

Honeywell

MARK B. SIMS
Market Manager
Indoor Air Quality
Residential Division

August 12, 1987

AUTHORIZED REPAIR STATION ANNOUNCEMENT OF ENHANCED ELECTRONIC AIR CLEANER INTRODUCTION

ATTENTION SALES AND SERVICE DEPARTMENTS

Honeywell is proud to announce product improvements that will enhance the world's most popular electronic air cleaners. The F50A with enhancements becomes the F50E. The F50E is in production and the F52E, F55E and F58E will follow shortly.

The F50E features:

- A Honeywell-designed, Honeywell-produced Solid State Power Supply. It has the same clean cell output as the W919 so no efficiency ratings change, but the more precise voltage regulation enhances cell loading. The electronic feedback control also enables us to offer a Solid State Performance Indicator which will be in full production in 1988, with samples available this fall. A W8600 wall panel, matching the T8600 but compatible with any thermostat, will give living area indication of F50 performance.
- A new 20 x 20 model to better match heat pump air handlers.
- A new nameplate, paint color, and styling give the F50E a T8600 appearance, which is compatible with any furnace color and which harmonizes with adjacent galvanized sheet metal.
- A permanent wash reminder schedule and a service flow chart in the door make the F50E more user-friendly.
- "Quality is Key" is more than a Honeywell slogan. The service record of the F50 is unmatched in the HVAC industry and is still being improved. Now with solid state reliability for the power supply we are proud to announce a 2-year limited warranty for the entire Honeywell electronic air cleaner product line.
- No price increase--quality does pay.

While we have had extensive field experience with the Solid State Power Supply, with over 15,000 put in service since September of 1986, the reliability has proven to surpass our design specifications. But we are still sure some in-warranty repair will be requested of you. You could see an infantile failure or an installer-damaged unit for in-warranty repair any time, since shipments are starting at once.

The success of many of our marketing and sales programs has led to record sales of the F50 family of EAC's. Part of this success is due to the dealer's ready acceptance of Honeywell EAC's. The product is reliable, and if one does fail the dealer knows that his local Honeywell Authorized Repair Station will solve the problem quickly and affordably. For this we thank you.

We are not initially planning to repair the SSPS because our field service history has just begun and we have not yet developed appropriate field repair procedures. In case the cumulative failures justify a repair exchange program, we will be stock piling the returns after a 100% return goods analysis is performed. We will certainly share our findings with you. So, for now, your repair procedure for any 220429 SSPS will be replacement with a new SSPS, returning the defective unit for credit if in-warranty and scrapping locally if out of warranty.

SSPS in-warranty returns should be sent in with completed Returned Goods Identification Tags (form 81-2586-060) that are available from your Customer Service representative. SSPS return shipping charges will be reimbursed as they are noted on the Repair Station Repair Schedule Summary with your other in-warranty repairs.

Authorized Repair Stations will continue to be an important part of our marketing strategy. But frankly, the volume of repair business will be somewhat less in the years ahead because the lower failure rate of the SSPS will be only partially offset by increasing sales volume.

If you have any questions concerning the enhanced products or current indoor air quality marketing programs, please contact your Honeywell sales representative.

Sincerely,



Mark B. Sims

Enclosures

1. F50E Dealer Announcement Brochure (50-7102)
2. F50E Specification-Installation Instructions (68-0072)

Honeywell

May 10, 1991

RESIDENTIAL AIR QUALITY
AUTHORIZED REPAIR STATION
ANNOUNCEMENT OF
ADDITION OF INTEGRAL SOLID STATE AIRFLOW SENSOR FOR
F50 RESIDENTIAL ELECTRONIC AIR CLEANERS

ATTENTION SALES AND SERVICE DEPARTMENTS

Honeywell is pleased to announce the introduction of a new F50 Residential Electronic Air Cleaner that includes an integral solid state airflow sensor (SSAFS). The primary benefits of this product improvement are for the dealer/contractor: easier, faster, lower cost air cleaner installation and additional service/troubleshooting assistance.

