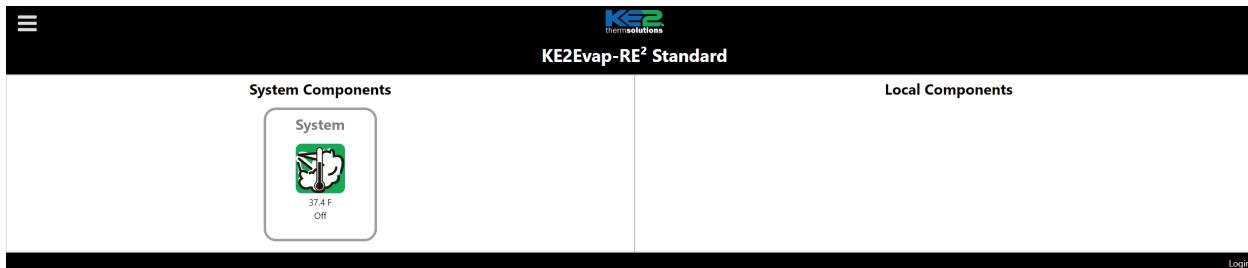


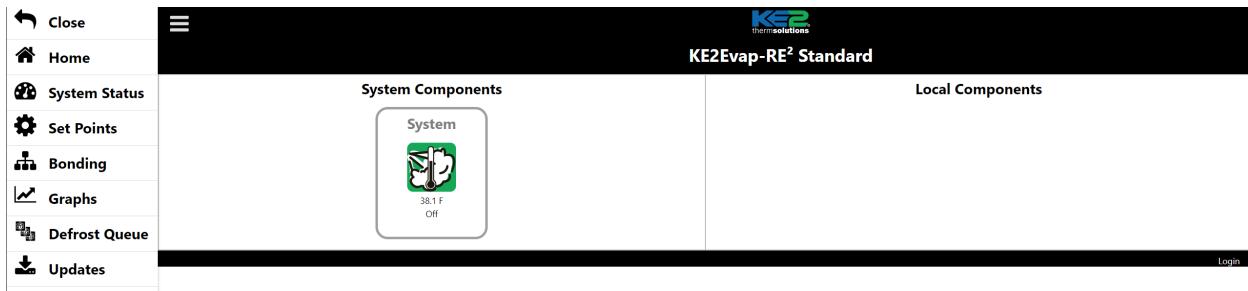
Display Case Controller User Manual

The WiFi radio is normally off. To turn it on, connect a remote display to controller. Simultaneously press and hold the right arrow button and back button until the display reads WIFI ON. Find the controller on your device. Enter the SSID of 'KE2RE-xxxx' where xxxx is last 4 digits of serial number of controller. To turn radio off, simultaneously press and hold the right arrow button and back button until the display reads WIFI OFF, 15 minutes of inactivity, or on for 8 hours.

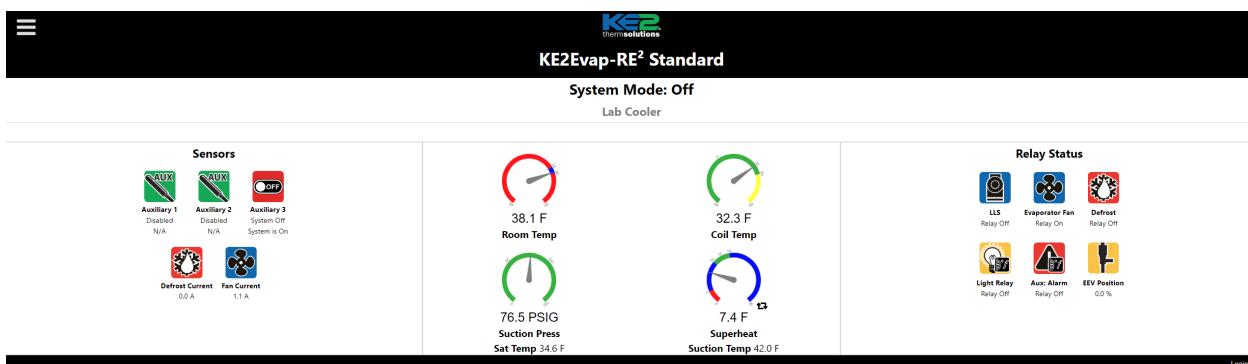
You can connect the controller wired or wirelessly to a LAN or to a wired or wireless device. Once connected, open a web browser and enter the IP address of the controller. Following is displayed:



To see other views, click on 3 bars in upper left corner:



Click on 'System Status' to view readings and states of I/O of the controller:



Click on 'Set Points' to view and change set points:

The screenshot shows the KE2Evap-RE2 Standard software interface. At the top, there is a navigation bar with the KE2 thermSolutions logo and the text "KE2Evap-RE² Standard". Below the navigation bar, there is a vertical list of links: "Refrigeration", "Stepper Valve", "Defrost", "Inputs And Outputs", "Alarms", "Network", and "General Information". The "General Information" link is currently selected, as indicated by a blue border. At the bottom right of the interface, there is a "Login" link.

