



KE2 WiFi Service Tool (pn 20906) Quick Start Guide



The KE2 WiFi Service Tool is the simplest, most cost effective, way to access the Graphical User Interface (GUI) or web pages of the KE2 Evaporator Efficiency, KE2 Evap for Rack Efficiency, or KE2 Controlled Environment.

When connected to the controller, the KE2 WiFi Service Tool creates nearly instant wireless access to the controller's web pages. Users can connect their cellphones, tablets, or laptop computers to the wireless network.

If used in the secured/KE2 LDA mode, the KE2 WiFi Service Tool provides similar functionality to the KE2 LDA, including Internet access to KE2 SmartAccess for remote monitoring, control, and alarm notifications.

Sample web pages from various controllers

The collage displays several sample web pages from various KE2 controllers:

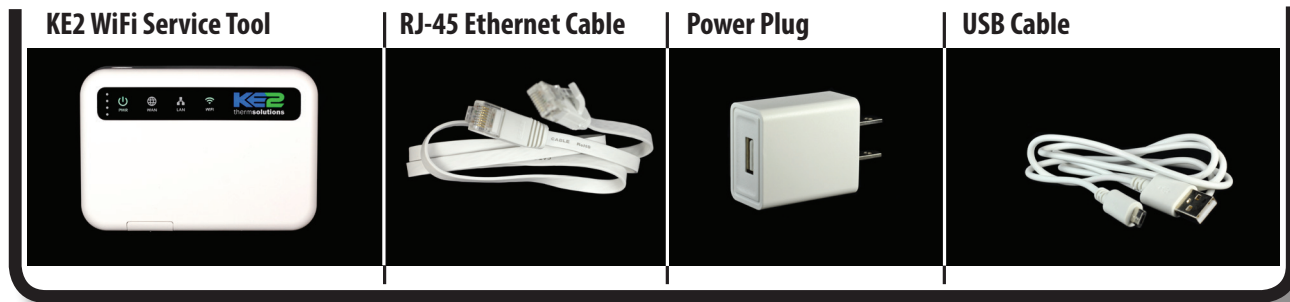
- KE2 Therm Evaporator Efficiency:** Shows a graph titled "Room and Coil Temp - Week" with a peak of 1.674. It includes system status icons like Refrigerator, Room Temp (3.2 F), Coil Temp (-17.3 F), and various relays.
- KE2 Therm Controlled Environment:** Displays a dashboard with multiple sensor readings (Room Temp, Coil Temp, T1 Suct Temp, etc.) and a detailed configuration page for Defrost and Digital Inputs.
- KE2 Evap for Rack Efficiency:** Shows a network configuration page with fields for Controller Name, Mac Address, IP Address, and Bond State for multiple controllers.

