

**COMING SOON:
A NEW V-COIL WITH POWER-V™ TECHNOLOGY:***
RE-SHAPING THE FUTURE OF INDOOR COMFORT



* Vertical application coil for use with air conditioners only.

POWER-V[™]
TECHNOLOGY

THE DAY & NIGHT DIFFERENCE

Day & night® products are designed to deliver the best in quality, energy efficiency and reliability, and each is 100% run tested. We take pride in surpassing customer expectations by delivering dependable and innovative heating and cooling products. That's why in January 2022 the Heil V-Coil with Power-V™ Technology will be re-shaping the future of indoor comfort.

Our commitment to continued excellence comes from within, but is also motivated by:

- Meeting the needs of our distributors and dealers who sell, install and maintain our products
- Satisfying homeowners who depend upon our products for comfort within their homes
- Offering products that meet an ever-changing list of regulatory requirements

Why Do We Need a New Coil Design?

Our current coil technology has served us well for decades. As we look for measured improvements in the energy efficiency and performance of our cooling systems, continuing with the current coil design offers a number of challenges:

- Achieving higher efficiency would require a significant physical expansion of our indoor coil
- The resulting bigger coil would lead to increased pressure drop from the same airflow velocity
- Retrofitting a bigger coil to a current system would require extensive retrofitting and modifications to existing ductwork
- Reducing pressure through the coil will be vital to maintaining SEER ratings due to an increase in the DOE's external static pressure testing requirements

THE DAY & NIGHT V-COIL WITH POWER-V TECHNOLOGY, THE SHAPE OF ENHANCED HVAC PERFORMANCE

Our new V-coil design offers increased equipment efficiency, reduced weight of equipment, and lower system end-cost.



Our new coil is constructed of flat, aluminum refrigerant channels brazed to ridged aluminum fins and configured in a “V” shape with the header tubes positioned at top. The resulting coil geometry provides improved heat transfer, more even and controlled airflow over the coil, improved system efficiency* and a lighter, corrosion-resistant coil.

* With optimized outdoor unit under new M1 test procedures.

HOW DOES THIS MEET YOUR NEEDS?

The V-coil answers all of the previously outlined design concerns while providing additional benefits of improved installation flexibility.

- The “V” configuration and microchannel-style coil design reduce coil resistance and enhance heat transfer. Combined, these design changes allow for the same or better SEER ratings without growing the size of the coil.
- Our new V-coil achieves targeted SEER ratings while avoiding the increased pressure drop and larger coil size, we would have seen using current, 3/8” coil technology.
- The new V-coil maintains current coil footprints while adding condensate drain options on both left and right sides for easy and flexible coil replacement/installation.
- Our V-coil minimizes pressure through the system through less drain pan interference, thus allowing us to maintain SEER ratings at new DOE required static pressures.

Addressing Leakage, the #1 Issue with Cooling Coils

The new V-coil design is constructed with flat, parallel aluminum tubes brazed to aluminum fins. It eliminates all but one aluminum-to-copper braze joint and eliminates the need for brazed-on jumper tubes.

The V-shaped design also relocates tube-to-header joints to the top of the coil. In an “A” configuration, these joints would be sitting in the condensate, making them more susceptible to corrosion. Moving these joints to the top of the V-coil and out of the condensate improves the life of the coil.

Enhanced Condensate Management

Condensate on the V-coil flows against the refrigerant dry-out side of the coil. Water is channeled away from the superheated region of the coil, eliminating the occurrence of condensate blow-off. The ‘V’ orientation also reduces the amount of inside cabinet surface exposed to conditioned air, presenting less potential for sweating.



EASY, FLEXIBLE INSTALLATION AND SERVICE

Upgrading to a new V-coil with Power-V™ Technology will be just as easy as replacing one of our current coils, with additional condensate drain connection options for added flexibility.

Here's what stays the same:

- Footprint of coil
- 3/8” liquid inlet
- Current lineset connections
- Set TXV
- System charging
- Packaging

Here's what's different:

- Condensate drain options on both sides of the coil
- At least 30% less weight
- No uncased coil options

What about service?

The V-shape provides open access for service because delta plates included on traditional coils are no longer needed, making it easier to inspect and clean.

LOOKING AHEAD

Looking ahead, we are planning for another exceptional year with our outstanding network of distributors and dealers. As history has shown, part of the process includes integrating new products into our portfolio without disrupting our reputation as an industry leader for comfort, energy efficiency, quality and reliability.

Our new V-coils certainly fit the mold. Benefits of adopting this new coil technology include:

- Continuing to deliver high-efficiency cooling products
- Keeping indoor and outdoor unit footprints the same
- Maintaining current standards for installation and service potentially making installation faster and less intrusive for homeowners
- Reducing the number of SKUs in our cooling coil product family



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