PRICING AND AVAILABILITY

Complete information on the new F50 models with the integral airflow sensor can be found in the Residential Air Quality Confidential Specification and Price Book, Form 70-0083, dated January 5, 1991.

The following units/sizes are available now:

<u>OS Number</u>	<u>Size</u>	<u>Voltage</u>
F50E1273	20x25	120V
F50E1281	16x25	120V
F50E1299	20x25	240V
F50E1307	16x25	240V
F50E1315	20x20	120V
F50E1323	20x20	240V

- 20 x 12.5 F50 models: A new one-piece power box that will be available in summer 1991 will include the SSAFS and the solid state performance indication capability. The one-piece power box is field wired since there is no room for the plug-in "J" box.
- F58E economy model: Will not have the SSAFS feature or the performance indication capability.
- F52E return grille models: A sail switch is already a standard feature. There are no plans at this time to include the SSAFS in the F52E.

REPAIR PROCEDURE

The SSAFS will not be available as a merchandised part until later this year. At that time, a troubleshooting procedure for the SSAFS will be published. Until then, to repair in-warranty, failed SSAFS units, the entire power box must be replaced.

Please note that a merchandised kit that includes a Solid State Performance Indicator circuit board and a power supply is now available. This information is not mentioned in the current specification sheet, but can be found in the attached Solid State Power Supply and Power Box Cross Reference. In the past, if a power supply with the performance indication capability failed, the entire power box had to be replaced. Now just the power supply and circuit board can be replaced.

SUPPORT MATERIALS

A copy of the dealer announcement brochure, "Solid State Performance" Form 50-7112, and the Specification Sheet, Form 68-0072-3, are attached.

Your Honeywell Sales Representative will be happy to answer any questions you may have regarding the SSAFS.

Sincerely,



Mark B. Sims
Director, Perfect Climate Business Unit
Residential and Building Controls Division

Attachments:

- F50 Specification--Installation Instructions, 68-0072-3
- Dealer Announcement Brochure, 50-7112
- Solid State Power Supply and Power Box Cross Reference

GOOD LOOKS... GREAT PERFORMANCE!



Honeywell

Honeywell's Redesigned F50 Electronic Air Cleaner Redefines The Standard For Quality In The HVAC Industry

Quality Appearance. New, warm rich color and label looks great, sells better. Color complements today's heating equipment and has excellent consumer eye-appeal.

New 20 x 20 Size. A better match to return air openings on heat pumps, air handlers and electric furnaces.

Wash Reminder Schedule. Schedule conveniently located on the power box reminds consumers to clean cells to maintain optimum performance.

New Remote Performance Indicator Capability. Three LED indicator lights tell status of air cleaner at a glance. Lights indicate "ON," "WASH CELLS" and "SERVICE NEEDED" conditions. (Note: Remote Performance Indicator available Spring 1988!)

New Power Supply. Solid state electronics make the "new" F50 more reliable and easier to service than ever before. There are also fewer replacement parts to stock.

