

USER'S INFORMATION MANUAL

Gas-Fired Furnace

Read all instructions in this manual and retain this and all additional instructions for future reference.

Congratulations...

...you have one of the most modern gas furnaces made. Your unit has been carefully selected to keep you warm and comfortable during the winter months. It will deliver superb performance with only minimal help from you.

To keep your operating costs low and to eliminate unnecessary service calls, we have provided a few guidelines. These guidelines will help you understand how your gas furnace operates and how to maintain it so you can get years of safe and dependable service. Read all the instructions in this manual, and keep all manuals for future reference.



GAMA Certified

The Air-Conditioning, Heating and Refrigeration Institute (GAMA) symbol verifies that Annual Fuel Utilization Efficiency (AFUE) ratings for our gas furnaces have been derived from U.S. Government standard tests.

CSA International Design Certified

The CSA International symbols on each nameplate is your assurance that your furnace design meets nationally recognized standards for safety and performance.



Manufactured By
Allied Air Enterprises Inc.
A Lennox International Inc. Company
215 Metropolitan Drive
West Columbia, SC 29170



WARNING

FIRE OR EXPLOSION HAZARD

Failure to follow the safety warnings exactly could result in serious injury, death, or property damage.

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **WHAT TO DO IF YOU SMELL GAS**
 - **Do not try to light any appliance.**
 - **Do not touch any electrical switch; do not use any phone in your building.**
 - **Leave the building immediately.**
 - **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
 - **If you cannot reach the gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency, or the gas supplier.**

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IMPORTANT SAFETY INFORMATION

WARNING

ELECTRICAL SHOCK, FIRE, OR EXPLOSION HAZARD

Failure to follow the safety warnings exactly could result in dangerous operation, serious injury, death, or property damage.

Improper servicing could result in dangerous operation, serious injury, death, or property damage.

- Before servicing, disconnect all electrical power to furnace.
- When servicing controls, label all wires prior to disconnecting. Reconnect wires correctly.
- Verify proper operation after servicing.

For your safety, read the following before operating your furnace:

1. The furnace area must be kept clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
2. Insulating materials may be combustible. A furnace installed in an attic or other insulated space must be kept free and clear of insulating materials. Examine the furnace when it is installed and also any time insulation is added.
3. For proper and safe operation, the furnace needs air for combustion and ventilation. Do not block or obstruct air openings on the furnace, air openings to the area in which the furnace is installed, and the spacings around the furnace.
4. This furnace is equipped with an ignition device which automatically lights the burners. See **OPERATING YOUR FURNACE** on this page for information on lighting and shutting down the furnace.
5. Should the gas supply fail to shut off or if overheating occurs, shut off the gas valve to the furnace before shutting off the electrical supply.
6. Do not use the furnace if any part has been under water. A flood-damaged furnace is extremely dangerous. Attempts to use the furnace can result in fire or explosion. A qualified service agency should be contacted to inspect the furnace and to replace all gas controls, control system parts, electrical parts that have been wet, or the furnace if deemed necessary.
7. Examine the furnace installation to determine that:
 - A. All flue gas carrying areas external to the furnace, such as the chimney and vent connector, are clear and free of obstructions.
 - B. Vent connector is in place, slopes upward, and is physically sound without holes or excessive corrosion.
 - C. Return air duct connection(s) is physically sound, sealed to the furnace casing, and terminates outside the space containing the furnace.
 - D. Physical support of the furnace is sound without sagging, cracks, gaps, etc. around the base as to provide a seal between the support and the base.
 - E. There are no obvious signs of deterioration of the furnace.
 - F. Burner flames are in good adjustment (see **Burner Flame** beginning on page 6).
8. It is important that you conduct a physical inspection of the furnace at least twice a year. It is also recommended that the furnace should be inspected by a qualified service agent at least once per year.

OPERATING YOUR FURNACE

These furnaces are equipped with an ignition device which automatically lights the burners. **Do not try to light the burners by hand.**

Before operating, smell around furnace area for gas. Be sure to smell near floor because some gas is heavier than air

and will settle to the lowest point. See **WHAT TO DO IF YOU SMELL GAS** on page 1 if the odor of gas is present.

