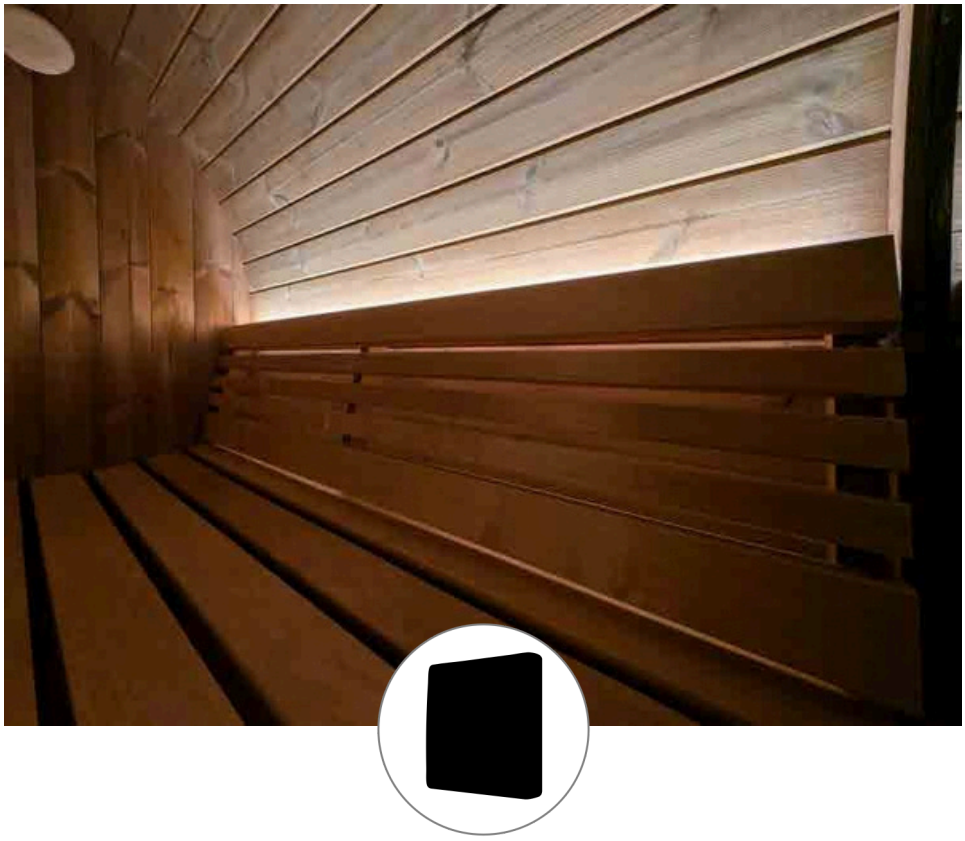
Rate Outdoors

Manufactured by:

saunalife®

Live the Sauna Life!

# Sauna Led Light System



White Led

## Installation and Operation Manual

REV - 3.0_12/2025

# SAFETY & WARNINGS

**PLEASE READ THIS MANUAL IN ITS ENTIRETY PRIOR TO INSTALLATION**

- **Qualified Personnel Only:** Installation of this system must be performed by a certified electrician, following all national electric code and local building code requirements.
- **Equipment Protection:** The driver, power supply, and control unit must be installed in a location that is completely protected from moisture, rain, and inclement weather.
- **Temperature Considerations:** Please refer to the specifications on page 5 to determine the maximum temperature rating of each component. Do not install any components in areas that exceed the maximum temperature limits, as this will lead to product failure and void the warranty.
- **LED Sauna Heater Clearance:** Maintain a safe distance between your LED lights and the sauna heater. Avoid directly installing the lights above the heater or within 20 inches of its sides.
- **Control:** If installing inside the sauna, the RF Control must not exceed 131°F. Maximum installation height is 30” from sauna floor and minimum of 36 inches away from the sauna heater.
- **Light Placement:** Carefully consider the placement of your LED lights to avoid shining directly into bathers eyes. A diffused or indirect lighting approach is recommended.
- **Uncoil Before Powering:** Do not power on the LED light while it is coiled on the spool. Unwind completely before connecting to power.
- **Avoid Damage:** Do not fold or twist the LED light, as this may damage the LEDs and cause malfunctions. Refer to page 4 for LED Handling.

