



# The Right Compressor for the Right Job

## Outfitting Your Family for Comfort.

At Coleman,<sup>®</sup> we're committed to providing you with optimum comfort — *and the best performance value, too.* That's why we utilize three different compressor technologies. That way we can match the right compressor for the best performance and efficiency. Unfortunately, some companies pick one compressor technology and build all of their single-speed units around it, creating design inefficiencies that can affect system performance and operating cost. Not so with Coleman.<sup>®</sup>

## Coleman's<sup>®</sup> Comfort Technologies.

Coleman<sup>®</sup> offers engineering excellence in three types of compressors for our residential units:<sup>\*</sup>

**Twin-Single**—Allows your system to operate at two capacities, creating even temperatures all the time.

**Scroll**—Utilizes free floating spiral plates that rotate to compress the refrigerant.

**Reciprocating**—This solid, reliable, and economical piston-type compressor works well in harsh conditions.

*\*Read more about each type on the back of this sheet.*

## The Right Compressor for Your Comfort.

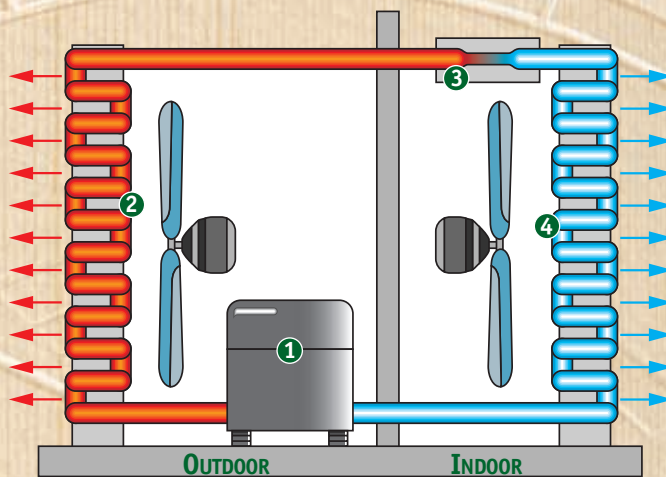
Having the right kind of compressor in your system impacts your home comfort system in many ways:

### Reliability

Everyone will enjoy years of comfort with a dependable system. We design each unit with the right compressor to extend the life of your whole system, greatly reduce wear on system components, and lower maintenance costs.

### Efficiency

Energy costs are at the top of the list when purchasing a home comfort system. We design each unit with the right compressor to create more productive heating and cooling



## WHAT DOES A COMPRESSOR DO?

Here's what kind of work a compressor does within a typical heating, ventilation and air conditioning (HVAC) system:

- 1 The compressor compresses cool Freon gas, causing it to become hot, high-pressure Freon gas (red, in the diagram above).
- 2 The hot gas runs through a set of condensing coils, where it dissipates heat, and then condenses into a liquid.
- 3 This liquid then runs through an expansion valve and evaporates, becoming cold, low-pressure Freon gas (light blue, in the diagram above).
- 4 The cold gas runs through the coils, allowing the gas to absorb heat and cool down the air inside.

cycles for your environment, use less energy to provide better comfort, and reduce energy costs.

### Comfort

Air quality and noise are concerns for homeowners. The right compressor provides whisper-quiet performance inside and outside your home, better humidity control, and even temperatures, minimizing hot and cold spots.



# Outfit Your Home for Indoor Comfort

WITH COLEMAN® COMFORT TECHNOLOGIES.

## Twin-Single Compressor Technology

A typical central air conditioner runs at one speed—“full blast”—when cycled on. Which means the indoor temperatures fluctuate far above and below the temperature you’ve set—and the comfort level you want. Coleman’s® innovative Twin-Single technology has two cooling stages: one to handle the hottest days and one to handle the more common non-peak cooling times. The compressor switches to high capacity for very hot weather, but runs at a lower capacity as much as 85 percent of the time during average demand periods.

This means you get:

- Even temperatures with 60 percent fewer start/stop cycles.
- Better air circulation and humidity control.
- Sixty-five percent less energy required to run at low capacities.



## Scroll Compressor Technology

Nearly a century old, the scroll compressor is a time-tested technology. Fewer parts—only two—make up the heart of the scroll compressor, so the motion is smooth and even. And the parts are resistant to liquid and debris corruption, unlike other compressors. With its simple, practical design, the scroll compressor will:

- Reduce wear on the system.
- Operate quietly because of limited motion.
- Decrease maintenance costs.
- Typically provide higher efficiencies for larger tonnage applications.



## It's a Team Effort.

Coleman® is committed to making sure you receive the best home comfort system for your needs. Unlike other manufacturers that use the same compressor in every unit, Coleman® always chooses the appropriate compressor to maximize the performance of your air conditioning or heat pump system. And you'll always know that with Coleman®, your family's comfort comes first.

## Bringing the Great Outdoors, Indoors.

Remember, you don't need to be an expert on air conditioning system components. You just need to ask the expert—your Coleman® Dealer—to help you make the right choice for your home, your lifestyle, and your budget. So choose Coleman® when you want to enjoy the indoors in comfort.

## Reciprocating Compressor Technology

Reciprocating compressors use a piston to compress refrigerants, much the way the piston in your car's engine works. Because of its proven history, this compressor will have stood the test of time in millions of homes before it gets to yours. Reciprocating compressors:

- Are extremely rugged, economical, and dependable.
- Work well in harsh conditions—even up to temperatures of 150 degrees!
- Typically provide higher efficiencies for smaller tonnage applications.

