

## Heat Pumps

Single-Stage and  
Variable-Speed



CRAFTSMANSHIP THAT MEETS EXACTING ARMSTRONG AIR STANDARDS — AND THE EXPECTATIONS OF HVAC PROFESSIONALS.

# THE PROFESSIONAL'S CHOICE

 **ARMSTRONG**  
**AIR**  
The Professional's Choice



## A legacy of craftsmanship and commitment

**Since 1928**, our history has been built on the foundation of strong products and even stronger dedication to excellence. The Armstrong Air® full line of heat pumps is the perfect example of what happens when you set out to be the best. Quiet, energy efficient and made with pride by people who know quality, Armstrong Air units represent the premium choice of HVAC professionals throughout North America.

## Expert guidance every step of the way

Choosing the right HVAC professional is just as important as the heat pump you're buying. Going with an Armstrong Air Dealer means working with a true HVAC professional. You can be confident in their knowledge and expertise to help you make the right decisions on all your HVAC needs. They'll also help ensure your system operates at maximum performance for years to come.

# Creating the ideal environment.

At Armstrong Air®, creating the ideal system for you is our first priority. We recognize that buying a new heating and cooling system is a big decision. Having all the facts, and some professional advice, can help you select the system best suited for your home and your family's needs. When selecting a unit, it's important to remember that everyone's needs are different. What's most important to you and your family? Here are a few things to consider:



## Efficiency

It's pretty simple. A high-efficiency system helps lower your monthly utility bills. Efficiency is measured in SEER (Seasonal Energy Efficiency Ratio) during the summer and HSPF (Heating Seasonal Performance Factor) during the winter—the higher these numbers, the greater the efficiency. Replacing an older unit with a 14 SEER/8.2 HSPF or higher unit can increase performance and start saving you money immediately. New for 2023: SEER2 and HSPF2 are new ratings that reflect changes to national testing standards. Think of it like 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.



## Reliability

You can always count on your Armstrong Air unit. Technology developments such as MHT™ Technology and other advanced-design features work together to deliver premium performance and help extend the life of your heat pump.



## Air Quality

Where you live matters. Your family's sensitivity to a host of natural and man-made allergens means enhanced air quality is all the more critical in your home. And don't forget humidity levels when you're considering the ideal system for year-round comfort.



## Peace of Mind

More control over your comfort—that's our commitment to you. You can see it in our craftsmanship and technology—like our proprietary Comfort Sync® controls, used with our Pro Series™ models, which allow you to easily monitor your unit's performance and enjoy maximum comfort in your home.



## Noise Reduction

Comfort and performance also include quiet operation of your system. Enjoy reduced operating noise with select models featuring a high-quality sound blanket for noise reduction. Plus, Quiet Shift™ Technology reduces sound when transitioning to defrost mode.

## Heat Pump System Basics

The most common type of system pairs an exterior heat pump with an interior air handler, in tandem to circulate air throughout your home. Heat pumps can also be paired with a furnace, which is then called a dual-fuel system. Matching your heat pump with a compatible Armstrong Air® air handler or furnace will help generate optimum efficiency and ideal system performance.

### How compressor stages affect performance



**Single-stage** means heating and cooling are either all the way on or all the way off, creating temperature swings.

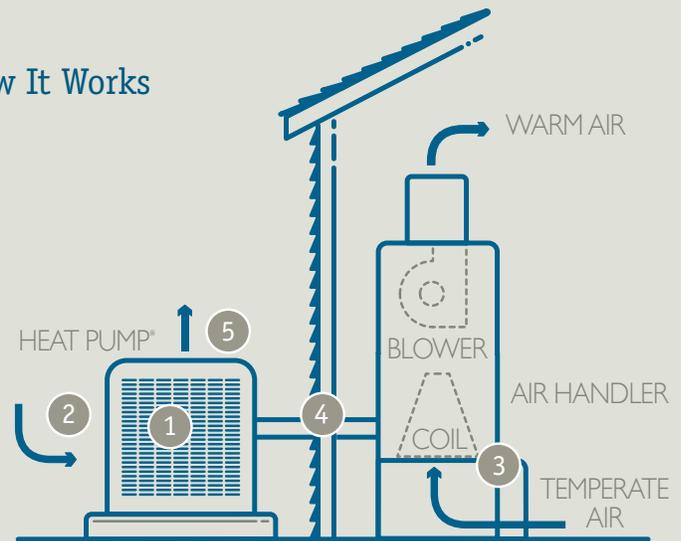


**Two-stage** runs at low or high operating speeds, depending on conditions, creating more even, consistent temperatures.



