



90-1293

# **Owner's Manual**

## **Model 3000 Hybrid Electronic Air Cleaner Safety, Operating and Maintenance Instructions**

**READ AND SAVE THIS MANUAL**

## WARNING

- 120 Volts may cause serious injury from electrical shock. Disconnect power to the air cleaner before servicing.
- Arcing in electrical components may cause an explosion. Do not install unit where explosive gasses will be present.
- To reduce the risk of electrical shock, this equipment has a grounding-type (three prong) plug. This plug will fit only into a grounding-type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter this plug in any way.
- To reduce the risk of electrical shock, locate product so that the power cord can be plugged into an electrical outlet without the use of an extension cord.

## CAUTION

Do not plug any other device into the outlet in which the air cleaner is plugged. This is a current sensitive outlet. Damage to circuit components may occur if a device other than the air cleaner is operated from the air cleaner outlet.

**Thank you** for your recent purchase of a Model 3000 Hybrid Electronic Air Cleaner. 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 available. Absolutely no other whole-house air cleaner on the market today can provide cleaner, healthier indoor air.

In addition to product quality and performance, we're also committed to customer satisfaction.

**IMPORTANT: Scheduled replacement of the Source 1 Model S1-FM501 Electronic Air Cleaner filtering media and cleaning of the control electrode is necessary. See page 5 for details.**

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.

Your Model 3000 Hybrid Electronic Air Cleaner delivers the cleanest, healthiest air ever available from a whole-house air cleaner! It is an investment in healthful comfort for your family and protection for your home and furnishings.

Your Model 3000 Hybrid Electronic Air Cleaner features patented, breakthrough "electrically enhanced air filtration" technology that provides a unique combination of both electronic and media air cleaner qualities. It permanently traps even the smallest particles so they cannot re-enter the air stream.

**To obtain service parts and/or replacement media, please proceed with any of the following options:**

- Call the installer of your Model 3000 Hybrid Electronic Air Cleaner. This information is often found on your equipment.
- Call us at 800-910-9675.

## PERFORMANCE

Air cleaners are effective only when air is circulated through them. The Model 3000 Hybrid Electronic Air Cleaner operates silently, removing a very high percentage of the pollutants from the circulated air while maintaining its level of efficiency with use. There is pollution in air everywhere – even in the air we normally consider to be fresh outdoor air. The infiltration of outside air into the home can be minimized by keeping doors and windows closed as much as possible, thereby increasing the indoor air quality.

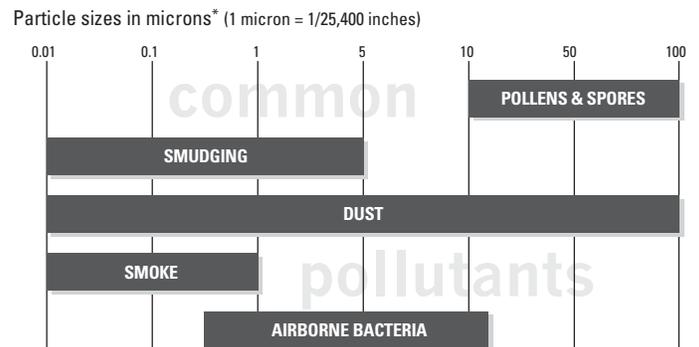
You may have purchased your air cleaner for allergy relief. Allergy cases differ widely – and not even the Model 3000 Hybrid Electronic Air Cleaner is a sure cure for any allergy. However, this air cleaner can be highly beneficial because it is over 98.5% efficient at removing particles the same size as allergy-causing pollen, fungus, mold, and spores (see **Figure 1**) from the air passing through it, which makes it the healthy choice for cleaner indoor air. It will also remove over 90% of particles the same size as many disease-causing airborne bacteria, and is 80% efficient at removing virus-size particles. These are typically about 1,000 times smaller than can be seen by the human eye.

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 Model 3000 Hybrid Electronic Air Cleaner removes 86% of cigar and cigarette smoke particulate. Since this air cleaner reduces the amount of particles in the air, you can expect a reduction in the need for dusting and cleaning and a longer time interval between redecorating.

