

Date issued: 01/22/2008

Subject: International applications of ANSI/AHAM AC-1-2006, Method for Measuring Performance of Portable Electric Room Air Cleaners

Question 1:

How does one test a Portable Electric Room Air Cleaner at voltage/frequency combinations other than 120V/60 Hz?

Answer:

CADR testing for tobacco smoke, dust and pollen will be completed at the voltage and frequency stated on the unit's nameplate. If multiple voltages are specified on the unit's nameplate, CADR values for tobacco smoke, dust and pollen will be measured and reported for each voltage/frequency combination. CADR values must be reported with the associated voltage and frequency of the unit.

Question 2:

How will CADR and room size be reported for Portable Electric Room Air Cleaners that are manufactured and/or sold in countries other than the United States?

Answer:

CADR will be reported as cubic feet per minute (cfm) for all units, regardless of country of manufacture or distribution. Maintaining units in cfm is important to ensure consistency of reporting between all Portable Electric Room Air Cleaner models.

Room size will be reported in both/either English (square feet) and/or SI (square meters) units. For reporting room size in English units, room size should be rounded to the nearest 10 square feet. For reporting room size in SI units, room size should be rounded to the nearest one square meter.

Note: Testing at alternative voltage/frequency and units for CADR and room size will be clarified in the next revision cycle of ANSI/AHAM AC-1.