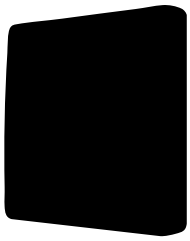
## Electrical Requirements

Always disconnect power from the system at the circuit breaker before performing any electrical installation or maintenance.



- **Power Source:** The lighting system requires a 120VAC power outlet.
- **Qualified Electrician:** A qualified electrician must determine the appropriate electrical outlet type, box configuration, and wiring to ensure compatibility and safety.
- **Electrical Safety:** Using incorrect voltage or improper electrical connections can damage system components and void warranty.

# PACKAGE CONTENTS



**Dimming Remote**
(qty. 1)



**RF Driver / Receiver**
(qty. 1)



**Power Supply**
(qty. 1)



**2-Pin 4-Way Light Cable**
(qty. 1)



**2-Pin 30’ Light Cable**
(qty. 1)



**AC Power Cable**
(qty. 1)



**Mounting Clip + Screw**



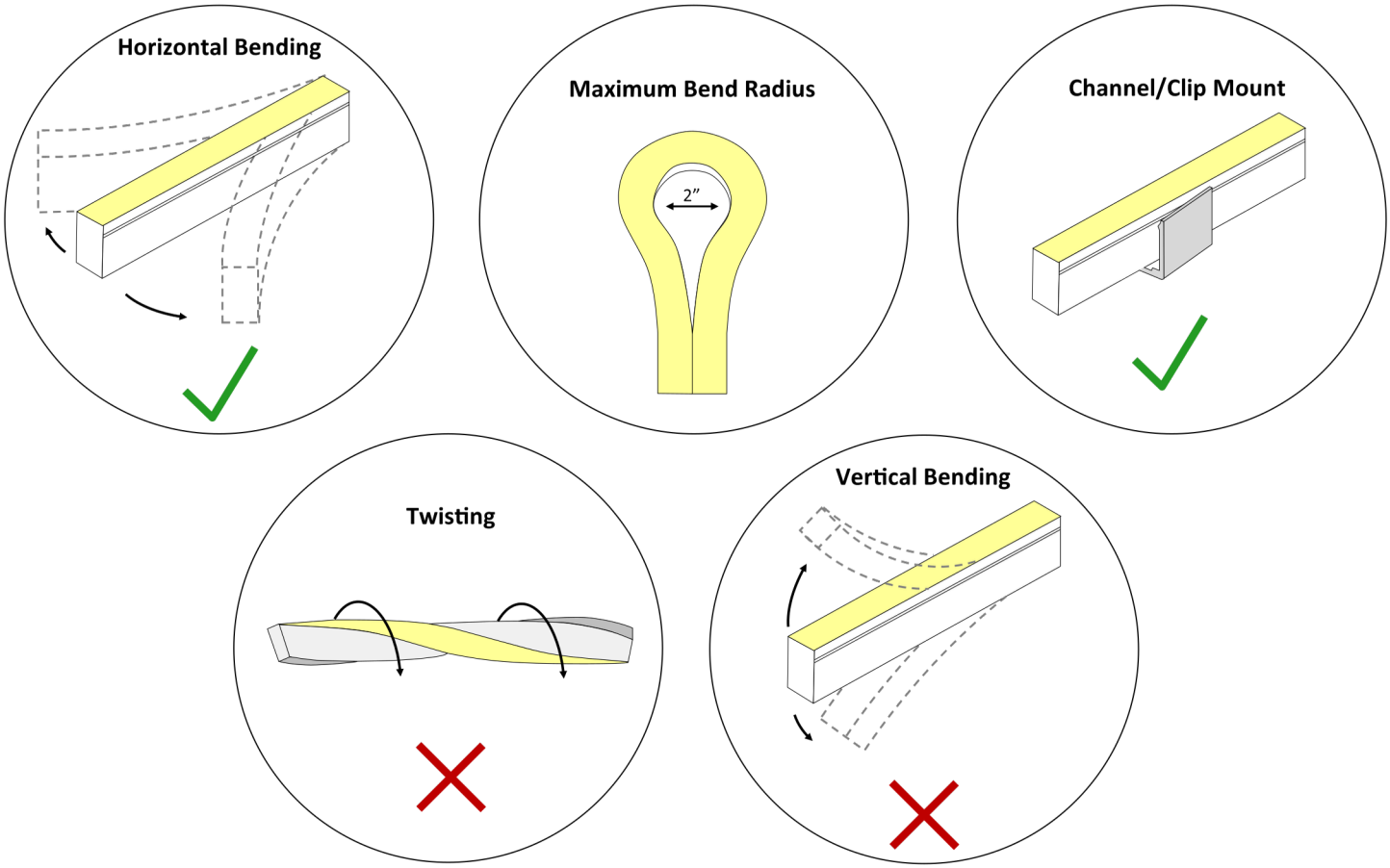
**Led Light**

**Optional 5ft Mounting Channel**
(purchased separately)



# LED HANDLING

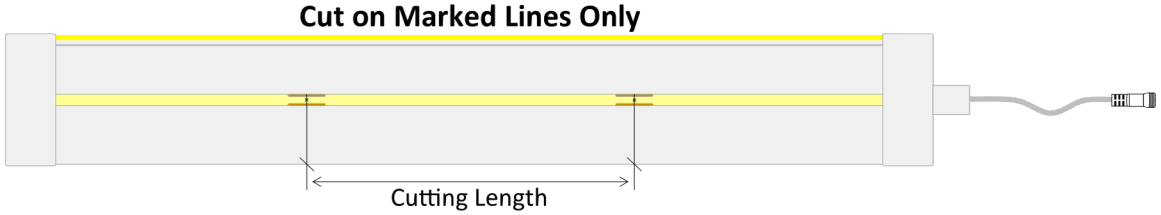
## HANDLE LED LIGHT WITH CARE!




### Cutting Flexible LED Neon

- If needed LED Neon can be cut tolength.
- Determine the length of LED needed for the installation location.