Use only your hand to turn the gas control knob; **never use tools**. If the knob will not turn by hand, don't try to repair it. Call a qualified service technician. **Force or attempted repair may result in a fire or explosion.**

Lighting Instructions

1. **STOP!** Read the previous safety information.
2. Set the thermostat to the lowest setting.
3. Turn off all electric power to the furnace.
4. Remove the burner compartment access panel.
5. This appliance is equipped with an automatic ignition device. **Do not try to light the burners by hand.**
6. Move the gas control knob or switch to "OFF" (see Figure 1).

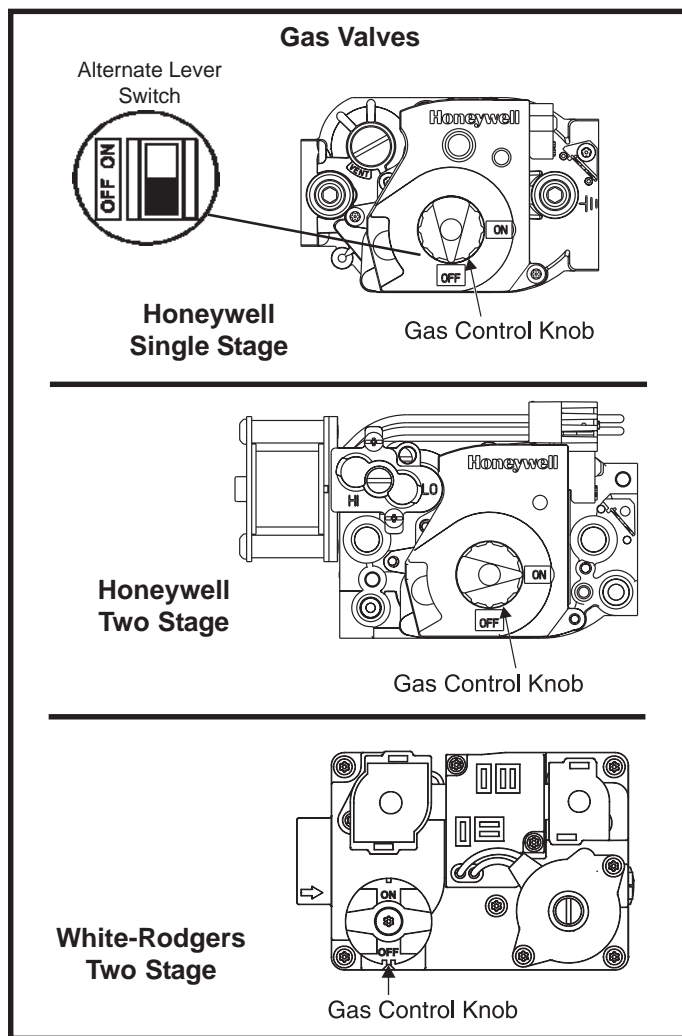


Figure 1

7. Wait 5 minutes to clear out any gas, then smell for gas (including at the bottom of the unit near the ground). If you smell gas, **stop** and follow the directions in **WHAT TO DO IF YOU SMELL GAS** on page 1. If you don't smell gas, continue to next step.

8. Move the gas control knob or switch to "ON".
9. Replace the burner compartment access panel.
10. Turn on all electric power to the furnace.
11. Set the thermostat to the desired setting.
12. If the furnace will not operate, follow the instructions found below in **To Turn Off Gas to Furnace** and call your service technician or gas supplier.

Shutting Down the Furnace

To shut down the furnace, set the thermostat to the "OFF" position.

To Turn Off Gas to Furnace

1. Set the thermostat to the lowest setting.
2. Turn off all electric power to the furnace if service is to be performed.
3. Remove the burner compartment access panel.
4. Move the gas control knob or switch to "OFF" (see Figure 1). Do not force.
5. Replace the burner compartment access panel.

Temperature Control

There are many types and styles of thermostats. Yours may look different from the one shown in Figure 2 on page 4, depending on the type of thermostat and whether cooling was installed with the system. However, almost all thermostats perform the same basic functions described in the following section.

Thermostat Operation

There are four buttons located on the thermostat (see Figure 2 on page 4). One button controls the heating and cooling (if applicable) functions. Another Button is for "FAN" operation, either continuous or automatic. The remaining two buttons set the temperature range for the heating temperature and the cooling temperature desired.