The efficiency of the Model 3000 Hybrid Electronic Air Cleaner on the smallest particle which can be seen with the naked eye (approximately 10 microns) is never less than 99%.

The visible household dust particles, and nearly all pollen and spore particles, therefore, can be caught and permanently and easily held once they get to the air cleaner.

**FIGURE 1 – COMMON POLLUTANTS**



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

90-1148

## RECOMMENDATIONS FOR OPTIMUM PERFORMANCE

The air movement function of a central air cleaner is performed with the blower of your heating/air conditioning system. 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.

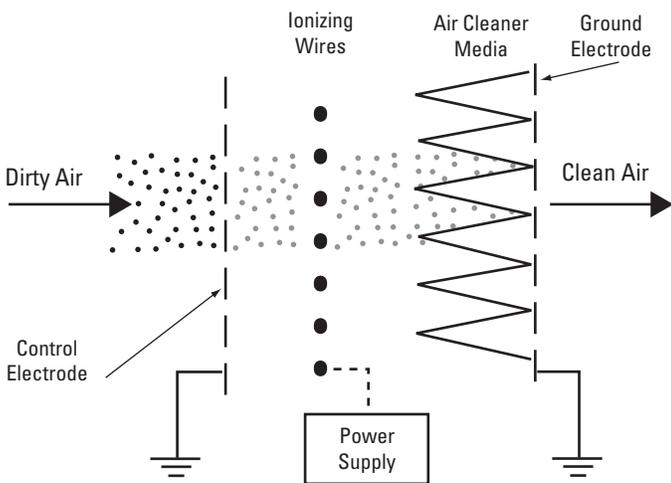
For those who choose periodic cleaning (as opposed to continuous cleaning through continuous furnace blower operation), the most important period is during – and for several hours after – vacuuming your home. The vacuuming process (unless you have a central vacuum system) stirs up a large volume of dust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

Many of the dust particles generated while vacuuming are so heavy that 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 similar vigorous activity.

## PRINCIPLE OF OPERATION

The Model 3000 Hybrid Electronic Air Cleaner is an electrically enhanced high efficiency air cleaner that uses an ionization and electric field. It is the first and only residential air cleaner that uses this patented technology. As shown in **Figure 2**, a particle passes a control electrode and enters an intense ionization and electric field. This intense electric field ionizes (applies an electrical charge to) the airborne particles. The charged particles are then attracted to and collected by the air cleaner media, which is maintained at ground by means of the ground electrode. The clean air is then distributed throughout your home.

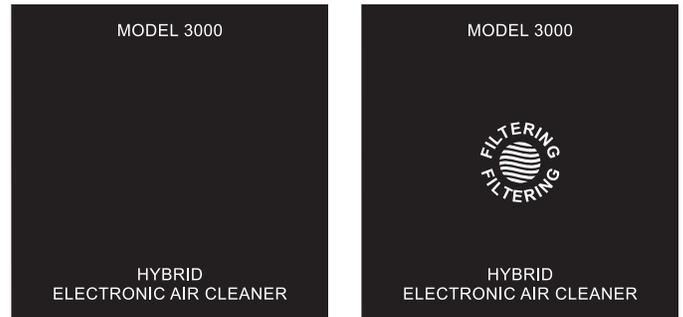
**FIGURE 2 – COMBINATION OF MEDIA AND ELECTRONIC TECHNOLOGIES IMPROVES EFFICIENCY**



90-1149

A light on the power pack/door assembly will illuminate the word "FILTERING" when your Model 3000 Hybrid Electronic Air Cleaner is cleaning the air (see **Figure 3**).

**FIGURE 3**



90-1304

**Unit OFF**  
Blue "FILTERING" Light OFF

**Unit ON**  
Blue "FILTERING" Light ON

The Model 3000 Hybrid Electronic Air Cleaner is designed to clean the air only when the furnace/air handler blower is running, so make sure the ON/OFF switch is in the ON position, and that the blower is operating before checking for the "FILTERING" light.

## MAINTENANCE

### WARNING

120 Volts may cause serious injury from electrical shock. Disconnect power to the air cleaner before servicing.

Maintenance of your Model 3000 Hybrid Electronic Air Cleaner is simple, involving only periodic replacement of the filtering media, and cleaning of the control electrode.

