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Blueair Comments to Energy Star Room Air Cleaners Version 2.0 Specification Discussion Guide

Discussion Questions

- 1) –
- 2) –
- 3) –
- 4) DC motors will become more common in the future. AC motors will however still be around since they are generally cheaper and are also found in many current products that will be around for some time
- 5) Using outdoor air quality data to adjust the setting of the air purifier is generally not a good solution. Outdoor data may be unreliable since there might not be any monitoring stations close to the user or data might be based on “models” rather than measurement. Finally, outdoor data might not reflect the actual indoor air quality since indoor air quality may be affected by indoor sources such as cooking, smoking, household chemicals etc.
- 6) This is common and the most suitable method for an “auto mode” function
- 7) Network connected products (with apps) will benefit customers since they can get information about their products, remotely control their product and adjust settings to their liking. The remote-control function makes it possible to set timers for when the product should run and at what speed. This will allow power consumption to be kept at a minimum when no one is at home.
- 8) In general, the air purifier’s CADR and operating speed shall reflect the room size. If the speed settings of the air purifier are automatically lowered to conserve energy this might affect the pollutant levels negatively.
- 9) We do not believe CADR bins should be implemented.
- 10) We believe Smoke CADR is enough for energy efficiency calculations. Dust is also ok.
- 11) Filter type or filter efficiency alone is not a good measurement of an air purifier’s ability to provide clean air. It also only takes the filter as a component in to consideration. Once the filter is used in the product the system’s overall efficiency might change. We believe CADR is the best way to specify performance and that filter class or filtration efficiency is not a requirement or part of Energy Star.
- 12) No
- 13) No. CADR is a better metric and widely used globally (AHAM, China, Korea, Japan) to specify air purifier performance. Very few established standards use filtration efficiency. Furthermore, many brands that claim filtration efficiency values base these on the filter media performance. Very often there are no efficiency tests done on the complete system.

- 14) Yes, dB(A)
- 15) No. Sound tests should be based on international standards
- 16) No. We do not agree that sound should be a part of the energy star requirements. Noise is not related to energy consumption. Furthermore, noise does not scale linearly with energy or CADR
- 17) -
- 18) Sensor reading might need to be collected more seldom or sensor might not be able to be active while the unit is in standby mode. Wi-Fi might not be possible to be active during standby. This will disable remote app controls.
- 19) -
- 20) -
- 21) We recommend that AHAM is followed. Smoke can be considered to replace Dust
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- 24) We recommend that AHAM is followed. Smoke can be considered to replace Dust
- 25) We recommend that AHAM is followed. Smoke can be considered to replace Dust
- 26) No. We recommend that AHAM is followed.
- 27) We recommend that AHAM is followed.
- 28) We believe that it should be acceptable that products including filters with activated carbon could have a CADR/W that is lower than the CADR/W of a filter not including activated carbon. Activated carbon will lower the overall particle CADR but will instead of a reduction of indoor VOC and gases.
- 29) We believe it will be difficult to define the criteria for such a test. How do you "age" the filter? It will probably be time consuming and expensive.

/Marc Gottlieb, Blueair