To put the system into operation, push the button to either "HEAT" or "COOL" position. After choosing the type of operation, set the thermostat to the temperature you would like the system to maintain.

Fan Operation

You may wish to increase your comfort by setting your system for continuous air circulation of the indoor air. The fan switch on the thermostat permits you to do this (see Figure 2 on page 4).

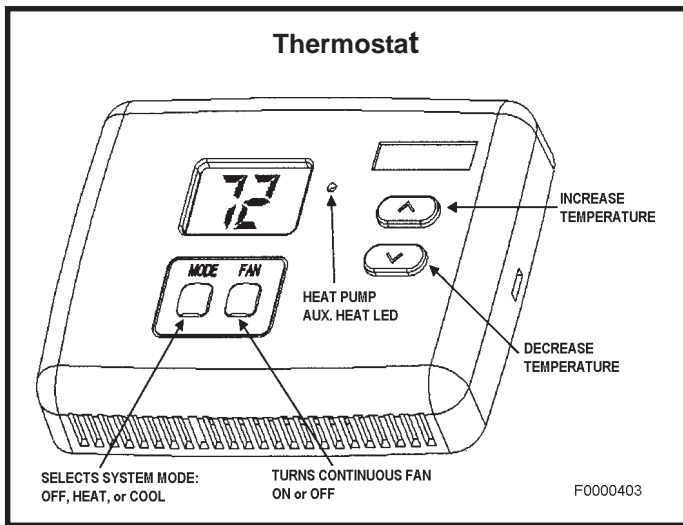


Figure 2

With the switch in the “ON” position the fan will operate continuously. “AUTO” position gives fan operation only when the unit is in either heating or cooling.

Furnace Operation

If your furnace is operating but fails to provide complete comfort, check the following before calling for service:

1. Be sure the thermostat setting is correct.
2. Check to see if the filter is clean.
3. Be sure air can circulate freely throughout your home. Do not block supply registers or return grilles with furniture or rugs.

And if you also have cooling...

4. Keep surface of the outdoor coil free from dirt, lint, paper, or leaves.
5. Check and clean indoor coil, if necessary. (This check should be made at the start of each cooling season by a qualified service technician.)

If your furnace fails to operate, check the following:

1. Be sure the main switch that supplies power to the furnace is in the “ON” position.
2. Replace any burned-out fuses or reset circuit breakers.
3. Be sure the thermostat is properly set.

If the furnace still does not start, call a qualified service technician.

MAINTENANCE OF YOUR FURNACE

⚠ WARNING

Always shut off all power to the unit before attempting any of the following maintenance procedures. Failure to do so may result in personal injury.

There are routine maintenance steps you should take to keep your furnace operating efficiently. This maintenance will assure longer life, lower operating costs, and fewer service calls. In addition to the maintenance procedures listed in this manual, there are also other service and maintenance procedures that require the skills of a service person who has specialized tools and training. **Personal injury can result if you are not qualified to do this work.** Please call your dealer when service is needed.

Your gas furnace is designed to give many years of efficient, satisfactory service. However, the varied air pollutants commonly found in most areas can affect longevity and safety. Chemicals contained in everyday household items such as laundry detergents, cleaning sprays, hair sprays, deodorizers, and other products which produce airborne residuals may have an adverse affect upon the metals used to construct your appliance.

The cabinet of the furnace can be cleaned with soap and water. Grease spots can be removed with a household cleaning agent.

It is important that you conduct periodic physical inspections of your appliance, paying special attention to the gas burner and the flue outlet from the furnace. These components are located at the front of the unit. A flashlight will be useful for these inspections. Make one inspection prior to the beginning of the heating season and another during the middle.

Should you observe unusual amounts of any of the following conditions, it is important that you call your authorized dealer at once to obtain a qualified service inspection:

- Rust, flakes, or other deposits
- Coatings
- Corrosion

Even if no unusual rust or other conditions are observed, **it is recommended that the furnace be inspected and serviced at least once per year by a qualified service technician.** Regular inspections and planned maintenance will assure many years of economical performance from your gas furnace.

Combustion and Ventilation Air

Adequate air supply must be provided to furnaces located in a closet, alcove, or utility room by means of upper and lower

grilles in the door, or by the introduction of outside air, or both, in accordance with the National Fuel Gas Code, ANSI Z223.1/NFPA 54 (latest edition) or the CSA B149.1, Natural Gas and Propane Installation Codes, and local codes.

