

TECH BUILT



Home Comfort System

HEAT PUMPS



V 03.14.23



HOME SURVEY

How long do you plan to live here?

How quiet would you like your system to be?

Which rooms are too hot or too cold?

Who suffers from allergies or problems due to airborne dust, mold, pollen, viruses or dander?

How much would you like to reduce your energy bills?

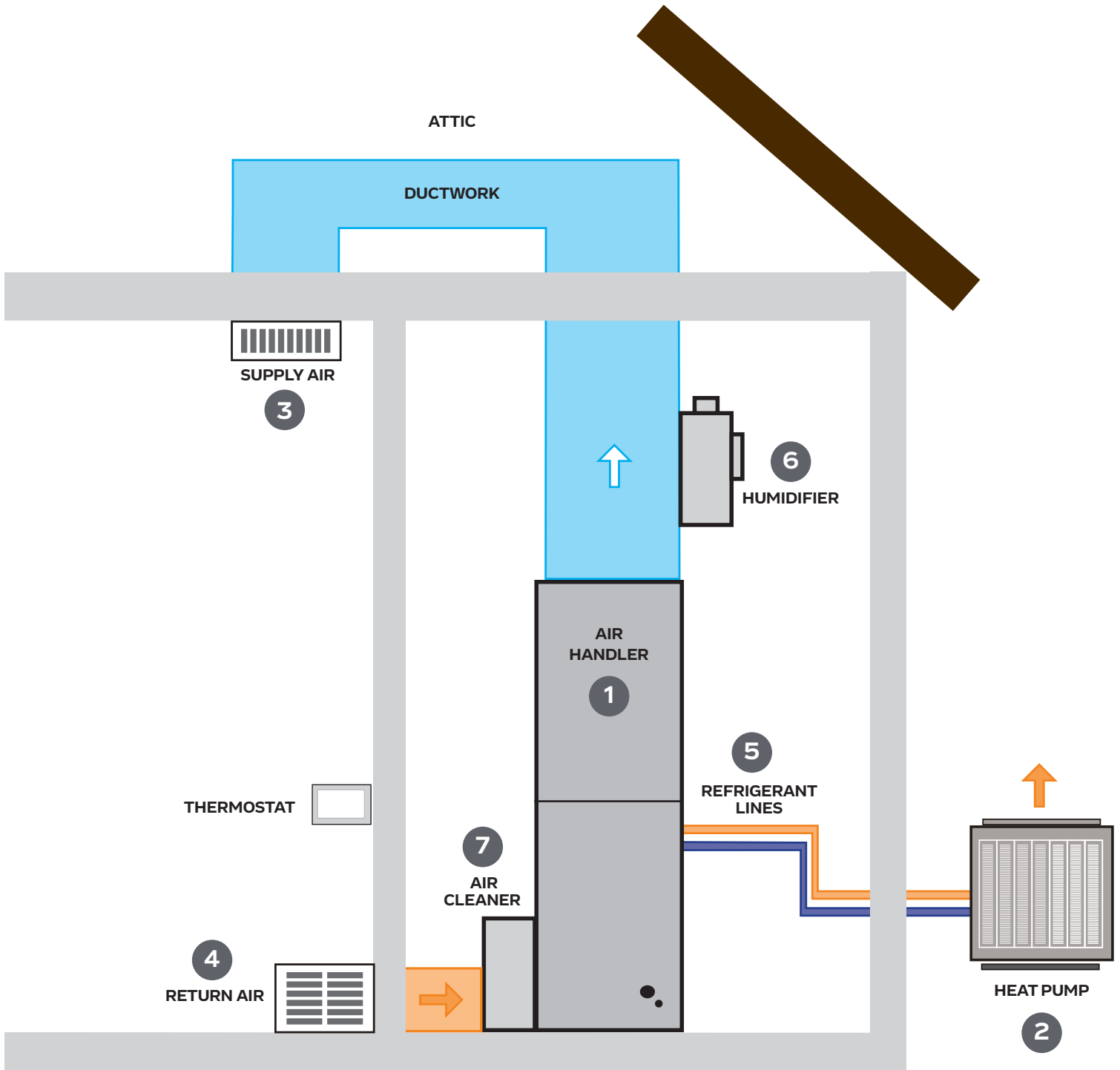
How often is your system maintained?

Would you like to reduce concerns of unplanned repair bills?

What would you like to see improved in your current system?

