



Room Air Cleaner Certification Program Procedural Guide

February 2008



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SPONSOR:

ASSOCIATION OF HOME APPLIANCE MANUFACTURERS

1111 19th St. NW Suite 402 Washington, DC 20036

ADMINISTRATOR:

INTERTEK TESTING SERVICES

3933 US Rt. 11, P.O. Box 2040 Cortland, NY 13045-0950

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FOREWORD

The Association of Home Appliance Manufacturers sponsors the Portable Electric Room Air Cleaner Certification Program (“Program”). The Program provides a uniform and commercially practical verification of manufacturers' Clean Air Delivery Rates (“CADR”) for tobacco smoke, dust and pollen. The intent of this industry program is to verify that each portable electric room air cleaner (see definition in Section 1.16) model represented by a manufacturer or brand name owner is consistent within the Program. Participation in the Program is voluntary. An independent laboratory under contract to AHAM provides verification in accordance with the most recent edition of ANSI/AHAM AC – 1 Standard – Method for Measuring Performance of Portable Household Electric Room Air Cleaners.

To participate in the Program, the Licensee must certify and list with AHAM **all** models of portable electric room air cleaners it manufactures unless the models are outside the scope of ANSI/AHAM AC-1 (latest edition) (see Section 3.2.8). The certification seal which appears on the packaging of each unit is the participant's public representation that the stated CADRs of its portable electric room air cleaners have been verified through the program. This seal (and the applicable ratings) must appear on each certified model.

The AHAM License Agreement (“Agreement”) is a contract and is the governing document for participation in the Certification Program. This Procedural Guide (“Guide”) is an extension of, and is incorporated into, the Agreement and provides for the administration and uniform execution of the Program. General information, procedural details and copies of forms are included in the Guide. AHAM’s Air Cleaner Council, as needed, and at their sole discretion, may revise the Guide if such revision is deemed necessary by the Air Cleaner Council.

The Certification Program provides verification only for those room air cleaners that have a CADR within the following parameters:

CADR Range (cubic feet per minute, cfm)

Tobacco Smoke	10 to 450
Dust	10 to 400
Pollen	25 to 450

The above values constitute the limits of the ANSI/AHAM AC-1 Standard Test Procedure (latest edition) and, as such, represent the smallest and largest CADR values that are verifiable under the Program.

A number of forms are used to administer this Program. The current forms and the accompanying instruction booklet, AHAM Portable Electric Room Air Cleaner Certification Program – Instructions for Completing Forms, can be obtained from AHAM or the Program Laboratory.

For additional information, contact:

Director, Technical Services
Association of Home Appliance Manufacturers
1111 19th Street, NW
Suite 402
Washington, DC 20036
Phone: 202-872-5955
www.info.org
www.cadr.org

OR

AHAM Air Cleaner Certification Program
Intertek Testing Services
3933 US Route 11
Cortland, NY 13045
Phone: 800-345-3851
www.intertek.com

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PROGRAM FORMS: Refer to the instructions booklet titled Portable Electric Room Air Cleaner Certification Program – Instructions for Completing Forms

ALTERNATE LABORATORIES: Refer to the Annex to the AHAM Portable Electric Room Air Cleaner Certification Program Procedural Guide, titled Requirements for Qualification of Alternate Test Facilities.

SECTION 1 - DEFINITION OF TERMS

1.1 AHAM LICENSEE

A manufacturer or brand name owner that executed a license agreement as a Licensee with AHAM and is authorized to participate in the Portable Electric Room Air Cleaner Certification Program.

1.2 AIR CLEANER TYPES

Portable electric room air cleaners may be positioned as floor, table, plug-in or wall mounted appliances. Some portable electric room air cleaners may be designed to operate in more than one location - floor, table or wall mounted positions.

1.2.1 Room Air Cleaner - Floor Type

Floor type portable electric room air cleaners are designed to stand alone on the floor of a room and are designated as stand-alone floor models by the manufacturer. Appliances of this type are tested on the floor.

1.2.2 Air Cleaner - Table Type

Table type room air cleaners are designed to set on a table or counter by the manufacturer. Appliances of this type are tested on the table stand.

1.2.3 Air Cleaner - Wall Type

Wall type room air cleaners are designed to attach to a wall and are designated as a wall mountable or plug-in unit by the manufacturer. A wall type unit must include appropriate wall mounting brackets or specifically designated instructions to mount the room air cleaner integrally to the wall (i.e. not a shelf). Appliances of this type are tested on the wall mount stand shown in Annex G of ANSI/AHAM AC-1 (latest edition).

1.2.4 Air Cleaner - Combination Type

Combination type portable electric room air cleaners are designed to operate in one or more orientations/positions (floor, table, wall). A combination type portable electric room air cleaner may be tested at any of the three locations (floor, table, wall) for which it has been designated by the manufacturer.

1.2.5 Air Cleaner - Ceiling Type

At this time no marketable ceiling-type portable electric room air cleaners have been tested through these procedures. Uniform testing practices and statistical examination of such appliances have not been conducted and are considered outside the scope of this method as defined in Section 3.

1.3 BASIC MODEL

A basic model is a single unit that represents a unique performance design configuration. Models identical to the basic model in functional design, performance characteristics and CADR values are considered derivative models including models of different brand names manufactured by the same

Licensee. Collectively these models are called a “Model Group”. Different brand-name models may be in a Model Group. A unit should not be designated as a separate basic model if it has the same CADR as a designated basic model but differs from it only in decorative treatment; rather, it should be considered a derivative of the basic model.

1.4 BRAND NAME

The commercial name by which a product line is known to the consumer as determined and provided by the Program participant.

1.5 CERTIFIED

A statement by the Licensee that the CADR values claimed for tobacco smoke, dust and pollen were determined in accordance with ANSI/AHAM AC-1 Standard, Method for Measuring Performance of Portable Household Electric Room Air Cleaners (latest edition) and are equal to or less than the Maximum Certified Ratings provided by the Program Laboratory.

1.6 CLEAN AIR DELIVERY RATE (CADR)

The measure of the delivery of contaminant free air by a portable electric room air cleaner, always expressed in cubic feet per minute (cfm). More technically, CADR is the rate of contaminant reduction in the test chamber when the unit is turned on, minus the rate of natural contaminant decay when the unit is not running, times the volume of the test chamber as measured in cubic feet.

CADRs are always the measurement of a unit’s performance as a complete system. CADRs have no linear relationship to air movement or to the characteristics of any particular filter media.

1.7 DERIVATIVE MODEL

A unit that has the same performance characteristics and CADR values as the basic model.

1.8 DIRECTORY

A document listing all certified models, CADR ratings and appropriate room size for each participating Licensee. The Directory will also detail information such as if the unit was re-rated.

Compliance with current ozone emission limits is also listed in the Directory. The listing provides an opportunity for the Licensee to report ozone emission information to the public; the Program Laboratory collects this information, but this information is not verified by the Program Laboratory.

1.9 MANUFACTURER

An entity that manufactures portable electric room air cleaners.

1.10 MAXIMUM CERTIFIED RATINGS

Maximum CADR value a manufacturer can display on the “AHAM CADR Seal” for tobacco smoke, dust, pollen and room size. The Maximum Certified Ratings are calculated using the average of three (3) test values that are supplied by the Program Laboratory to the Licensee.

