

# Report No. 3111146CRT-001

February 7, 2007

---

<b>Report Scope</b>	Performance testing of a Portable Household Cord Connected Room Air Cleaner
<b>Limitation Statement</b>	The test data and results contained in this report are provided for client information and evaluation. No conclusions are drawn by Intertek.
<b>Authorization</b>	The tests were authorized signed Intertek Quote No. 500013347 dated December 1, 2006.
<b>Standards Used</b>	ANSI/AHAM AC-1-2006 entitled, "American National Standard Method for Measuring Performance of Portable Household Electric Cord-Connected Room Air Cleaners"
<b>Sample Description</b>	Three Brookstone Pure-Ion Advanced 561274 units were supplied by the client and received on January 11, 2007 and appeared to be in good condition.
<b>Dates of Tests</b>	February 6-7, 2007

---

## Test Method:

Tests were performed in accordance with ANSI/AHAM AC-1-2006 entitled "American National Standard Method for Measuring Performance of Portable Household Electric Cord-Connected Room Air Cleaners". This standard method has defined limits of measurability. The practical limits of measurability are: Dust 10 to 400 CADR, Tobacco smoke 10 to 450 CADR and Pollen 25 to 450 CADR. The statistical validity of test results outside of the stated practical limits is questionable and unevaluated. Clean Air Delivery Rates (CADR's) were determined using Tobacco Smoke, AC Fine Test Dust, and Paper Mulberry Pollen. Monitored particle size ranges for the three particulates were as follows: Smoke - 0.09-1.0 microns; Dust - 0.5-3 microns; Pollen - 5-11 microns.

## Test Equipment List:

Equipment Used	Model Number	Intertek Control #	Cal. Due Date
Laser Aerosol Spectrometer	HSLAS 0.065	N829	2/22/07
Aerodynamic Particle Sizer	3321	A-261	1/31/08
Fluidized Bed Aerosol Generator	340000	--	--
Temperature/Humidity Sensor	HMW30YB	T680	1/19/08

## Device Under Test Description

The devices tested for this report were three Brookstone 561274 / Filterstream A550 Air Cleaners. Following is a photo of the unit as well as the unit ratings label or other identifier. The following device settings were used during testing: High speed

# Report No. 3111146CRT-001, *Continued*

## Results of Performance Tests:

Model/Configuration	Test Particulate	CADR	Power (Watts)
Pure-Ion Advanced 561274, Unit 1, High Speed	Smoke	176.9	35.1
	Dust	228.9	35.3
	Pollen	229.5	37.2
Pure-Ion Advanced 561274, Unit 2, High Speed	Smoke	177.7	38.8
	Dust	228.4	38.6
	Pollen	247.1	36.8
Pure-Ion Advanced 561274, Unit 3, High Speed	Smoke	173.3	36.3
	Dust	218.2	37.3
	Pollen	223.7	37.1

## Average CADR:

Test Particulate	Average CADR
Smoke	176.0
Dust	225.2
Pollen	236.8

**Certified Room Size** (1.55 x Ave. Smoke CADR) = 273 sq. feet

## Conclusion:

The results reported above do fall within the minimum and maximum limits of measurability of the ANSI/AHAM AC-1-2006 "American National Standard Method for Measuring Performance of Portable Household Electric Cord-Connected Room Air Cleaners" Test Method. These results were above the stated limits.