

## Daikin Presents a “Simple. Powerful. Sustainable.” Approach to Decarbonization at 2024 AHR Expo

*As a global HVAC solutions leader, Daikin will exhibit innovative solutions that can help home and building owners reduce energy use and carbon emissions*

**CHICAGO, Jan. 22, 2024** – Daikin Comfort Technologies North America, Inc. (Daikin Comfort Technologies) and Daikin Applied Americas, Inc. (Daikin Applied) (collectively, Daikin), subsidiaries of Daikin Industries, Ltd., a leading global air-conditioning company, will highlight its commitment to advancing the HVAC industry’s transition to a sustainable future at the 2024 AHR Expo, Jan. 22-24 in Chicago. As a longstanding AHR Expo exhibitor, Daikin will display a wide range of heating and cooling solutions from across its portfolio, with a focus on decarbonizing homes and buildings that can help reduce utility and operating costs.

“Daikin has been at the forefront of HVAC solutions for decades,” said Philip Johnston, General Manager, Environmental Business Development Center at Daikin Applied. “As industry demands evolve based on emerging climate-related HVAC challenges, Daikin has the talent, technology and services to deliver unique, tailored solutions to customers who want to decarbonize.”

At AHR Expo, Daikin will showcase its “Simple. Powerful. Sustainable.” approach to decarbonization that revolves around the core technologies — **low-global warming potential (GWP) refrigerants, inverter compressors and heat pumps** — developed to create more comfortable, efficient and sustainable spaces to live and work. Offerings featured at the expo will include:

### **Simple: R-32 Refrigerant**

Daikin continues to push the boundaries of performance and efficiency with careful curation of refrigerant technology in its products. Focused on the “right refrigerant for the right application,” Daikin is integrating low-GWP refrigerants that can reduce the climate impact of heating and cooling homes and buildings. In particular, the company has committed to [R-32 refrigerant](#) in applications that previously used R-410A, which is being phased out due to state and federal regulations. R-32, a single-component refrigerant, has two-thirds less GWP than R-410A, with more than 230 million R-32 HVAC units installed in over 130 countries.

In December 2021, Daikin launched the first split system with R-32 in North America, [Daikin ATMOSPHERA](#), a single zone ductless system that can reduce carbon emissions by up to 80% compared to similar R-410A systems and has efficiencies up to 27.4 SEER2 and 11.2 HSPF2. Daikin is currently reengineering its residential ducted and ductless products to take advantage of the benefits of R-32 refrigerant and the company plans to relaunch products by the end of 2024.

For commercial and industrial applications, Daikin recently introduced the [Trailblazer® AGZ-F](#), one of the first R-32 air-cooled scroll chillers available in North America. With R-32, Trailblazer AGZ-F delivers up to 10% greater capacity and efficiency versus previous models. It also has a 33% reduced footprint and 10% reduced weight than previous models, requiring less raw material to build.

More information and product photos are available [here](#).

### **Powerful: Inverter Compressors**

[Inverter compressors](#) are foundational to energy-efficient heating and cooling. With inverter technology, Daikin HVAC systems optimize energy use and eliminate wasted operation by precisely controlling the motor speed within a unit's compressor. Inverter-based systems offer additional benefits including quiet operation and consistent temperature and comfort control.

The award-winning [Rebel Applied™](#) packaged rooftop system, for example, is available with inverter scroll compressors. By continually adjusting to the building load, Rebel Applied consumes less energy at part load to deliver an Integrated Energy Efficiency Rating (IEER) as high as 20, more than 40 percent above the ASHRAE 90.1 Energy Standard for Buildings.

The controls technology managing the equipment is as important as the compressor. Some popular residential HVAC controls provide connectivity features for homeowners but do not maximize the benefits of inverter technology. Daikin has launched a suite of Daikin *ONE* products and services that not only provide the IoT features users want, but also monitor and control systems for optimal performance. For instance, [Daikin One Cloud Services](#) for residential customers is available with the [Daikin ONE+ smart thermostat](#) or the new [Daikin ONE touch thermostat](#). A recently announced new feature for certain inverter systems, [Quality Install](#), is a cloud-connected installation commissioning tool that helps technicians verify installations for optimal performance of the system.

More information and product photos are available [here](#).

### **Sustainable: Heat Pumps**

As the industry advances electrified equipment, residential and commercial heat pumps deliver electricity-powered heating and cooling, reducing the need to use standard combustion methods to control indoor temperatures. Daikin offers an extensive lineup of inverter heat pump systems, providing immense flexibility for all applications.

Daikin's [VRV LIFE](#) heat pump systems provide ultimate design flexibility in homes with up to nine zones connected to a single outdoor unit. Several ductless and ducted indoor models, including ducted gas furnaces for dual fuel operation, provide high heat pump capacities well below 0°F (-18°C).

Daikin's [Trailblazer® HP](#) is an air-to-water heat pump chiller with a reversing function that allows the product to switch between cooling and heating based on temperature requirements. With advanced heat pump technology, the chiller is up to 300 percent efficient, which means it can transfer three times more heat than the energy used by the equipment. Also for commercial applications, [VRV EMERION](#) provides either heat pump or heat recovery inverter technology. The heat recovery system offers simultaneous heating and cooling to both indoor ducted and ductless units, and can be scaled to capacities of up to 40 tons with up to 64 indoor units connected to a single system.

More information and product photos are available [here](#).

AHR Expo attendees can find Daikin and meet with product experts in booth S7560 to learn about the entire portfolio of residential, commercial and industrial HVAC solutions. Visit the [Daikin Comfort Technologies AHR Expo website](#) for more details on select residential and light-commercial products.

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### **About Daikin Industries, Ltd.**

Daikin Industries, Ltd. (DIL), a worldwide leader in providing indoor comfort solutions, is a Forbes 1,000 global company with more than 96,000 employees. Daikin Comfort Technologies North America, Inc. and Daikin Applied Americas, Inc. are subsidiaries of DIL. Daikin is engaged primarily in the development, manufacture, sales and aftermarket support of heating, ventilation, air conditioning and refrigeration (HVACR) equipment, refrigerants and other chemicals, as well as oil hydraulic products. Daikin was named one of the world's most innovative companies by Forbes magazine. For more information on Daikin in North America, visit [www.northamerica-daikin.com](http://www.northamerica-daikin.com).

### **Additional Information**

Before purchasing an appliance, read important information about its estimated annual energy consumption, yearly operating cost or energy efficiency rating that is available from the retailer.

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