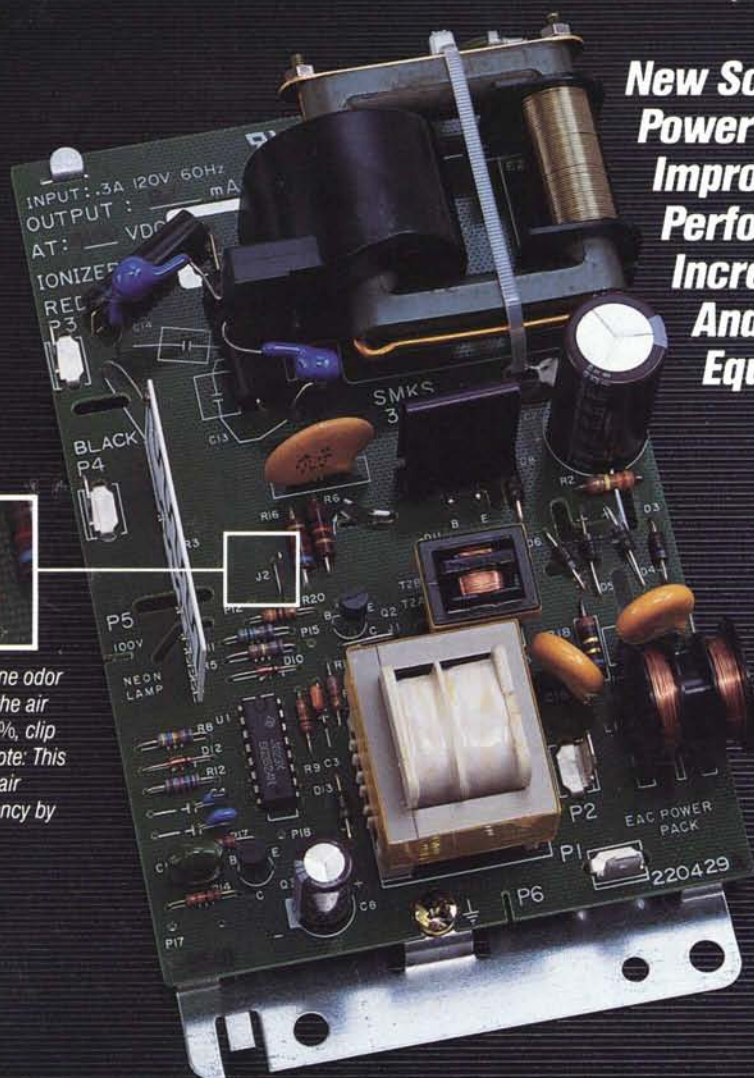
At-A-Glance Power Indicator. Neon lamp in power switch indicates when both the ionizer and collector are powered.

Quieter. Improved voltage regulation reduces the intensity of the arc that occurs occasionally with any electronic air cleaner, providing quieter performance.

Service Reminder. A handy reminder of service procedures is located inside the cell access door.



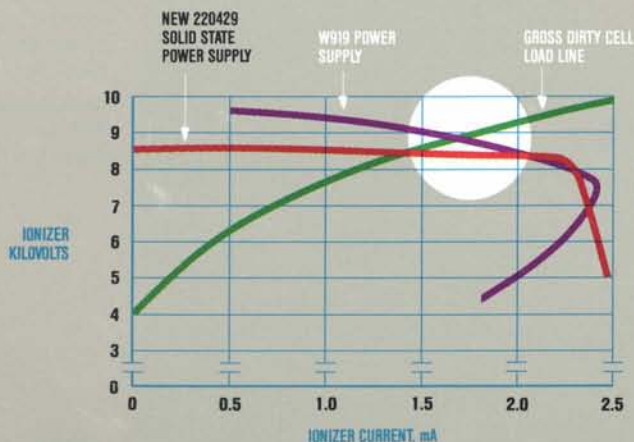
New Solid State Power Supply Improves Performance, Increases Reliability And Extends Equipment Life



To reduce ozone odor produced by the air cleaner by 25%, clip jumper J2. (Note: This will decrease air cleaner efficiency by 7-10%.)

QUALITY IS KEY!
NEW TWO-YEAR CONSUMER WARRANTY

Solid State Power Provides Better High-Voltage Control



Output Regulation Curve

Cell can be loaded more heavily because voltage control is more precise.

Longer Component Life. New power supply limits the size of arc when the collector cell arcs from dirt particles or the test button is pushed. Arc limit extends the life of the diodes and resonating capacitors.

Improved Current Regulation. As cell loads with dirt, ionization current tends to fall off. New electronic voltage regulation does not permit voltage to drift up, so collector arcing is reduced and dirt-holding capacity is increased.

