AK LED Light Kit Installation and Operating Instructions with K2 Control

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The **AK LED Light Kit** is designed to be used in any steam bath or shower enclosure using a K2 controller. The LED light system is powered by an external 12VDC power supply connected to a 120VAC wall outlet. Connections to the LED light assemblies are made simple using RJ45 type connectors. On/Off and LED light colors and patterns are controlled by the **K2** control or the **Saunalogic** app.
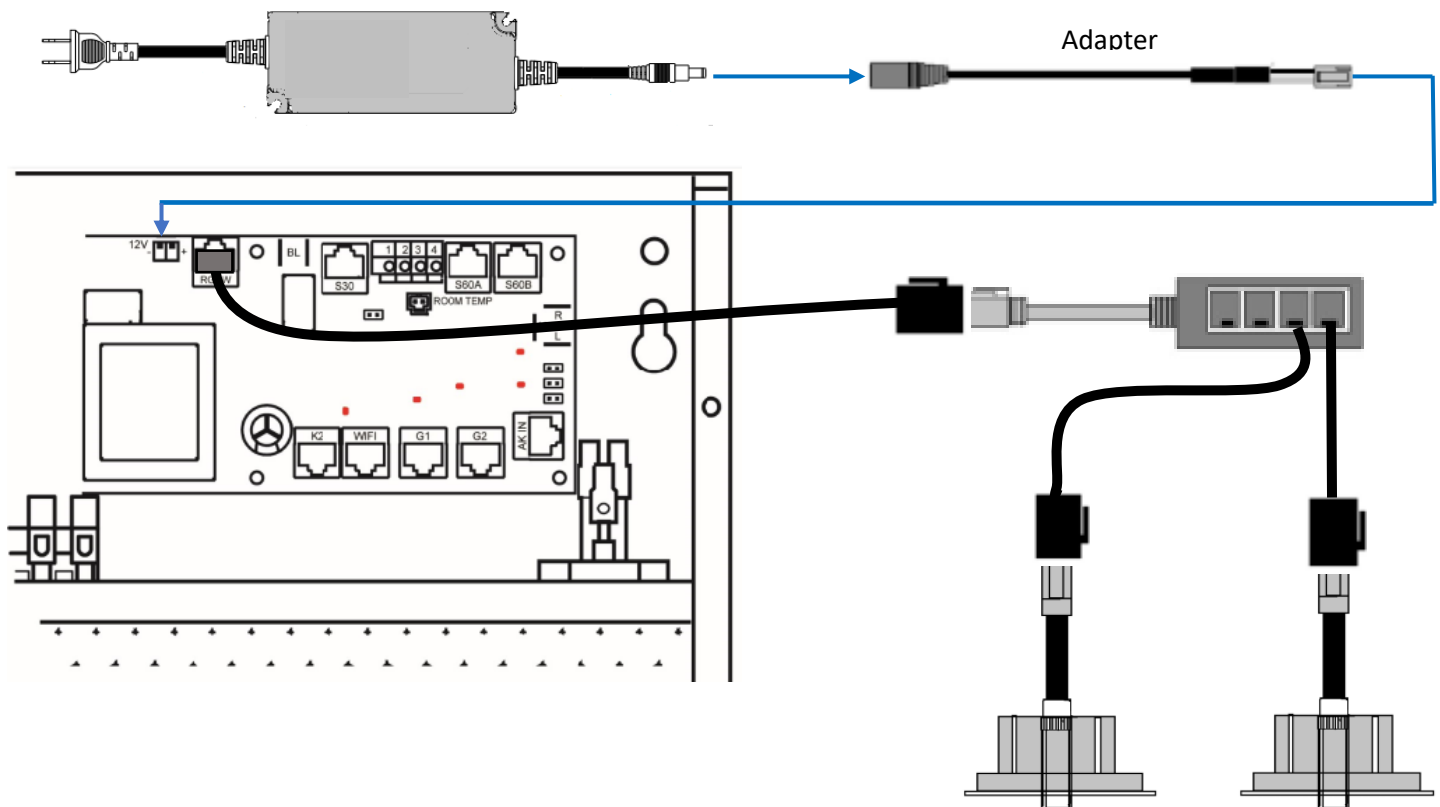
Installation Overview

Figure 1

General Installation

Determine locations suitable for mounting the LED Light Kit's components.

- The LED light assemblies are to be mounted in the ceiling of the steam room. The LED assemblies are connected using the supplied 16ft[5M] RJ45 cords to any of the available ports on the 8-port splitter. ***Note: Two LED lights are supplied. Up to 6 additional lights [8 total] may be added. If additional length is needed, any Cat5, cord maybe used up to 40ft [12M].***
- The 8-port splitter should be installed in a dry/ accessible location.
- The 12VDC power supply will connect to the 12V connector on the AK steam generator PCB assembly.