1.11 OZONE EMISSION LIMIT

Underwriters Laboratory Safety Standard 867 (UL 867, Part 37) recognizes 50 parts per billion (ppb) as a maximum ozone emission limit. The Licensee voluntarily provides this information to the Program Laboratory, but this information is not verified by the Program Laboratory.

1.12 PARTICIPANT

An entity whose portable electric room air cleaner model(s) are certified. A participant may or may not be an AHAM Licensee. A non-Licensee participant's air cleaner may be certified if submitted to the Program by another company (either the manufacturer or the brand-name owner) who is an AHAM Licensee.

1.13 PLUG-IN ROOM AIR CLEANER

A fixed location room air cleaner directly connected to an electric receptacle (outlet) by means of direct plug-in (no electric cord).

1.14 PORTABLE ELECTRIC ROOM AIR CLEANER

An Alternating Current electric appliance with the function of removing particulate matter from the air and which may be moved from room to room.

1.15 PRIVATE BRAND RESELLER

An entity that markets but do not manufacture its own brand name units.

1.16 PROGRAM LABORATORY (TECHNICAL ADMINISTRATOR)

An independent testing laboratory under contract to AHAM to determine Maximum Certified Ratings, perform verification tests and collect certified data.

1.17 PROGRAM MODELS

All models whose ratings are required to be certified and submitted to the Program under the terms of the License Agreement, this Procedural Guide and Letters of Instruction from AHAM. Each Licensee shall certify the CADR and supply data on **all** air cleaner models sold or advertised by the manufacturer as portable room air cleaners which are manufactured by it or for it under its brand name(s) for sale within the United States and countries in which a product identical to the United States model is sold (e.g., Canada). Each Licensee shall also certify the CADR and supply data on **all** private-brand models which the Licensee itself is to distribute within the United States and countries in which a product identical to the United States model is sold. For specified countries outside of the United States that do not have models identical to the United States models, Licensees have the option to certify the CADR and supply data on all portable electric room air cleaner models manufactured or sold under its brand name(s) within that country.

1.18 PROGRAM YEAR

The Program year extends from January 1 through December 31 of each calendar year. Models produced and available for sale during this period are considered to be models of the current Program year even though a manufacturer or reseller may market at another time.

1.19 RUN-IN PERIOD

A 48 hour pre-conditioning of portable electric room air cleaners performed by the Program Laboratory prior to verification testing.

1.20 SEAL

The AHAM Air Cleaner Certification Seal is the mark or marks authorized by AHAM for use by all manufacturers and private brand resellers of portable electric room air cleaners who are Licensees in the Program. According to the Program, manufacturers certify and AHAM verifies that the CADR for tobacco smoke, dust and pollen (based upon use of an identified filter, where applicable) of all portable electric room air cleaners whose packaging display this mark are determined and accurately stated in accordance with the ANSI/AHAM AC-1 Standard (latest edition).

1.21 SPECIFIED COUNTRIES

Countries that sell or distribute units that are different to those sold or distributed in the United States. In practical terms, all countries other than the United States and Canada, with at least one Licensee active in the Certification Program, would be considered as specified countries.

The United States and Canada are distinguished from Specified Countries because of more stringent Program requirements. The United States includes all of the states, the District of Columbia, the Territories and other geographical areas associated with, or subject to the jurisdiction of the United States.

1.22 TOLERANCE

Tolerances allow for variations that inevitably occur in any given manufacturing or testing facility. They are not to be used to rate a given model at values other than measured performance. During verification testing, the CADR of any unit shall not be less than 90% of its certified CADR for tobacco smoke and dust, and no less than 80% of its CADR for pollen.

1.23 VERIFICATION TESTS

Annual tests conducted by the Program Laboratory under contract to AHAM in accordance with ANSI/AHAM AC-1 Standard (latest edition) and the Guide for ANSI/AHAM AC-1 (latest edition) to determine the CADR for tobacco smoke, dust and pollen.

1.24 VERIFIED

Confirmation of the Licensee's certified ratings for the removal of tobacco smoke, dust, and pollen by AHAM according to Program procedures.

SECTION 2 - BASIC ROLE OF PROGRAM PARTICIPANTS

2.1 ROLE OF AHAM

- 2.1.1 License manufacturers and private-brand resellers to certify, in accordance with the Program, the CADR accuracy of portable electric room air cleaners sold in the United States, Canada and specified countries.
- 2.1.2 Provide administrative staff for the Program.
- 2.1.3 Authorize use of certification seal reproductions to companies licensed in the Program and provide artwork and text for the certification seal.
- 2.1.4 Oversee publication and distribution of Certification Directory and web page.
- 2.1.5 Collect certification fees and provide an annual budget report to the Air Cleaner Council.
- 2.1.6 Monitor:
 - a. Program participation
 - b. Re-ratings of all models
 - c. Challenges by Program participants. AHAM staff will review a challenge to understand if sufficient information is presented for a challenge.
- 2.1.7 Inform participants of:
 - a. All re-ratings
 - b. Exclusion of any Licensee from the Program
- 2.1.8 Contract with an independent testing laboratory (Program Laboratory) for:
 - a. Examination and monitoring of Licensee's test facilities and quality control procedures or data for those manufacturers submitting data from an alternative test facility.
 - b. Collection and compilation of model data.
 - c. Random test sample acquisition.

- d. Verification testing in accordance with ANSI/AHAM AC-1 Standard (latest edition), and any subsequent revisions or requirements of the Standard, as mutually agreed upon with AHAM.
 - (1) Annual verification testing of certified basic models.
 - (2) Verification testing under the challenge procedure.
 - (3) Verification of voluntary changes in rating.
- e. Issuance of verification test reports (and notices of non-compliance, should testing indicate re-rating necessary).
- f. Determination of Maximum Certified Ratings for initial rating and voluntary or mandatory re-rating(s). If manufacturers are submitting data from an alternate test facility, the Program Laboratory will review the data and determine the Maximum Certified Rating. (See definition of Maximum Certified Rating in Section 1 - Definition of Terms). After completing testing or reviewing alternate test facility data, the Program Laboratory will notify the Licensee of the Maximum Certified Rating on Form A-7 within ten (10) working days.
- g. Calculation of room size in square feet and square meters based on the removal of 80% tobacco smoke particles. Reported room size units will be determined by information provided on Form A-1: Model Data for Directory. Room size calculations are made according to the formula:

$$\text{Tobacco Smoke CADR Value} \times 1.55 = \text{___} \text{ (Room Square Feet)}$$

$$\text{Tobacco Smoke CADR Value} \times 0.144 = \text{___} \text{ (Room Square Meters)}$$
- h. Disposition of all test samples at the Licensee's direction.
- i. Compilation and dissemination to AHAM of all certified models' ratings by brand for subsequent Directory publication.
- j. Compilation and issuance of annual report summarizing individual participant test results and overall Program test data.

2.1.9 Audit the Program Laboratory to ensure that testing and procedures are in accordance with this Guide.

2.2 ROLES OF LICENSEE

2.2.1 Pay AHAM certification fees, based on a fee structure determined by the Air Cleaner Council. These fees are billed in four installments, during each calendar quarter of the current year.