### REPLACING THE FILTERING MEDIA

Most homes require replacement of the media once a year. How often replacement is needed will depend on many factors, including lifestyle, construction details and environment. A few homes may require replacement of the media more often. To check, examine the media six months after the installation of your air cleaner. If it is noticeably grey or brown, replace it every six months; otherwise replace it once a year.

**Always use genuine Source 1 Model S1-FM501 replacement media. The Model 3000 Hybrid Electronic Air Cleaner is designed to work only with genuine Source 1 Model S1-FM501 replacement media. Use of other media will damage your Model 3000 Hybrid Electronic Air Cleaner.**

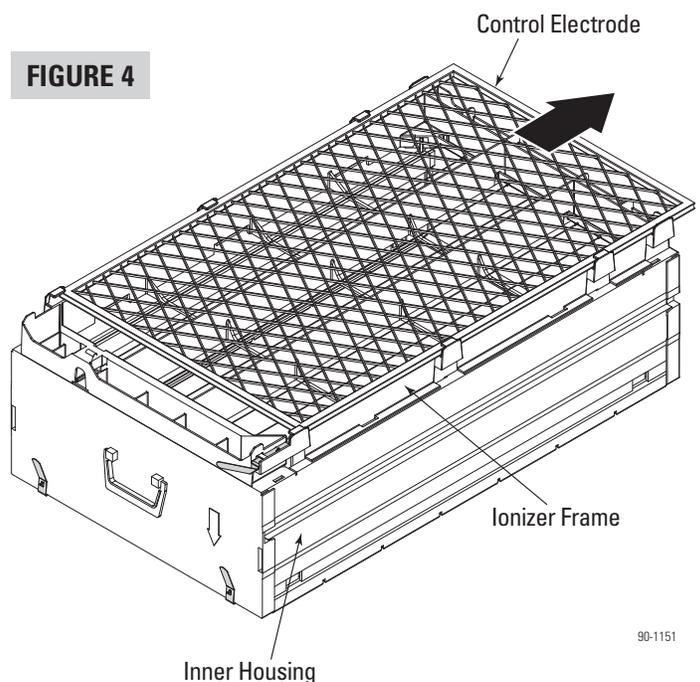
To replace the media, follow the directions on the box of the replacement media.

### CLEANING THE CONTROL ELECTRODE

Most homes require cleaning of the control electrode only once a year. A few homes may require cleaning of the control electrode more often. To check, examine the control electrode six months after the installation of your air cleaner. If there is buildup of large particles that partially block the air, clean it every six months; otherwise clean it once a year.