**Variable-speed** gradually ramps up and down to keep the temperature exactly where you want it, using even less power.

## How It Works

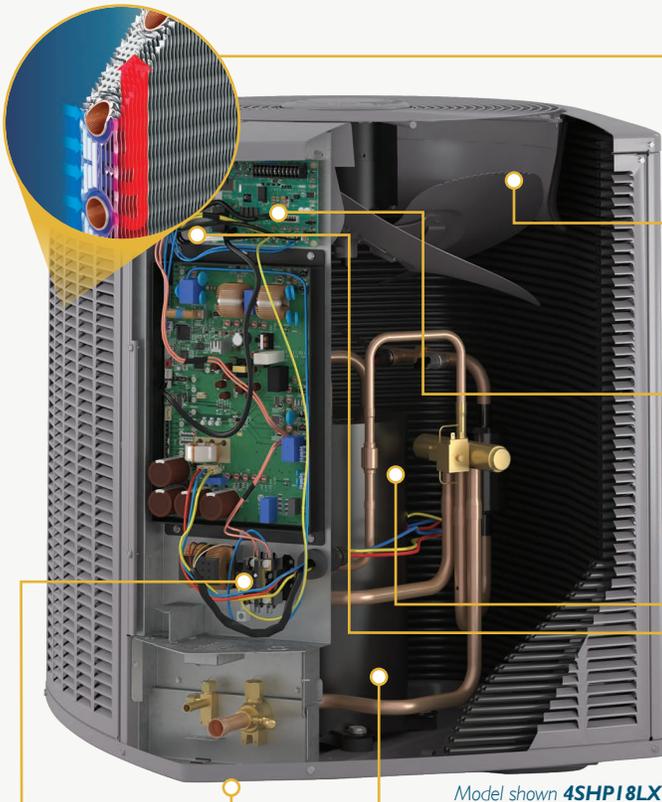


\* Armstrong Air air handlers also work with air conditioners in straight cool configurations.

1. The heat pump on the outside of your home circulates refrigerant that absorbs and releases heat as it travels between the heat pump and the air handler inside.
2. When it's cold outside, a heat pump extracts outside heat and transfers it inside.
3. The refrigerant flows through the air handler's evaporative coil and the blower moves air across the coil surface to warm air that's sent through your home's duct work.
4. The cold refrigerant is sent back to the heat pump outside so the process can repeat itself and continue to warm your home.
5. When it's warm outside, the heat pump reverses direction and acts like an air conditioner, removing heat from your home.

# Exceptional heating and cooling for a home that's just the way you want it.

Inside every Armstrong Air® heat pump, you'll find a high level of technology and craftsmanship, backed by a 10-Year Limited Warranty on the compressor\* and a 10-Year Limited Warranty on parts.\*



## MHT™ Technology

Armstrong Air's proprietary heat transfer system uses a specially designed fan shroud, rifled tubing and lanced coil fins for maximum heat transfer and efficiency.

## Noise Reduction

A swept-wing fan blade design reduces turbulence, while a heavy-duty compressor blanket helps to further reduce sound levels.

## Quiet Shift™ Technology

Allows heat pumps to enter defrost mode without excessive noise. Since refrigerant pressure is allowed to equalize before the switch, the heat pump can quietly dissipate performance-robbing frost and ice.

## Integrated Compressor Protection

High- and low-pressure switches protect the compressor, helping to ensure lasting performance.

## Comfort Sync® A3 Enabled

When you pair this model with the Comfort Sync® A3 Ultra-Smart Thermostat, you unlock total control over your home environment from anywhere. Your thermostat communicates with each component, making constant adjustments and sending maintenance reminders direct to your smart phone to ensure your entire system is always working in harmony for your ideal environment.

## Variable-Speed Compressor

Rather than running at one or even two speeds, the inverter-driven compressor changes its speed in small, precise increments like a dimmer switch to provide longer, gentler run cycles. That means temperatures are held exactly where you want them.

## Clean-Sweep Defrost

Starts the defrost cycle at the bottom of the coil to ensure all ice and frost build up is removed effectively and helps prevent ice dams at the bottom of the unit.

## Sealed Contactor with Lugs

The sealed contactor protects the unit from debris and insects while the lug provides a secure and reliable way to connect high voltage wires.

## Dual-Fuel

The combination of a gas furnace and an electric heat pump pairs two energy sources that can adjust to mild or severe outdoor conditions. It's the perfect balance of energy efficiency and comfort.