Reliable Performance. New electronically-regulated power supply performs better and longer with fewer service callbacks due to dirty cells.

Improved Diagnostic Indicators. A neon light in the switch goes out to provide immediate indication if either the ionizer or collector section shorts out. Under these conditions, no arc will be produced when the test button is pushed.

Simplifies & Speeds Troubleshooting Time. Solid state power supply circuit board can easily be replaced on the job, no special tools required.

Easier To Service. Diagnostic flow chart inside cabinet door aids in troubleshooting.

Easy To Stock. Easy To Install. All components are on a single circuit board, so it's easier to stock and install. Only one part number is required. Replace, board-for-board. Quick-connect, push-in terminals install in a single step.

Reduced Inventory. A total of 6 new power supply models replace over 50 different W919 models and are completely interchangeable with all existing W919A power supplies.

Lower Price. Cost of the new power supply is comparable to a major component replacement on the W919.

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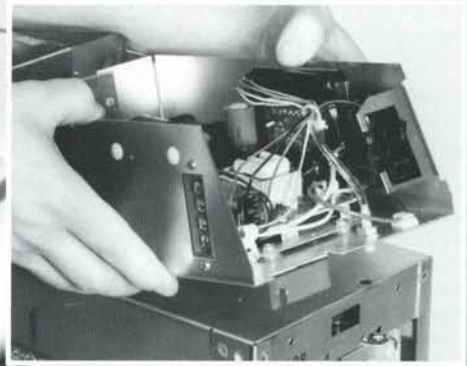
In Canada:
740 Ellesmere Road
Scarborough, Ontario M1P 2VP

Together, we can find the answers.

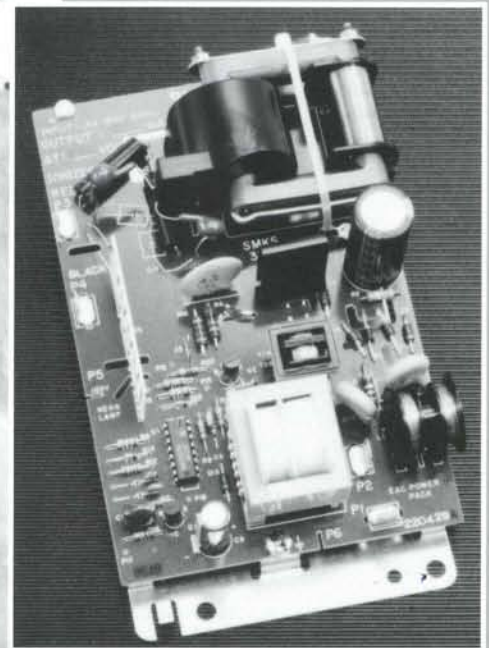
Honeywell

● Solid State Performance

Internal Components Within
F50E Electronic Air Cleaner



Solid State Air Flow Sensor



Solid State Power Supply

**QUALITY
IS KEY!
TWO-YEAR
CONSUMER
WARRANTY**

Honeywell F50 Electronic Air Cleaner mounted out of sight, works quietly, conveniently and efficiently to clean the indoor air.



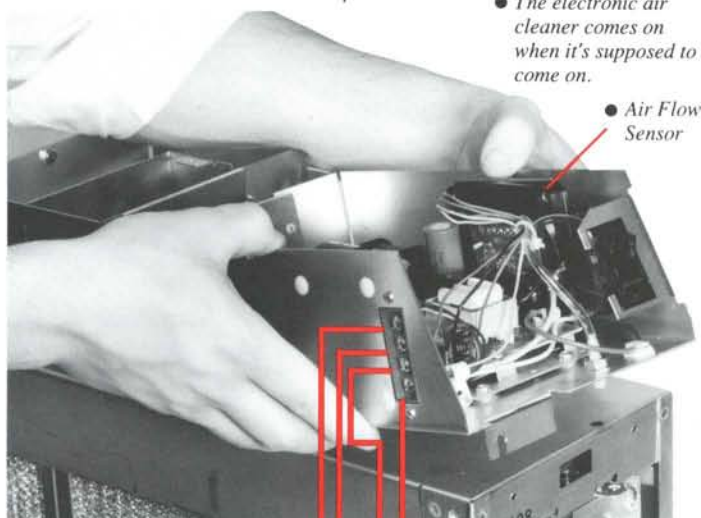
W8600 Solid State Performance Indicator (Typical W8600 installation shown mounted next to T8600 Chronotherm III thermostat.)

