

ABSTRACT

In buildings where air conditioning is shared between more than one person, it can become uncomfortable for some while others are happy. Now there is no key to this problem without spending thousands of dollars on changing an entire existing system. The goal of our project, is an improvement to the current central air conditioner system. No changes to the present system are needed, just changes to individual rooms. The device provides custom-made A/C control in order to deliver the most amount of comfort to the end user. The device allows people to control the air flow entering their room by using an air blocker to vary the volume of cold or hot air entering into a space. This controls the overall temperature of the room. This means that the customer is able to control the temperature of their own room and not depend on people from other rooms controlling the thermostat. It is sized for a standard 2ft x 2ft air blocker that a normal space already receives air from. Fitting in this space allows for easy installations to happen without changing the entire building system. The device also has the ability to store data over a time span and uses that data to predict what temperature the user would want at a specific time. As the temperature outside changes, personal preference of what the temperature inside should be also changes. The system tracks this, and learns what the end user prefers, then guesses the correct setting and controls the room to this point. The system uses a hot and cold button, without showing the temperature to the end user. It connects to the user automatically as it enters and leaves the space.