Model shown 4SHPI8LX

\* Product registration required. Warranty applies to residential applications only. For terms, conditions and exclusions, see full warranty at [armstrongair.com](http://armstrongair.com).

# Pro Series™ heat pumps offer ultimate control with up to twice the efficiency of older units.



## Make the Most of Your Heat Pump

The Comfort Sync® A3 Ultra-Smart Thermostat unlocks the full potential of your Armstrong Air® Pro Series™ system. Working together, they deliver enhanced comfort control, optimum system performance and maximum energy efficiency. Using the Comfort Sync® app,\*\* the thermostat can be controlled from anywhere, at any time. The Comfort Sync® A3 also works with Alexa\*\*\* and Google† Assistant, and can be controlled using voice commands.

\*\* App requires Wi-Fi or cellular data service.

\*\*\* Comfort Sync® A3 is compatible with Armstrong Air HVAC products and requires separate purchase of Amazon Echo or Echo Dot. As of the date of this publication, Amazon Echo devices are not available for purchase in all countries. This reference is intended for use with U.S.-based thermostats only. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

† Google is a trademark of Google LLC.



## 4SHP22LX

### Total comfort with maximum control

Unlock the highest degree of control over your indoor environment with the Pro Series 4SHP22LX heat pump. It features smart thermostat compatibility, targeted temperature control and up to 22 SEER (20.9 SEER2) and 10.5 HSPF (9.5 HSPF2) efficiency for fine-tuned comfort across your home. Rather than running at only one or two speeds, this unit adapts its speeds in small increments. This means lower noise levels, enhanced dehumidification for stable temperatures as well as significant energy savings. Pair it with the Comfort Sync® A3 Ultra-Smart Thermostat that makes constant adjustments to ensure your entire system is working in harmony for your ideal environment.

**Up to 22 SEER (20.9 SEER2) and 10.5 HSPF (9.5 HSPF2) Efficiency Ratings\***

**More than 36% Greater Energy Efficiency\*\***

**ENERGY STAR® Most Efficient**

Longer, Gentler Run Cycles, Consistent Comfort and Reduced Temperature Swings

Comfort Sync® A3 Smart Thermostat Compatible

More Than 50% Lower Sound Levels\*\*\*

Omniguard® Total Corrosion Protection Technology

MHT™ Technology

Integrated Compressor Protection

Compressor Sound Blanket

Sealed Contactor with Lugs

Demand Defrost

True Variable-Speed Compressor

Dual-Fuel Compatible

Quiet Shift™ Technology

Swept-Wing Fan Blades

\* May qualify for local utility rebates

\*\* Compared to a 14 SEER single-stage heat pump



## 4SHP18LX

### Powerful combination of comfort and efficiency

For those seeking a powerful heat pump with the ideal balance of home comfort and energy efficiency, the 4SHP18LX delivers. Instead of simply on-or-off, the up to 20 SEER (19 SEER2) and 10 HSPF (8.5 HSPF2) inverter-driven compressor operates at variable speeds. That means quieter noise levels, consistent temperatures and enhanced dehumidification, all backed by purposeful engineering to keep your unit running at peak performance.

**Up to 20 SEER (19 SEER2) and 10 HSPF (8.5 HSPF2) Efficiency Ratings\***

**More than 22% Greater Energy Efficiency\*\***

**Longer, Gentler Run Cycles, Consistent Comfort and Reduced Temperature Swings**

**Comfort Sync® A3 Smart Thermostat Compatible**

**True Variable-Speed Compressor**

**More Than 50% Lower Sound Levels\*\*\***

**Swept-Wing Fan Blades**

ENERGY STAR® Rated

Omniguard® Total Corrosion Protection Technology

MHT™ Technology

Integrated Compressor Protection

Compressor Sound Blanket

Sealed Contactor with Lugs

Demand Defrost

Dual-Fuel Compatible

Quiet Shift™ Technology

\* May qualify for local utility rebates

\*\* Compared to a 14 SEER single-stage heat pump

# Whether it's warm or cool, you'll be comfortable with these reliable heat pumps.



## 4SHPI7LE

### Essential performance with enhanced efficiency

The 4SHPI7LE heat pump is designed with essential features you need for efficient performance and reliable comfort. With its single-stage scroll compressor, up to 17 SEER (16.2 SEER2) and 8.8 HSPF (7.5 HSPF2) efficiency rating, integrated compressor sound blanket and Omniguard® Corrosion Protection Technology, the 4SHPI7LE is purposefully engineered to deliver quieter noise levels, long-lasting operation and lower overall operating costs season after season.