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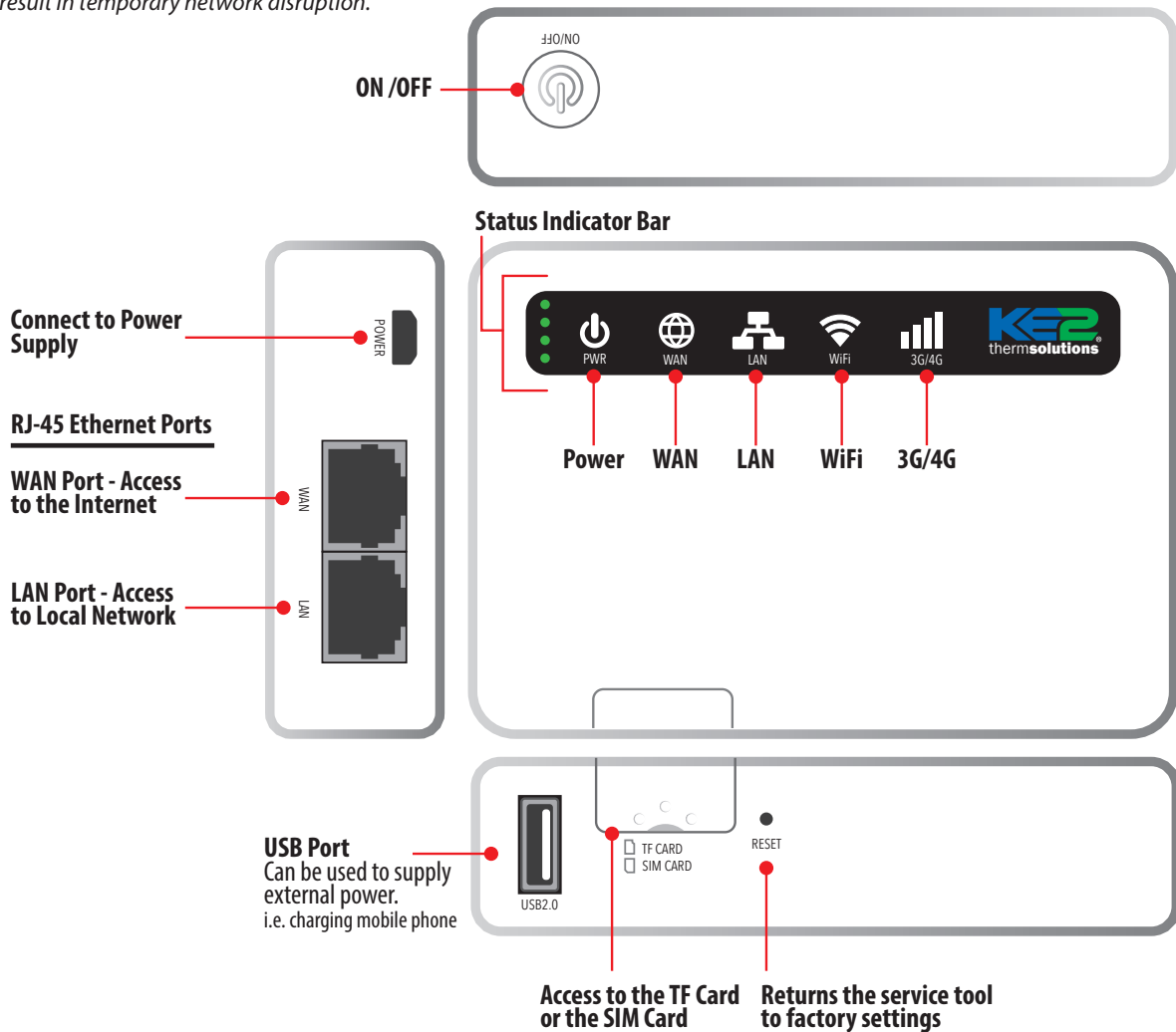
KE2 WiFi Service Tool Kit (pn 20906) includes the WiFi Service Tool & Accessories



Product Views

The KE2 WiFi Service Tool's **LAN port** should only be connected to individual or groups of KE2 Therm Ethernet enabled controllers with **their factory programmed IP address(es)**. Also, they should only be connected to KE2 Therm's Refrigeration Network, and should not be connected to a controller, or group of controllers, integrated into the customer's existing network. The existence of multiple DHCP Servers can result in temporary network disruption.

Controllers already integrated into a customer network, will have **their IP addresses changed, and should be connected to the KE2 WiFi Service Tool's WAN port**, to prevent network disruption.

