

# AiQ™ - Calibration for a Confident Start-Up

Calibration is how AiQ™ aligns the combustion system and verifies flame signal detection. Think of it as the heater’s built-in start-up checklist—designed to protect performance and efficiency

## What to Expect from AiQ™ Calibration

Every Flex water heater must perform a **calibration** after initial power-up.

- Initial Calibration should be performed if a unit has NEVER completed a calibration before and Installation/Parts were changed → If Display has been backed to Main Menu, **Power Cycle** the heater to have this Initial Calibration appear.
- Calibration is **critical for efficiency and overall performance**.
  - During calibration, the **Combustion Safety Control (CSC)** monitors the flame signal, which depends on: **Intake air piping, Exhaust piping, and Quality of supplied fuel**

## Calibration Steps

1. **Power On the Heater**
  - After installation is complete, power the unit. - **Enable the heater** to start calibration.
2. **Calibration Progress**
  - Once enabled, a **progress bar** appears on the UIM.
  - Typical duration: **5–10 minutes** (up to 15 minutes max).
3. **Calibration Completion**
  - If successful, the heater enters normal operation.
  - If unsuccessful after 15 minutes: Heater locks out with an **error code**.
  - Common errors: **Calibration Error, Ignition Failure**

## If Calibration Doesn't Complete: What AiQ™ Is Telling You

### Common Causes of Calibration Failure and/or Ignition Failure

Component issues	Installation deficiencies
Dirty burner -caused from new construction debris	Insufficient gas volume or pressure
Gas valve assembly	Incorrect exhaust vent pipe
Igniter gap out of specification	Incorrect intake air pipe
Flame sensor misaligned	
Loose or disconnected wiring	

## Troubleshooting Failed Calibration

- Review installation thoroughly before attempting another calibration.
- Correct installation deficiencies before replacing components.
- If “**Uncalibrated**” appears in the upper left of the UIM : Cycle main power to reach Calibration Screen

AiQ™ is doing exactly what it was designed to do—making sure the Flex water heater is installed correctly and ready to perform at its best from day one.