



---

# Flair Puck & Smart Vent

IN-HOME INSTALL GUIDE  
**CENTRAL SYSTEMS**

questions?  
[flair.co/contact](http://flair.co/contact)

# ★ What you need to know

## What you need prior to installation

1. One Flair Bridge
2. One Puck for each room with Smart Vents. A Flair room can be a physical room, or a group of rooms.
3. Small phillips head screwdriver

**If you plan to wire Smart Vents to AC power, complete Setup with batteries. You'll remove the batteries prior to installing in the duct.**

## What you need during installation

1. Username / password for your smart thermostat account\*
2. Brand / model of mini split remote control(s)\*\*
3. Post-it notes and a pen

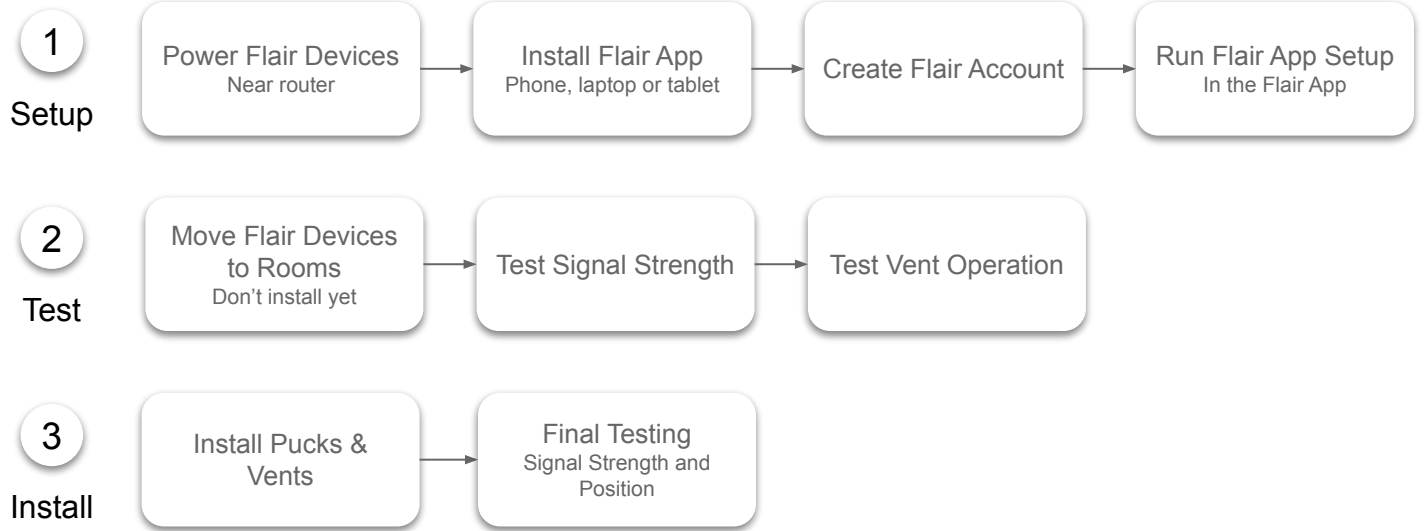
\* When using Flair's Mirror Mode to mirror a smart thermostat set point and mode to mini splits - can be ecobee, Nest, Carrier/Bryant or Honeywell WiFi-connected.

\*\* Email us at [support@flair.co](mailto:support@flair.co) if you want us to check mini split compatibility. Send the brand and model of the remote control - and pictures of the front and back of the remote.

## General Setup Flow

1. Power on Flair devices
2. Install Flair App
3. Run Flair Setup
4. Test System
5. Add users

# ★ Setup, Test and Install Flow



# ① Setup

## 1. Power on Flair Devices

- a. Perform Setup within 10 feet of the modem/router
- b. Power on the Flair Bridge using the supplied cable and USB adapter and plug it into the modem/router using the supplied ethernet cable
- c. Power on Pucks using batteries
- d. Insert batteries into Smart Vents (If wiring, use batteries during Setup and testing, then remove batteries, wire and test again. You'll need a 24VAC transformer.)