- 2.2.2 Certify the CADR of tobacco smoke, dust and pollen under standard test conditions for **all** portable electric room air cleaners sold in the United States and Canada.
- 2.2.3 Promptly submit model data, contact information and sample acquisition information to the Program Laboratory under contract to AHAM for verification test selection using Forms A-1, A-2, A-3, and A-3A. If any information on the above forms changes throughout the Program Year, then the Licensee should resubmit the updated form(s).
- 2.2.4 Accept the Maximum Certified Rating for CADR determined by the Program Laboratory during testing of the unit.
- 2.2.5 Furnish test specimens at no cost to the Program and pay all shipping costs.
- 2.2.6 Display a facsimile of the AHAM certification logo and seal on the packaging of each certified model, identifying its certified ratings and the recommended room size for effective use.
- 2.2.7 Challenge, if warranted, certified ratings of other Licensees and provide a detailed report documenting the challenge (Section 3.7: Challenge Procedure).
 - a. Forward challenge report with supporting documentation to the Program Laboratory and AHAM.
 - b. Authorize Program to conduct challenge procedure and agree to be responsible for testing costs if the challenged product is determined to be within acceptable tolerances.
- 2.2.8 Change certified ratings in accordance with Program procedures.
 - a. Process a voluntary change in ratings (see Section 3.8: Voluntary Changes in Ratings).
 - b. Mandatory re-ratings. (Section 3.6.9: Finding of Non-Compliance).
- 2.2.9 Submit copies of specification sheets and promotional material to AHAM periodically upon request.
- 2.2.10 Review Directory information and remove models that are no longer produced or available.

SECTION 3 - PROGRAM PROCEDURES

3.1 GENERAL INFORMATION

3.1.1 Factors Certified

Under this Program, the Licensee uses the Maximum Certified Rating provided by the Program Laboratory to certify the CADR for tobacco smoke, dust and pollen in accordance with the ANSI/AHAM AC-1 Standard (latest edition).

3.1.2 Entry To The Program

Licensee enters the Program by having an authorized company representative sign a License Agreement with AHAM and remitting all necessary initiation fees. Contact AHAM for application information and the Program Laboratory for testing information and testing fees.

3.1.3 New Participants

All models must have established CADR ratings based on ANSI/AHAM AC-1 Standard (latest edition) before entering the Program. These tests may be performed by the Program Laboratory (Section 3.5: New Models).

3.1.4 Qualification of Alternate Test Facilities

If a Licensee submits data to the Program that was not generated by the Program Laboratory for the purposes of determining the initial Maximum Certified Ratings, AHAM reserves the right to make periodic visits to the alternate test facility using Program Laboratory representatives or other technical experts. During a visit, the alternate test facility will be examined, as well as quality control procedures for adherence to the AHAM Portable Electric Room Air Cleaner Certification Program Procedural Guide and the ANSI/AHAM AC-1 Standard (latest edition). AHAM reserves the right to require initial and periodic correlation testing between the alternate test facility and the Program Laboratory.

The visit to the alternate test facility will generally last one 8-hour day, but will not be terminated until complete. The alternate test facility should provide technical data on the calibration of instruments used, information from the cross-testing of units with the Program Laboratory, and other regularly conducted calibration-work data. Forms for recording data, calculation sheets, and other work materials should also be made available for review.

The cost of the correlation testing and the visit(s) will be paid for by the alternate test facility.

Refer to Section 3.5.3b for details on the submittal of test data generated from an alternate test facility.

Annual verification testing can only be performed by the Program Laboratory, not by alternate test facilities (Section 3.6.2).

3.1.5 Policy

The AHAM Air Cleaner Council, composed of AHAM member companies, is responsible for deciding all policy matters, and reports to AHAM's Portable Appliance Division Board.

3.1.6 Certification Seal

The AHAM certification seal must appear on the portable electric room air cleaner packaging box independent of any other label. An approved facsimile of the "AHAM CADR Logo" must appear on the front of the box. The approved facsimile of the "AHAM CADR Seal", including the certified values, must be displayed on the packaging of each certified air cleaner model and may appear on the side panel (for examples, see the Graphics Standard). Either logo or seal may also appear, at the Licensee's option, on the air cleaner itself and on advertising literature (Section 4.1: Rules for Use of the Seal and Advertising).

Logo and seal artwork are available directly from AHAM and must be displayed on the packaging box within sixty (60) days after becoming a program Licensee. The Air Cleaner Council may, at their discretion, change the design of the seal. The redesigned seal must replace prior designs on the packaging box within six (6) months after approval.

3.1.7 Air Cleaner Certification Program Funding

The Air Cleaner Council determines the annual Certification Fees based on total sales volume and the estimated number of basic models. The Council may, at their discretion, change the funding options for the Certification Program. From this funding, AHAM pays for all costs associated with first sample testing, except sample acquisition costs. A portion of this funding may be used for the promotion of the Program to retailers and consumers, as determined by the Air Cleaner Council.

3.1.8 Yearly Production Survey

AHAM issues a yearly production survey to each Licensee in order to calculate fees for the Program. The Licensee is responsible for returning and certifying that the information is accurate and correct.

For outsourced products, use the following guidelines to determine which entity involved in an outsourcing agreement must pay the fee:

- a. If a Licensee buys products from another Licensee, the purchasing Licensee is responsible for the resulting certification fees and must include the outsourced units in its own production figures (i.e., count the outsourced units as their own production).
- b. If a Licensee buys products from a non-Licensee, the Licensee is responsible for the resulting certification fees and must therefore include the outsourced units in its product figures (i.e., count the outsourced units as their own production).
- c. In the case of an alternative arrangement (i.e., selling Licensee agrees to pay the certification fees), the purchasing Licensee has the ultimate responsibility

of ensuring the outsourced product production data is properly reported and certification fees are paid.

3.1.9 Billing/Invoices

Licensees are invoiced quarterly. If invoices are not paid within 90 days after the invoice date, the participant will be given written notice that they have an additional 45 days to become current, or have its product ratings removed from the Certification Program Directory. Removal from the Directory will result in termination from the program. If a terminated company wishes to rejoin the program, it will be required to pay all outstanding invoices, and a full year program fees in advance.

3.1.10 Sample Selection Fees

The Program Laboratory will coordinate the selection of test samples for verification. The Program Laboratory will bill fees for the selection of units directly to the Licensee.

3.1.11 Termination

Upon being notified of termination from the Certification Program, the company will within sixty (60) days cease distribution into commerce portable electric room air cleaners with packaging bearing the product certification seal. AHAM will immediately remove the listing of their models from the web site (www.cadr.org) and the Directory.

3.1.12 Publication of Directories

AHAM will maintain a listing of all current certified models. This list will be displayed in the on-line Directory of Certified Portable Electric Room Air Cleaners. This listing will be made available to anyone requesting it.

A hard copy of the Directory will be published in January and July of each year. A PDF version of the Directory is published quarterly in January, April, July and October. The AHAM on-line Directory is continuously updated.

Models will be listed in the Directory by standard voltage/frequency combinations. All voltage/frequency combinations will be specified on Form A-1: Model Data for Directory. Typical voltage/frequency combinations are listed below and should be used when specifying electrical supply details for testing and the Directory:

Europe	230V	50 Hz
North America	115V	60 Hz
Japan	100 V	50/60 Hz
China	220 V	50 Hz
Australia and New Zealand	230 V	50 Hz

Room size will be reported in both/either English (square feet) and/or SI (square meters) units, depending on the units specified in Form A-1: Model Data for Directory.

