



50+ years of leading edge HVAC/R testing and certification



HVAC/R is evolving fast. We're faster.

All of the world's foremost HVAC/R manufacturers, and the leading industry associations, partner with Intertek for their testing and certification needs. Why? We simply have the most experience, expertise and capacity. We can do more, do it faster, and do it globally.

For over 50 years we've helped shape the future of HVAC/R. Our experts continuously participate on technical panels and standards writing committees, which provides us and our clients unique insights into the future of the industry. From energy efficiency to smart appliances to multi-split technologies, we understand this fast moving market and what will keep you at the forefront. Whatever the future holds, we'll get you there first.

Manufacturers partner with Intertek because we're:

- » Global. Our worldwide network of labs allows us to quickly, safely and efficiently meet all of your testing needs. Our family of recognized global certification marks enable you to launch products in every market you desire.
- » Responsive. Every moment counts. That's why we return calls within hours, not days. Plus, you get direct access to the engineering team working on your product.
- » Experts. Our team has significant industry experience and specific HVAC/R product testing expertise. Their knowledge of global regulatory requirements is unrivaled anywhere in the industry.
- » Fast. Our network of laboratories and experience at product testing has provided decades of operational efficiency. We can get your product into the lab faster, complete the overall project faster, and help you get to market... *faster*.
- » Integrated. We can handle all of your product testing and certification needs, including safety, performance (manufacturer specific or standards-based), EMC, quality and much more—all from a single source. You can streamline your internal processes with one timeline, one point of contact, and one invoice.



Key industry associations such as AHRI and AHAM rely on Intertek's expertise to conduct their product testing programs.

Your one-stop, global powerhouse.

Depend on Intertek for all your testing and certification needs. We're the industry leader with a global presence, expertise and certification marks. We understand that expansion is key to sustained growth, so we're the one laboratory partner to call to get your products into any market in the world.



Product safety testing. In North America, Intertek is an OSHA recognized NRTL (Nationally Recognized Testing Laboratory) and accredited by the Standards Council of Canada as a Testing Organization and Certification Body. We test to ANSI, UL, CSA, ASTM and other applicable standards. We're also a National Certification Body and can test to additional standards around the world to help you comply with standards across the EU, Asia, Africa, the Middle East and South America.

Performance testing. Rely on our performance testing knowledge and expertise to gain a competitive edge in the marketplace. We test to national and international requirements (ASHRAE, AHRI, ISO and AHAM) and are proficient in a wide range of criteria, including energy consumption, product durability and reliability, acoustics and air flow, among others.

The data we collect is invaluable for ensuring product quality, verifying product performance, complementing in-house data and investigating competitive products. Intertek also offers prequalification testing, helping you anticipate and address any potential noncompliance issues before you join a certification program.

Intertek has well-established relationships with a number of key organizations in the HVAC/R industry, including the Air-Conditioning, Heating and Refrigeration Institute (AHRI), the Association of Home Appliance Manufacturers (AHAM), the U.S. Department of Energy and the Environmental Protection Agency who oversee Energy Star®, the California Energy Commission, and National Resources Canada (NRCAN). These valuable relationships allow us to lend expertise to emerging standards and to remain at the forefront of changing requirements.

Materials compatibility testing. We understand how your product fits into the bigger system, and we believe that materials compatibility testing is a critical first step in any product development program. We analyze the compatibility of your materials – including refrigerants and lubricants with metals, seals, elastomers, gaskets, additives, motor materials, desiccants and related process fluids – and

report on the chemical stability of your product. This will help you avoid system failures and limit warranty claims.

Whether you manufacture HVAC/R systems or their components, testing for chemical compatibility will help you determine – and document – the reliability of your product. As part of our efforts, we measure the chemical effect the materials will have on a system during its lifespan. Throughout the process, our experts are always available to offer guidance, explain test results, and suggest corrective actions.

Electromagnetic Compatibility (EMC) testing. Global markets require electronic, electromagnetic and electromechanical products to undergo EMC testing to determine whether they generate (or are susceptible to) electronic emissions that can impact the normal operation of other devices. We have the expertise and specialized facilities to perform EMC testing and documentation according to global requirements. As HVAC/R products evolve, emerging technologies are making EMC testing a critical element of the overall development process.