## 2. Install the Flair App

The Flair app can be downloaded to a smartphone or a tablet.

- Apple App Store: [flair.co/ios](https://flair.co/ios)
- Google Play Store: [flair.co/android](https://flair.co/android)

Setup can be run using a browser on a WiFi-enabled laptop or computer at [my.flair.co](https://my.flair.co).

## 3. Create a Flair Account

- a. Open the Flair app - or go to [my.flair.co](https://my.flair.co) on a browser
- b. Sign Up

## 4. Run the Flair App Setup

The prompts will lead you through the following steps:

- a. Name the Flair home using your street address
- b. Power on and connect the Bridge to the internet
- c. Add a thermostat - if adding a smart thermostat, follow the prompts to to log in, grant access, and import it into Flair, if not, select "Other thermostat"
- d. Discover and add Pucks and Smart Vents to rooms
- e. When adding Pucks and Smart Vents to rooms, label each Flair Puck or Smart Vent with a Post-it note and the room name

## ② Test

### 1. Move Flair Devices to Rooms

- a. Move Pucks and Smart Vents to rooms
- b. Don't install/mount them just yet - we need to test signal strength and position
- c. You can unplug the Gateway Puck, move it and plug it into a different outlet as necessary

### 2. Test Puck Signal Strength

- a. In the Flair App, go to **Home Statistics**
- b. In the Puck graph, change "Graph Data" to "RSSI (dB)"
- c. Sensor Pucks will show RF signal strength to the Bridge
- d. RSSI is shown in a negative scale - **we want values above -75dB**, values below -75dB may result in signal loss and commands may not get through

### 3. Test Smart Vent Signal Strength

- a. In the Flair App, go to **Home Statistics**
- b. In the Vent graph, change "Graph Data" to "RSSI (dB)"
- c. Smart Vents will show RF signal strength to the closest Gateway Puck
- d. RSSI is shown in a negative scale - **we want values above -80dB**, values below -75dB may result in signal loss and commands may not get through

**To improve signal strength to Pucks**, move the Bridge to a more central location. Ensure Bridge is in a location where it's not blocked by heavy metal objects or impeded by equipment that sends signals.

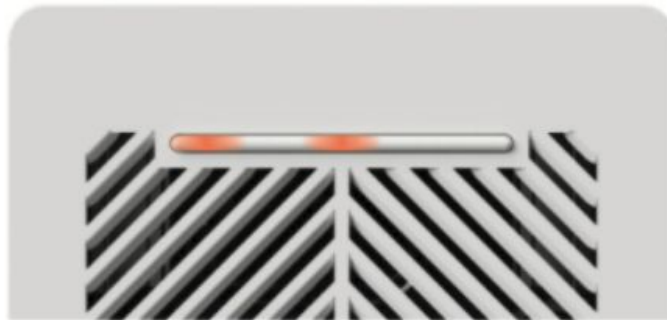
## ② Test - Continued

### 5. Test Smart Vent Open/Close Function

- a. In the Flair app, tap the System button and switch to Manual
- b. For each room, slide the Vent slider to the open and closed position, allowing 30-60 seconds for the Smart Vent to respond
- c. Tap the System button and switch to Auto

**If a Smart Vent is not responding to open/close commands, try resetting the Vent.**

1. Remove the batteries for 60 seconds and then re-insert.
2. Rediscover the Vent
  - a. Tap the Flair menu, go to Home Settings->Flair devices and enable Smart Vent Identification Mode.
  - b. In this mode, the Smart Vent light bars will show their light patterns (see below).
3. Turn off Smart Vent Identification Mode.



# Appendix B: Smart Vent Power Options

Each Smart Vent includes 2 c-cell batteries for power. These batteries can last up to four years with regular use. You can also power the Smart Vent using 24 VAC power or 12V DC power.