All fees and submission of a completed Form A-1: Model Data for Directory to the Program Laboratory is required before models will be published in the Directory. Form A-1 serves as authorization for AHAM to publish a model's certified values.

3.1.13 Directory Information

The Air Cleaner Certification Directory displays currently listed models with their CADR ratings and appropriate room size. The Directory will also detail information such as if the unit was re-rated.

3.1.14 Program Forms

The forms listed below are used to administer this Program. The forms and the accompanying instruction booklet, Portable Electric Room Air Cleaner Certification Program – Instructions for Completing Forms, can be obtained from AHAM or the Program Administrator.

<u>Form Number</u>	<u>Title</u>
A-1	Model Data for Directory
A-2	Cross Index of Model Numbers by Brand
A-3	Contact and Selection Site Form
A-4	Portable Electric Room Air Cleaner Selection Report
A-5	Portable Electric Room Air Cleaner Verification Testing Report
A-6	Non-Compliance Notification
A-7	Notice of Maximum Certified Rating
A-8	Request for Model Deletion
A-9	Challenge Request Form

3.2 CERTIFICATION DATA AND INFORMATION TO BE SUPPLIED BY LICENSEE

3.2.1 Licensee Information

Licensee shall provide the Program Laboratory with the following information to determine the proper identification of models and responsible individuals. Further information on Program forms can be found in Portable Electric Room Air Cleaner Certification Program – Instructions for Completing Forms.

- a. Models Data for Directory (Form A-1)
- b. Participants' certified basic models and all derivatives of each basic model (Form A-2)
- c. Contact information and sample selection site (Form A-3)
- d. Models no longer produced (Form A-8)

3.2.2 Unit Selection

Licensee must provide units for sample selection within thirty (30) days from the Program Laboratory request for samples. If at all possible, the Program Laboratory will select the test units randomly from manufacturer or distributor inventory or from a current shipment to a

distribution point as advised by the manufacturer. Alternatively, test units may be purchased on the open market.

Licensees should assure that all basic models are available for testing within each Program year for as long as those models are in the stream of commerce. If the manufacturer does not supply a sample for unit selection or give the location of a retail outlet to purchase the product, the model will be removed from all subsequent directories until such a time that the samples are provided and tested (Section 3.6.5: Acquisition of Test Samples).

3.2.3 Mandatory Certified Models (Program Models)

Each Licensee shall certify the CADR and supply data on **all** portable electric room air cleaner models sold or advertised by the manufacturer as portable electric room air cleaners which are manufactured by it or for it under its brand name(s) for sale within the United States and Canada and **all** private-brand models which the Licensee itself is to distribute within the United States and Canada.

For specified countries outside of the United States and any country in which a model identical to the United States model is sold (e.g., Canada), Licensees have the option to certify the CADR and supply data on all portable electric room air cleaner models manufactured or sold under its brand name(s) within that country. For example, Company X in Country Z has the option to certify CADR and supply data on all models of portable electric room air cleaners distributed in Country Z.

The United States includes all of the states, the District of Columbia, the Territories and other geographical areas associated with, or subject to, the jurisdiction of the United States.

3.2.4 Submission of Data

Certification data for a new model subject to the Program must be submitted no later than the first day the model is sold or advertised as a portable electric room air cleaner, whichever occurs first. The estimated date on which production of certified units will begin must be included in the data provided to the Program Laboratory.

3.2.5 Carry-Over Model

The Licensee must also submit data on carry-over portable electric room air cleaner models (models whose production started in previous years but which are still being produced during the current Program year) for certification purposes. Once a model has been submitted for certification, it must continue to be certified throughout the lifetime of the model, (i.e., for as long as the model is available for sale at the distributor level). Identical model numbers are to be carried over from a prior year if no physical changes are made to the models that affect their certified ratings. However, if a carry-over model is to have a different certified rating from its previous rating, because of a functional design change or use of a different filter, the Licensee must provide an acceptable identification method to the Program Laboratory.

A carry-over model is subject to testing again even though tested during the prior year. The Licensee is responsible for maintaining the performance of that model and must advise the Program Laboratory of any changes in production that may affect its certified values.

3.2.6 Certified Models of Prior Production Still Being Marketed

The Licensee may also submit data on certified models no longer being produced but which are still available for sale by the brand-name owner. Certified models may continue to be submitted as long as they are being marketed by the brand-name owner and will be subject to annual testing and, if applicable, a basic model fee.

3.2.7 Optional Certified Models

The manufacturer-Licensee may certify CADR and supply data on private-brand portable electric room air cleaner models that it manufactures for sale within the United States and Canada by an entity separate from and unrelated to it. In order to have such private brands included in the Certification Program, the manufacturer shall certify CADR and supply data on all portable electric room air cleaner models that it manufactures for the same private brand for sale within the United States and Canada.

The Licensee may, at its option, selectively certify and supply data on portable electric room air cleaner model(s) for sale within specified countries. If such units are to be certified in the AHAM Program they must be reported to AHAM and the Program Laboratory for verification and inclusion in any appropriate production surveys. Packaging for these units must display the certification seal in accordance with this Guide (see Section 4.1.2: Language Translation of AHAM Seal).

These certification requirements apply to all models to be sold, whether or not they are sold for test market purposes, in a limited quantity, or in a specified market area.

One half of each Licensee's basic models are subject to verification testing requirements (Section 3.6.2: Verification Test). The Licensee is responsible for maintaining the performance of that model and must advise the Program Laboratory of any changes in production that may affect its certified values. For new participants in the Program, each certified basic model will be verified during the first year.

3.2.8 Parameters for Eligibility

The lower and upper limits of measurability of ANSI/AHAM AC-1 (latest edition), and therefore this Certification Program, are noted below:

CADR Ranges (lower limit to upper limit)

Tobacco Smoke	10 to 450 cfm
Dust	10 to 400 cfm
Pollen	25 to 450 cfm

A portable electric room air cleaner is eligible for the AHAM Certification Program if at least one of the unit's CADR values (tobacco smoke, dust or pollen) falls at or above the lower limit of measurability noted above.

Each CADR of a unit that meets the lower limits of measurability must be certified if the model is sold or advertised by the Licensee as a portable electric room air cleaner. The AHAM certification seal appearing on unit packaging with a rating below the lower limits of measurability must carry the following type of statement (or equivalent) for the CADR values that fall below the limits:

Tobacco Smoke	"Less than 10 CADR"
Dust	"Less than 10 CADR"
Pollen	"Less than 25 CADR"

All applicable statements above must follow any pollutant for which the CADR is too small to be accurately quantified under this Certification Program.

CADR values above the upper limit of measurability (see above) cannot be accurately quantified under this Certification Program. Therefore, if the CADR for tobacco smoke, dust or pollen exceeds the upper limit of measurability, the AHAM CADR seal must carry the following type of statement (or equivalent):

Tobacco Smoke	" <u>450</u> CADR or greater"
Dust	" <u>400</u> CADR or greater"
Pollen	"450 CADR or greater"

3.2.9 Rounding Procedures

Licensees may choose to round the room size issued by the Program Laboratory on Form A-7: Notice of Maximum Certified Rating as follows:

	<u>English Units</u>	<u>Metric Units</u>
Room size calculation ending in 4 or less	Round down to nearest 10 square feet	Round down to nearest one square meter
Room size calculation ending in 5 or more	Round up to nearest 10 square feet	Round up to nearest one square meter

No rounding is allowed for the CADR values provided on Form A-7: Notice of Maximum Certified Rating. Rounding procedures for data and calculations follow Annex D of ANSI/AHAM AC-1 Standard (latest edition).