Product design review. Intertek is more than a testing provider. We're your testing partner. We'll work with you throughout the process – from the earliest stages of your product development until your product launches – and you can trust us to deliver results. We're responsive and flexible, meeting your individual needs and deadlines. Depend on us for an efficient, cost-effective product development cycle, allowing you to launch faster, expand globally and increase your bottom line.

Component verification testing. As supply chains extend to all parts of the world, and new requirements dictate certain materials be used or not used, manufacturers are in greater need of testing their products' components to ensure the performance will still meet regulatory standards or performance specifications. Intertek can help you identify which components offer the greatest performance or highest value, and which ones could potentially add risk to your designs.

Additional services include:

- » Energy Efficiency Testing
- » Acoustical Testing
- » Refrigerant / Lubricant Analysis
- » Building and Design Services
- » Field Labeling
- » GSA Schedule Services
- » UL 900 Testing



Our respected certification marks help thousands of products meet countless international requirements.

A solid past. A vision for the future.

In today's quickly-evolving business climate, you need a partner that has the solid experience and forward-thinking methodology to stay ahead of the curve. Intertek is that partner. We've been a leader in HVAC/R testing for decades. This experience, combined with our visionary approach to our clients' testing and certification programs, allows us to stay at the forefront of industry trends.

The industry's first lab capable of testing multi-split systems.

We're the first laboratory to open a multi-split HVAC test facility, including four chambers capable of testing these advanced systems (single condenser and up to 8 evaporators.) This pioneering facility is uniquely constructed to provide testing and certification to emerging requirements.

We also recognize that technology convergence is playing a significant role in next-generation HVAC/R systems. Customer demand is moving manufacturers to design more smart appliances. Intertek relies on its depth of expertise in HVAC/R, IT, Energy Efficiency, EMC and other products and technologies to provide our clients with design support, testing and certification solutions for even the most complex integrated systems.

Testing a world of products.

Intertek excels at testing a wide range of products, from refrigerants and bakery coolers to supermarket chillers and building ventilation systems. We're the biggest and the best, handling products – and projects – of all sizes:

- » Air to air energy recovery units
- » Chillers, rooftop units, residential air conditioners and heat pumps
- » Room air conditioners and portable air conditioners
- » Furnaces and boilers
- » Cooling and heating coils
- » Condensers
- » Evaporators
- » Fan coil units
- » VRF and multi-split systems
- » PTAC's and PTHP's
- » Refrigerated display cases, commercial refrigerators and freezers
- » Humidifiers and dehumidifiers
- » Air cleaners
- » Water heaters
- » Pool heat pumps
- » Oil, refrigerants and other chemicals

Leverage our brains and our brawn.

As the world's leading test and certification company, Intertek has the intelligence and the strength that you need. And we constantly adapt and update our services to further accommodate our clients' testing, inspection, and certification needs.

Research & development services.

We help you work smarter from the beginning. We'll evaluate your designs through early testing, support your component verification needs, and help you ensure compliance as you integrate mechanical designs with more advanced electronics-based technology. Working with Intertek early in the product development cycle can help you build a stronger foundation for your products, more seamlessly integrate them within larger or more complex systems, and secure the proper certifications to successfully launch them around the world.

The capacity to do more.

If you need additional lab capacity to support your own R&D testing, look no further. Intertek offers multiple psychrometric testing chambers in a variety of convenient locations. We can make our equipment available for private testing so that your project can stay on schedule.

Our network of full-service HVAC/R laboratories allows manufacturers to quickly scale their operations up or down as needed. And our immense capacity means that you'll experience shorter waits, expert assistance, more service options and faster product development.



A more acceptable data acceptance program.

SATELLITE™ is the most cost-effective solution for manufacturers with their own testing facilities. Our proprietary tools help you easily manage projects, and our 10-day certification turnaround helps you deliver products to global markets faster.



Our global certification marks are respected and accepted everywhere – from supermarkets to superdomes.



Wherever you do business. We're there.

Intertek is nearby to provide all the testing, certifications, and inspections you need. To start a project, contact us at one of our regional offices below, or visit us online at: www.intertek.com/hvac.

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