

UCM Air Purifier Recommendations

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After reviewing current research on airborne transmissions, air purifier reviews and specifications we are recommending the following:

1. Begin with the purchase of 3 air purifiers for just the 3 rooms where air purification is most urgently needed. We decided that air purifiers are not needed for locations where people are only present briefly.
 - Sam/Becky office
 - Kitchen (Monday and Thursday meal prep)
 - Fireplace room (for meetings with very few people).
2. Purchase 2 Live Pure Bali (good for about 4,000 cubic feet) and 1 Honeywell 300 (good for about 5600 cubic feet). Manufacturers generally recommend purchasing oversized units so they can be set to a somewhat quieter setting when people are present. Each of the units cost about \$300. We recommend 2 of one model and one of a second model - this will give us a sense of the pros and cons of the two models and an understanding of how best to position them. They could be moved elsewhere if a need arose and if they were the proper size for the space.

Sam/Becky's office (about 1100 cubic feet)

- Live Pure Bali (good for about 4000 cubic feet). (Harvard day care purchased 83 of these and find them to be quiet and satisfactory.)
- This is about 3+x oversized and could be run at less than full speed.
- We could investigate further to find a smaller unit if need be.
- The unit could be left on for several hours (with timer) after one employee leaves and then would not need to run while next employee is working.

Fireplace room (about 3100 cubic feet)

- Live Pure Bali (good for about 4000 cubic feet).
- This is a good size for the fireplace room.

Kitchen (about 3900 cubic feet)

- Honeywell HPA 300 (good for 5600 cubic feet).
- We have one at our house and we loaned it to UCM for use in the staff corridor when there were dust and odor issues during work on the basement. It is a little noisy on highest setting ("Turbo") but could be used at a lower setting if only a couple of people are working.
- This was the highest rated true HEPA filter air purifier by Consumer Reports.

3. The larger spaces in the building would require more units per space. We are checking on the only larger model that seems to be available (about 11,500 cubic feet for about \$500), but it is very noisy, and we are having trouble getting complete information on it. We don't have information on the effectiveness of using multiple units in one room.

- Vestry = 4-5 units
 - Sanctuary = 12 units
 - Children's Chapel = 2-3 units
4. For the next couple of weeks, we could consider putting two box fans in a front sanctuary window to pull air out of the sanctuary after use. Later in the year it would likely be too cold.