WARNING

Adequate combustion and ventilation air must reach the furnace to provide for proper and safe operation. Air openings in front of furnace must be kept free of obstructions. Any obstruction may cause improper operation that can result in a fire hazard or carbon monoxide injury.

Venting and Furnace Support

Venting of this furnace must comply with the unit Installation Instructions. Be sure the installer has followed these requirements. If not, you should request the installer to comply as soon as possible.

For your safety, please note the following:

1. 90% plus condensing furnaces must not be vented with any other appliance. The flue (vent) system is under positive pressure from the power venter. Connection of any other appliance to the furnace flue may create a hazardous condition that could cause either appliance to malfunction.
2. 80% furnaces may be common vented with another appliance in certain circumstances. Refer to the installation instructions and Category I Venting Tables, National Fuel Gas Code, ANSI Z223.1/NFPA 54 (latest edition) or the CSA B149.1, Natural Gas and Propane Installation Codes, and local codes for proper installation guidelines.
3. This furnace is not designed for use with a vent damper. Use of such a device will not improve the efficiency of this furnace.

The vent from your furnace may rise vertically and terminate above the roof. The vent from a 90% plus furnace may be run horizontally through an exterior wall. When horizontal venting an 80% furnace, an approved sidewall venter must be used. Refer to the Installation Instructions for further information on horizontal venting of an 80% furnace.

Make sure all flue product materials external to the furnace are clear and free of any obstruction, slope upward, and have no holes or leaks. For proper venting terminations, see the Installation Instructions furnished with the furnace. These furnaces are installed either as direct vent or non-direct vent units, depending on the furnace model. A direct vent (two pipe) installation requires that all the air necessary for

combustion be supplied from outside the dwelling through an air intake pipe. A non-direct vent (one pipe) installation uses air from inside the dwelling for combustion. If your furnace is direct vented, you should inspect the air intake and flue product carrying areas external to the furnace to determine they are clear and free of obstructions. You should also check to see that the vent-air intake system is in place, physically sound, sealed to the furnace casing, and terminating outside the space containing the furnace.

Check to see that the furnace cabinet is sound and firmly supported, without sagging. There should be no cracks or gaps between the furnace and the base or floor, which would permit entry of unfiltered air.

It is important that the outside area where the vent terminates is kept clear of any obstructions which might block or impede the venting of the furnace. Screens in vent terminals should be cleaned periodically. Should venting become blocked at anytime, your furnace is equipped with a special safety control to prevent operation of the furnace until the condition has been corrected. Contact your dealer if you desire more information about this important safety feature.

NOTE: After any heavy snow, ice or frozen fog event the furnace vent pipes may become restricted. Always check the vent system and remove any snow or ice that may be obstructing the intake or exhaust plastic pipes.

Should any unusual conditions be observed during your inspections, call an authorized service dealer immediately.

Return Air

All return air duct connections must be tight and sealed to furnace cabinet and all return air grilles or registers must be located outside the space containing the furnace.

Cleaning/Replacing the Filter

It is very important to clean or replace the air filter regularly. Dirty filters are the most common cause of inadequate heating or cooling performance and can sharply increase the operational costs of your unit. In some cases, they can double the cost. **The air filter should be inspected at least every 6 weeks and cleaned or replaced as required.**

Your furnace may use either a disposable filter or a cleanable filter. The type of filter may be indicated on a label attached to the filter. If a disposable filter is used, replace with the same type and size. To remove excess dirt from a cleanable filter, shake filter and/or use a vacuum cleaner. Wash filter in soap or detergent water and replace after filter is dry. Cleanable filters do not need to be oiled after washing.

Cleanable filters may be replaced with disposable filters. Refer to Table 1 on page 6 when selecting the proper size

and quantity of disposable filter.

If your air distribution system has a central return air filter-grille, the furnace does not need a filter. Filter-grilles can be maintained the same way as cleanable filters (see above).

Filter Location

The filter on your furnace will be located in one of several places on the unit, depending on which furnace style you own.

