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CONTACT INFORMATION

• Go to website at www.york.com, then click on “Contact Us” and follow the instructions.
• Contact us by mail:

We recommend that the user read all sections of this manual and keep the manual for future reference.

WARNING

Cancer and Reproductive Harm – www.P65Warnings.ca.gov

This high efficiency Air Handling system has been precision engineered, manufactured of high quality materials, and passed many rigorous tests and inspections to ensure years of satisfactory service. That’s why you can rely on efficient, trouble-free operation. Your system is fully automatic. Set the thermostat and forget it. It’s automatically protected from damage by voltage fluctuations or excessive heating or cooling demands. Your air handler is actually two units – the indoor air blower and the indoor refrigeration coil, part of the outdoor air conditioning or heat pump system installed with this air handler. You may have an Electric Resistance Heater kit installed in this air handler.

SECTION I: HOW YOUR AIR HANDLER WORKS

If your hand is wet and you blow on it, it feels cool because some of the moisture is evaporating and becoming a vapor. This process requires heat. The heat is being taken from your hand, so your hand feels cool. That’s what happens with a heat pump. During the cooling cycle, your system will remove heat and humidity from your home and will transfer this heat to the outdoor air. During the heating cycle, your system will remove heat and humidity from the outdoor air and will transfer this heat to your home. This is possible because even 0°F outdoor air contains a great deal of heat.

SECTION II: SYSTEM OPERATION

Your thermostat puts full control of the comfort level in your home at your fingertips. DO NOT switch your thermostat rapidly “On” and “Off” or between “Heat” to “Cool” This could damage your equipment. Always allow at least 5 minutes between changes. It is not recommended to close or block off supply or return air grills. Damage to equipment and higher utility bills may result.

SETTING THE THERMOSTAT

Although thermostats may vary widely in appearance, they are all designed to perform the same basic function: to control the operation of your air conditioning or heat pump system. Regardless of size or shape, each thermostat will feature a temperature indicator; a dial, arm, or push button for selection of the desired temperature; a fan switch to choose the indoor fan operation; and a comfort switch for you to select the system mode of operation.

Only approved thermostats have been tested and are fully compatible with this equipment. Please be aware that many different thermostats operate on batteries or “power stealing” principals. These types of thermostats cannot be supported as trouble free when used with this product.

A complete operating instruction is provided by the manufacturer for each thermostat. Familiarize yourself with its proper operation to obtain the maximum comfort with minimum energy consumption.

Remember that your heat pump doesn’t generate much heat, it merely transfers it from one place to another.

CAUTION

An air handler should never be operated without a suitable air filter. Dirty filters greatly restrict the flow of air and may cause damage to the moving parts. The filters should be checked every month. On new construction, the filters must be checked every week for the first four weeks and after that every three weeks. When replacing the filter(s) you must use filters that are the same size as those recommended.
If your system has been designed to allow both cooling and heating operation, you may have either a manual change-over type, or an automatic change-over type.

Manual change-over simply means that the comfort switch must be manually positioned every time you wish to switch from the cooling to heating or cooling modes of operation.

The automatic change-over thermostat is actually a sophisticated electronic version of a manual change-over type. This thermostat includes features which allow “set-back” temperature variations for periods of sleep, or while you are away during the day, and means energy savings for you. The thermostat may feature a digital clock and outdoor temperature.

**Fan Operation Selection**

A multi-position fan switch allows you to choose the type of fan operation of the indoor fan.

**AUTO** - With the thermostat fan switch set to “AUTO”, the fan will run intermittently as required for either heating or cooling. This position will provide the lowest operating cost. If you purchased one of our thermostats, it may have an Intelligent fan mode which continually circulates the air during occupied modes or when you are at home, and can cycle the fan during unoccupied mode or during the night while you sleep to further conserve energy.

**ON** - If the fan switch is set to “ON”, the indoor fan will not shut off. However, the system will still operate as required by room temperatures. This provides continuous air filtering and more even temperature distribution throughout the house, which is especially useful in homes with basements.

