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APRILAIRE 2400 Owner's Manual

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Owner's Manual

Model 2200, 2250 & 2400 Operating and Maintenance Instructions

READ AND SAVE THIS MANUAL

Thank you for your recent Aprilaire® Air Cleaner purchase. We sincerely appreciate your business and are pleased to add your name to our growing list of customers. With this purchase, you have invested in the highest quality equipment currently available. Research Products Corporation is the largest manufacturer of central air cleaners and humidifiers and a recognized leader in the heating and air conditioning industry today.

Please be assured that in addition to product quality, we are also committed to unit performance as well as customer satisfaction. Important: Scheduled replacement of the Aprilaire® media is necessary. See page 3 for details.

Now, please take a few minutes and read this booklet. This will familiarize you with the benefits you will receive from the equipment you just purchased and help you understand the routine maintenance that will be required. Be sure to register your warranty with us for our records and your protection.

Your Aprilaire® Air Cleaner is an investment in healthful comfort for your family and protection for your home and furnishings. With this purchase, you have invested in an air cleaner that is many times more efficient than ordinary furnace or air conditioning filters with which you may be familiar. There are many benefits you may expect from your Aprilaire® Air Cleaner. This booklet is furnished to acquaint you with these benefits, and with operation and maintenance information to insure the high level of performance this high efficiency air cleaner is designed to provide.

PERFORMANCE

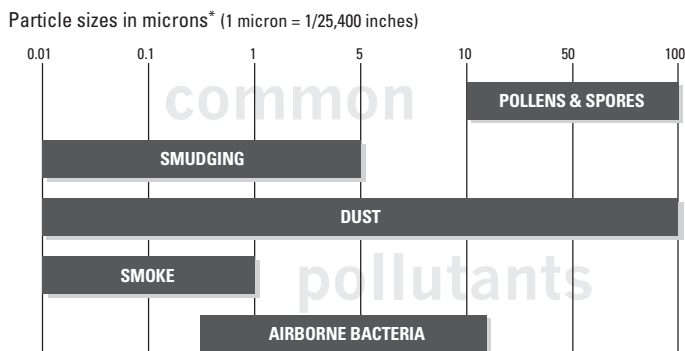
Air cleaners are effective only when air is circulated through them. So, it is unrealistic to expect complete removal of all contaminants. However, the efficiency of the Aprilaire® Air Cleaner actually increases with use, and removes a very high percentage of the pollutants from the circulated air. There is pollution in air everywhere—even in the air we normally consider fresh outdoor air. The infiltration of outside air into the home is minimized by keeping doors and windows closed as much as possible, therefore, increasing the indoor air quality.

You may have purchased your air cleaner for allergy relief. Allergy cases differ widely—and the Aprilaire® Air Cleaner is not a sure cure for any allergy. However, if you suffer from allergies caused by pollen, mold, spores, dust and other airborne allergens, this efficient air cleaner can be highly beneficial because it removes up to 99% of these pollutants from the air passing through it.

The reduction of household dust, tobacco smoke particulate and smudging particles may have been the motivating influence in your decision to have an air cleaner installed. The Aprilaire® Air Cleaner removal efficiency of these very fine particles and pollutants reaches up to 95%. It follows, then, that since there are less of these particles in the air, you may expect a reduction in the necessity for dusting and cleaning and a longer time interval between redecorating.

Particle sizes of pollutants vary and are measured in microns. A micron is 1/25, 400th of an inch. A commonly used illustration of their size is that it would take 200 microns to reach across a dot made by a sharp pencil. **Figure 1** shows the range of sizes, in microns, of the most common pollutants.

FIGURE 1 – COMMON POLLUTANTS



*American Society of Heating, Refrigeration and Air Conditioning Engineering Guide

OPERATION

Household dust is typically an accumulation of particles in a size range of .01 micron (1/2,540,000th of an inch—invisible to the naked eye) up to 100 microns (the diameter of a human hair).

Pollens and spores, which can aggravate allergy symptoms, are usually in the 10-100 micron size range.

The efficiency of the Aprilaire® Air Cleaner Media on the smallest particle which can be seen with the naked eye (approximately 10 microns) reaches 99%.

The visible household dust particles, and nearly all pollen and spore particles, therefore, can be caught and permanently held, very easily, *if you can get them to the air cleaner*. With central high efficiency air cleaners, the blower of your heating/air conditioning system performs the air movement function.

Continuous air cleaning will be accomplished when your thermostat is set for continuous air circulation. If continuous air cleaning is not required, or desired, you can manually set your control for any time period you desire. Many thermostats have a switch position for manual fan. "Automatic" turns on the blower only when heating or cooling is required. "Fan" or "manual" allows you to control blower operation.