Figure 3 shows typical filter locations by furnace style (except counterflow). The filters in counterflow furnaces are typically placed by the installer into the return plenum at the top of the furnace. It is the installer's responsibility to install properly sized filters in accordance with Table 1. **When changing any furnace filter, it is important to measure the filter being replaced and to replace it with the same size filter.**

If you can not locate the filter contact your installer or service agency.

| Minimum Filter Requirements | | | | | | |
|-----------------------------|---------------------|------------|------|---------------------|------------|------|
| Airflow Descriptor | Disposable Filters | | | Cleanable Filters | | |
| | Min. Area (sq. in.) | Size (in.) | Qty. | Min. Area (sq. in.) | Size (in.) | Qty. |
| 09 | 480 | 20 x 25 | 1 | 240 | 16 x 20 | 1 |
| 10 | 480 | 20 x 25 | 1 | 240 | 16 x 20 | 1 |
| 12 | 576 | 16 x 20 | 2 | 288 | 16 x 20 | 1 |
| 14 | 672 | 20 x 20 | 2 | 336 | 20 x 20 | 1 |
| 16 | 768 | 20 x 20 | 2 | 384 | 20 x 20 | 1 |
| 20 | 960 | 20 x 25 | 2 | 480 | 20 x 25 | 1 |

1. The Airflow Descriptor is the two digits following the "D" or "V" in the model number.
2. Areas and dimensions shown for cleanable filters are based on filters rated at 600 feet per minute face velocity.
3. Typical filter sizes are shown; however, any combination of filters whose area equals or exceeds the minimum area shown is satisfactory.

Table 1

Lubrication

Lubrication of the bearings in the circulating air blower motor and the combustion blower motor is not recommended.

Burner Flame

While the furnace is in operation, observe the burner flames. Compare these observations to Figure 4 to determine if proper flame adjustment is present. If your observations

indicate improper flame adjustment, call your authorized service dealer for service. **Do not attempt to adjust flame!** Your service representative will perform this adjustment correctly.

Condensate Collection and Disposal System (if applicable)

CAUTION

If the furnace has a condensate drain, it is incorporated within the furnace and is self-priming. **The condensate system must not be exposed to temperatures under 32°F.** Use of heat tape is permissible provided the rate temperature of tape **does not exceed 155°F.**

Make sure the condensate drain line does not become blocked or plugged. Visual inspection of condensate flow can easily be made while the furnace is operating. Use a flashlight to illuminate discharge end of the condensate drain that is placed in the sewer opening. The furnace will not operate properly if condensate drain line becomes blocked or plugged. If this event occurs, have the furnace inspected by a qualified service technician.

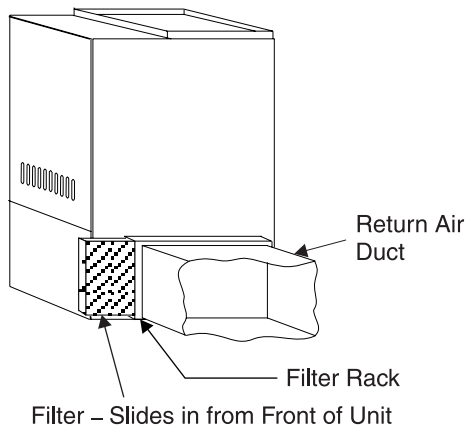
Rollout Switch

This unit is equipped with a manual reset high temperature sensor or rollout switch. In the unlikely event of a sustained burner flame rollout, the rollout switch will shut off the flow of gas by closing the gas valve. The switch is located inside the gas burner area. Flame rollout can be caused by blockage of the power vent system, a blocked heat exchanger, or improper gas pressure or adjustment. If this event occurs, the unit will not operate properly. The gas supply to the unit should be shut off and **no attempt should be made to place it in operation.** The system should be inspected by a qualified service technician.

Safety Interlock Switch

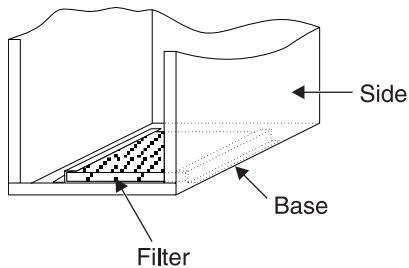
The blower compartment door on your high efficiency gas furnace is equipped with a safety interlock switch that will automatically shut off your complete system (including blower) once the door is removed. This is for your personal safety. Be sure to check your furnace for proper operation once the door or panel has been replaced. If the system does not operate once the panel has been replaced, try removing and replacing it once again. If the furnace still does not operate, call your dealer for service.