Usually during spring and fall, when neither heating nor cooling is required, you may want to run only the fan to ventilate, circulate, and filter the air in your home or building. Set the comfort control switch to “OFF” and the fan switch to “ON”. Be sure to return the switches to their original positions for normal operation.

**Heating Cycle**

With the thermostat in the heating position, and the outdoor temperature in the range of 20 to 30° or below, the outdoor unit may run 100% of the time.

Some systems can be equipped with balance point control to provide even more efficient operation. This control will prevent the electric heater from being energized when the outdoor air is above some predetermined temperature setting (0 to 45°F). At higher temperatures, a heat pump may provide all the heat the home will ever need. At lower temperatures, the auxiliary heat will be energized to keep your home comfortable.

When the outdoor air is cool and moist, frost may form on the surface of your outdoor heat pump coil. When this frost builds to a certain point, your system will switch to a defrost cycle. Although you may feel cooler air coming from your registers, DO NOT adjust your thermostat. The frost will melt quickly, and your system will return to normal operation automatically.

**Cooling Cycle**

Switch your thermostat to cool. Select a comfortable thermostat temperature setting, typically between 75 and 80°. Comfort sensations vary with individuals. The lower the indoor temperature desired, the greater will be the number of hours your unit must operate.

Set your thermostat 2 or 3°F below normal several hours before entertaining large groups during hot weather. People give off considerable heat and moisture.

On an extremely hot day, the indoor temperature may rise 3 to 6°F above the thermostat setting. Properly selected equipment does not have the capacity to maintain a constant indoor temperature during the peak load. Over-sizing your system to handle this peak load is not practical because the oversized system would operate much less efficiently at all other conditions.

**MANUAL CHANGE-OVER THERMOSTAT**

**COOLING YOUR HOME:** With the comfort control switch in the “COOL” position, the system will operate as follows: When the indoor temperature rises above the level indicated by the temperature adjustment setting, the system will start. The outdoor unit will operate and the indoor fan will circulate cool, filtered air. When the room temperature is lowered to the setting selected, the system will shut off.

**HEATING YOUR HOME:** If your system includes a heating unit and the comfort control switch is in the “HEAT” position, the system will operate as follows: When the indoor temperature drops below the level indicated by the temperature adjustment setting, the system will start. The heating system will operate and the indoor fan will circulate warm, filtered air. When the room temperature rises to the setting selected, the system will shut off.

Whether heating or cooling, the fan will continue to operate if the fan switch was set in the “ON” position. The “AUTO” setting will allow the fan to shut off when your thermostat reaches your desired setting.

**ELECTRONIC THERMOSTAT**

The computerized electronic thermostat, when programmed, will function automatically to operate the system as follows: When the indoor temperature rises above the higher (COOL) setting, the outdoor unit will operate and the indoor fan will circulate cool, filtered air. When the room temperature is lowered to the selected level, the system will shut off. When the indoor temperature drops below the lower (HEAT) setting, the heating system will operate, and the indoor fan will circulate the warm, filtered air. When the indoor temperature rises to the selected setting, the system will shut off. The indoor fan will either shut off or run continuously, depending upon your choice of fan switch setting.

**SECTION III: TO MAXIMIZE OPERATING EFFICIENCY**

**HEATING CONSERVATION**

For the most efficient operation, keep storm windows and doors closed all year long. They not only help insulate against heat and cold, but they also keep out dirt, pollen, and noise.

Closing drapes at night, keeping fireplace dampers closed when not in use, and running exhaust fans only when necessary will help you to retain the air you have already paid to heat.

Keep lamps, televisions, or other heat producing sources away from the thermostat. The thermostat will sense this extra heat and will not be able to maintain the inside temperature to the desired comfort level.

**COOLING CONSERVATION**

To comfortably cool your home, your air conditioner must remove both heat and humidity. Don’t turn your system off even though you will be away all day. On a hot day, your system may have to operate between 8 to 12 hours to reduce the temperature in your home to a normal comfort level.