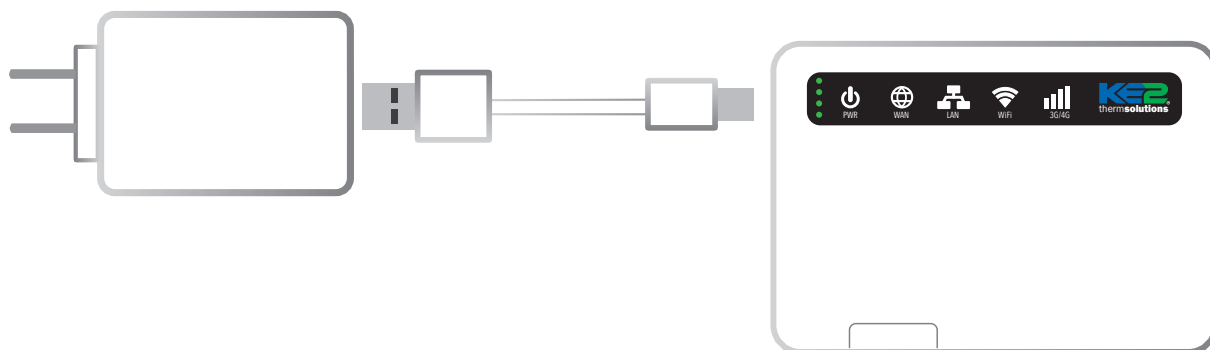


Specifications

Hardware Specifications	
Protocol Standards	Using IEEE 802.11n technology;
	IEEE 802.11g, IEEE 802.11b;
	IEEE 802.3, IEEE 802.3u
Wireless Rate	150Mbps
Interface	2 10/100M adaptive LAN / WAN port supports auto-flip (Auto MDI / MDIX)
	A USB 2.0 interface
	A Micro USB charging port
Push button	Power switch
	Reset button
LED	System status indication
	Battery indicator
Size	4.1 in x 2.8 in x 1.0 in ; 104 mm x 71mm x 25mm (L x W x H)
Radio Parameters	
Operating Mode	AP (wireless AP) mode;
Other	
Packing Accessories	KE2 WiFi Service Tool;
	USB cable;
	120/240V power switching transformer;
	User Manual;
Environment	Operating temperature: 59°F to 104°F (15°C to 40°C);
	Storage temperature: -4°F to 122°F (-20°C to 50°C)

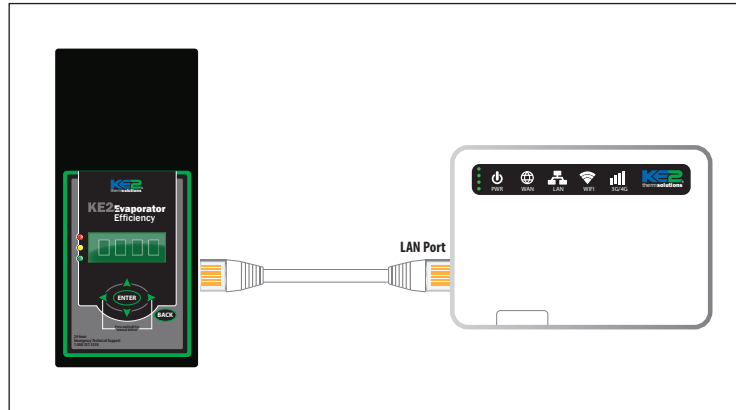
Power Supply

With the onboard battery, the KE2 WiFi Service Tool provides hours of operation. The included USB cable may also be plugged into the 120V adapter for extended access.




Quick Start: **OPEN** Wireless Network

- ① Using the RJ-45 cable (included with the KE2 WiFi Service Tool), connect the KE2 WiFi Service Tool to the controller.



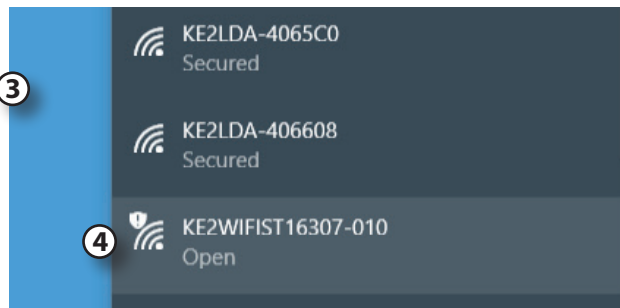
- ② Using the power button, turn **ON** the device.