Flair Setup will guide you through assembling Smart Vents with batteries. Wiring is done after Setup. Instructions on how to wire to AC power are included in the box with each Smart Vent.

## Power Options



### Batteries

(2 Cs Included)

Best for locations where wired power is unavailable or inconvenient. Typical battery life is 3 to 4 years.



### Wired

(Available on all Flair Smart Vents)

Ideal for new construction and renovations.

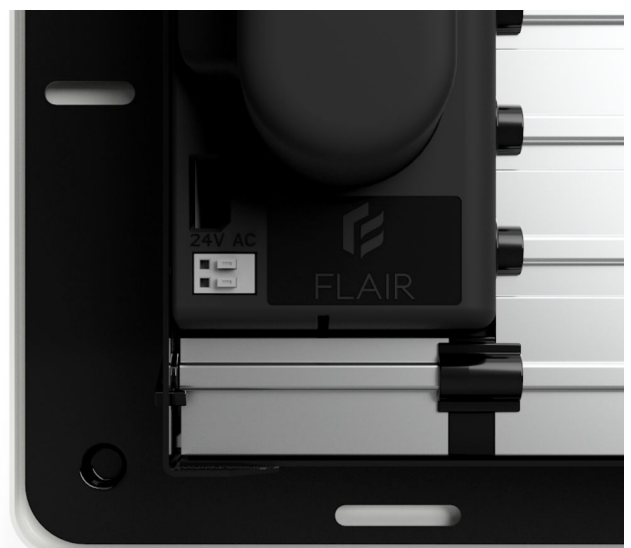
#### **Recommended Transformer**

Elk TRG2440

(available to Flair Pros on the exclusive store)

For more information on wiring Smart Vents, visit

[flair.co/vent-manual](http://flair.co/vent-manual)



# Appendix C: Puck Power Options

## What's in the box...

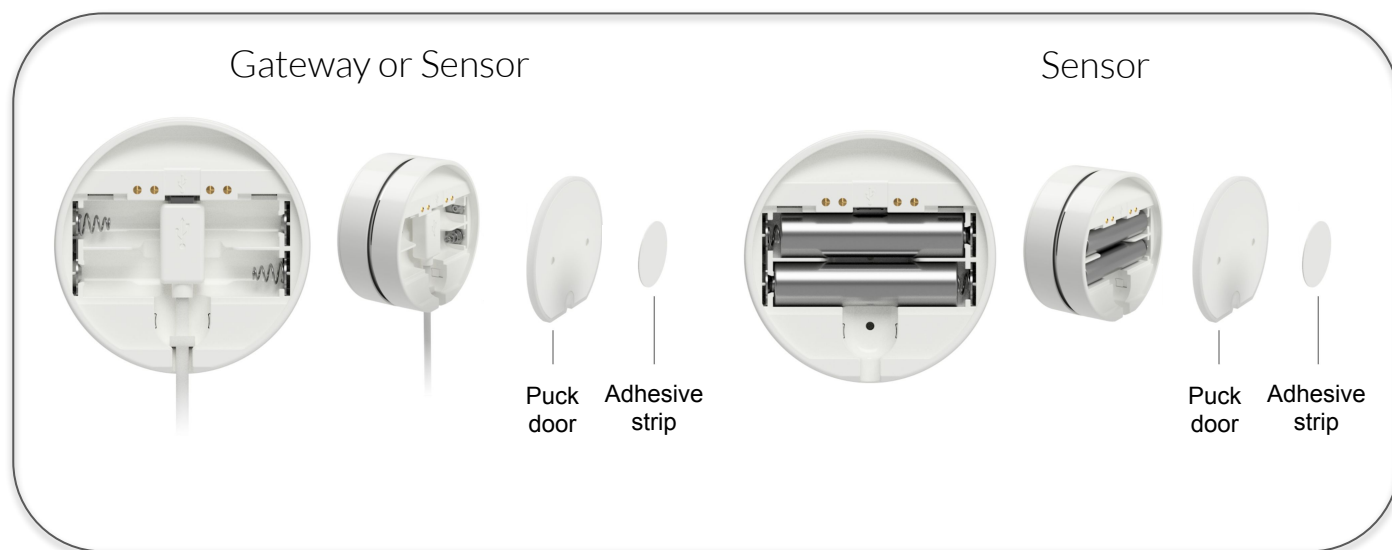
Each Puck includes a USB AC adapter, USB cable, two Lithium Metal AAA batteries, a Puck door, and an adhesive strip.