- Using sharp cutters or scissors cut at closest cut point to the length needed, see diagram b

  **Note:** Cut only on marked lines. Cut-off section can be discarded.
- After cutting, apply silicone to the cut end and install new end cap.



# SPECIFICATIONS

## Driver/Receiver

| | |
|---|---|
| Operating Voltage: | 24VDC |
| Rated Out Current: | 9A |
| Output Voltage: | 24 VDC |
| Max Output Power: | 200W |
| Operating Temp: | -4°F - 131°F |
| Dimensions: | 3.75”L x 1.72”W x 1.21”H |
| Light Capacity: | 4 Lights / 25’ |
| IP Rating: | IP20 |
| Certifications: | CE, EMC |

## RF Remote Single-Zone Dimming

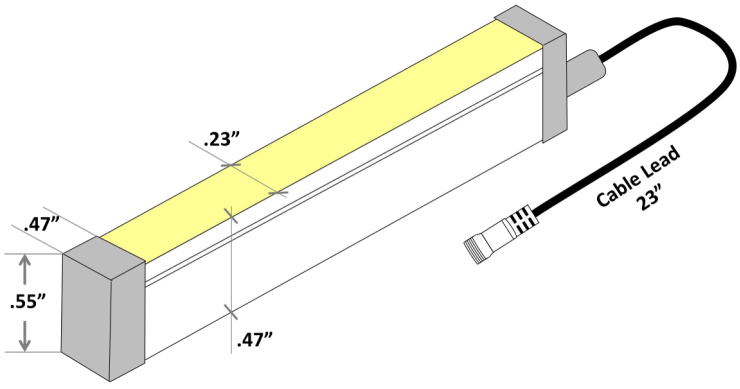
| | |
|---|---|
| Output Signal: | RF (433MHz) |
| Operating Voltage: | Self Powered (No Battery) |
| Operational Life: | 200,000 Switchings |
| Dimming Range: | 1% - 100% |
| Signal Distance: | 100FT |
| Dimensions: | 3.38”L x 3.38”W x .65”H |
| Operating Temp: | 14°F - 104°F |
| Zones: | 1 Zone Single Color |
| IP Rating: | IP67 |
| Certifications: | CE |

## Power Supply

| | |
|---|---|
| Input Voltage: | 120 VAC |
| Output Voltage: | 24 VDC |
| Rated Power: | 90W |
| AC Current: | 1.3A |
| DC Current: | 3.75A |
| Operating Temp: | -22°F - 158°F |
| IP Rating: | IP20 |
| Certifications: | UL, CE, FCC |

