

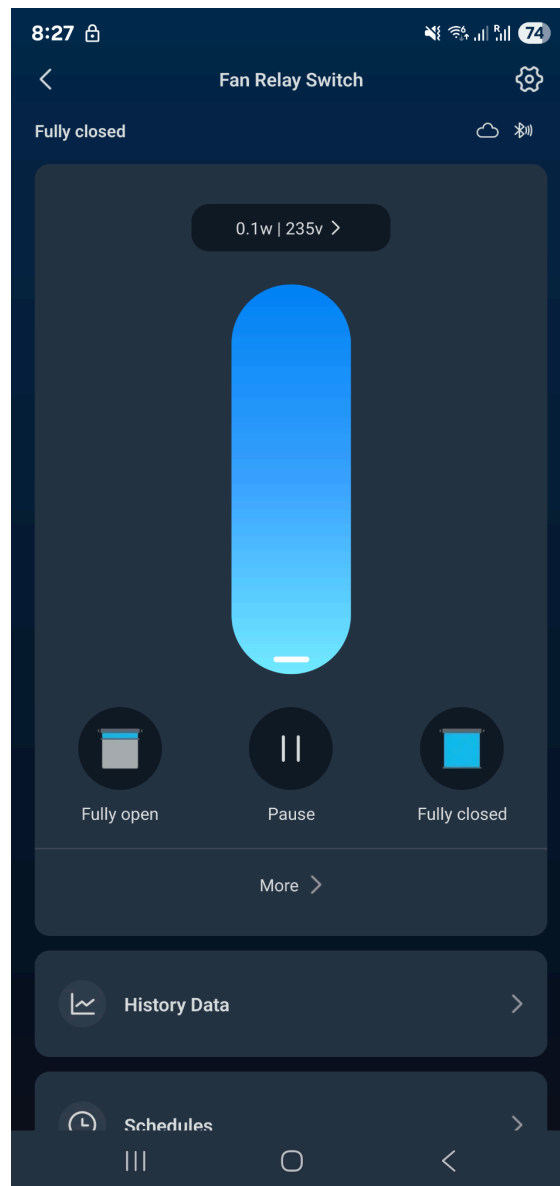
KITCHEN VENTILATION CONTROL SYSTEM MANUAL (KVCS)

Disclaimer: The system has been successfully run and tested at home. This is not a standardized solution or product. This is a non-profit solution only for educational purposes.

I am not liable for any damages that occur before, during, and after installation.

Please hire a professional(Electrician) to do the job.

- 1) Make sure the electrician has all the things listed on the purchasing sheet.**
- 2) Make sure the electrician has made the wiring shown in the electrical Diagram.**
- 3) Download and create an account on the SwitchBot Mobile App.**
Link:<https://play.google.com/store/apps/details?id=com.theswitchbot.switchbot>
- 4) Add all the devices to the app using the 'Manuals' for each device.**
 - *SwitchBot Hub Mini*
 - *SwitchBot Relay Switch 2PM: Installation mode - Cover and Shade*
 - *SwitchBot Contact Sensor: Installation Mode - Others*
- 5) Leave the whole KVCS system switched ON after connections for 2-3 hours before the Electrician fixes it permanently in place.**
Let the firmware updates arrive for all the devices, especially for Relay v1.6 or later.
- 6) As soon as the firmware update arrives for the relay, calibrate the Damper motor using the 'Calibrate Device' function in the Relay Switch 2PM settings.**
 - *When asked, choose 'Fully Open'(state in the software) when the damper is fully open and 'Fully Close' (state in the software) when the damper is fully closed.*
 - *Test the state of the damper by pressing the corresponding button on the app.*