3.3 APPLICABLE STANDARD

3.3.1 Certified Ratings

Under the Program, Licensees certify the CADR for tobacco smoke, dust and pollen (based upon use of an identified filter, if applicable), determined in accordance with the ANSI/AHAM AC-1 Standard (latest edition). This standard is published under separate cover and is available to all interested parties upon request from AHAM.

The Program Laboratory will conduct random verification tests and evaluate test data within the framework of the Standard, License Agreement and Procedural Guide. It is the responsibility of each participant to rate units in accordance with these documents and test results obtained from the Program Laboratory.

Licensees must use all practical means at their command to continuously assure that the certified ratings of their air cleaners are in compliance with Program requirements.

3.3.2 Tolerance

The intent of the industry is to assure that the CADR for all portable electric room air cleaners produced by each Licensee are 100% of the certified ratings. Tolerances allow for variations that inevitably occur in any given manufacturing or testing facility. They are not to be used to rate a given model at values other than the average performance values of all units from the assembly line.

The CADR of any production unit tested during verification tests shall not be less than 90% of its claimed CADR for dust, 90% of its claimed CADR for tobacco smoke and 80% of its claimed CADR for pollen.

3.4 GLOBAL REQUIREMENTS

3.4.1 Units

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 calculations will be specified in both/either English units (square feet) and/or metric units (square meters).

3.4.2 Voltage/Frequency

Certified CADR for tobacco smoke, dust and pollen shall be reported at the operating voltage and frequency of the equipment, as described on the model's nameplate and reported on Form A-1: Model Data for Directory. If multiple voltages are specified, CADR values for tobacco smoke, dust and pollen will be measured and reported for each typical

voltage/frequency combination (see Section 3.1.12 for a list of typical voltage/frequency combinations).

Verification will be completed at the voltage and frequency specified on the equipment's nameplate. All verification reports will specify the voltage and frequency used during verification.

3.5 NEW MODELS

3.5.1 New Participants and Licensees

All portable electric room air cleaner models in production in a new participant's product line on and after the date the License Agreement is signed must be certified (see Section 3.2.8 for model eligibility requirements).

3.5.2 New Models

New models must be submitted to the Program on Form A-1: Model Data for Directory, no later than the first day they are advertised or sold by the Licensee as portable electric room air cleaners.

3.5.3 Preliminary Testing

All models must have established CADR ratings based on ANSI/AHAM AC-1 standard (latest edition) before entering the Program. If the preliminary testing is performed at the Program Laboratory, payment to the Program Laboratory for such testing is the responsibility of the Licensee and is to be handled strictly between the Program Laboratory and the Licensee. A CADR rating can be established by one of the following two procedures:

- a. At least three production units or three units of the prototype model must be submitted to the Program Laboratory to ascertain certified ratings (Maximum Certified Rating values will be displayed on Form A-7: Notice of Maximum Certified Rating within ten (10) business days).
- b. Licensee may use its own or any other testing facility to ascertain certified ratings. If manufacturers are submitting data from an alternative test facility, the Program Laboratory will review the data and determine the Maximum Certified Rating. In such case, at least three units of the prototype model must be tested. The Program Laboratory, acting for AHAM in its auditing function, must be provided with the alternate testing facility's specifications and quality control procedures for obtaining the certified values. Any time such a model is submitted to the Certification Program, Form A-1: Model Data for Directory must be submitted to the Program Laboratory. After reviewing alternate test facility data, the Program Laboratory will notify the Licensee of the Maximum Certified Rating on Form A-7: Notice of Maximum Certified Rating within ten (10) business days.

3.6 VERIFICATION TESTING

3.6.1 Run-in Period

All air cleaners will be run-in by the Program Laboratory prior to verification testing. The pre-test run-in period will be conducted in a clean environment for approximately 48 hours. Filter models will be run-in with their filters removed from the machine to prevent any build-up of pollutants on the filter. If an air cleaner cannot be operated without the filter in place, then the Program Laboratory will contact the manufacturer to determine how the mechanism can be bypassed in order for the unit to be operated without a filter, or the Licensee has the option of providing an extra production filter at the time of selection to be used during the run-in period only. Non-filter models will be thoroughly cleansed after the run-in period and before verification testing to assure a comparably clean condition.

A run-in period will pre-condition all types of air cleaners to average use conditions prior to testing at standard conditions.

3.6.2 Verification Test

The Program Laboratory under contract to AHAM will perform annual verification testing. Tests at the Program Laboratory are to be performed on a randomly selected sample (new and unused) from the Licensee's regular production. One half of each Licensee's basic models (or derivatives thereof) submitted for certification shall be tested annually. One hundred percent (100%) of all Licensee basic models shall be tested within a two (2) year period.

If twenty percent (20%) or more of the Licensee's basic certified models result in a final test failure, then one hundred percent (100%) of the Licensee's basic models shall be tested. If the test failure rate for one hundred percent (100%) of the Licensee's basic models is less than twenty percent (20%), then testing will resume to one half of the Licensee's basic models the following year.

For new participants in the program, each certified basic model will be verified during the first year. If samples must be purchased on the open market, fees will be billed directly to the Licensee.

Verification testing may be performed throughout the year. However, certified models may be re-tested at any time if there is reason to believe that there has been a detrimental change in a model's performance. This will be considered an Administrative Challenge, and the party in error (Licensee or Program) will pay fees for the testing (see Section 3.7: Challenge Procedure).

Testing at the Program Laboratory will be conducted in accordance with the methods specified in ANSI/AHAM AC-1 Standard (latest edition). Units packaged and ready for distribution with a filter enclosed in the carton will be tested with the enclosed filter.

For each selected model, the Program Laboratory will test according to the 'Testing Priority' provided by the Licensee on Form A-1: Model Data for Directory. If the Licensee does not provide a priority, then the test will be done in the order of tobacco smoke, dust and pollen. It is the constant aim of the Program Laboratory to keep abreast of technical advances in this

field, and changes in testing procedures and methods will be periodically reviewed by the Air Cleaner Council to determine the feasibility of their application to the Certification Program.

3.6.3 Verification of AHAM Seal

During verification testing, the Program Laboratory will review the seals and the packaging with reference to the Program to determine if it is in accordance with this Guide and compare the stated values on the seal to the Certified Rating. When violations occur, the Program Laboratory will notify AHAM within ten (10) business days. AHAM will take appropriate action in accordance with this Guide (Section 4.1.3: Improper Ratings and Claims).

3.6.4 Verification Test Report

The Program Laboratory's findings will be given to the Licensee responsible for the model on a standard report, Form A-5: Report of Verification of a Portable Electric Room Air Cleaner. This report is confidential to the Licensee and shall not be used for commercial or advertising purposes.

Once a model has been submitted for certification, it must continue to be certified throughout the life of the model (i.e., for as long as it is available for sale at the distributor level). The Program Laboratory will hold the results of all testing in strict confidence, except for:

- a. Communication with the Licensee with regard to test results and findings on Licensee's own unit(s); or
- b. Communication with AHAM in regards to test results and findings which AHAM deems necessary for the proper operation of the Program.