**Typical Filter Locations
(Upflow/Multi-Position Models)**



Side Return – Upflow Installations

If filter is located in an external filter rack or cabinet on either side of the furnace cabinet, it may be easily removed, cleaned, or changed, and reinserted in its proper location.



Bottom Return – Upflow/Horizontal Installations

If the furnace has a bottom return air, remove the lower front panel by lifting up and pulling out. The filter(s) may be removed by sliding toward the front. Replace in a reverse procedure.

Figure 3

Typical Flame Appearance

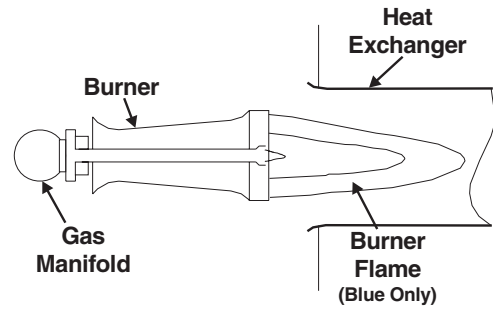


Figure 4

REPAIR PARTS

The following repair parts are available from your local distributor. When ordering parts, include the complete furnace model number and serial number which are printed on the rating plate located on the furnace.

Gas Control Group

- Manifold
- Manifold Retention Plate
- Burner
- Orifice
- Ignition Wire
- Gas Valve

Heat Exchanger Group

- Primary Heat Exchanger
- Flue Box
- Burner Box
- Transfer Tube
- Burner Inlet Plate

Blower Group

- Blower Assembly
- Blower Housing
- Blower Motor
- Blower Wheel
- Capacitor
- Blower Cutoff
- Blower Support

Inducer Group

- Inducer Blower and Motor
- Pressure switch

Electrical Group

- Control Box
- Limit Switch
- Fan Timer Control Board
- Ignition Control
- Transformer
- Rollout Switch

**ALLIED AIR ENTERPRISES
EQUIPMENT LIMITED WARRANTY
APPLIES IN U.S.A. AND CANADA ONLY
FAILURE TO MAINTAIN YOUR EQUIPMENT WILL VOID THIS WARRANTY**

COVERED EQUIPMENT

The following Allied Air Enterprises heating and cooling equipment is covered by the Limited Warranty,

Condensing Units: 2SCU13, 4SCU13, 4SCU14, 4SCU16, 4SCU18, 2AC13, 2AC14, 4AC13
Heat Pumps: 2SHP13, 4SHP13, 2SHP14, 4SHP14, 4SHP16, 4SHP18, 2HP13, 2HP14, 4HP13
Gas Furnaces: G1N80, G1D80, G2D80, G1D91, G1D93, G2D93, G2D95, FPBB, CG80, CG90, CG92, CG93
Oil Furnace: LBR80, LBF80, LHF80, LUF80, LHF80, RLUF, RLBF, RLBR, RLB, RLHF, RLHR
Electric Furnace: EFC, EFV
Evaporator Coils: EC, EU, EH, EM
Air handlers: BCS2, RBCS2
Package Equipment: 2PCE13, 4PCE13, 4PCE15, 2PGE13, 4PGE13, 4PGE15, 2PHP13, 4PHP13, 4PHP15, 2SG13, 2SH13, 2SA13

PARTS and COMPRESSOR COVERAGE

The covered equipment and covered parts and compressor are warranted by Allied Air for a period of five (5) years from the date of the original installation, when installed in a residential application (which includes homes, duplexes, apartments and condominiums). The covered equipment and covered parts and compressor are warranted by Allied Air for a period of one (1) year from the date of the original installation, when installed in non-residential applications. If, during this period, a covered component fails because of a manufacturing defect, Allied Air will provide a free replacement part to the owner through a licensed service contractor utilizing an Allied Air distributor. You must pay shipping charges and all other costs of warranty service. Allied Air will not pay labor involved in diagnostic calls or in removing, repairing, servicing or replacing parts. Such cost may be covered by a separate warranty provided by the installer.