HOW IT WORKS

1. Air Handler - component that circulates air and adds or removes heat from the air.
2. Heat Pump - adds or removes heat to the house.
3. Supply Air - sends air into rooms after being heated or cooled.
4. Return Air - returns air into the heating and cooling system.
5. Refrigerant Lines - medium by which heat is transferred from one place to another.
6. Humidifier - device that increases humidity.
7. Air Cleaner - removes solid particulate matter such as dust, pollen, mold, and bacteria from the air depending on the type of filter and efficiency level.



FAQS

CHOOSING A CONTRACTOR

Why Should I hire a licensed & bonded contractor?

While you're checking to see if companies are insured and bonded, don't forget to inquire about whether the contractor's particular trade requires a license. States often require specific licenses for particular trades, such as electrician, plumber or HVAC.

Bonding protects the consumer if the contractor fails to complete a job, doesn't pay for permits, or fails to meet other financial obligations, such as paying for supplies or subcontractors or covering damage that workers cause to your property.

Why pull permits?

Building permits are required for most construction or remodeling projects, in order to ensure the safety of the work and its compliance with building, construction, and zoning codes.

Why is proper installation important for my home's HVAC system?

Proper installation is the single most important factor of your new system's longevity and efficiency. An improperly installed system can lead to early system failures and higher energy consumption.

SYSTEM SELECTION

Does a bigger or smaller heating or cooling system offer better performance?

No. Oversized equipment can use up to 9% more energy and undersized systems do not generate enough airflow to fill your home. A properly sized system allows for maximum unit lifespan.

What is the difference between gas/electric & a heat pump system?

A gas/electric system uses electricity to cool your home and gas and electricity to heat it; whereas a heat pump uses only electricity to both heat and cool your home.

Should I repair or replace?

If your system is newer and under warranty we recommend repairing it. If your system is older, it is likely reaching the end of its lifespan, so repairing it may not be the best option and a newer system will likely be much more energy efficient.

Why should I upgrade my air vents?

Upgrading to bar-type registers can increase airflow and decrease the pressure buildup on the system thereby extending the life of the equipment.

INDOOR AIR QUALITY (IAQ)

What does MERV mean?

MERV stands for minimum efficiency reporting value and signifies how effective a filter is at removing particles from the air. The higher the MERV the smaller the particle the filter can remove from the air.

Should I purchase a whole home humidifier?

A whole home humidifier can be a great way to increase the humidity level in your home. Proper humidity levels are important as they reduce static electricity, dry skin, chapped lips and scratchy throats.



What is the proper indoor humidity level?

Generally, a good range is 40-50% humidity.

What is fresh air ventilation system?

Fresh air ventilation systems remove stale air from your home and bring in fresh air automatically. These systems reduce carbon monoxide (CO), formaldehyde and help remove odors from the home.

Should my ductwork be upgraded?

There are several factors that determine if your ductwork needs to be upgraded. If the ductwork is damaged and/or leaking, adding insulation will reduce the amount of heating or cooling loss in your attic lowering your overall energy consumption.

Should I have my air ducts cleaned?

We can inspect your ductwork and make a recommendation on whether or not it needs to be cleaned.

What do UV lights do?

They are designed to be installed in the coil and are intended to reduce mold and bacteria buildup on the coil.

COST

What rebates are available?

Rebates offered vary by region. Be sure to check with your local utility companies for current offers.

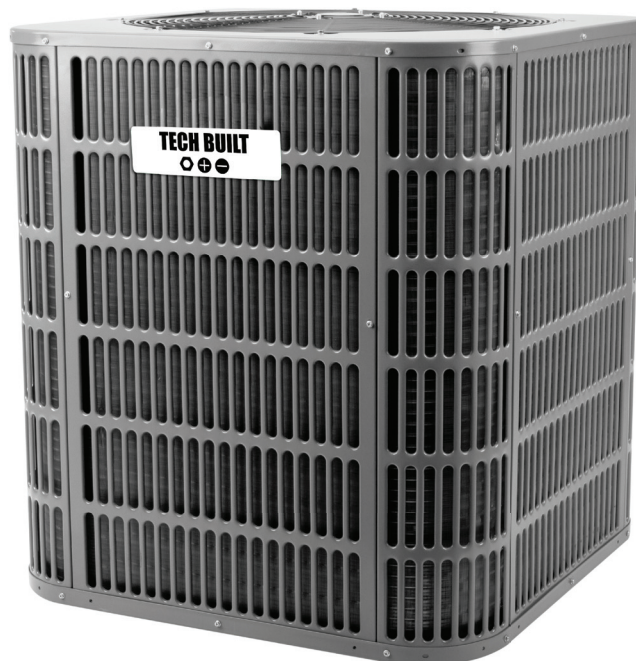
How can I reduce my energy bill?

