid door freezers\*

E1	-10	F3	68
E2	20	F4	01
E3	10	F5	01
E4	03	F6	04
E5	00	F7	00
E6	00	F8	06
F1	40	F9	00
F2	06	C1	01

#### SF-104, set point -15°

\*All glass door freezers\*

E1	-20	F3	68
E2	20	F4	01
E3	10	F5	01
E4	03	F6	04
E5	00	F7	00
E6	00	F8	06
F1	40	F9	00
F2	06	C1	01

#### SF-102, set point 36°

\*All coolers\*

E1	36	F3	68
E2	45	F4	01
E3	07	F5	01
E4	03	F6	04
E5	00	F7	00
E6	00	F8	06
F1	30	F9	00
F2	12	C1	01

### Parameter details: (Not all controls will have all parameters)

**E1** The lowest value the end user can choose as the set point.

**E2** The highest value the end user can choose as the set point.

**E3** The differential. After reaching the set point, the compressor will turn off, and not turn back on until the box has risen this number of degrees. A set point of -5° and a differential of 10 will give an average box temperature of 0° (cycling between -5° and 5°).

**E4** The compressor start delay, the shortest amount of time between the compressor cycling off and coming back on. It also will delay the compressor from starting when the unit is plugged in.

**E5** Offset for the box temperature reading

**E6** Offset for the evaporator temperature reading

**F1** The maximum amount of time that a defrost *can* last. A defrost will last for the value set in F1 or until the evaporator sensor reads the value set in F3.

**F2** The defrost interval controls how often the unit goes into defrost. A setting of six corresponds to every six hours. In addition, the first defrost will start an F2 number of hours after the unit is first plugged in.

**F3** The defrost termination temperature value will bring the unit out of defrost before the full amount of time set in F1 has been reached if the evaporator sensor ever reaches the value set in F3.

**F4** The display during defrost. A setting of "00" will show the current box temperature as it rises during a defrost, while a setting of "01" will lock in the last temperature value before the defrost began.

**F5** Fan operation function. "00" for parallel with compressor. "01" for continues except during defrost.

**F6** Draining time. Time after a defrost ends before compressor restarts.

**F7** How the evaporator fan restarts after a defrost. "00" by time, "01" by temp.

**F8** Minute delay if "00" is selected in setting F7.

**F9** Temperature which much be reached if "01" is selected in setting F7.

**C1** The temperature display units. "00" for Celsius, "01" for Fahrenheit