- ③ Connect to the KE2 WiFi Service Tool, click the wireless connection icon , typically found in the bottom right hand corner of the computer screen. It will open a small window with a list of available networks.

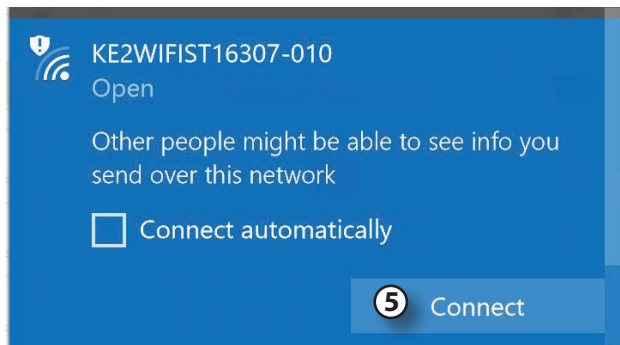
There are 2 wireless networks available:

- a. **KE2WIFIST** – wireless network is Open, and no password is required.
- b. **KE2LDA** – wireless network is Secure, and requires the password provided on the label.



- ④ Select the KE2WIFIST wireless network.

- ⑤ Click Connect



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- ⑥ Once connected to the device, launch the browser of your preference, i.e. Google Chrome, Mozilla Firefox, Apple Safari etc.

- ⑦ Navigate to one of the following addresses, 192.168.50.1 or https://ke2lda.

Click on the **Endpoint** for the controller you would like to view.

s	Type	Endpoint	Location	Mode	Room	Alarm
	MBC	Service View	(Set device_name)	Off	-21.6 F	Low Air
	MBC	Service View	(Set device_name)	Off	-15.3 F	Low Air
	MBC	Service View	(Set device_name)	Off	15.1 F	Low Air
	MBC	Service View	(Set device_name)	Off	15.4 F	All Clea
	MBC	Service View	(Set device_name)	Off	15.1 F	All Clea
	IPC	10.1.0.126	Rack V2.1 r5778653f	Refrigerate	8.7 F	All Clea
	IPC	10.1.0.151	(Set Location)	Intro	17.3 F	All Clea
	IPC	10.1.0.188	KE2HQ	Refrigerate	73.4 F	High Air

- ⑧ The browser will display the controller's home screen (MasterView).

Notes:

- If you are familiar with KE2 Therm's KE2 LDA, you will notice there is **no link to access the Management Console**. This is only available when connected to the KE2 LDA wireless network.
- When connected to the **KE2WIFIST** wireless network, the **WAN port will not provide Internet/Network access**, even if connected.
- Dashboard is **Not limited** to 10 controllers. This makes the tool easy to use for any size installation.

KE2 Therm Evaporator Efficiency

KE2 Therm Solutions (888) 337 3358 | IP Address: 10.1.0.40 | Location: (Set Location)
MAC Address: 00:04:A3:77-2A:A3

System Mode: Defrost | Room Temp: -7.8 F | Coil Temp: -19.6 F | Compressor: Relay Off | Evaporator Fan: Relay On | Aux Relay: Relay Off | All Clear

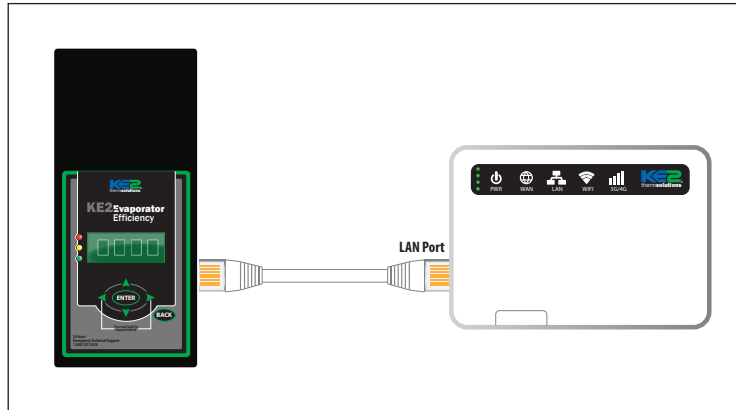
Defrost: Relay Off | Door Sw: Closed | Dgt Input2: Disabled | Dgt Input3: Disabled | T4 Coil Temp: -19.7 F