Air conditioners with a higher SEER (Seasonal Energy Efficiency Ratio) ratings will consume less power. Systems with a higher AFUE (Annual Fuel Utilization Efficiency) will cost less to heat your home in the winter.

Sealed ductwork prevents air leaks. The national average suggests, most US homes waste up to 35% of their cooling costs through leaking ducts. This dissipated airflow equals \$35 wasted for every \$100 spent.

Why is there no set price?

Every home has different requirements as to what needs to be done to provide the ultimate level of comfort.



WHY IS IT IMPORTANT TO MAINTAIN MY HEAT PUMP AND AIR HANDLER WITH A SERVICE AGREEMENT?

Service agreements help extend the life span of a heating and air conditioning system by ensuring it runs at maximum efficiency. A typical service agreement includes two visits per year. One tune-up in the springtime prepares your heat pump system for the summer, and one in the fall prepares your air handler for the winter. Properly maintaining your system can have a significant impact on your utility bills and the life of your system. Ask for details about the service agreement options available to you.

A maintenance agreement provides peace of mind since your system will be properly serviced on schedule.

Don't get caught in the heat without your heat pump and air handler. Sign up for a service agreement today!



LOWER YOUR ENERGY BILLS WITH A NEW HIGH EFFICIENCY SYSTEM

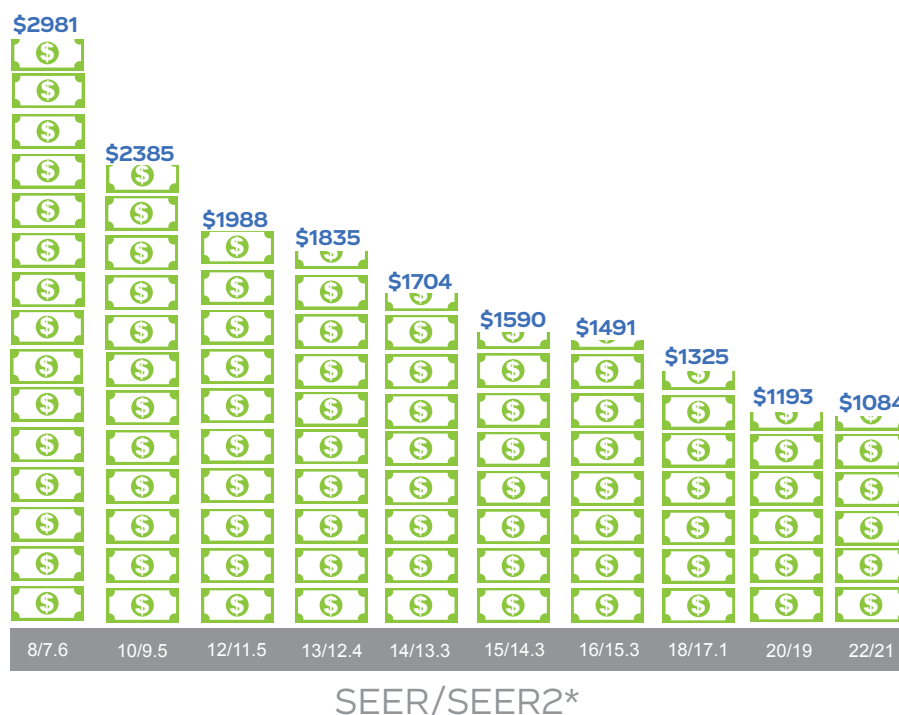
COOL AND HEAT YOUR HOME FOR LESS

Seasonal Energy Efficiency Ratio (SEER2) is the rate by which all air conditioning and heat pump energy efficiency is measured. In the world of cooling, the higher the SEER2, the better the efficiency and the lower your energy bills.

What is the difference between gas/electric & a heat pump system?

A gas/electric system uses electricity to cool your home and gas and electricity to heat it; whereas a heat pump uses only electricity to both heat and cool your home.