Keep windows closed after sundown. While the outdoor temperature at night may be lower than indoors, the air is generally loaded with moisture which is soaked up by furniture, carpets, and fabrics. This moisture must be removed when you restart your system.
The hotter the outside temperature, the greater the load on your system. Therefore do not be alarmed when your system continues to run after the sun has set on a hot day. Heat is stored in your outside walls and attic during the day and will continue to flow into your home for several hours after sunset.

Use your kitchen exhaust fan when cooking. One surface burner on “HIGH” requires one ton (12,000 BTUs) of cooling. Turn on your bathroom exhaust fan while showering to remove humidity. However, exhaust fans should not be run excessively. It would decrease efficiency by removing conditioned air.

You can help your system in the summer by closing drapes or blinds and by lowering awnings on windows that get direct sunlight.

SECTION IV: CARE OF SYSTEM

The owner/user should not attempt to disassemble the equipment nor perform periodic maintenance unless they are experienced and qualified to do so.

A periodic inspection, cleaning, lubrication, and adjustment of your heat pump is available from your dealer. Be sure to ask him about this service.

It is recommended that your heating and air conditioning system is inspected on a yearly basis by a licensed and qualified service provider. The service technician should clean coils, inspect and tighten all electrical connections, clean drain lines, and check for proper system operation.

For those who prefer to do-it-yourself, follow the instructions below to care for your system.

MOTOR LUBRICATION

The motors in these Air Handlers are permanently lubricated, and do not require periodic oiling.

PERIODIC INSPECTION

AIR FILTERS

Air filters maybe internally or externally mounted. Dirty filters greatly restrict the flow of air and may cause damage to the moving parts. Some pleated filters may be too restrictive and should not be used. If the filters become clogged the Electric Heaters and blower motor could overheat resulting in a potentially dangerous situation. The filters should be checked every month. On new construction, check the filters every week for the first four weeks and every three weeks after that, especially if the indoor fan is running continuously. When replacing the filter(s) you must use filters that are the same size as those recommended in Table 1. Never operate your Air Handler without a suitable air filter.

Filter Care

Inspect the air filter every month. If dirty, wash reusable filters with water. Replace disposable filters with new filters. Filters should be clean to assure maximum efficiency and adequate air circulation. Drapes, furniture or other obstructions blocking your supply and return air grilles will also decrease efficiency.

An air filter was supplied by your dealer with your new Air Handler. A 1” filter rack compartment was built-in on your new Air Handler and may use either a 1” disposable filter or a permanent washable filter media per Table 1.

TABLE 1: Filter Sizes

<table>
<thead>
<tr>
<th>Cabinet Size</th>
<th>Disposable Filter Size for Built-in Filter Compartment</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>16”x20”x1”</td>
</tr>
<tr>
<td>C</td>
<td>20”x20”x1”</td>
</tr>
<tr>
<td>D</td>
<td>22”x20”x1”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cabinet Size</th>
<th>Permanent Washable Filter Part Numbers for Built-in Filter Compartment</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>S1-1PF0601BK</td>
</tr>
<tr>
<td>C</td>
<td>S1-1PF0602BK</td>
</tr>
<tr>
<td>D</td>
<td>S1-1PF0603BK</td>
</tr>
</tbody>
</table>

Removing Internally Mounted Air Filters

This Air Handler may have a filter located on bottom of the unit behind the filter access panel.

1. Remove filter access panel by removing screws from each side of the filter access panel.
2. Install the clean filter with “air flow” arrow in the same direction as the air flow in your duct. If air flow direction is indicated on the filter, refer to Figure 1.
3. Replace the panel, and reinstall screws to secure the panel.

FIGURE 1: Air Flow
For Externally Mounted Air Filters
This air filter should be located in a rack attached to the casing of the Air Handler or placed in the return air duct, or wall mounted filter grille(s). Replace throw away filter(s) with the same size new filter(s). Throw away filter(s) may be replaced with cleanable filter(s) at this time. Cleanable filter(s) may be cleaned as described in the Manufacturer instructions

How to Clean your Filter
Permanent type, washable, High-velocity filters may be cleaned with a vacuum cleaner or taken away from the unit & washed with a garden hose. Be sure to shake off excess water and allow filter to completely dry before re-installing the filter.

