Function Menu

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

Error Code

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

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

Indicator Lights

Indictor 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 heating applications.

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

Basic Operation

Keys: Set; Rst; UP; DOWN

Set	Press once to adjust temperature. Press and hold to access Function Menu.
Rst	When in settings of either temperature or Function Menu press Rst to save and exit. 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.

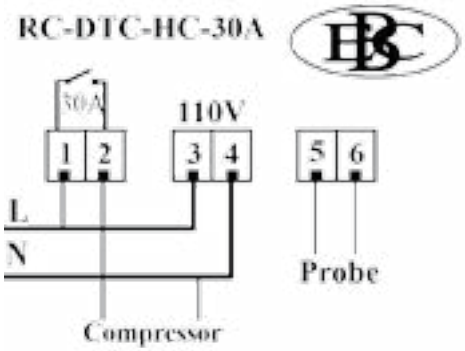
High and Low Temperatures: are the temperature at which the control will alarm at.

Wiring Diagrams Refrigeration

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

110v-120v Single Phase

Perlick Glycol Units 4404, 4410, 4414



220v-240v Single Phase

Perlick Glycol Units 4414-230, 4420

*Requires one double pull relay with 120v Coil.
BEC Part# RC-R110V2P