For those who choose periodic cleaning, (as opposed to continuous cleaning through continuous furnace blower operation), the most important period is during—and for several hours after—vacuuming your home. The vacuuming process (unless you have a central vacuum system) stirs up a large volume of dust particles which must be drawn into your air cleaner.

Many of the dust particles generated, while vacuuming, are so heavy they "fall" out of the airstream before they can be drawn out of your living area. This is why it is important to do household dusting several hours after vacuuming. Normally once the heavy particles "fall out", they are only reintroduced to the air by vacuuming, or similarly vigorous activity.

Where allergy symptoms, which are aggravated by pollens and spores, are a concern, continuous cleaning is strongly encouraged.

To recap, when removing household dust is the major benefit you are seeking, you should operate your air cleaner during and following periods when dust is being generated or "stirred up". For pollens and spores which aggravate an allergy condition, your cleaner must be operated continuously when these pollutants are in the environment. The air cleaner can only be effective when air containing the contaminants is drawn through the high efficiency media.

MAINTENANCE

The Aprilaire® Air Cleaner requires no electrical component service, is not affected by relative humidity or temperature. The only maintenance required is the periodic replacement of the disposable Aprilaire® Media which the homeowner can do in a few minutes. The frequency of replacement will vary with operation time, the amount of pollution generated in the home and is affected by: number of people and their activities, the amount of carpeting, pets, size of home, number of smokers, the pollution level of the area. We recommend replacing the media each year. However, if you do not run your blower continuously (24 hours per day, 365 days per year) the media may last up to two years. Air conditioning systems larger than 3.5 tons, or heating systems larger than 130,000 BTUs per hour (1400 cfm), will require more frequent attention if operated continuously.

Always remember that your Aprilaire® Air Cleaner Media is at its lowest efficiency point when it is new. Efficiency increases with usage. **There is no efficiency or performance benefit from replacing your media too often.**

To obtain replacement media, please proceed as follows:

- Call the installer of your Aprilaire®. This information is often found on your equipment.
- Call your heating and air conditioning contractor.
- Look for the Aprilaire® logo in The Yellow Pages under air cleaning & purifying equipment.
- Look in The Yellow Pages under heating and air conditioning contractors. Any contractor can order media replacements for you.

Detailed instructions on the easy replacement of the Aprilaire® Media are furnished with each replacement media.

For fulfillment of warranty parts, call Aprilaire at 1-800-334-6011.

Use only genuine Aprilaire® Stock No. 201 (for models 2200 and 2250) or No. 401 (for model 2400) replacement media from your heating/cooling contractor manufactured by Research Products Corporation. Imitation replacement filters have less filtering surface area which equates to shorter service life. In addition they are not as efficient as genuine Aprilaire replacement media preventing you from maintaining the superior air cleaning performance you originally purchased.

MEDIA REPLACEMENT RECORD

Date	Dealer Name

Date	Dealer Name

LIMITED WARRANTY

Your Research Products Corporation Aprilaire High Efficiency Air Cleaner is expressly warranted for five (5) years from the date of installation to be free from defects in materials or workmanship, except, however, for the disposable media which will have to be replaced from time to time depending upon the use, and the inner housing seals. Research Products Corporation's exclusive obligation under this warranty shall be to supply, without charge, a replacement for any part of the High Efficiency Air Cleaner which is found to be defective within such five (5) year period and which is returned not later than thirty (30) days after said five (5) year period by you or your original supplier to Research Products Corporation, Madison, WI 53701, together with the model number and installation date of the High Efficiency Air Cleaner.

THIS WARRANTY SHALL NOT OBLIGATE RESEARCH PRODUCTS CORPORATION FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY YOUR INSTALLER AS CONTRASTED TO DEFECTS DISCOVERED IN THE AIR CLEANER ITSELF.

IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID FIVE YEAR PERIOD. RESEARCH PRODUCTS CORPORATION'S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS UNIT INSTALLED BY A QUALIFIED HEATING AND AIR CONDITIONING CONTRACTOR. IF THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED CONTRACTOR, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages so the above exclusion or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

For fulfillment of warranty parts, call Aprilaire at 1-800-334-6011.

WARRANTY REGISTRATION

Please... Take a few minutes to visit us on-line at www.aprilaire.com to register your Aprilaire product.

If you do not have on-line access, please mail a postcard with your name, address, phone number, product purchased and date of purchase to:

Research Products Corporation, P.O. BOX 1467, Madison, WI 53701

Thank you!

YOUR WARRANTY REGISTRATION INFORMATION WILL NOT BE SOLD OR SHARED OUTSIDE OF THIS COMPANY.



Intelligent Solutions for Indoor Environments

An entire line of indoor air quality products that are the best in their categories. Together they set a new standard for intuitive use, performance and reliability.

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