Superheat: 8.3 F | Suction Press: 9.3 psig | T1 Suction Temp: -22.5 F | Saturation Temp: -30.8 F | Valve Position: 0.0 %

Home Page | Settings | Network | Setpoints | Graphs | Active Users: 1


Quick Start: **SECURE** Wireless Network

- ① Using the RJ-45 cable (included with the KE2 WiFi Service Tool), connect the KE2 WiFi Service Tool to the controller.



- ② Using the power button, turn **ON** the device.

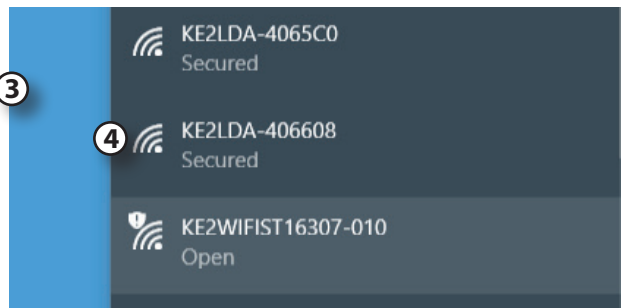


- ③ Connect to the KE2 WiFi Service Tool, click the wireless connection icon , typically found in the bottom right hand corner of the computer screen. It will open a small window with a list of available networks.

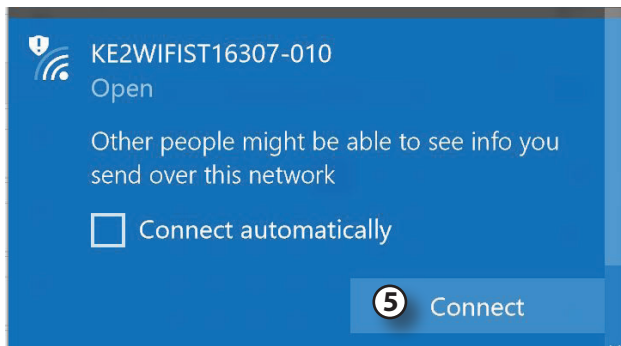
There are 2 wireless networks available:

- a. **KE2WIFIST** – wireless network is Open, and no password is required.
- b. **KE2LDA** – wireless network is Secure and requires the password provided on the label.

- ④ Select the KE2LDA wireless network.



