

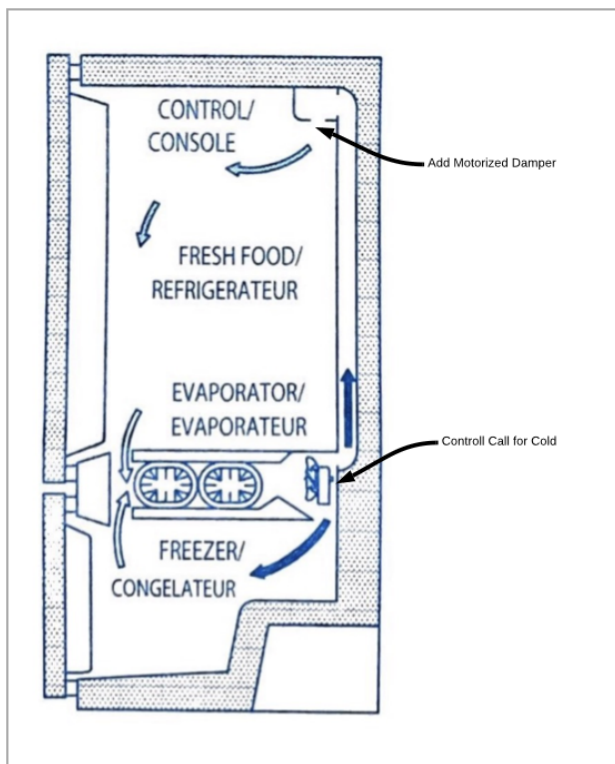
Dual Temperature Controlled Fridge

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Overview

We plan to modify a GE Profile refrigerator such that we can control the temperature of the fridge and freezer section independently.

Fridge: [GE Profile Fridge with Brita](#)

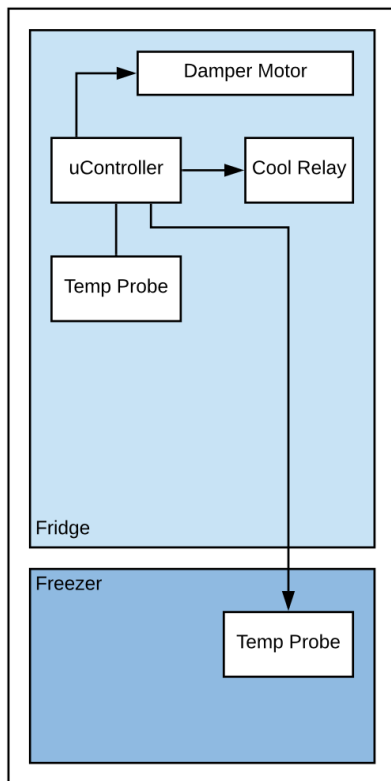


Parts

- Sonoff uController - Sonoff Basic?
- 2x DS18B20 temperature probe
- 4.7K resistor
- Damper Motor & assembly

Design

We are going to add a motorized damper which will allow us to regulate temperature for the freezer and fridge separately.



This will allow us to:

- call for cold when the freezer is not at it's desired temp.
- close the damper when the fridge section reaches it's desired temperature

Damper

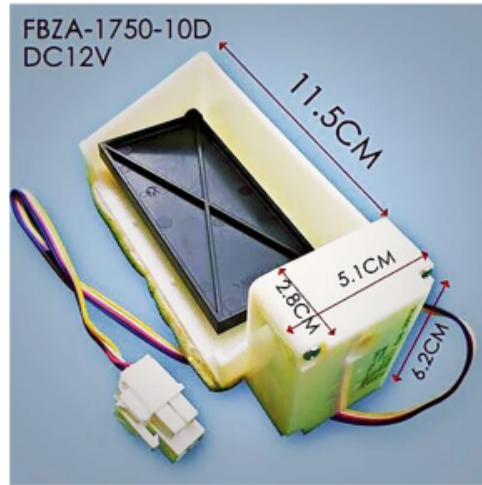
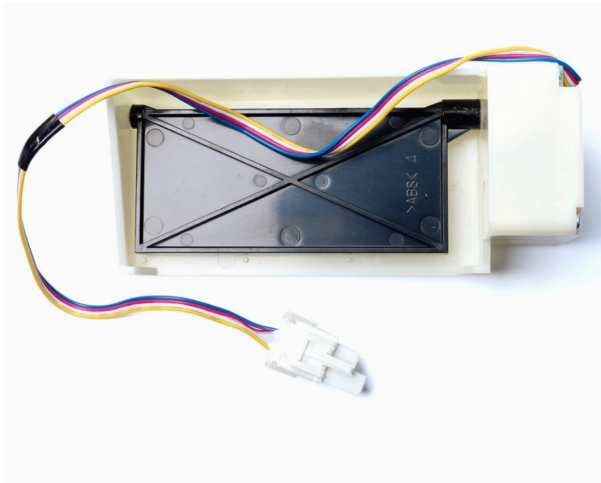
Dimensions: 4 1/6" x 3/4" or 104 mm x 19 mm

Possible Parts

Refrigerator Damper Motor DA31-00043J Fridge Replace Driving Motor Parts for Samsung BCD-285WNMVS FBZA-1750-10D

[Amazon Link](#)

[AliExpress Link](#)



Door Ideas

<https://www.thingiverse.com/thing:1247579/files>



<https://www.thingiverse.com/thing:2908212>

<https://www.thingiverse.com/thing:3170748>

Parts

- servo motor

Build

Pictures