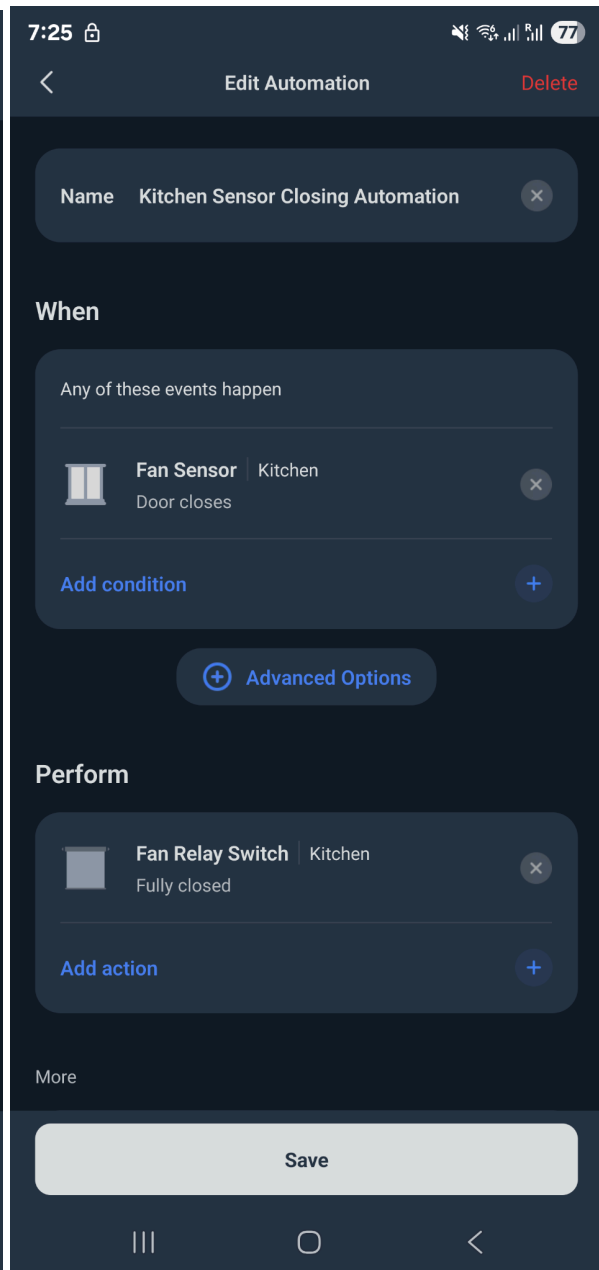
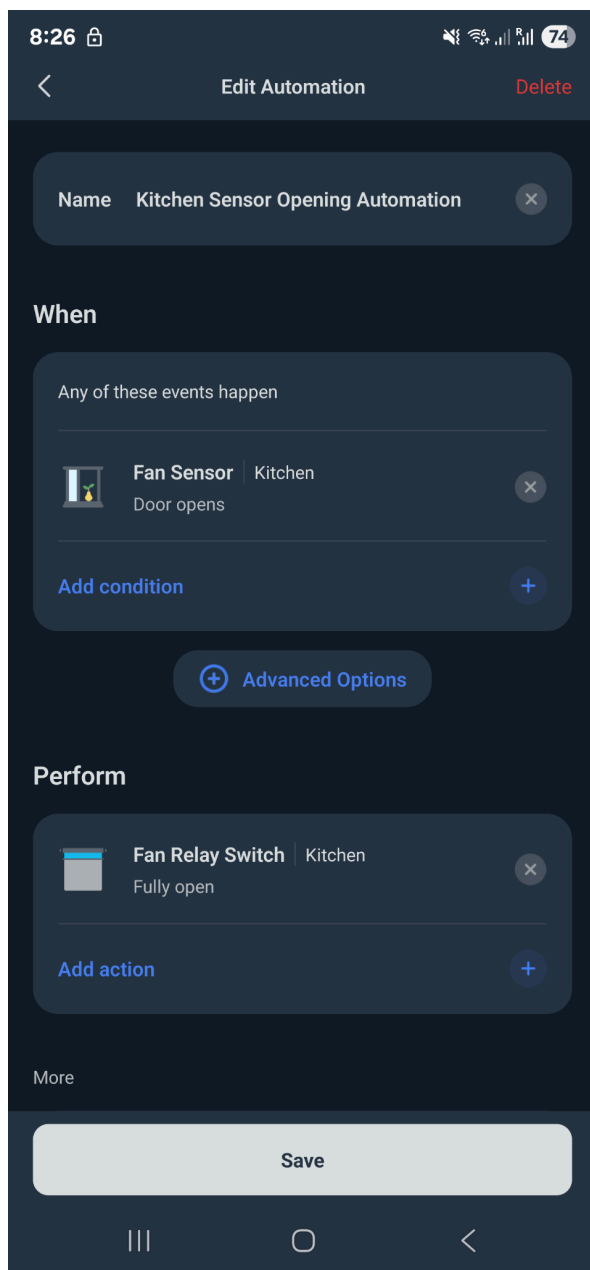


Please note that it only works well after the v1.6 update.

7) Now it's time to create Automation for the KVCS:

Opening the Damper

- *Choose the Automation section from the bottom of the app.*
- *Click the add icon in the top right corner.*
- *Rename the process as picture below.*
- *Add event under When > smart devices > fan sensor > Door Opens.*
- *Add action under Perform > Smart devices > Fan Relay switch > Full open*
- *Turn off notifications and save the Automation.*



Closing the Damper

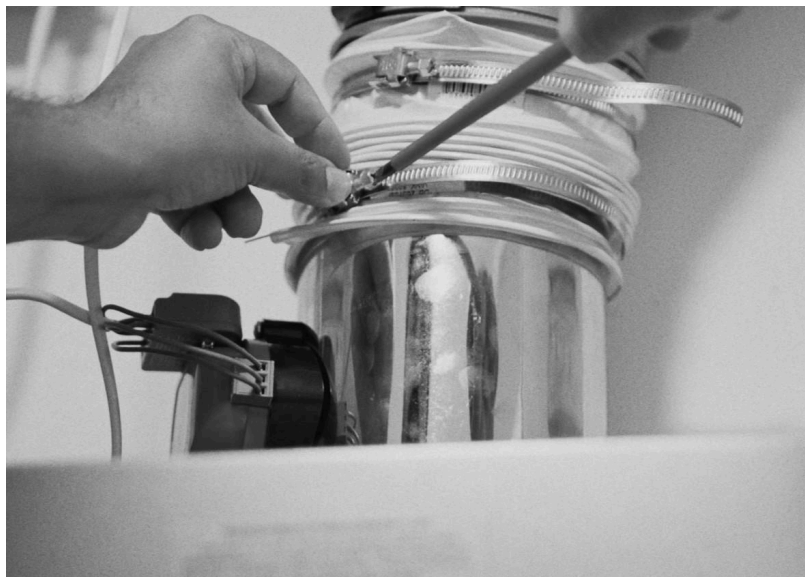
- *Choose the Automation section again from the bottom of the app.*
- *Click the add icon in the top right corner.*
- *Rename the process as picture below.*
- *Add event under When > smart devices > fan sensor > Door closes.*
- *Add action under Perform > Smart devices > Fan Relay switch > Full close*
- *Turn off notifications and save the Automation.*

- 8) Install the Contact sensor on the kitchen exhaust lid as shown in the picture.



Test one last time before fixing it in place using the contact sensor. It usually takes a minute to run the whole cycle.

- 9) Install the KVCS between the exhaust pipe and the extractor hood.



Remember to test the whole functionality before installing the cover.