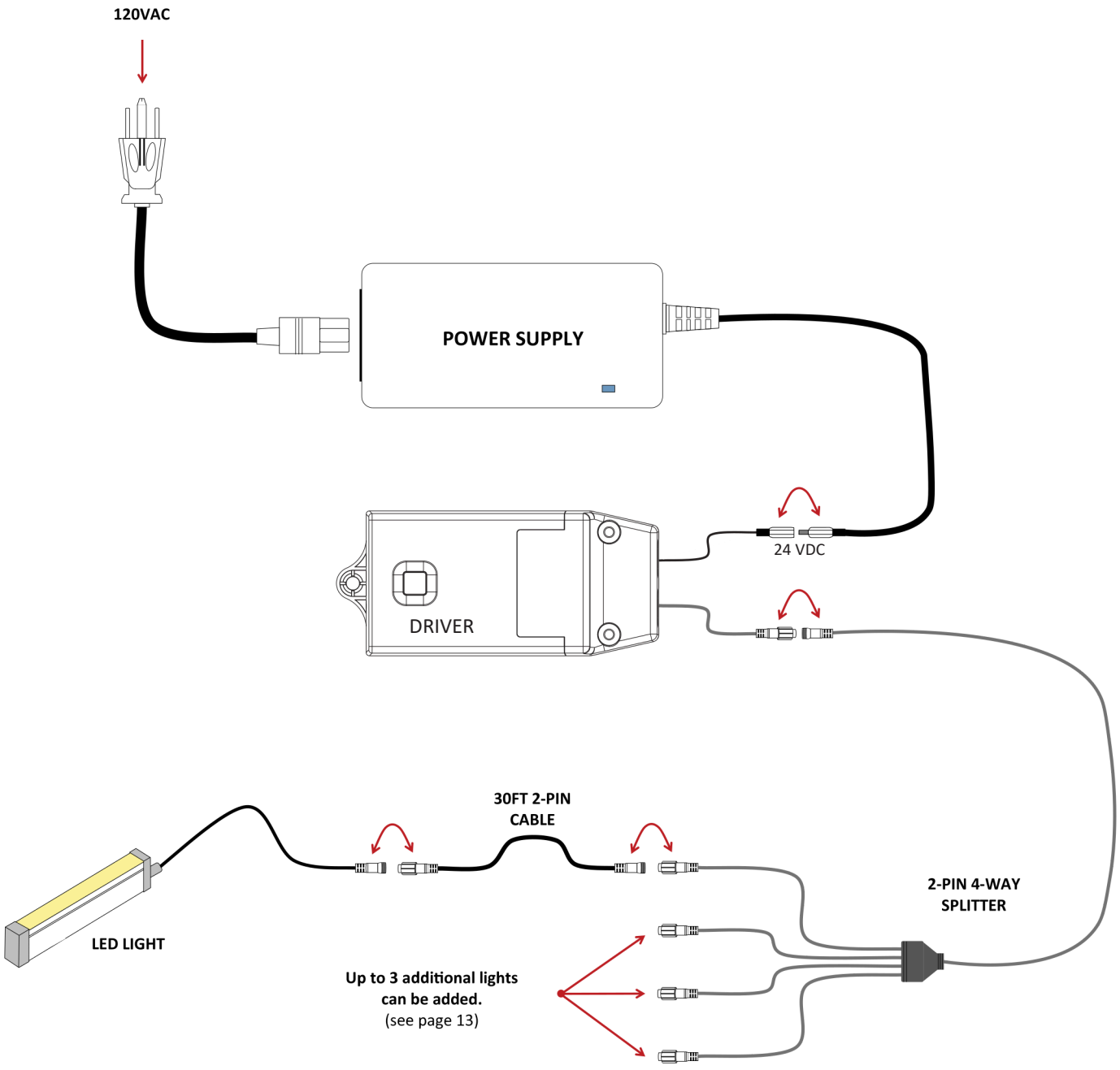
| White Led | | |
|---|---|---|
| Operating Temp: -13°F to 200°F | Max Run: 4 Lights / 25 Linear Feet | IP Rating: IP67 |

| Length | Operating Voltage (VDC) | Wattage | Lumens | Kelvin Temperature | Certification |
|---|---|---|---|---|---|
| **4FT** | 24 VDC | 12W | 396 | 3500K | ETL / SGS |
| **5FT** | 24 VDC | 15W | 495 | 3500K | ETL / SGS |
| **6FT** | 24 VDC | 18W | 594 | 3500K | ETL / SGS |
| **7FT** | 24 VDC | 21W | 693 | 3500K | ETL / SGS |



# CONNECTION DIAGRAM

## Lighting System Connection Overview



# INSTALLATION

## STEP 1. Mounting Driver:

- **Location:** Choose a dryand accessible location for mounting the RF Driver/Receiver.
- **Mounting:** Secure the Driver/Receiver to the surface using one screw.