## Gateway vs Sensor

**Flair Gateway Pucks need to be powered using the supplied cable and adapter.** The Flair USB cable is a specialized cable that only uses the data line.

Flair Sensor Pucks can use batteries for a streamlined install. Sensors Pucks can also be powered using the supplied cable and adapter. Typical battery life is approximately 1 year. Using rechargeable batteries will work, but may give false low-battery alerts.

## Typical Customer Install



## Additional Powering Options

(See next page...)



## Flair Puck USB Mount

Flair's USB Mount adapter allows for a Puck to fit snugly to walls for an elegant and secure placement. Mount where temperature is accurate and reliable.



## USB Outlet PLate



### No Electrician Required!

Cost effective, code compliant, fast and easy to install. Buy at: [flair.co/usb-wall-plate](http://flair.co/usb-wall-plate)

## Wall-Mounted Conduit



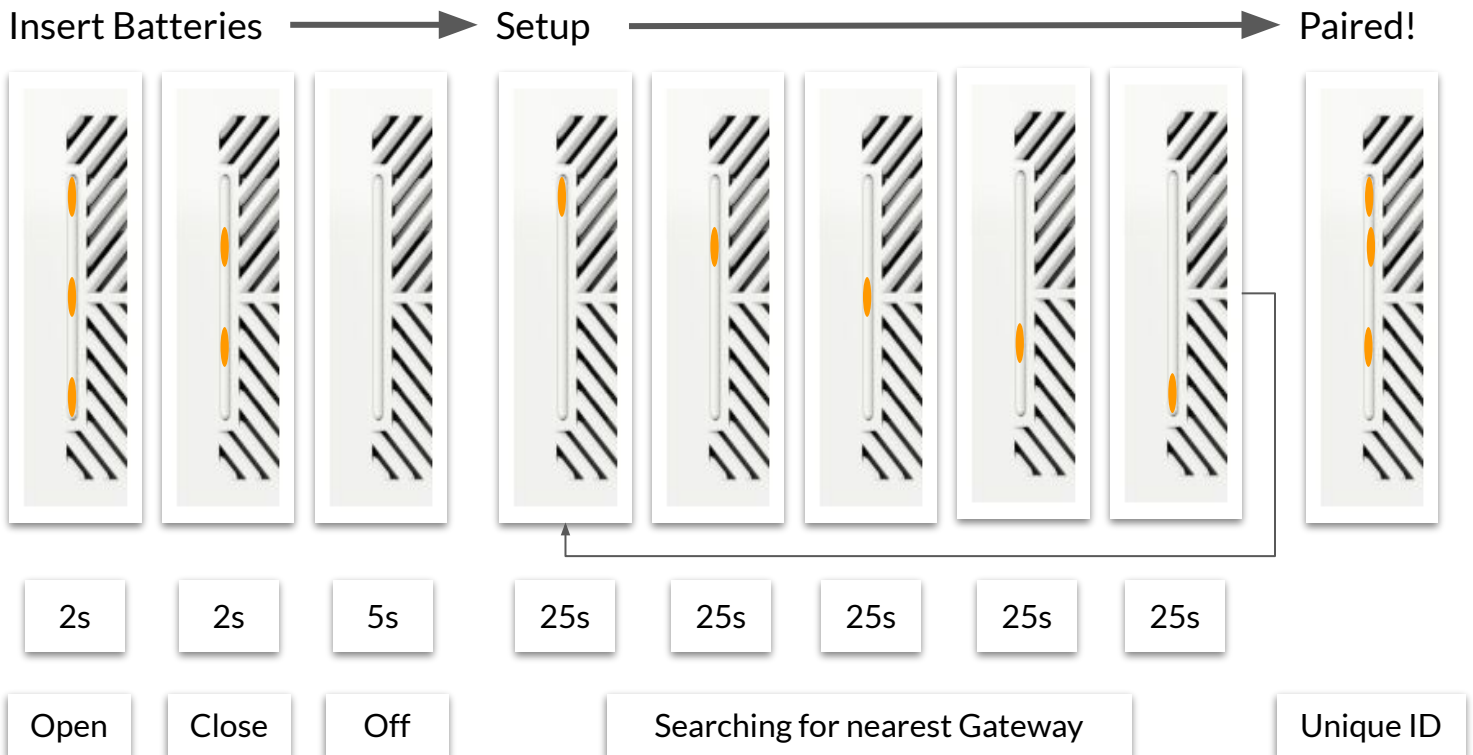
### Great for retrofits!