3.6.5 Acquisition of Test Samples

The Program Laboratory will coordinate sample selection availability with the Licensee. A selector will then make a random selection of units from manufacturers' and distributors' stocks, from a current shipment to a local distribution point, or may purchase from the open market if not otherwise available. The Program Laboratory will bill fees for unit selection directly to the Licensee. Participants are required to provide test samples to the Program on a consignment basis, if at all possible, and ship PREPAID to the Program Laboratory. The Program Laboratory, upon completion of testing, will return test samples to the Licensee unless the Licensee, at the time of shipment to the Program Laboratory, instructs the Program Laboratory to ship such samples to Licensee's designee.

3.6.6 Shipping and Invoicing Information

If the Program Laboratory finds it necessary to purchase a test unit, the Licensee will be invoiced for the full purchase price plus travel costs and time at the Program Laboratory's normal rate. If the test sample has been supplied to the Program Laboratory on a consignment basis, it remains the property of the supplier and will be returned accordingly.

3.6.7 Return of Test Units

Test units shall be returned to the appropriate Licensee, in all instances, approximately fifteen (15) business days after the Licensee's receipt of its test results; unless the Program Laboratory is notified by the Licensee during those fifteen (15) business days that additional testing is desired on that unit(s). Returned unit(s) will be sent on a COD basis, unless the Licensee has made previous billing arrangements with the Program Laboratory.

3.6.8 Finding of Compliance

When the results of verification tests indicate that the certified rating is within the allowable tolerances as specified in this Procedural Guide (Section 3.3.2: Tolerance), verification is automatically established for the model tested and its derivative models. The certified rating is continued in the Directory and a copy of the test report is forwarded to the participant.

If measured values are greater than the certified rating, manufacturers may choose to voluntarily re-rate the model (see Section 3.8: Voluntary Changes in Ratings).

3.6.9 Finding of Non-Compliance

Non-compliance occurs if verification tests indicate the model is not within the allowable tolerance range for any of the three certified ratings.

The Licensee must select one of the following options within twenty-one (21) business days from the receipt of Form A-6: Non-Compliance Notification. If the Licensee does not select any option within this time frame, then the Program Laboratory will select Option 2 – Re-rate, and the Licensee will be required to follow the procedures outlined under Section 3.6.11: Notification of Revised Ratings.

a. Option 1 - New Filter Testing

Request (at the Licensee's expense) that the unverified pollutant(s) be tested an additional two times with new filters. The request to test the specific unit an additional two times, with a new filter in the unit for each test, must be made within twenty-one (21) business days from the receipt of Form A-6: Non-Compliance Notification. The Program Laboratory (at the Licensee's expense) will choose a random filter sample. If the filters are not available, another choice must be made from the listed options below. Using the average of the three tests as the result, the verification is complete if the average rating falls within tolerance. If the average of the three tests is outside the tolerance allowed for its stated values, the Licensee may choose to test a second sample (Option 3), re-rate (Option 2) or discontinue the model (Option 4).

b. Option 2 – Re-rate

If a Licensee elects not to have an additional filter or unit tested, they shall, within twenty-one (21) business days from the receipt of Form A-6: Non-Compliance Notification, revise the stated certification value in accordance with the Program Laboratory's determination for the model tested and for all derivatives of that basic model. The decision by the Licensee shall be provided in writing to the Program Laboratory and the Licensee shall follow the procedures outlined in Section 3.6.11:

Notification of Revised Ratings.

c. Option 3 - Second Sample Selection

This option authorizes the Program Laboratory to obtain and test an additional unit of the same basic model (at the Licensee's expense). The request for a selection of a second sample of the model must be made within twenty-one (21) business days from the receipt of Form A-6: Non-Compliance Notification from the Program Laboratory.

A verification test, using the methods in ANSI/AHAM AC-1 Standard (latest edition), will then be performed. The certified ratings are continued if the results of the second sample indicate that the certified ratings are within the allowable tolerances. If the unit performs outside the tolerance for its stated values, the Licensee must choose to either re-rate or discontinue the model (see Option 2 above and Option 4 below).

If a second sample is not available for random selection within twenty-one (21) business days from receipt of Form A-6: Non-Compliance Notification, the Licensee must re-rate or discontinue the unit and all derivative models based on the Program Laboratory's test results of the operative sample or samples. The Licensee must follow the procedures outlined in Section 3.6.11: Notification of Revised Ratings.

If the Licensee exercises Option 3, Second Sample Selection and the test unit fails, the Licensee shall re-rate the model to the average of the first and second sample tests. The Licensee must follow the procedures outlined in Section 3.6.11: Notification of Revised Ratings.

d. Option 4 – Discontinue the Model

The Licensee must discontinue the model, produce no additional units of that model, and show it as a revised rating in the next edition of the Directory under the heading "Discontinued Models". In the subsequent Directory edition, it will show as a deleted model if no further units are in the marketplace. The Licensee must send written notice to AHAM and the Program Laboratory within twenty-one (21) business days from the receipt of Form A-6: Non-Compliance Notification, stating no further production will occur for this model.

When a model has failed verification testing, has been discontinued by the Licensee and has been replaced by a counterpart model, the counterpart model shall carry a new model number and shall be subjected to the provisions under New Models (see Section 3.5: New Models).

If the Licensee believes that the unit selected for Verification Testing is not representative of units produced, the Licensee may request the Program Laboratory to analyze the unit or choose to have the unit returned for analysis.

If the Program Laboratory or Licensee identifies a random defect (Section 3.6.10: Random Defect), the test result will be voided provided the Licensee provides an analysis/explanation of the defect within twenty-one (21) business days from the receipt of Form A-6: Non-Compliance Notification.

If random defect analysis is performed in the Program Laboratory and the defect is obvious to all parties, the test result will be voided and a second sample will be selected and tested per Section 3.6.2: Verification Test. The purchase cost and test costs of the second sample will be billed to the Licensee. At the Licensee's request, the Program Laboratory technical staff is available to assist the Licensee in verifying the blower wheel rpm, ionizer output, power input, seals, filter characteristics, airflow rates, etc.

If the Licensee performs random defect analysis in the Licensee's facility, the test result will be voided and two additional samples will be selected and tested per Section 3.6.2: Verification Test. Both samples must pass the test criteria of the Program to remain certified. The purchase cost and test cost of the two additional samples will be billed to the Licensee.

3.6.10 Random Defect

In order for a unit to be considered a random production defect, there must be some aspect of the unit that is noticeably defective. Examples of defects could include such things as visible physical damage to the enclosure, malfunctioning ionizer, restricted airflow, improper seals, or the wrong filter.