Easier, Faster and Lower Cost Installation. Plus Additional Service/Troubleshooting Features.

Built-in Air Flow Sensor Now Available

Honeywell Electronic Air Cleaners are now available with a built-in Air Flow Sensor. This highly sensitive air flow sensor insures the electronic air cleaner operates each time the system fan turns on.

- The Honeywell Air Flow Sensor senses static pressure changes in the fan compartment. The static air pressure changes can be as low as minus 0.05 inches water column, which is required on many air handling systems. This new feature provides the greatest sensitivity and reliability of any product available and insures that each fan start up will bring on the electronic air cleaner.



- Installation is now as simple as bringing line voltage directly to the air cleaner junction box. Use a 3-prong appliance cord to make connection to 120 volt power.
- Patented, built-in feature eliminates the need for installing a sail switch or relay. This means easier, quicker and lower cost installation.
- The electronic air cleaner comes on when it's supposed to come on.

W8600 Solid State Performance Indicator

Honeywell Remote Performance Indicator has three LED indicator lights that tell the status of the air cleaner at a glance. Lights indicate "ON," "WASH" and "CHECK." The W8600 mounts wherever it is convenient for the homeowner to regularly check on it...on the wall next to the F50 electronic air cleaner or in the main living area such as on the wall next to the thermostat.

- Solid state power box assemblies are available to upgrade F50A electronic air cleaner models to allow interface with W8600.
- Four wires connect the W8600 to the F50E model electronic air cleaner.



- ON Light - assures the homeowner that the air cleaner is on and operating efficiently.
- WASH light - notifies homeowners that air cleaner cells are excessively dirty and need to be washed to maintain air cleaner and heating/cooling equipment efficiency. Proper periodic cell cleaning prevents dirt buildup so the wash light never has to come on.
- CHECK light - alerts homeowners that the air cleaner has malfunctioned and needs service.

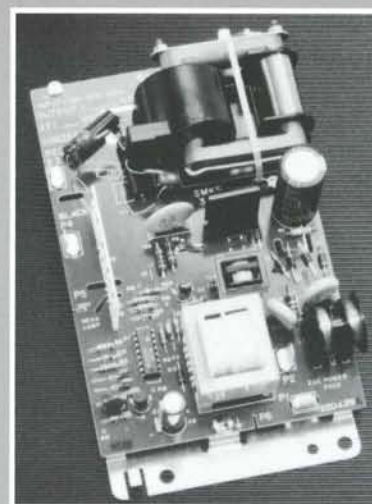
Service Features

Solid state electronics make the F50 Electronic Air Cleaner more reliable and easier to service than ever before. There are also fewer replacement parts to stock.

Neon lamp in power switch indicates when both the ionizer and collector are powered. The neon lamp is powered from the collector circuit so

that a shorted collector will dim the neon and give some performance indication.

The neon light in the switch goes out to provide immediate indication if either the ionizer or collector section shorts out. Under these conditions, no arc will be produced when the test button is pushed.



Solid State Power Supply

The Honeywell Solid State Power Supply improves performance, increases reliability and extends equipment life.

- Improved voltage regulation reduces the intensity of the arc that occurs occasionally with any electronic air cleaner, providing quieter performance.