### TO CHECK AND/OR CLEAN THE CONTROL ELECTRODE:

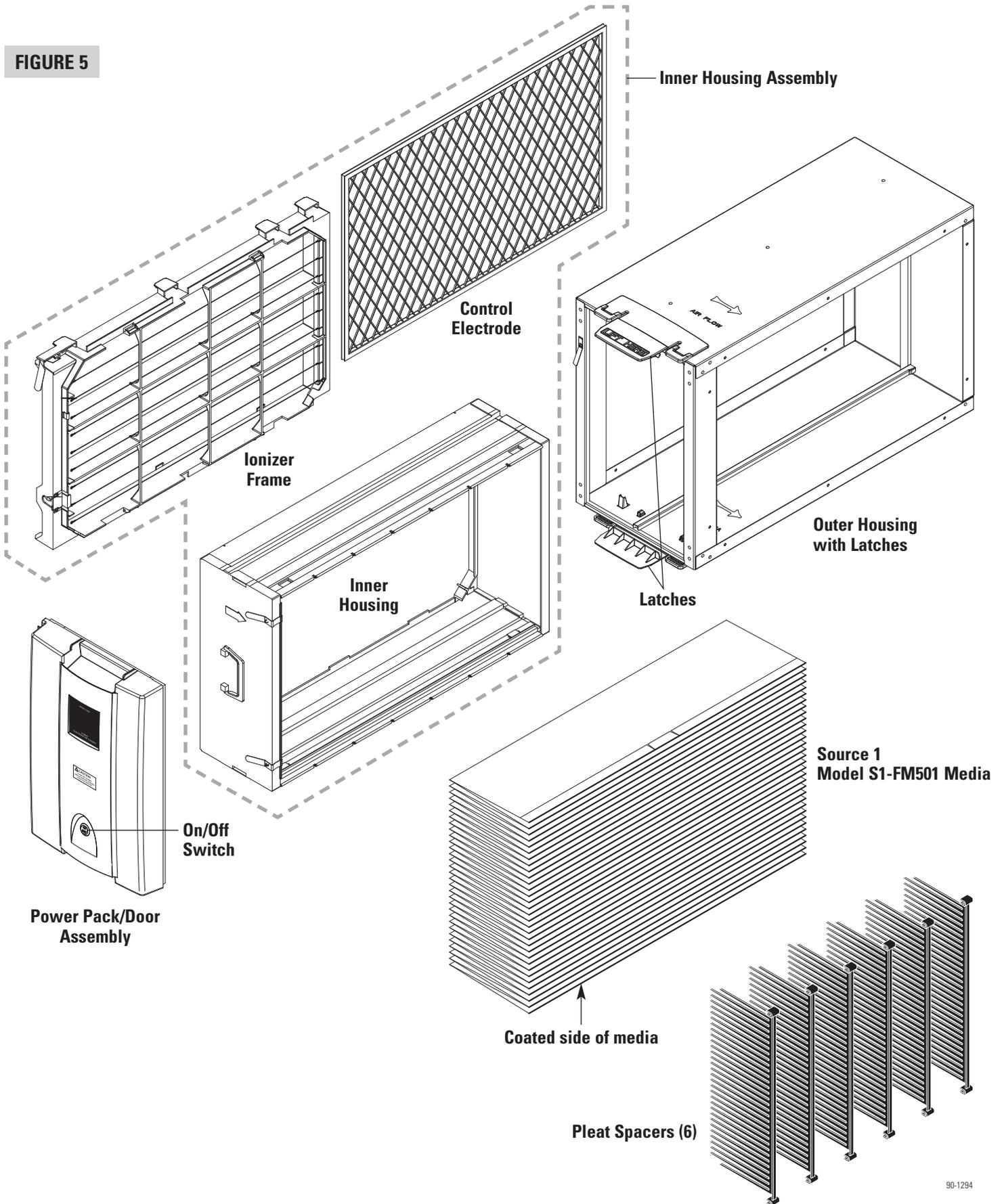
1. At the thermostat, turn the Fan to Auto and the Mode (Heat-Off-Cool) to Off. Fan and Mode setting changes are usually done with a switch or button on the thermostat.
2. Turn the ON/OFF switch on the power pack/door to OFF and unplug the door.
3. Lift up one of the latches (see **Figure 5**) to release and remove the power pack/door, and use the handle to pull the inner housing assembly out of the outer housing.
4. Lay the inner housing assembly on a flat surface with the control electrode facing up (see **Figure 4**) and examine the control electrode.



5. If cleaning is needed, slide the control electrode out (see **Figure 4**) and wipe off with a clean cloth.
6. Slide the control electrode back into place.
7. Return the inner housing assembly into the outer housing and replace the door.
8. Plug in the door and turn the ON/OFF switch to the ON position.
9. Return the Fan and Mode settings on your thermostat to their original positions.

# COMPONENTS OF THE MODEL 3000 HYBRID ELECTRONIC AIR CLEANER

FIGURE 5





# LIMITED WARRANTY

UPG warrants this product to be free from defects in factory workmanship and material under normal use and service and will, at its option, repair or replace any parts that prove to have such defects according to the terms outlined on this warranty. This warranty covers only the equipment described by the Product Model Number and Serial Number listed on the Warranty Registration Card.

For your benefit and protection, return the Warranty Registration Card to UPG promptly after installation. This will initiate the warranty period and allow us to contact you, should it become necessary. In the absence of a recorded Warranty Registration Card, the warranty period will begin upon product shipment from UPG.