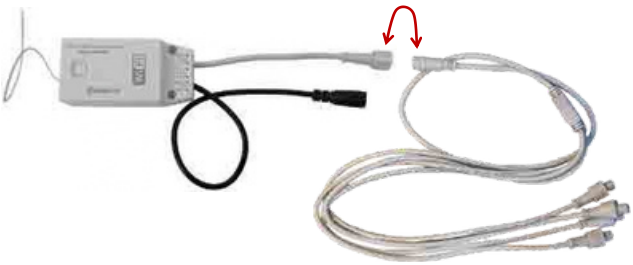
**Important Considerations:**

**Sauna Installation:**

- Verify the Driver's maximum operating temperature is not exceeded in the sauna environment.
- Maintain a minimum distance of 3 Feet from the sauna heater.

**Outdoor Installation:**

- Enclose the Driver/Receiver in a weatherproof enclosure for complete protection from the elements.



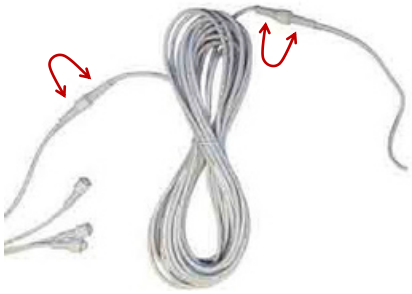
## STEP 2. Connecting 4-Way Cable

- Locate the 2-Pin 4-way cable andconnect the single end to the 2-Pin Pigtail cable on the Driver.

## STEP 3. Run Light Cable

- Runthe light cable from 4-Way cable to LED light.
- Connect one end of the light cable to the 2-Pin 4-Way cable.
- Connect the other end of the light cable to the pigtail on the light fixture.

Note: Repeat this step if installing more than one light.



## STEP 4. Connect Power Supply

- Locatethe Power Supply.Plugthe DC lead into the DC pigtail from the Driver.
- Plug the AC cable from the power supply into a 120VAC outlet.



# INSTALLATION

## STEP 5. Identify LED Install Location:

Identifylocationwhere the LED lightwillbeinstalled. Common installation spots are:

- Backrest shining up or down
- Under bench
- Sauna Floor
- Exterior Sauna

## STEP 6. LED Mounting Clips

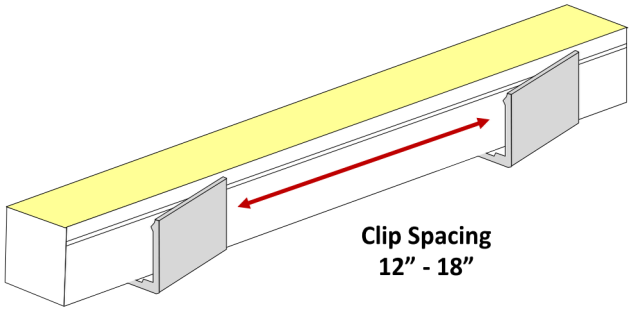
- Usingtheprovidedscrews, attachthe mounting clips to the mounting surface. Clips are provided with one screw each.
- If using your own screws, you will need a mini-mum size #4 x 5/8” screw to mount the clips.
- It is recommended that clips be mounted every 12" to 18" to support the LED light.
- Gently press the LED light into each clip.
- Follow the connection diagram on page 6 for LED wire connections.

**Note:** The images below show examples of clip installation. To remove the LED from a clip, gently pull up on the LED at each clip to release it. Avoid bending the LED, as this can damage the light.

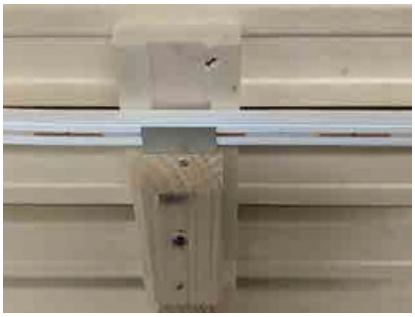
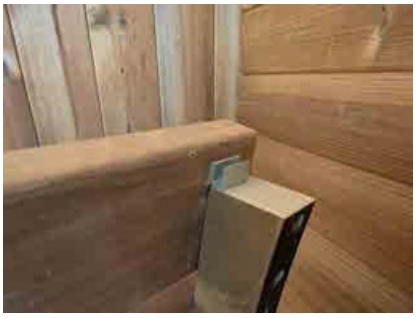
## Important:

- The LEDlight should not be installed above or within 20” of sauna heater.
- “Always check the temperature at the intended installation location of the LED light to ensure it does not exceed the maximum operating temperature.”

