

Purifan

vs.

Smokeater



Proudly Made in the USA



Name: Purifan Clean Air System
Manufactured by Purifan, Inc., Wichita, KS

Initial Cost: \$435 including shipping per Purifan when installed on existing ceiling fans. \$520 including shipping with new Purifan ceiling fan motors. Self installed or hire an electrician. Power requirement is .5 amps or 60 watts per unit.

Noise: Extremely Quiet

Warranty: Lifetime

Units for a 1,200 Square Foot Area:

4 Units w/ motors Cost \$2,080 with freight -
Self-installed just like a ceiling fan.

Total with 4 new motors only \$2,080 including shipping, plus your local installation costs.

Electrical Cost Per Year: for 12 hours per day, 3,600 Hours per month of operations:

.5 amps x 4 units = 2 amps = \$108 per year

Recommended Cleaning Service:

Filter Changes per set every 2 months at case prices
\$47.00 x 4 = \$188 x 6 changes = \$1,128 per year

Total Cost Over 1, 3 and 5 Years:

Year 1 - Initial Purchase \$2,080 includes first filter set
Filters \$940 - five changes in first year
Electricity Costs \$108
Total First Year Costs = \$3,128 **Saving \$4,972**

3 Year Total \$3,128 + \$1,128 + \$1,128 = \$5,384

5 Year Total \$5,360 + \$1,128 + \$1,128 = \$7,640

3 Year Savings = \$10,516

5 Year Savings = \$20,260

Many clubs with Purifans replace filters less often than every 60 days. This will save money, but will impact odors.

Name: Electrostatic Smoke Eater
Manufactured by many companies

Initial Cost: About \$1,700 to \$3,600, plus installation requiring electrical circuits capable of supplying 7 to 10 amps per unit. Installation can run \$300 to \$1,200 per unit.

Noise: Very Noisy on High Fan Settings

Warranty: 12 Months

Units for a 1,200 Square Foot Area:

2 Units Cost \$4,200 total installed

Electrical Cost Per Year: for 12 hours per day or 3,600 Hours per month of operations:

7.5 amps x 2 = 15 amps = \$900 per year

Recommended Cleaning Service:

Monthly \$125 x 2 = \$250 x 12 = \$3,000 per year

Expected Replacement Year 3

Two new units required as first two wore out = \$4,200

Total Cost Over 1, 3, and 5 Years:

Year 1 - Initial Purchase \$4,200
Cleaning Service \$3,000
Electricity Costs \$900
Replace Units Year 3 or 4 is \$4,200
Total First Year Costs = \$8,100

3 Year Total \$8,100 + \$3,900 + \$3,900 = \$15,900

5 Year Total \$15,900 + 3,900 + \$8,100* = \$27,900

***Note:** Most electrostatic units fail within 24 to 36 months, requiring major repairs, rebuilding or replacement. \$4,200 for new units + \$3,900 per year for cleaning and electricity.

Purifan vs. Smokeater

Purifan vs Smoke Eaters Additional Considerations

Cost of Electricity Goes On Every Month

Many clubs do not realize how much of their monthly electrical bill is to pay for their Smoke Eater type air cleaners. Most units use 7 to 10 amps on high settings. Using typical nationwide costs for electricity and typical monthly usage of this adds up to about \$450 per year per electrostatic unit just for electricity. Compare that to only \$27 per year per unit for each Purifan. In a typical 1,200 square foot bar area that is a savings of almost \$800 per year in electricity alone! If your club already had ceiling fans, the Purifan takes no more energy than operating these fans, so the electrical cost is even lower.

Noise Issues

Most electrostatic models have a small high-speed motor running the fan. This motor creates a constant irritating noise on the highest speeds. The high-speed operation is required to clear out the smoke over a larger area. This usually results in models being turned off or turned down to lower speeds which reduces the clearing of smoke and odors. Many electrostatic models also snap like bug zappers when dust particles get trapped on wires or plates causing a spark or arc of electricity. Then the normal practice is to shut them off until someone has the time to clean the collection plates or call for service. Purifans are quieter than ceiling fans while they are filtering over 2,200 CFM of air through multi-layer filter media and activated charcoal. Purifan smoking filters also have potassium permanganate and alumina layers which reduce dangerous chemicals found in cigarette smoke. These are the methods recommended by the EPA to reduce smoke and odors. Any air purifier machine that adds any Ozone to the air is considered harmful to the lungs and health of the people.

Dust Control in Addition to Smoke and Odor Control

Purifan smoking filters are available with 1 micron filters in the PA 2. That is why Purifans are used in schools, health clinics, nursing homes and in many other non-smoking applications to reduce dangerous airborne particulates, viruses and bacteria. Electrostatic units won't capture as much of the large dust particles and those charged dust and smoke particles that get past the collection plates will attach to carpets and walls causing stains. These multi-layer, low-cost disposable filters cost only \$55 a set, and most clubs buy the case of 12 for only \$560 including freight cost. That means the cost is less than \$1 per day for filters, and even more important is the fact that every time you change the Purifan filters you are replacing 100% of the filter media, so the unit performs just like a new model with a fresh filter. That is why Purifan offers a Lifetime Warranty to customers who use Purifan filters.

Why Electrostatics Offer a One-Year Warranty and Purifans Offer a Lifetime Warranty

Electrostatic models have electronic components, switches, motors, power supplies and high voltage ballasts, and the collection plate systems are delicate aluminum plates and fine wires. Just cleaning and handling the plates can cause damage and failure. The collection plates and wires corrode over time, causing the unit performance to decline. More than 45,000 Purifans have been sold and in most clubs, bars and restaurants Purifans are replacing broken Smoke Eaters where the cost to repair or replace the units far exceeds the cost of converting to Purifans. Most of our customers claim their Electrostatic units failed in a major way in the first 24 to 36 months. Even if they don't fail, their performance degrades substantially over time due to corrosion. If you have to replace your air purifiers every 3 years these costs must be added.

Ceiling Fan Airflow Helps Lower Heating and Cooling Costs

Ceiling fan airflow provided by Purifans will circulate your air conditioning and heated air all over the room. This can create more comfortable temperatures and save money on heating and air conditioning costs.



Purifan, Inc.

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