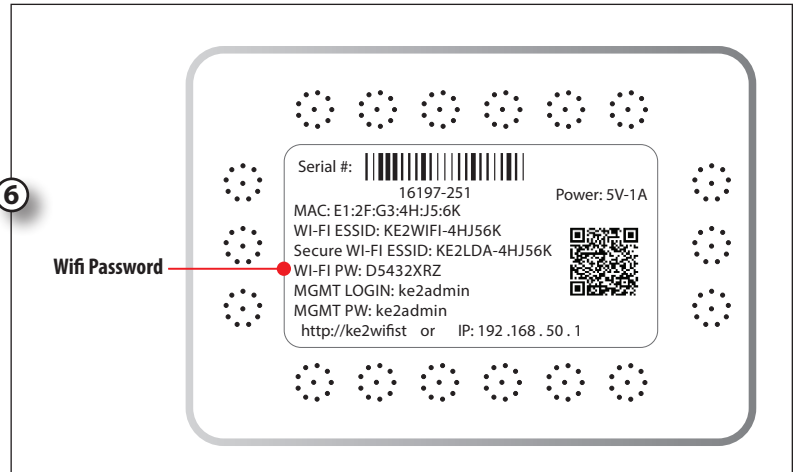
- ⑤ Click Connect



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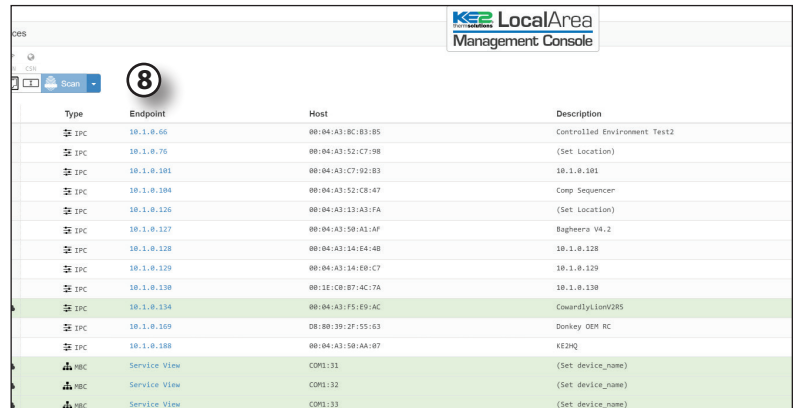
⑥ Enter the Wi-Fi password supplied on the KE2 WiFi label to access the KE2 LDA wireless network.

⑦ Once connected to the device, launch the browser of your preference, i.e. Google Chrome, Mozilla Firefox, Apple Safari etc.



⑧ Navigate to one of the following addresses, 192.168.50.1 or https://ke2lda. "

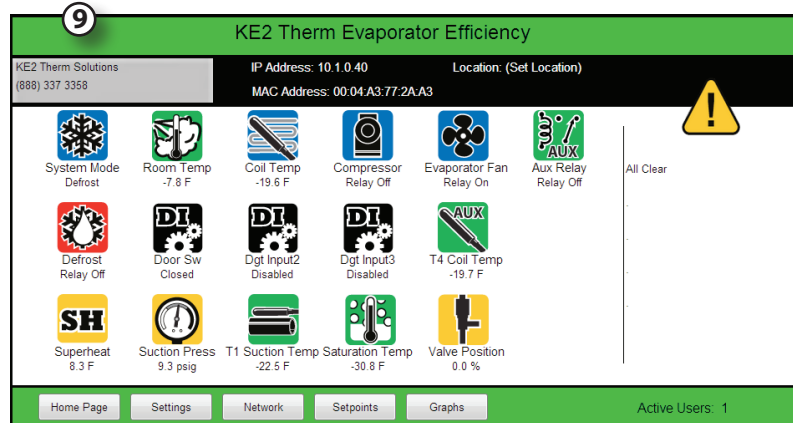
Click on the **Endpoint** for the controller you would like to view.



⑨ The browser will display the controller's home screen (MasterView).

Notes:

- The secured wireless network has capabilities similar to the KE2 LDA.



Advanced Features

The KE2 WiFi Service Tool is able to connect to network attached controllers. (Needs to be connected to DHCP server on same network as controllers).

Related Information

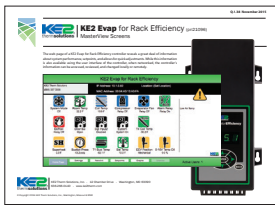
For detailed information on the Master View screens, see the following bulletin(s) or view our YouTube videos.

Bulletins

Q.1.19 KE2 Evaporator Efficiency MasterView Screens



Q.1.38 KE2 Evap for Rack Efficiency Master View Screens



Q.1.28 KE2 Controlled Environment MasterView Screens



Videos



Please visit [youtube.com/ke2therm](https://www.youtube.com/ke2therm) for videos that provide additional information on:

Video 048 to Video 052

What information is on the KE2 Evap Web pages

Video 061

What information is on the KE2 LDA's Dashboard and Management Console