**Note:** It is recommended to run sauna without LED light installed and check the temperature at the intended installation location to get an accurate temperature reading.







# INSTALLATION

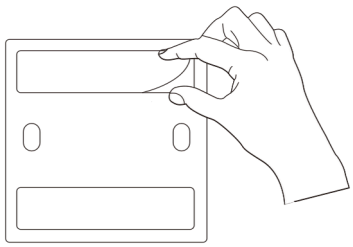
## STEP 7. Installing Control:

Identifylocationwherethe controlwill be installed. Follow steps below for mounting control on wall surface. Optionally control be used as a handheld rather then mounting on the wall.

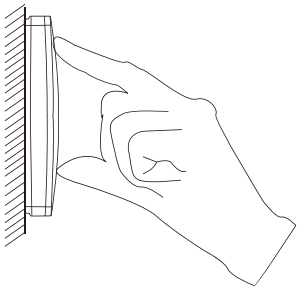
## Important Notes:

- If installingthe control in Sauna it is recommended to install near the door and or opposite side of room as sauna heater.
- Do Not install control higher than 30” from the finished sauna floor or where operating temperature of control will be exceeded.
- Always check temperature at install location or control before installing and ensure it does not exceed maximum operating temperature rating for the control.

## Option 1: Wall Mount Using Adhesive

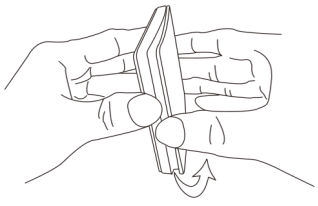


Apply provided double sided adhesive tape.

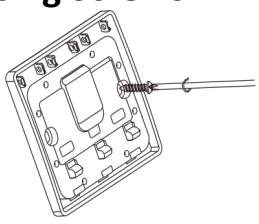


Align control and press onto surface. Hold for a few seconds to ensure tape holds.

## Option 2: Wall Mount Using Screws



Carefully open control.



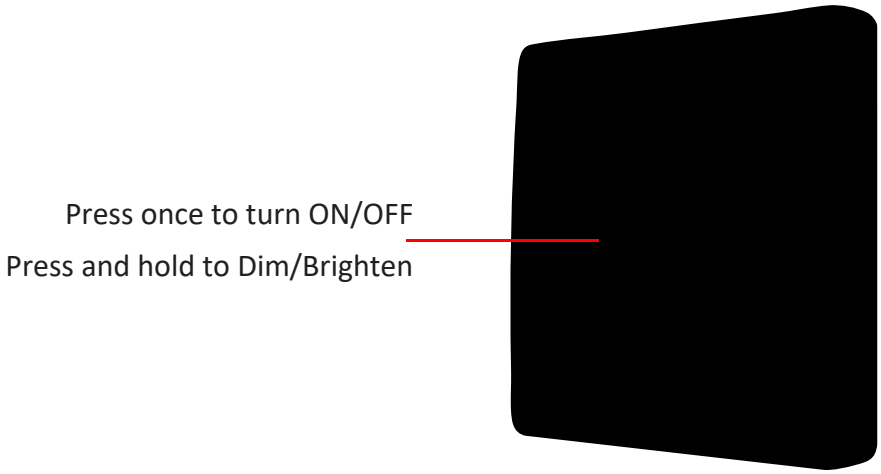
Install on wall using wood screws.

# STARTUP & TESTING

## Control Operation

See the image below for control operation. When installing the control verify maximum operating temperature of the control is not exceeded.

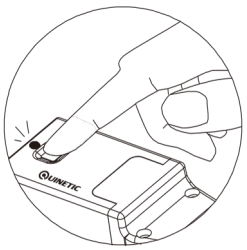
- Do not install control within 3ft of sauna heater.
- Do not install control higher than 30” off finished sauna floor.