CONDENSATE DRAIN LINES
Coils maybe included in the air handler or separately mounted. During the cooling season check the condensate drain lines to be sure that condensate is flowing from the primary drain but not from the secondary drain. If condensate ever flows from the secondary drain the unit should be promptly shut off and the condensate pan and drains cleaned by a qualified service technician to insure a free flowing primary drain.

COIL CLEANING
If an inspection by a qualified service technician indicates the coil needs to be cleaned, it can be washed with water.

BLOWER CARE
Even with good filters properly in place, blower wheels and motors will become dust laden after long months of operation. The entire blower assembly should be inspected annually. If the motor and wheel are heavily coated with dust, they can be brushed and cleaned with a vacuum cleaner. If the blower cannot be properly cleaned without removing it from the air handler, then this service must be performed by a qualified service agency.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CHECK</th>
<th>ACTION TO TAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Heat or Cooling</td>
<td>1. Thermostat for proper settings.</td>
<td>Set thermostat to proper setting.</td>
</tr>
<tr>
<td></td>
<td>3. Check outdoor unit for dirty coil (Cooling).</td>
<td>Clean coil, see “COIL CARE” section.</td>
</tr>
<tr>
<td></td>
<td>4. Outdoor unit for snow accumulation. (Heating).</td>
<td>Remove loose snow only.</td>
</tr>
<tr>
<td></td>
<td>5. Indoor unit for dirty filter (Heating or Cooling).</td>
<td>Clean or replace, see “FILTER CARE” section.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Light flashing = Malfunction Check 1 - 5, call qualified service person with fault code.</td>
</tr>
<tr>
<td>Wet on Floor or in Furnace</td>
<td>Condensate drain and “P” trap</td>
<td>Remove blockage.</td>
</tr>
</tbody>
</table>

WARNING
Make sure you DO NOT move the clip on weight on the indoor fan wheel when cleaning the wheel. This weight is used to balance the wheel. Moving the weight will cause the fan wheel to vibrate.
Limited Warranty
Residential Split Air Handlers

WARRANTY TERMS: Johnson Controls Unitary Products ("Company") 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 defective parts without charge, subject to the exclusions below and according to the terms outlined in this warranty. Company reserves the right, at its sole discretion, to provide an equivalent complete replacement unit in place of repair parts. Alternatively, Company may at its option, offer a replacement price allowance to be applied toward the purchase of a new unit offered by Company. The exact allowance amount will be determined at the discretion of Company, based upon availability, age of existing equipment and current market conditions, but excluding items as ductwork, wiring, piping, and installation costs. The warranty period for obtaining repaired or replacement parts, or an allowance shall not extend beyond the original warranty period as stated below. In addition, if a replacement unit is provided by Company, the warranty period for the complete replacement unit is limited to the remainder of the original warranty period.

This warranty covers only equipment described by the Product Model Number and Unit Serial Number on the equipment or listed on the Warranty Registration Card, and applies only to products installed in the United States, Canada, or Puerto Rico. Company shall have no responsibility for installation, service, shipping, handling or other costs or charges, except as otherwise provided in this warranty. Tampering, altering, defacing, or removing the product serial number will serve to void this warranty. This warranty extends only to the original consumer purchaser and is nontransferable.

For this warranty to apply, the product must be installed according to Company recommendations and specifications, and in accordance with all local, state, and national codes; and the product or residence must not be removed from its place of original installation. This warranty does not apply to any unit sold over the Internet, by telephone or other electronic means unless the dealer that buys or sells a unit over the Internet, by telephone or other electronic means also installs the unit. In the absence of a recorded Warranty Registration Card, the warranty period will begin upon product shipment from Company. If you are unaware of the effective warranty date, contact Company at (877) 874-7378 or www.upgproductregistration.com.

FOR PRODUCT REGISTRATION: For your benefit and protection, register your product with Company promptly after installation. This will initiate the warranty period and allow us to contact you, should it become necessary. You can register your product online at www.upgproductregistration.com or by returning the Warranty Registration Card on the back page of this packet.