The set points page for each group is as follows:

The image contains four screenshots of the software interface, each showing a configuration page for a specific group:

- Refrigeration:** This page contains fields for Room Temp (units: F), Refrigerant, Min Comp Runtime (units: MIN), Min Comp Off Time (units: MIN), Air Temp Diff (units: F), and 2nd Room Temp (units: F). It also includes dropdowns for 2nd Room Temp Select, Refrig Fan Mode, Fan Speed (units: %), Temp Units, Multi Air Temp Control, and Extreme Diff (units: F).
- Stepper Valve:** This page contains fields for Valve Type (SER/SEI 1-20), Superheat (units: F), Max Operating Pressure (units: PSIG), Motor Step Rate, Max Valve Steps, and Motor Type (Bipolar). It also includes PID parameters: Proportional (3), Integral (5), and Derivative (3).
- Defrost:** This page contains fields for Defrost Type (Air), Defrost Term Temp (units: F), Drain Time (units: MIN), Fan Delay Temp (units: F), Max Fan Delay Time (units: MIN), Defrost Fan State (On), Defrost Mode (Demand), Electric Defrost Mode (Permanent), Defrost Pump Down Time (units: MIN), and Defrost Queue (Disabled). It includes sections for Demand Defrost (Parameter 40) and Schedule Defrost (Per Day 5, Max Time 40, First Defrost Delay 120).
- Inputs And Outputs:** This page contains sections for Aux 1 Input (Mode Disabled), Aux 2 Input (Mode Disabled), Aux 3 Input (Mode System Off, State Active Closed), Sensor Calibration Offsets (Air Temp Offset 0.0, Coil Temp Offset 0.0, Suction Pressure Offset 0.0, Suction Temp Offset 0.0), and Outputs (Auxiliary Relay Mode Alarm).

Alarms

High Temp Alarm Offset (units: F)	Defrost Current
1.2	Nominal Current (units: A)
High Temp Alarm Delay (units: MIN)	0.0
60	Acceptable Range (+/-) (units: A)
Low Temp Alarm Offset (units: F)	0.0
4.0	
Low Temp Alarm Delay (units: MIN)	Fan Current
10	Nominal Current (units: A)
Door Alarm Delay (units: MIN)	1.0
30	Acceptable Range (+/-) (units: A)
	Detect Current Thresholds
	Detect Current Thresholds
	Clear Alarms
	Clear Alarms

Save Cancel

Network

Ethernet	BACnet
IP Address	BACnet Mac Address
10.9.5.1	0
Subnet Mask	BACnet Device ID
255.255.255.0	0
Gateway	BACnet Description
10.9.5.254	
DNS	BACnet Vendor Name
10.1.1.1	KE2 Therm Solutions
DHCP mode	Baud Rate
Enabled	38400

Web Page Log In

Username	Site
Password	Password
*****	*****

KE2 Smart Access

KE2 Smart Access Enabled	Enabled
Remote Assistance	Enabled

Save Cancel

General Information

Business Name	Reset
KE2 Therm Solutions	Reset
Location	Date and Time
Lab Cooler	Sync
Phone Number	Date and Time
(888) 337 3358	2018-09-25T10:15:02
Walk-in Manufacturer	
KE2 Therm Solutions	

Save Cancel

The controller has the capability of communicating with like controllers to sync defrost, etc. This is called bonding.

KE2Evap-RE² Standard

Discovered Controllers

Discover

Bonding Setpoints

Click 'Discover' to find other like controllers

KE2Evap-RE² Standard

Discovered Controllers

#a2010000000001
E45F5E4B98E4
10.1.0.41

#a2010000000016
E45F5E4B98E46
10.1.0.19

#a2010000000017
E45F5E4B98E47
10.1.0.17

Discover

Bond

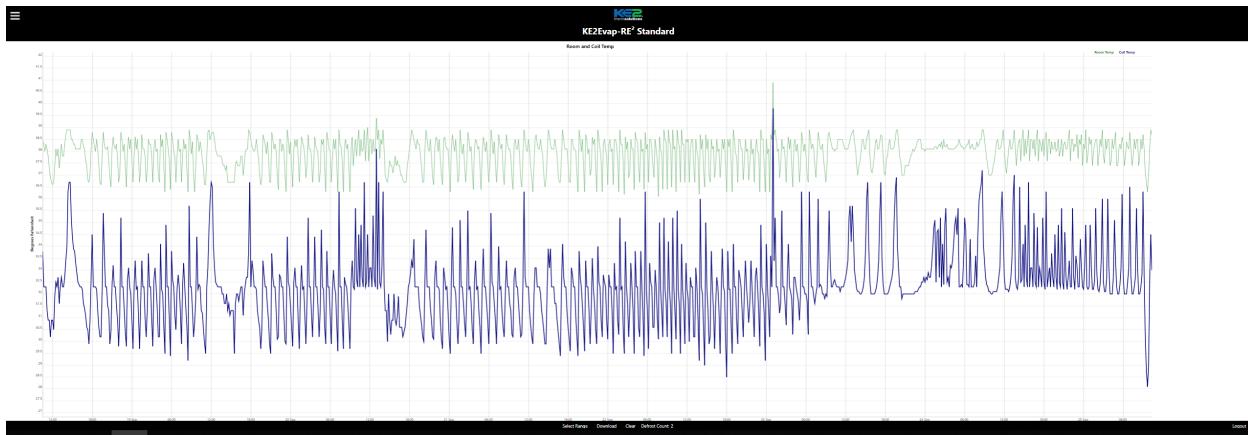
Bonding Setpoints

Select the ones you want this controller to talk to, then click bond.

Bonding set points are the following:



To download data and graph, select Graphs:



To update firmware, select 'Updates'

FCC information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the KE2 Therm could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

IC information

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

Innovation, Science and Economic Development Canada ICES-003 Compliance Label: CAN ICES-3 (A)/NMB-3(A)