Solid state power supply limits the size of the arc when the collector cell arcs from dirt particles or when the test button is pushed. Arc limit extends the life of the diodes and capacitors.

- As cell loads with dirt, ionization current decreases. New electronic voltage regulation does not permit voltage to drift up, so collector arcing is reduced and dirt-holding capacity is increased.
- Electronically-regulated power supply performs better and longer with fewer service callbacks due to dirty cells.
- Solid state power supply circuit board can easily be replaced on the job, no special tools required.
- All power supply components are on a single printed circuit board, so it's easier to stock and install. Replace board-for-board. Quick-connect, push-in terminals install in a single step (for each terminal).

A handy reminder of service procedures is located inside the cell access door.

The wash reminder schedule conveniently located on the power box reminds consumers to clean cells at proper time to maintain optimum performance.

Residential and Building Controls

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Honeywell

Helping You Control Your World

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Director
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F50E

October 4, 1993

ELECTRONIC AIR CLEANER REPAIR STATION
ANNOUNCEMENT OF
REDESIGNED F50 ELECTRONIC AIR CLEANER

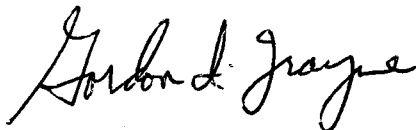
Attention: Purchasing

Honeywell is pleased to announce the new redesigned F50F Residential Electronic Air Cleaner. The new F50F includes the following changes:

- A strengthened FC37 cell with performance enhancements
- A rugged, roll formed cabinet that offers increased strength and a lower cabinet profile
- A redesigned, more robust solid state power supply with integrated performance indication and solid state air flow sensing
- A redesigned power box eliminating the separate contact try and reducing the overall height of the air cleaner

A summary sheet outlining the enhancements is attached. Also enclosed is an F50F specification sheet (68-0137) with addendum (68-A0137), and an Electronic Air Cleaner Power Supply Cross Reference. If you have any questions, please call your local Honeywell Home & Building Control Sales Representative.

Sincerely,



Gordon I. Frayne
Director, Perfect Climate Business Unit

Encl.: --Honeywell F50 Improvement/Function Benefit
--F50F Duct Mounted Electronic Air Cleaner
Specification Sheet & Addendum

HONEYWELL

F50F IMPROVEMENT/FUNCTION/BENEFIT

All F50F electronic air cleaners include cabinet with access door, solid state power supply with air flow sensor, electronic cell(s) and prefilter(s).

FC37 ELECTRONIC CELL

<u>Improvement</u>	<u>Function</u>	<u>Benefit</u>
Contact boards and insulators new material	Impervious to humidity and detergents used in washing	Increases reliability Longer life
Chromate finished galvanized steel ionizer bar	Replaces aluminum	Stronger
"Dimples" added to blades Expansion blade spacing process	Prevents blade warping	Stronger Longer life

SOLID STATE POWER SUPPLY

Robust micro-electronic design 120 shorts/minute quality test	100% quality test of two shorts per second for full minute Power supply functions in harsh, abusive conditions	Increases reliability
Single circuit board with performance indicator included	Eliminates separate W8600 driver board	Simplifies installation
Solid State Air Flow Sensor Standard	Reduces O.S. numbers	Simplifies inventory management Increases profits

POWER BOX

120V line cord standard	Eliminates 240V models (use conversion kit)	Simplifies installation Simplifies inventory management Increases profits
Contact tray in power box	All parts accessible	Simplifies repair F25 to F50 upgrades easier

CABINET

Roll form design	One piece--top/back/bottom	Much stronger
Steel edges rolled	No sharp edges	No more cut fingers
Includes tabs	Bend out for duct board fastening	Simplifies installation
New lower profile EAC	Overall height reduced over 2½"	Easier to install in tight places

For further information, call your Honeywell Home & Building Control Sales Office.

Fall 1993