APPROXIMATE YEARLY OPERATING COSTS



*Conversion of SEER vs SEER2 Source: California Energy Commission

Current Air Conditioner Efficiency: Cooling based on 36,000 BTU/h at 1,500 hours annual operation with the National Average electric rate of \$.25/kWh. Seasonal Energy Efficiency Ratio (SEER2): The total cooling of a central unitary air conditioner or unitary heat pump in BTUs during its normal annual usage period for cooling divided by the total electric energy input in watt-hours during the same period. *Actual cost savings may vary depending on personal lifestyle, system settings, equipment maintenance, local climate, home construction, installation of equipment and duct system, hours of operation, and local utility rates.

New for 2023: SEER2 and HSPF2 are new ratings that reflect changes to national testing standards. Think of it like a highway vs city gas mileage. SEER2 and HSPF2 more closely reflect energy efficiency in real life applications, which is why the rating is slightly lower.

PLATINUM

X-Series 4 Ton Heat Pump System

Inverter Technology

Highly Energy Efficient

Increased Comfort Level

- Slim Style Design
- Uses Less Space Than a Traditional AC Unit
- Low Sound Level
- Goldfin Coil Coating for Extended Protection
- Peace of Mind Warranty

10-YEAR PARTS
WARRANTY

10-YEAR
COMPRESSOR

Electronic Air Cleaner 16x25 Merv 11

Media post-filter provides enhanced filtration on select models

Solid state power supply is self-regulating and maintains peak efficiency during a wide range of cell dirt loading conditions

Low-profile door with test button to check system operation

Helps filter efficiency-robbing "gunk" before it coats critical system parts

Very low pressure drop



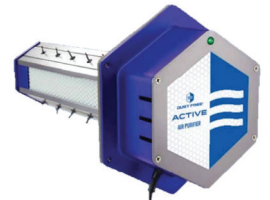
5-YEAR LIMITED
WARRANTY

Active Air Purifier 12" 24V

Innovative carbon fiber brushes increase ion production.

Effective against biological growth, bacteria, odors, VOC's, and more, in the air and on surfaces.

Auxiliary power port to power an additional 24V Germicidal UV-C light allowing to easily add an additional UV light to any HVAC system.



7-YEARS POWER
SUPPLY WARRANTY

2-YEAR LAMP
WARRANTY

Pro9000 Programmable Color Touchscreen WiFi Thermostat

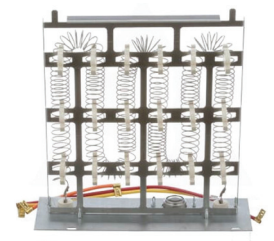
Displays indoor and outdoor temperature and humidity information right on-screen.

Your customers can easily monitor and manage home comfort from any device, anywhere with Honeywell's Total Connect Comfort app.



2-YEAR
WARRANTY

Heat Strip Kit



10 year warranty for air handlers when registered.

*Estimated operating cost based on 25¢ per kwhr at 1,500 hours.

Total investment: _____

Monthly investment: _____

X-Series 3 Ton Heat Pump System

Inverter Technology

Highly Energy Efficient

Increased Comfort Level

- Slim Style Design
- Uses Less Space Than a Traditional AC Unit
- Low Sound Level
- Goldfin Coil Coating for Extended Protection
- Peace of Mind Warranty

10-YEAR PARTS
WARRANTY

10-YEAR
COMPRESSOR

Carbon Media Air Cleaner MERV 13

Lowest pressure drop MERV 13 filter at 0.24" w.c.

Sized for air handlers and furnaces

Easy filter size identification

Quick filter media replacement

Painted steel cabinet

Positive seal gasket material included

Two-stage filter seal on cabinet door

Minimal air leakage design



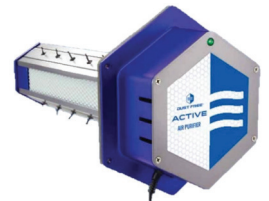
LIMITED LIFETIME
CABINET ONLY
WARRANTY

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SUPPLY WARRANTY

2-YEAR LAMP
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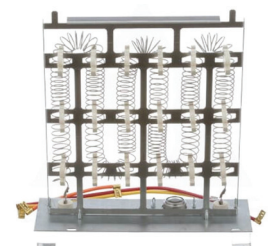
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Heat Strip Kit



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SILVER

M-Series Heat Pump Condenser 2 Ton 15.2 SEER2

Service valves with sweat connections and easy-access gauge ports.