Power Supply Installation:

- Connect the 2-pin connector of the adapter cable to the 12V input jack on the AK steam generator PCB
  Note: *Pay attention to polarity of the connector when making the connection to the PCB connector*
- Route the barrel end of the adapter cable thru one of the low voltage cable entries on the steamer chassis
- Secure the adapter cable with a provided strain relief in the entry hole
- Connect the 12VDC power supply to the barrel end of the adapter cable
- The 2 prong AC power cord should be connected to a 120VAC wall outlet.
  Note- *Do not plug in 120VAC power cord until all other connections have been completed with the lighting system.*
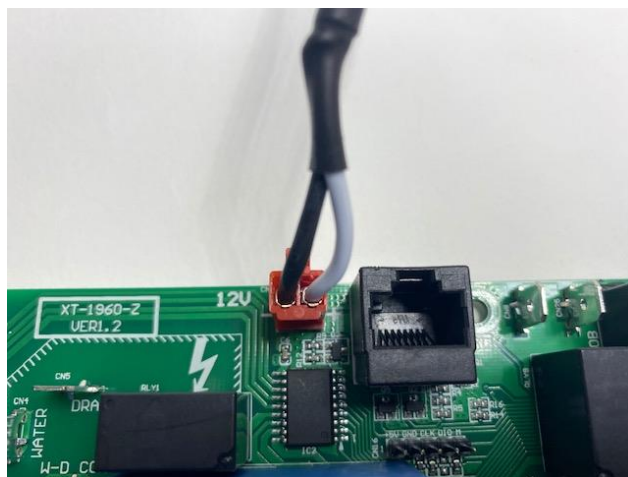
Figure 2

LED Lighting Cable Installation:

- Route one end of the 6ft[2M] Cat5 cable thru one of the low voltage control cable entries on the steamer chassis and use a provided strain relief to secure the cable in the entry hole.
- Connect the Cat5 cable to the RGBW connector on the steam generator PCB.
- Connect an RJ45 coupler to the opposite end of the 6ft[2M] Cat5 cable.
- Connect the input wire of the 8-port splitter to the other end of the RJ45 coupler.
- Connect the Cat5 cords going to the LED light assemblies to any of the output ports on the 8-port splitter.
  Note- *Locate the 8-port splitter where it will be protected from heat/ moisture and is accessible for future service or adding additional light fixtures.*

Figure 3

LED Light Fixture installation:

Determine where the light fixtures will be located.

- Ensure the 16'[5M] cables from the 8-port splitter are routed to the hole locations.
- Mark and drill a 2-5/8-inch hole at each light location.
- Run a bead of 100% silicone around the outside surface of the hole using enough silicone for a good seal.
- Grasp the stainless-steel fixture from the back side and use your other hand to unscrew the lens cover. Ensure an O-ring is on the lens cover threads.
- Remove and discard the gasket from the light fixture base (Figure 5).
- Holding the base unit with one hand, compress the two spring-loaded retainers with your other hand so they are parallel to the base of the fixture.
  Note: *Have a firm grip on the compressed retainer clips as they can "snap" back on your fingers!*
- Guide the fixture up and into the hole and firmly press base unit in place.
- If the retainer springs are not enough to hold the fixture in place, painters' tape can be used to help hold the fixture while the silicone sets.
- Ensure silicone does not ooze out past the light assembly base unit flange when installed. Clean any excess silicone before it cures.

After the silicone has cured per manufacturers set time, the LED bulb and trim ring can be installed.

- Connect a RJ45 coupler to the Cat5 wire ran to the light location.
- Connect the other end of the coupler to the Cat5 connector on a LED bulb pigtail.
- Push the assembly up into the base unit flange and when fully inserted, rest the bulb on inside of trim ring and screw trim ring in place securely.
  Note: *Ensure O-ring is installed on trim ring threads.*
- Repeat process for remaining LED light assemblies.

Figure 4

Figure 5

Figure 6

Figure 7

Operation:

After all connections have been made to the lighting system, connect the power supply AC cord to a 120VAC outlet. The LED lights may be turned on or off at any time and must be turned on/off manually using the light icon on the 🎨 K2 control.

- Press the light icon on the K2 control to turn the lights on. The lights will always start at white when first turned on.
- Press the icon momentarily to change the display colors. Color sequence is as follows- White-Red-Green-Blue-Yellow-Aqua-Purple-Rotating colors-Off.

The LEDs are dimmable.

- Press the + or - icons to adjust the brightness while the lights are on.
- The current brightness level is displayed for 3 seconds.
- The brightness can be adjusted to 25, 50, 75, or 100% light output.
  Note- *The LED lights can be operated even if the steam bath is not in use.*

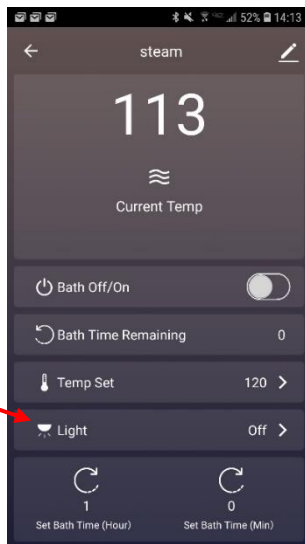The LED lights can be turned off in two ways.

- Cycle through the color sequence (pressing the light icon) until lights turn off
- Press and hold the light icon for 3 seconds

On the App: Turn the lights on by tapping the light option icon and scroll to the desired color option then press OK. Scroll to Off and press OK to turn the lights off.

K2 Control	App

For further assistance, contact us at:

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Parts List:

Item	Part#	Description	Provided	Visual Reference
1	5304-005	5M Cat5 Cable	2	
2	5304-002	2M Cat5 Cable	1	
3	5304-02	2-Pin to Barrel Adaptor	1	
4	2310-09	RJ45 In-Line Coupler	3	
5	1130-08	Bushing, Strain	2	
6	8038-72	Light Fixture	2	
7	3160-39	RGBW LED	2	
8	2311-270	8-Port Splitter	1	
9	3164-366	Power Supply	1	