3.6.11 Notification of Revised Ratings

If model re-rating is required, the Program Laboratory will send Form A-6: Notice of Non-Compliance, using certified return receipt mail, to the Licensee responsible for the model. This notice clearly states the next steps to be taken by the Licensee:

- a. Shall, within twenty-one (21) business days from the receipt of Form A-6: Non-Compliance Notification, revise all future stated claims, in accordance with the Program Laboratory's determination for the basic model group. The revised claim must not be greater than the Program Laboratory's findings. The Licensee must submit to the Program Laboratory an updated Form A-1: Model Data for Directory, and if appropriate, Form A-2: Cross Index of Model Numbers by Brand.
- b. Shall, at its expense, within twenty-one (21) business days from the receipt of Form A-6: Non-Compliance Notification, give written notice of the revised claim for each model within the basic model group (whether or not all are currently in production) to AHAM and the Program Laboratory.
- c. Shall, within thirty (30) days of receipt of Form A-6: Non-Compliance Notification, correct the certified rating displayed in conjunction with the AHAM certification seal facsimile on the packaging of all future units of that model(s) produced, and shall furnish copies of such revised certification seal facsimile rating to AHAM.

- d. Shall revise labels of existing inventory within three (3) months.
- e. Shall revise all literature and advertising (for example, specification sheets, full line folders, ad mats, plus any other sales promotion and/or advertising materials that could be used with potential customers) within three (3) months.
- f. Shall provide corrected copies of literature, publicity, packaging, etc. to AHAM and all channels in its first line of distribution within three (3) months of re-rate.

When the Licensee, within the allowable time period, takes the required actions, AHAM will advise other Licensees by letter of the re-rate action.

If the Licensee fails to take any of these actions in the allowable time period, AHAM will notify the Licensee that it is in default under the Licensee Agreement, and request that the notices be sent immediately. All other Licensees will be advised of the re-rate action by a letter from AHAM. If the above actions are not completed, AHAM will take appropriate steps to terminate the Licensee from the program.

A Licensee who is terminated from this Program shall not, upon receipt of notice from AHAM of its termination, reproduce the certification seal on the packaging of any air cleaners thereafter manufactured by or for its company and shall make no further reference to AHAM's certification seals or Certification Program. Money paid to AHAM quarterly as certification fees will not be refunded.

Revised ratings will be kept on file at AHAM and made available to anyone requesting information on certified ratings. Notice of termination of a participant will be sent to other Licensees and relayed to other interested parties on request.

Licensees observing or receiving reports of re-rated models on display or advertised at other than the re-rated value are urged to report the fact, with identifying details, such as the safety listing agency date code, to AHAM. AHAM will bring the facts to the attention of the Licensee responsible for the brand involved without identifying the source of the complaint, and request a report of corrective action taken. Within thirty (30) days, the Licensee responsible for the brand must take corrective action and furnish a report evidencing such action to AHAM, or will be excluded from the Program.

3.6.12 Basic Model Brand Name Re-ratings

The Program requires that a basic model and all models derived from that basic model shall be re-rated if any one derivative of that basic model group is re-rated. This includes all brands of the basic model whether manufactured by the Licensee or for the Licensee by another manufacturer.

3.7 CHALLENGE PROCEDURE

A Licensee may challenge the certified ratings of another participant's model. A challenger must complete and submit Form A-9: Challenge Request Form to the Program Laboratory.

For the challenge to take place, the Licensee must include an explanation of why the challenge should be granted, and authorize the Program Laboratory to proceed at the challenging Licensee's expense for the initial Program Laboratory test. Upon receipt of this information, the Program Laboratory shall notify AHAM. AHAM will notify the challenged Licensee in writing, with copy to the Program Laboratory, of the challenge instituted. The Program Laboratory will then acquire a sample of the challenged model and perform verification testing. AHAM and the Program Laboratory shall keep the identity of the challenger under this challenge procedure in strict confidence.

This challenge procedure may also be initiated by AHAM, at its discretion, should a model's rating(s) be in doubt. This procedure will be funded from Program funding if the challenge is not substantiated. If it is substantiated, the challenged Licensee must pay for all costs incidental to the test(s).

If the challenge is not upheld, the challenging Licensee must pay the Program Laboratory for all costs incidental to the test(s). The test unit will be shipped, COD, to the challenger.

If the Program Laboratory results do not verify the challenged Licensee's certified ratings, the model must be re-rated (Section 3.6.11: Notification of Revised Ratings). The challenged Licensee, (i.e., the party in error), must pay all testing costs incidental to the Program Laboratory in this instance.

Note that additional tests (which may be requested by the challenged Licensee as provided under the verification procedure) will be conducted at the challenged Licensee's expense, regardless of the Challenge Procedure outcome. Any additional tests on the challenged derivative model beyond the Challenge Procedure, as requested by the Licensee, will be at their own expense.

3.8 VOLUNTARY CHANGES IN RATINGS

Licensees are allowed to make adjustments to the certified ratings as warranted by reason of quality control data review or annual verification testing. This may be done at any time and does not affect the Licensee's financial obligations under the challenge procedure if it should be in effect during the time the voluntary change is made.

A Licensee must notify the Program Laboratory and AHAM when a voluntary change in certified rating is made and provide the Program Laboratory with the revised rating for the model on a revised Form A-1: Model Data for Directory. If the rating is to be greater than previously certified, the Program Laboratory must first select and test a sample of the model to support the increased rating. This additional test is not necessary if all previous Program Laboratory verification test results on the model support the increased rating. The Licensee will be responsible for all fees associated with the testing. In the event the Program Laboratory's test is unable to verify a Licensee's increased voluntary change in rating, the original certified rating will remain in force.

The Licensee shall provide corrected copies of literature, publicity, packaging, etc. to AHAM and all channels in its first line of distribution within six (6) months of re-rate. The voluntary change in ratings will also be kept on file at AHAM and relayed to interested parties on request.

SECTION 4 - RULES FOR USE OF THE SEAL, ADVERTISING AND PROMOTIONAL REFERENCES TO THE PROGRAM

AHAM has no interest in or authority to limit any claims that do not directly impinge on the validity or credibility of the AHAM Portable Electric Room Air Cleaner Certification Program Scope. Validation of claims made outside the Program parameters requires separate and independent substantiation.

4.1 RULES FOR USE OF THE SEAL AND ADVERTISING

Licensees are encouraged to properly use and promote the Certification Program and the certification seal in specifications, literature and advertising.

4.1.1 Reproductions of the AHAM Seal

Licensees must display the AHAM certification logo and seal on the packaging of each unit marketed as a portable electric room air cleaner. Reproductions of the AHAM certification logo and seal on air cleaner packaging or on any sales or advertising literature should conform to the following guidelines:

- a. Certified values must be empirical, not estimated.
- b. Size of the seal should be such that all lettering is legible.
- c. The word content of the seal should be identical to the artwork provided by AHAM. For languages other than English, see Section 4.1.2.
- d. Voltage and frequency of the unit should be stated. If the unit has multiple voltage/frequency combinations and only one combination will be verified, the CADR at the lowest voltage must be reported.
- e. The certified ratings and room size must be accurate, clearly distinguishable and filled into the appropriate areas of the seal. The CADR value cannot be greater than the Maximum Certified Rating provided by the Program Laboratory.
- f. Only CADR for tobacco smoke, dust and pollen are certified. No implication should ever be made that the seal covers any other feature or performance factor.
- g. Room size is based on removal of 80% tobacco smoke particles on a continuous steady-state basis, assuming one room air exchange per hour. The following formulas shall be used to calculate room size:

CADR Value _____ x 1.55 = _____ (Room square feet)

CADR Value _____ x 0.144 = _____ (Room square meters)

- h. Room size is based on an 8 foot (2.4 meter) ceiling, which should be so stated in any literature or documentation that refers to the room size.
- i. Claims may be made on the basis of the stated room sizes or by direct conversion of room sizes to area (length x width).
- j. Room size in square feet or square meters, based on 80% removal of tobacco smoke particles, must be displayed on the “AHAM CADR Seal.” No other implication should be made about the removal of particles as they relate to room size.
- k. Room size or area claims on Licensees’ packaging shall not be in conflict with certified values. Performance claims must be at or below the allowable room size based on the CADR for tobacco smoke.
- l. Non-particulate claims (e.g. odors, gases, chemicals, etc.) must be kept distinct from claims on certified particulates (i.e. tobacco smoke, dust and pollen).
- m. A claim similar to the following example shall NOT be made on certified products: “Make your room 3000 times cleaner.”