Factory-installed high pressure switch and low pressure switch.

Internally protected against high temperature motor overload conditions.

High quality condenser with inner-groove copper tube and aluminum fin.

Multi-speed blower motor.

Multi-position installation - upflow or horizontal right standard; field convertible to horizontal left or downflow.

Integrated filter rack for 18" x 20" filter.

Replace piston to TXV easily.

10-YEAR
PARTS WARRANTY

10-YEAR
COMPRESSOR

Non-Carbon Media Air Cleaner MERV 13

Lowest pressure drop MERV 13 filter at 0.24" w.c.

Sized for air handlers and furnaces

Easy filter size identification

Quick filter media replacement

Painted steel cabinet

Positive seal gasket material included

Two-stage filter seal on cabinet door

Minimal air leakage design

LIMITED LIFETIME
CABINET ONLY
WARRANTY

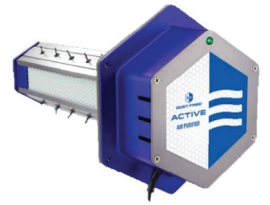


Active Air Purifier 12" 24V

Innovative carbon fiber brushes increase ion production.

Effective against biological growth, bacteria, odors, VOC's, and more, in the air and on surfaces.

Auxiliary power port to power an additional 24V Germicidal UV-C light allowing to easily add an additional UV light to any HVAC system.



7-YEARS POWER
SUPPLY WARRANTY

2-YEAR LAMP
WARRANTY

Programmable Thermostat

Up to 2 Heat / 1 Cool heat pump and 2 Heat / 2 Cool conventional

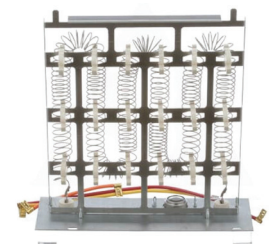
Large, clear backlit digital display

Selectable 7 day, 5-2, or non-programmable options.

5-YEAR LIMITED
WARRANTY



Heat Strip Kit



10 year warranty for air handlers when registered.

*Estimated operating cost based on 25¢ per kwhr at 1,500 hours.

Total investment: _____

Monthly investment: _____

BRONZE

M-Series Heat Pump Condenser 2.5 Ton 14 SEER2

Delivers significant energy savings with up to 14-15 SEER2 when paired with a matching variable-speed or constant torque furnace or air handler.

Entire unit is 100% factory run-tested to help deliver the highest possible level of reliability.

Permanently lubricated condenser fan motor needs no annual maintenance.

Heavy-duty, single-stage scroll compressor is built tough, for years of reliable, trouble-free performance.

Multi-speed blower motor.

Multi-position installation - upflow or horizontal right standard; field convertible to horizontal left or downflow.

Integrated filter rack for 16" x 20" filter.

Replace piston to TXV easily.

10-YEAR
PARTS WARRANTY

10-YEAR
COMPRESSOR



Non-Carbon Media Air Cleaner MERV 13

Lowest pressure drop MERV 13 filter at 0.24" w.c.

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CABINET ONLY
WARRANTY

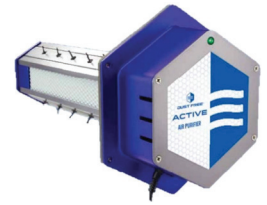


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Up to 2 Heat / 1 Cool heat pump and 2 Heat / 2 Cool conventional

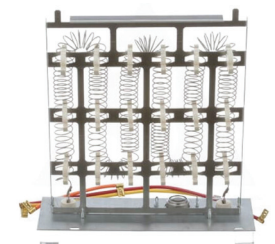
Large, clear backlit digital display

Selectable 7 day, 5-2, or non-programmable options.

5-YEAR LIMITED
WARRANTY



Heat Strip Kit



10 year warranty for air handlers when registered.

*Estimated operating cost based on 25¢ per kwhr at 1,500 hours.

** 1.5-3 ton system is Energy Star certified

Total investment: _____

Monthly investment: _____

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Due to our policy of continuous improvement, specifications are subject to change without notice. Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners must be matched with appropriate coil components to meet the ENERGY STAR criteria. Ask us for details or visit www.energystar.gov. Our gas efficiency AFUE ratings are certified by the Gas Appliance Manufacturers Association. Not approved for use in mobile home applications.