## 4DHP2

### Energy efficient comfort anywhere you need it

Take advantage of the latest technology for your home. This highly efficient mini-split heat pump offers single-zone and multi-zone options. Plus, with incredibly quiet noise levels, efficiency ratings up to 25.5 SEER (25.5 SEER2) and 13.2 HSPF (11.9 HSPF2) and high-end inverter technology at an accessible price, the 4DHP2 can help save money on your energy bills while delivering consistent comfort across your home.



## 4DHV2

### Highly efficient operation in a small footprint

For an ideal balance of higher efficiency, quiet operation and a great price point, the 4DHV2 delivers. With incredibly quiet noise levels and efficiency ratings up to 20 SEER (21.5 SEER2) and 10 HSPF (9.4 HSPF2), this ductless mini-split heat pump system offers more energy savings than traditional ducted systems, all in a small footprint that makes it perfect for small lot lines, room add-ons, historic homes and so much more.

Up to 17 SEER (16.2 SEER2) and 8.8 HSPF (7.5 HSPF2) Efficiency Ratings*	
ENERGY STAR® Most Efficient	
Omniguard® Total Corrosion Protection Technology	
Integrated Compressor Protection	
Compressor Sound Blanket	
Single-Stage Compressor	
Sealed Contactor with Lugs	
Demand Defrost	
MHT™ Technology	
Dual-Fuel Compatible	
Quiet Shift™ Technology	

\* May qualify for local utility rebates

Up to 25.5 SEER (25.5 SEER2) and 13.2 HSPF (11.9 HSPF2) Efficiency Ratings	
Multi-Zone and Single-Zone	
ENERGY STAR® Most Efficient	
Ductless Air Handler Matches	
Low Sound Levels	
Variable-Speed Compressor	
Demand Defrost	

Up to 20 SEER (21.5 SEER2) and 10 HSPF (9.4 HSPF2) Efficiency Ratings	
Single-Zone	
Ductless Air Handler Matches	
ENERGY STAR® Rated	
Low Sound Levels	
Variable-Speed Compressor	
Demand Defrost	



Models	4SHP22LX	4SHP18LX	4SHP17LE	4DHP2	4DHV2
Ideal Usage	Delivers maximum control and precise temperatures	Enhances performance and control over temperature and humidity	Meets today's standards in a proven design	Energy efficient comfort for ducted and ductless installations	Single-zone heating and cooling in a small footprint
Features	4SHP22LX	4SHP18LX	4SHP17LE	4DHP2	4DHV2
SEER (SEER2), HSPF (HSPF2)	Up to 22 SEER (20.9 SEER2), 11 HSPF (9.5 HSPF2)	Up to 20 SEER (19 SEER2), 10 HSPF (8.5 HSPF2)	Up to 17 SEER (16 SEER2), 9.5 HSPF (8.5 HSPF2)	Up to 25.5 SEER (25.5 SEER2), 13.2 HSPF (11.9 HSPF2)	Up to 20 SEER (21.5 SEER2), 10 HSPF (9.4 HSPF2)
ENERGY STAR® Certified	●	●	●	●	●
ENERGY STAR® Most Efficient	●			●	
Dual-Fuel	●	●	●		
Sealed Contactor with Lugs	●	●	●		●
MHT™ Technology	●	●	●		
Omniguard® Total Corrosion Protection Technology	●	●	●		
Integrated Compressor Protection	●	●	●	●	●
True Variable-Speed Compressor	●	●			
Variable-Speed Compressor				●	●
Scroll Compressor Single-Stage			●		
Quiet Shift™ Technology	●	●	●		
Compressor Sound Blanket	●	●	●		
Comfort Sync® Enabled	●	●			
Comfort Sync® Zoning	●	●			
Swept-Wing Fan Blade for Noise Reduction	●	●			
10-Year Warranty†	●	●	●	Up to 12-Year Warranty	Up to 7-Year Warranty

\* Check with your local utilities to confirm eligibility. Rebates and incentives for efficiency vary by locality and utility. Allied does not make any representation, warranty, guarantee, or other assurance as to whether each model qualifies or is eligible for rebates in your local area.

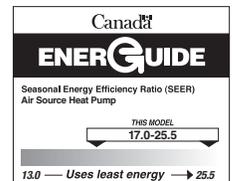
† Warranty applies to residential applications only. For terms, conditions and exclusions, see full warranty at [armstrongair.com](http://armstrongair.com).



Due to our policy of continuous improvement, specifications are subject to change without notice.

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Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit [www.energystar.gov](http://www.energystar.gov).