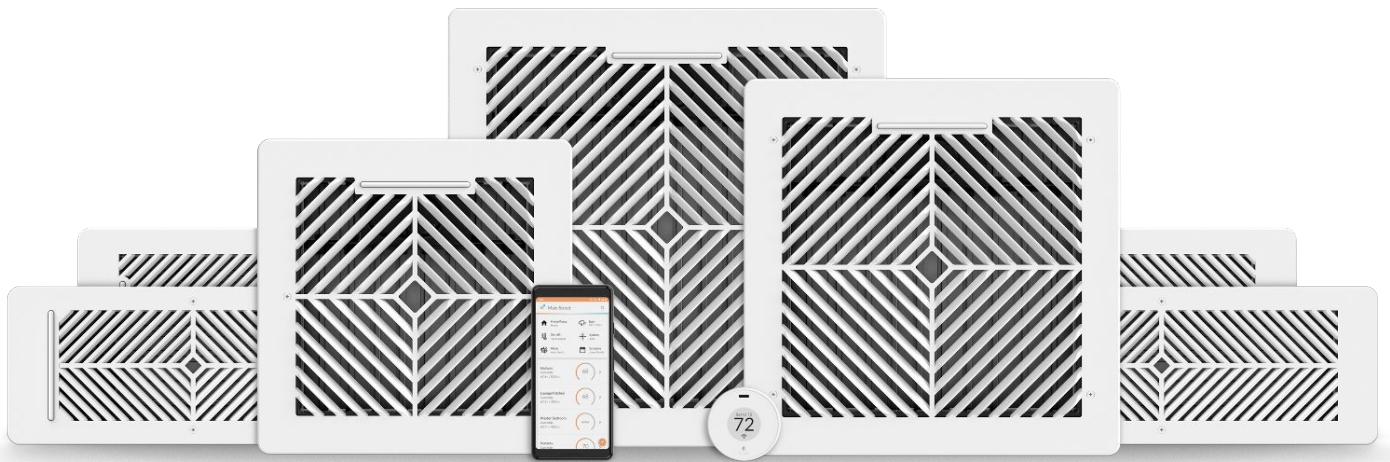
# Appendix D: Vent Light Patterns

When batteries are inserted, the Smart Vent will open and close its louvers, displaying a light pattern of 3 illuminated lights, followed by 2. Then, the lights will turn off.

During Setup, lights will cycle in a pattern until the Smart Vent pairs with a Gateway Puck. This can take up to 5 minutes. After 30 minutes with no pairing, lights will turn off to save battery life. To enter discovery mode again, tap the Flair menu, go to Home Settings->Flair Devices and enable Smart Vent Identification Mode.

When paired with a Gateway Puck, the Smart Vent will display its unique light pattern until Setup is exited, or for 30 minutes. Smart Vents will display their light pattern any time Setup is entered, or when batteries are replaced.





© Standard Euler, Inc.