## Driver & Control Programming

**Note:** The wireless control comes preprogrammed with the driver. Follow the steps below if programming is needed.

1. Press and hold the button on the driver for 3 seconds to enter program mode. The indicator light will flash slowly
2. Quickly press the control switch, the indicator light on the driver will go off indicating successful pairing.




Press for 3 seconds
to enter program mode

**Note:** If you encounter any issues during startup and testing, proceed to the troubleshooting steps.

# Wi-Fi SETUP

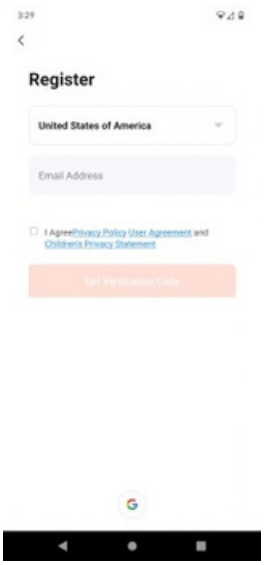
To set up Wi-Fi operation follow the steps below
**Note:** The driver supports the 802.11 b/g/n 2.4 GHz Wi-Fi standard. The Wi-Fi Driver will not connect to a 5 GHz network. Installation steps below are for reference and may change or differ between iOS and Android versions.

On IOS or Android download the Tuya Smart App

### Step 1
Open Tuya app and press Sign Up to create




### Step 2
Enter an email address to register an account



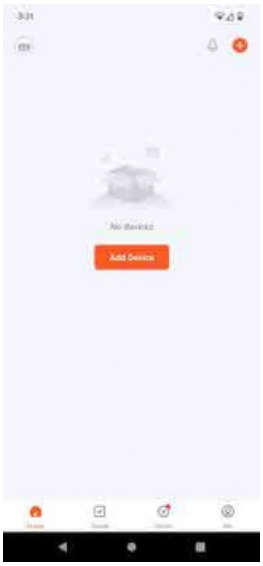

### Step 3
Check email and enter verification code




### Step 4
Create a password




### Step 5
Main screen press *Add Device*



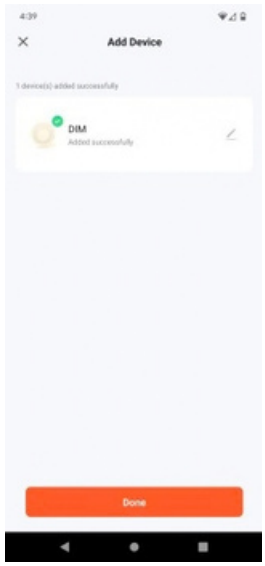

### Step 6
Press *Add* next to Discovering Devices




### Step 7
Select your Wi-Fi network




### Step 9
Device added successfully, press done to complete setup



# Troubleshooting

## No Power

- Verify that the electrical outlet has proper voltage.
- Check that all the power connections are secure and correct:
  - Power supply to the outlet
  - DC plug from the power supply to the driver

## Power but lights not turning on

- Check that the Pigtail cable from the Driver is securely connected and that wiring is correct..
- Check that 4-way light cable is secure and connected.
- Check that all 30’ cables to the lights are securely connected.
- Verify each light functions by testing them directly to the Driver independently.

Note: To test an individual light, disconnect the 4-way light cable and connect the 30’ cable directly to the Pigtail lead on the Driver, or connect the light directly to the Pigtail.

- Verify that control is paired with the Driver, (see page 10).