This warranty extends only to the original consumer purchaser and is non-transferable. For this warranty to apply, the product must be installed according to UPG recommendations and specifications, and in accordance with all local, state, and national codes; and the product must not be removed from its place of original installation. The warranty period for repair or replacement parts provided hereunder shall not exceed beyond the warranty period stated below.

<b>HUMIDIFIERS AND AIR CLEANERS</b>
<b>PARTS</b>
5 yrs

UPG strongly recommends regular periodic preventative maintenance on this equipment. The person most familiar with the equipment in your HVAC system is a UPG dealer. The UPG dealer can ensure your maintenance program meets the conditions of the "UPG Warranty," maximize the efficiency of the equipment, and service your unit within the mandated guidelines. This warranty applies only to products installed in the United States and Canada.

## EXCLUSIONS

This warranty does not cover any:

1. Shipping, labor, or material charges.
2. Damages resulting from transportation, installation, or servicing.
3. Damages resulting from accident, abuse, fire, flood, alteration, or acts of God (tampering, altering, defacing or removing the product serial number will serve to void this warranty).
4. Damages resulting from use of the product in a corrosive atmosphere.
5. Damages resulting from inadequacy or interruption of electrical service or fuel supply, improper voltage conditions, blown fuses, or other like damages.
6. Cleaning or replacement of filters.
7. Damages resulting from failure to properly and regularly clean air and/or water side of condenser and evaporator.
8. Damages resulting from: (I) freezing of condenser water or condensate; (II) inadequate or interrupted water supply; (III) use of corrosive water; (IV) fouling or restriction of the water circuit by foreign material or like causes.
9. Damages resulting from operation with inadequate supply of air or water.
10. Damages resulting from use of components or accessories not approved by UPG (vent dampers, etc.).
11. Increase in fuel or electric cost.
12. Disposable humidifier pad which will have to be replaced from time to time depending on the amount of use.
13. Disposable media which will have to be replaced from time to time depending upon the amount of use.
14. Inner housing seal.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

SOME STATES DO NOT ALLOW THE DISCLAIMER OF IMPLIED WARRANTY, SO THAT THE ABOVE DISCLAIMER MAY NOT APPLY TO YOU.

SOME STATES ALLOW ONLY A PARTIAL LIMITATION ON IMPLIED WARRANTIES TO LIMIT THE DURATION OF IMPLIED WARRANTIES TO THE DURATION OF THE EXPRESS WARRANTY. IN SUCH STATES, THE DURATION OF IMPLIED WARRANTIES IS HEREBY EXPRESSLY LIMITED TO THE DURATION OF THE EXPRESS WARRANTY ON THE FACE HEREOF.

IN NO EVENT, WHETHER AS A RESULT OF BREACH OF WARRANTY OR CONTRACT, TORT (INCLUDING NEGLIGENCE) STRICT LIABILITY OR OTHERWISE, SHALL UPG BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF USE OF THE EQUIPMENT OR ASSOCIATED EQUIPMENT, LOST REVENUES OR PROFITS, COST OF SUBSTITUTE EQUIPMENT OR COST OF FUEL OR ELECTRICITY. THE ABOVE LIMITATIONS SHALL INURE TO THE BENEFIT OF UPG'S SUPPLIERS AND SUBCONTRACTORS. THE ABOVE LIMITATION ON CONSEQUENTIAL DAMAGES SHALL NOT APPLY TO INJURIES TO PERSON'S IN THE CASE OF CONSUMER GOODS.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, OR FOR STRICT LIABILITY IN TORT, SO THAT THE ABOVE EXCLUSIONS AND LIMITATIONS MAY NOT APPLY TO YOU.

UPG DOES NOT ASSUME, OR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR UPG, ANY OTHER LIABILITY FOR THE SALE OF THIS PRODUCT.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

For Owner's Information:

PRODUCT MODEL NO. \_\_\_\_\_ INSTALLATION DATE \_\_\_\_\_  
UNIT SERIAL NO. \_\_\_\_\_ INSTALLING DEALER \_\_\_\_\_

Subject to change without notice. Printed in U.S.A.

Copyright © by York International Corp. 2005. All rights reserved.