HEAT EXCHANGER EXTENDED COVERAGE

All covered heat exchangers are warranted by Allied Air for a period of twenty (20) years from the date of original installation.
Heat Exchanger Availability: If a replacement heat exchanger is no longer available for a unit covered by this warranty, Allied Air will allow a credit toward the purchase of an equivalent Allied Air furnace (at the current suggested distributor's cost).

NOTE: if the date of original installation cannot be verified, the warranty period will be deemed to begin ninety (90) days after the date of manufacture.

EXCLUDED COMPONENTS

The following components are not covered by this warranty: cabinets, cabinet pieces, air filters, driers, refrigerant, refrigerant line sets, belts, wiring, fuses, oil nozzles, unit accessories and any parts not affecting unit operation

CARE OF EQUIPMENT

Your new Allied Air unit must be properly installed, operated and maintained in accordance with the unit installation, operation and maintenance instructions provided with each Allied Air unit. Failure to provide maintenance per Allied Air instructions will void this warranty.

WARRANTY PROCEDURE

When service or warranty parts are required:

1. Call your local licensed service dealer or contractor
2. If the installing dealer is unable to provide warranty service, check online at www.alliedair.com.
3. Be prepared to furnish the following information:
 - a. complete model and serial number
 - b. proof of required periodic maintenance, installation date and location
 - c. an accurate description of the problem

WARRANTY LIMITATIONS

1. This warranty is void if the covered equipment is removed from the original installation site.
2. This warranty does not cover damage or defect resulting from:
 - a. Flood, wind, fire, lightning, mold, or installation and operation in a corrosive atmosphere, or otherwise in contact with corrosive materials (chlorine, fluorine, salt, recycled waste water, urine, fertilizers, or other damaging substances or chemicals). Accident, or neglect or unreasonable use or operation of the equipment including operation of electrical equipment at voltages other than the range specified on the unit nameplate (includes damages caused by brownouts).
 - b. Modification, change or alteration of the equipment, except as directed in writing by Allied Air.
 - c. Operation with system components (indoor unit, outdoor unit and refrigerant control devices) which are not an ARI match or meet the specifications recommended by Allied Air.
 - d. Operation of furnaces with return air temperatures of less than 60°F (16°C) or operation of a furnace field installed downstream from a cooling coil.
 - e. Use of contaminated or refrigerant not compatible with the unit.

The installation of replacement parts under the terms of this warranty does not extend the original warranty period.

Allied Air makes no express warranties other than the warranty specified above. All implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, are excluded to the extent to a period legally permissible. Should such exclusion or limitation of the warranty be unenforceable, such implied warranties are in any event limited to a period of one (1) year. Liability for incidental and consequential damages is excluded. Some states do not allow limitation of incidental damages, so the limitations or exclusions may not apply to you. Allied Air will not pay electricity or fuel costs, or increases in electricity or fuel costs, for any reason whatsoever, including additional or unusual use of supplemental electric heat. This warranty does not cover lodging expenses or labor charges.

Allied Air shall not be liable for any default or delay in performance under this warranty caused by any contingency beyond its control.

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

NOTE TO CUSTOMER:

Please complete information below and retain this warranty for your records and future reference.

Outside Unit Model Number: _____ Serial Number: _____ Installed Date: _____
Furnace / Air Handler: _____ Serial Number: _____ Installed Date: _____
Indoor Coil Model Number: _____ Serial Number: _____ Installed Dare: _____
Installing Company Name: _____ Phone: _____
Installing Company Address: _____ State/Province: _____ Zip/Postal Code: _____



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LIMITED EXTENDED PARTS WARRANTY

Allied Air Enterprises, Inc. ("Allied") provides its air conditioning and heating products with a standard five-year parts warranty. This limited extended parts warranty is in addition to and is intended to supplement Allied's standard 5-year parts warranty. As such, this limited extended warranty provides for a total of 10-years of limited warranty coverage (Standard 5-Year Limited Parts Warranty plus Additional 5-Year Limited Extended Parts warranty).

EXTENDED COVERAGE -

PARTS/COMPRESSORS

The covered equipment and parts are warranted by Allied for a total of **10 YEARS** (standard 5 Year Limited Parts Warranty) from installation, except as provided below.

HEAT EXCHANGERS

The covered residential heating equipment's heat exchanger is warranted by Allied for a Limited Lifetime (standard 20 Year Limited Warranty) from date of original installation, except as provided below.