FOR WARRANTY SERVICE OR REPAIR: Notify your Installing Dealer or a Participating Dealer, preferably in writing, as soon as possible after discovery of the problem. Be sure to include the Product Model Number, Unit Serial Number, Installation Date, and a description of the problem. You may find the Installing Dealer's name on this page or on the equipment, and you can locate Participating Dealers online at www.yorkupg.com.

If a Dealer response is not received within a reasonable amount of time, notify Company at: Johnson Controls Unitary Products, Consumer Relations, 5005 York Drive, Norman, OK 73069 or by telephone at (877) 874-7378. All warranty service or repair will be performed during regular business hours, Monday through Friday 9:00 AM - 5:00 PM. Service requests sent to Company without prior Dealer contact will be referred back to a Participating Dealer. Because this process takes time, it is in the best interest of the Consumer to contact a Participating Dealer directly.

WARRANTY PERIOD: The warranty period in years, depending on the part, is as shown in the chart below.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR HANDLERS</td>
<td>5 or 10†</td>
</tr>
</tbody>
</table>

NOTES:
†To qualify for the extended 10-year parts warranty, the unit must be registered online at www.upgproductregistration.com within 90 days of installation for replacement or 90 days of closing for new home construction. In some states, registration is not required, but proof of installation is required to qualify for the 10-year parts warranty.

MAINTENANCE: Company strongly recommends regular periodic preventive maintenance on this equipment. The person most familiar with the equipment in your HVAC system is a Participating Dealer. The Participating Dealer can ensure that your maintenance program meets the "Company Warranty" conditions, maximize the equipment efficiency, and service your unit within the mandated guidelines with regard to unlawful discharge of refrigerants into the atmosphere. For additional buyer protection, Residential Home Comfort Plans are available from a Participating Dealer. These plans provide you with additional years of warranty service protection including labor charges. Home Comfort Plans must be purchased within one (1) year from the date the equipment was installed.
EXCLUSIONS: This warranty does not cover any:

1. Shipping, labor, or material charges or damages resulting from transportation, installation, or servicing.
2. Damage or repairs required as a consequence of mishandling, faulty installation, misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.
3. Damages or failure to start resulting from improper voltage conditions, blown fuses, open circuit breakers, or other inadequacy or interruption of electrical service or fuel supply.
4. Fuses, either internal or external to the product.
5. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing, or handling of either defective parts or replacement parts.
6. Products removed from their original location for reinstallation purposes.
7. Damages resulting from accident, abuse, fire, flood, alteration, or acts of God.
8. Damages resulting from use of the product in a corrosive atmosphere.
9. Normal maintenance, or damages resulting from failure to perform normal maintenance, as outlined in the installation and servicing instructions or owner's manual.
10. Cleaning or replacement of filters, nozzles, or orifices.
11. Damages resulting from operation with inadequate supply of air or water; Damages resulting from failure to properly and regularly clean air and/or water side of condenser and evaporator.
12. 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.
13. Damages caused by improper parts, components or accessories not suitable for use in or with the unit. For a list of parts that are known to be compatible please reference the equipment renewal parts list, contact a Participating Dealer for assistance, or call 1-877-874-7378.
14. Electricity or fuel costs, or increases in fuel or electric costs, for any reason including additional or unusual use of supplemental electric heat.

This warranty is in lieu of all other express warranties. All implied warranties, including the implied warranty of merchantability and fitness for a particular purpose are limited in duration to the actual warranty period applicable to the part. Some states do not allow the disclaimer of implied warranties, so the above disclaimer may not apply to you. In addition, some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In no event, whether as a result of breach of warranty or contract, tort (including negligence), strict liability, or otherwise, shall Company be liable for special, incidental, or consequential damages or expenses, 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 Company's suppliers and subcontractors. The above limitation on consequential damages shall not apply to injuries to persons in the case of consumer goods. Company does not assume, or authorize any other person to assume for Company, any other liability for the sale of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.