4.1.2 Language Translation of AHAM Seal

For models produced and/or distributed in languages other than English, Licensees must provide AHAM with a representative translation of the AHAM logo and seal. After confirmation of the translation, AHAM will add the approved, translated seal to the AHAM artwork CD. A one-time administrative cost, determined by the Air Cleaner Council, will be charged to the Licensee for translation verification and development of the AHAM Seal in the approved language. This seal would then be available on the artwork CD for use by all Licensees.

CADR values are shown as unitless on the AHAM seal, regardless of country of manufacture or distribution. However, units of cubic feet per minute (cfm) are always inferred.

4.1.3 Improper Ratings and Claims

During annual verification testing, the Program Laboratory will evaluate the seal to determine if it is in compliance with the current ratings listed in the Directory. In the event an incorrect room size or area claim is made on either unit packaging or in advertising or promotional literature, AHAM will immediately notify the Licensee making the incorrect claim that it is in violation of Program procedures and instruct the Licensee to correct the information. Within thirty (30) days of written notice from AHAM, all units being produced shall have the correct information on the package. Within three (3) months following AHAM’s written notification, all warehouse inventories, advertising, packaging, and literature must have the correct information.

In the event of an improper rating or claim, AHAM will notify all other Licensees of the improper ratings and claims. Failure to take the actions as specified within the allowable time period will result in termination of the Licensee by AHAM.

4.1.4 Statement to Accompany Seal Reproductions on Literature

Reproductions of the seal may be used in advertising or promotional literature. However, there may be no alteration in seal designs and all copies should be legible in reproductions. When so used, the following statement, or one similar to it, may appear in close proximity to the seal:

This is a facsimile of the AHAM seal. When this seal is displayed on portable electric room air cleaner packaging, it signifies that these ratings are certified accurate by the manufacturer and verified by the Association of Home Appliance Manufacturers as complying with ANSI/AHAM AC-1 Standard (latest edition).

4.1.5 Mixing Certified and Non-Certified Models

Portable electric room air cleaner models that are not certified may not be listed, indicated or described in literature, advertisements, or point-of-purchase material in which AHAM certified models are also listed or described in such a way as to imply that all are certified. If certified and non-certified models are displayed in literature or catalogs, a designation shall be shown of which units are and are not AHAM certified.

4.1.6 Defining What is Being Certified

Only the CADR for tobacco smoke, dust and pollen (based upon use of an identified filter, if applicable) are certified. No implication should ever be made that the seal covers any other feature or performance factor.

Any other quantitative performance claims for tobacco smoke, dust or pollen removal appearing on the same packaging or literature as the AHAM certification seal must be clearly defined by AHAM test data, must include a time period and room size and should be shown to be a scientifically sound derivation of certification test results. Other performance claims cannot imply or state that they are based on AHAM test results.

Literature that refers to models available with alternate filters should carry a statement such as:

"Certified ratings as stated are based on ____ filter, and may be affected by use of other filters."

Use and care instructions for models which require a one-time run-in period to reach a consistent level of performance should clearly state that optimum performance will not be achieved until the unit has been operated for an identified amount of time.

4.1.7 Reference to the Program Laboratory

Any reference to the Program Laboratory under contract to AHAM must clearly indicate that its function in the Program is limited to testing and technical administration.

For instance, the statement "Clean Air Delivery Rate is verified by AHAM based on tests by a Laboratory under contract to AHAM" is acceptable. But the statement "Clean Air Delivery Rate is verified by AHAM and a laboratory" is not acceptable, for it implies incorrectly that the Program Laboratory has a separate verifying function.

4.1.8 Examples of Improper Use or Statements

These rules and suggestions were established to properly promote the Air Cleaner Certification Program and are not intended to otherwise limit or restrict participants' advertising.

Examples that are unacceptable because they might cause confusion as to the scope of the AHAM Portable Electric Room Air cleaner Certification Program are:

- a. Accurate uses of the AHAM seals and statement of scope, except when the statement is immediately followed by a phrase such as: "You know you're getting all the clean air delivery you're paying for." (AHAM makes no verification as to the sales value of any particular model).

- b. Any use of the following is unacceptable:

"AHAM rated clean air delivery. The Association of Home Appliance Manufacturers' seal is found on the packaging of all (brand name) air cleaners and signifies that all performance data are certified as accurate." (All performance data are not certified.)

"Every ... air cleaner rating is AHAM verified." (Every rating is not verified -- only clean air delivery rates.)

"Clean air delivery rates are certified by AHAM." (The clean air delivery rate is certified by the Licensee, and verified by AHAM.)

4.2 SUBMISSION OF SPECIFICATION SHEETS AND PROMOTIONAL MATERIALS FOR PROGRAM INSPECTION

Two copies of the following shall be forwarded to AHAM upon request:

- a. Two copies of specification sheets for models subject to the Program;
- b. Two copies of promotional literature which refer to, illustrate, or describe certified models.

AHAM will review these to assure that references to the AHAM seal and Program provisions are in accordance with these recommendations.

SECTION 5 – OZONE EMISSION INFORMATION

5.1 SCOPE

AHAM provides Program Licensees the opportunity to report portable electric room air cleaner compliance with UL 867, Part 37 in the AHAM Portable Electric Room Air Cleaner Directory. Inclusion of ozone emission information is voluntary. Information is collected by the Program Laboratory, but this information is not subject to independent verification testing by AHAM.

5.2 DEFINITION OF AND BASIS FOR OZONE EMISSION LIMIT

An ozone emission limit of 50 parts per billion (ppb) is recognized by the U.S. Food & Drug Administration for medical products and is referred to in U.S. EPA guidelines for indoor air quality as measured by UL 867 (latest edition). This value, as measured by UL 867 (latest edition), is also recognized by California Law as the limit for emissions from portable electric room air cleaners sold in the state.

5.3 DATA SUBMISSION FOR INCLUSION IN CERTIFICATION DIRECTORY

Voluntary submission of ozone information will be included in the Certification Directory for Portable Electric Room Air Cleaners. Licensees interested in providing ozone emission information must do so on Form A-1: Model Data for Directory.

5.4 INCLUSION OF OZONE EMISSION INFORMATION ON PACKAGING

Licensees may communicate their ozone emission information on their packaging by whatever method they determine. Since ozone emission information is not part of the Program, no statements shall be made that are similar to the following:

"Ozone emission information is certified by AHAM." (Ozone emission information is neither certified nor verified by AHAM.)

"The safety of this unit has been certified (or verified) by AHAM." (AHAM does not evaluate, certify or verify the safety of portable electric room air cleaners.)