This warranty applies only to the original purchaser of the unit and cannot be transferred. If during this period, a covered part fails because of a defect in materials or workmanship under normal use and maintenance, Allied will provide a free replacement part to the purchaser through an Armstrong Air, Air Ease, Ducane or Concord dealer or other licensed service contractor through an authorized Allied distributor. The purchaser must pay shipping costs, including labor, of the warranty service.

EXCLUDED COMPONENTS -

The following components are expressly not covered by this limited warranty: cabinets, cabinet pieces, air filters, driers, refrigerant, refrigerant line sets, belts, wiring, fuses, oil nozzles, and unit accessories, R-22 compressors, and any parts not affecting unit operation.

COVERAGE REQUIREMENTS -

1. The unit is an Armstrong Air, Air ease, Ducane, or Concord branded unit;
2. The unit is installed in a residential application, which is an owner-occupied single-family residence. No commercial applications are allowed;
3. **The unit is properly registered at (www.alliedair.com) with Allied Air Enterprises within 60-days after the original date of installation or occupancy.¹ To register follow the directions and complete the on line warranty registration at (www.alliedair.com). For customer inquiries contact Allied Air at 1-800-448-5872.**
4. The unit is part of a complete ARI matched system and installed by a state certified or licensed contractor in accordance with the unit installation, operation, and maintenance instructions provided with the unit.
5. Coils and air handlers are covered only when they are branded Armstrong Air, Air ease, Ducane, or Concord and are purchased and installed as a system along with a qualifying unit. (Third party coils are not covered).
6. Installation takes place on or after October 3, 2008.

If this extended warranty does not apply, then parts are warranted for the standard warranty period of **5 YEARS** and all heat exchangers for **20 YEARS**. If the standard warranty periods differ from the original warranty certificate, the periods stated on the original warranty certificate apply.

This limited extended warranty does not apply to, and no warranty is offered by Allied, on any unit ordered over the internet. Proof of purchase may be required.

Any part replaced pursuant to this limited extended warranty is warranted only for the unexpired portion of the limited extended warranty term applying to the original part. The installation of replacement parts under the terms of this limited extended warranty does not extend the warranty period.

This limited extended warranty is an extension of Allied's standard warranty. **ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE TERM OF THIS LIMITED EXTENDED WARRANTY.** Some states and provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

ALLIED SHALL IN NO EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO EXTRA UTILITY EXPENSES OR DAMAGES TO PROPERTY. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Allied is not responsible for:

1. Damage or repairs required as a result of flood, fire, wind, lightning strike (to the home or unit), corrosive atmosphere, contact with corrosive material (Chlorine, fluorine, salt, recycled waste water, fertilizers or other damaging substances) or other conditions beyond the control of Allied;
2. Use of parts, accessories, or refrigerant not compatible with the unit;
3. Modification, change or alteration of the unit, except as expressly directed in writing by Allied;
4. Improper use, accident, neglect or unreasonable use or operation of the unit, including operation of electrical equipment at voltages other than the range specified on the unit nameplate;
5. Operation with system parts (indoor unit, outdoor unit and refrigerant control devices) which are not ARI matched or do not meet the specifications recommended by Allied;
6. Damage or repairs required as a consequence of faulty or installation or application;
7. Normal maintenance as described in the installation and operating manual, such as cleaning of coils, filter cleaning and/or replacement and lubrication; and
8. Changes in the appearance or sound of the unit that do not affect its performance.

The parties intend this writing as a final expression of their agreement with respect to warranties. Allied makes no other warranty beyond that which is expressly contained in this writing.

Allied shall not be liable for any default or delay in performance under this warranty caused by any contingency beyond its control, including the unavailability of replacement parts.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

Steps for getting replacement parts under this limited extended warranty:

If you suspect a defect in your equipment, please contact the installer of the unit to obtain assistance. If unsuccessful, please contact an Allied dealer or distributor in your area. If unable to obtain local assistance, refer to Allied's website (www.alliedair.com) or contact Allied at 800-448-5872.

¹ Excludes residents of states or provinces where registration requirements are prohibited, such as California and Quebec. Residents of these states or provinces may either register as noted above or provide proof of when the unit was purchased and installed, such as an original invoice from the contractor with the Owner's name, address, purchase date, serial and model number.