## Lights on, no function from Control

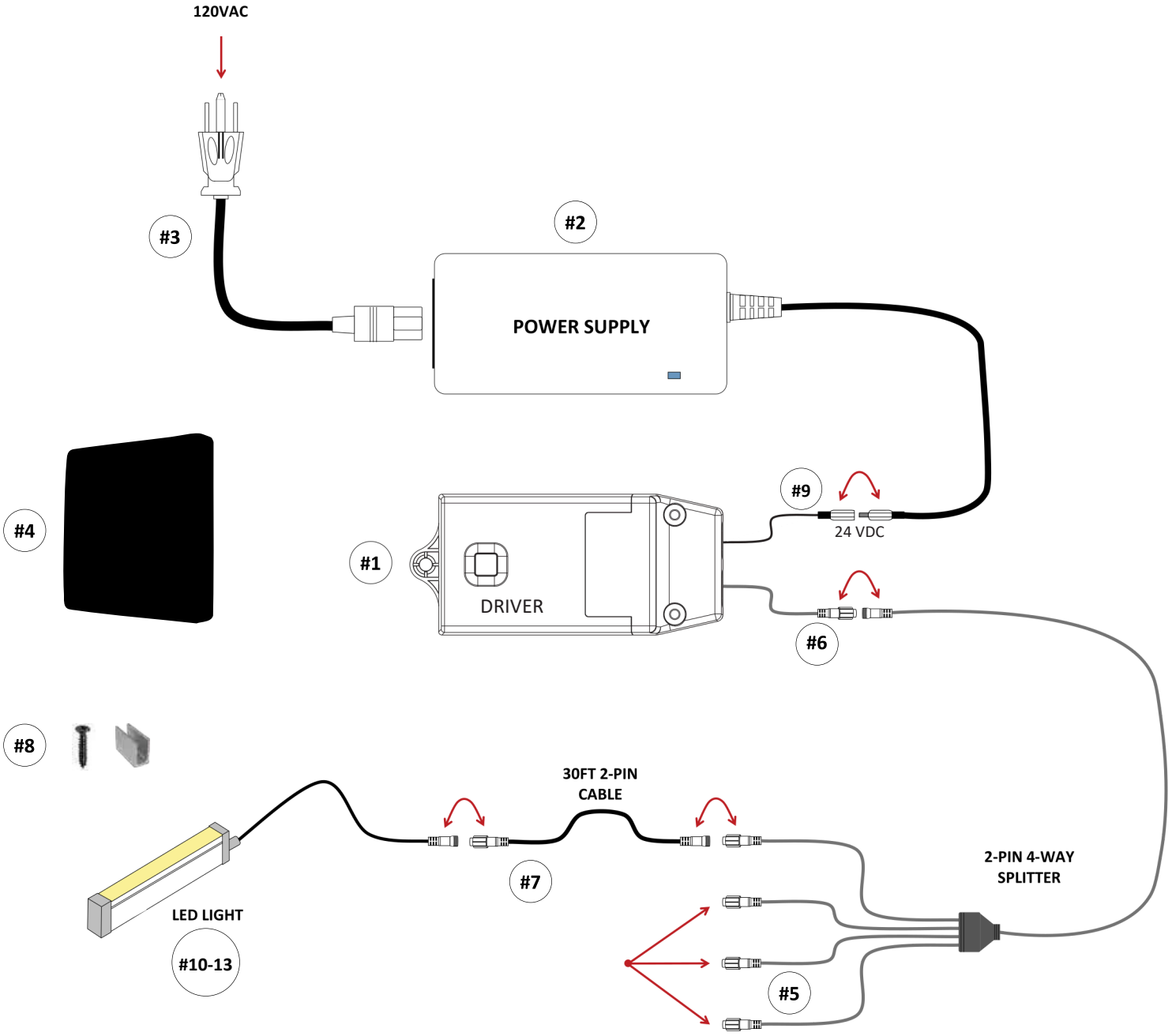
- Verify that Remoteispairedwith the Driver, (see page 10).
- Ensure that the distance from the Remote to the Driver is not more than 98 feet. If it is, relocate the Driver closer to the room.

## Resetting Driver

TheDrivershould not need to be reset under normal conditions. If a reset is needed, follow the steps below.

- Verify power to the Driver
- Press and hold the Match button for 10-15 seconds until the LED indicator goes out.
  **Note:** Resetting Driver will clear any paired remotes and require repairing, (see page 10).

# REPLACEMENT PARTS




| Description | | Part Number |
|---|---|---|
| #1 | RF Driver | BP031198 |
| #2 | Power Supply/90W | BP031137 |
| #3 | AC Power Cord | BP031132 |
| #4 | Control Single-Zone | BP031199 |
| #5 | 4-Way IP67 2-PIN Splitter | BP031075 |
| #6 | 2-PIN IP67 Pigtail | BP031073 |
| #7 | 2-Pin 30ft Cable | BP031077 |
| #8 | Led Light Mounting Clip + Screw | BP031165 |

| Description | | Part Number |
|---|---|---|
| #9 | DC Pigtail Cable | BP031143 |
| #10 | 48” White Led Light | BP031096 |
| #11 | 60” White Led Light | BP031164 |
| #12 | 65” White Led Light | BP031170 |
| #13 | 75” White Led Light | BP031171 |

Rate Outdoors

Technical Support
(773) 435-7596

Manufactured by:

saunalife®

REV - 3.0_12/2025