

## Function Menu

| Code      | Function         | Range                 | Default |
|-----------|------------------|-----------------------|---------|
| <b>HC</b> | Heating/Cooling  | C: Cooling H: Heating | C       |
| <b>d</b>  | Differential     | 1.0°F-80.0°F          | 5.0°F   |
| <b>LS</b> | Low Temp. Alarm  | -58°F - Set Temp.     | -58°F   |
| <b>HS</b> | High Temp. Alarm | Set Temp. - 230°F     | 230°F   |
| <b>CA</b> | Calibration      | -12.0°F - 12.0°F      | 0.0°F   |
| <b>PE</b> | Delay Start      | 0-7min                | 1min    |

## Error Code

| Code        | Fault            | Solution                           |
|-------------|------------------|------------------------------------|
| <b>EE1</b>  | Sensor Error     | Check Wires or Replace Sensor      |
| <b>HH1*</b> | High Temp. Alarm | Service Condensing Unit / Clean    |
| <b>LL1*</b> | Low Temp. Alarm  | Check Probe Accuracy. Service Unit |

\* Disabled by default (Is set to highest and lowest temps for control)

## Indicator Lights

| Indicator Lamp                                                                      | Status   | Description                     |
|-------------------------------------------------------------------------------------|----------|---------------------------------|
|   | ON       | Compressor On (Cooling)         |
|                                                                                     | OFF      | Compressor Off (Cooling)        |
|                                                                                     | Flashing | Delay for set time              |
|  | ON       | Heating On                      |
|                                                                                     | OFF      | Heating Off                     |
|                                                                                     | Flashing | Delay for set time              |
| SET                                                                                 | ON       | Settings Menu / Change Settings |
|                                                                                     | OFF      | Normal Operation                |



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## Microcomputer Temperature Control

LED display temperature controller for use in refrigeration/heating applications.



Keep away from water, device is not waterproof/water resistant.

## Basic Operation

Keys: Set; Rst; UP; DOWN

|            |                                                                                                                                                                                                                                     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Set</b> | Press once to adjust temperature.<br>Press and hold to access Function Menu.                                                                                                                                                        |
| <b>Rst</b> | When in settings of either temperature or Function Menu press Rst to save and exit.<br>Resetting to defaults: turn off the Controller hold Rst for 5 seconds and press Rst to turn controller back on and restore default settings. |

Use up and down to cycle through settings.

## Specifications:

Temperature Measuring Range: -58°F - 230°F

Resolution: 0.1°F

Accuracy: +/- 2°F

Input Sensor: NTC

Output Relay: 30A (3300W 110v)

Operating Conditions: 0°F - 140°F, 20-80% Humidity

Power Consumption: <3W

Cut-out Size: 2.8" x 1.14"

Temperature Calibration:

Adjust the value up or down to satisfy the correction in temperature. Best way to do this is use a cup of ice water and adjust to 32F

Heating / Cooling Mode:

Cooling

Cooling turns on Above (Set Temp. + Differential) and turns off when reaches set temperature.

Heating

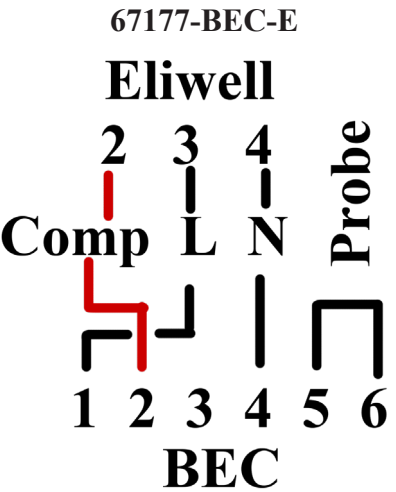
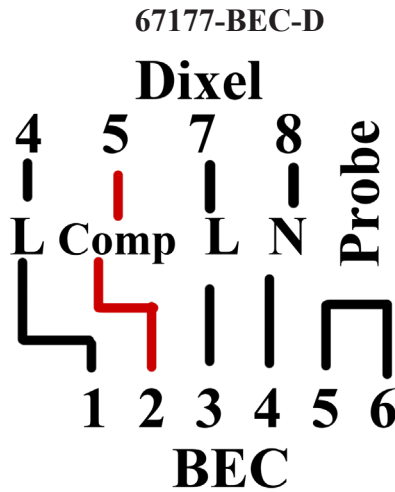
Heating turns on Below (Set Temp. + Differential) and turns off when reaches set temperature.

Delay Time: Refers to the time before the control will start normal operation after powering on.

High and Low Temperatures: are the temperature at which the control will alarm at.

Perlick Replacement

For more accurate sensing keep probe wires away from power wires.



| BEC Control | Dixel | Eliwell | Funtion         |
|-------------|-------|---------|-----------------|
| 1           | 4     | 3       | L               |
| 2           | 5     | 2       | Compressor/Load |
| 3           | 7     |         | L               |
| 4           | 8     | 4       | N               |
| 5           |       |         | Probe           |
| 6           |       |         | Probe           |

Male connectors allow using the wires from the Eliwell control to be connected to our digital control.

Place the probe into the top of the bath and down into the liquid.

Adjust control to 28F-30F.

The differential can also be adjusted down to 3 from 5 if bath temp. ranges to greatly.



Scan for more information