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News Release

New Daikin *ALTHERMA* 3 H HT High-Temp, Air-to-Water Heat Pump

A versatile boiler and furnace replacement capable of delivering efficient heating, cooling and optional domestic hot water, even in cold climates

WALLER, Texas, April 24, 2026– Flexibly designed for a wide array of applications, the newly launched Daikin *ALTHERMA* 3 H HT high-temperature, air-to-water heat pump system from **Daikin Comfort Technologies North America, Inc. (Daikin)** is capable of delivering energy-efficient heating, cooling and optional domestic hot water with a space-saving, future-focused esthetic.

The Daikin *ALTHERMA* 3 H HT provides a distinctively versatile, 3-in-1 “plumb-and-play” solution, that can provide heating, cooling and optional hot water – even in low-ambient temperatures. Its exceptional adaptability makes it an excellent choice for replacing fossil fuel equipment like boilers, furnaces, and gas domestic hot water (optional).

Advanced engineering and modern style are the signatures of this innovative high-temperature air-to-water heat pump.

A first-of-its-kind compressor developed by Japan’s Daikin Technology and Innovation Center and Daikin Europe can deliver high-leaving water temperatures as high as 158°F (70°C).

It utilizes low Global Warming Potential R-32 refrigerant that releases fewer CO₂ emissions than R-410A.

One Solution, Multiple Possibilities

“With its versatility, quiet operation, space-saving design and modern esthetic, Daikin *ALTHERMA* 3 H HT combines form and function to solve indoor comfort challenges effectively in both retrofit and new construction, especially in areas with low ambient temperatures,” explains Edwin Reek, Director Water Heating Solutions for Daikin.

Flexible system combinations can allow for easy integration for boiler, gas furnace and optional gas domestic hot water replacement. Once the Daikin *ALTHERMA* 3 H HT outdoor unit is connected to the indoor unit (hydro box), the system can connect to emitters already in the home, like baseboards or radiators, integrate with Daikin’s heat pump convectors, or pair with hydronic air handlers and in-floor radiant loops.

Engineered for extreme climate applications, the Daikin *ALTHERMA* 3 H HT can operate down to -18°F (-28°C) while still delivering space heating and optional domestic hot water. It can provide cooling even when outdoor temperatures reach 109°F (43°C).



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Operating as quietly as a low-library murmur, down to 41 dBA, the Daikin *ALTHERMA* 3 H HT is engineered for tranquility. A LOW sound mode setting silences sound pressures further, as low as 35 dBA.

“The outdoor unit innovatively incorporates an advanced, hidden fan, shaped to minimize the air contact surface, helping to maintain a low sound level,” Reek explains. “To absorb and insulate the sounds made during compressor operation, three layers of insulation surround the compressor, while double sound reduction plates are used between the bottom plate and vibration plate.”

While most high-capacity HVAC units tend to operate with two fans, Daikin *ALTHERMA* 3 H HT outdoor units need only one. A large-sized fan helps air circulation as well as helping achieve low operational noise.

Though quiet and compact, Daikin *ALTHERMA* 3 H HT heat pumps deliver strong energy efficiencies by leveraging Daikin’s proven inverter technology and R-32’s thermodynamic properties. Inverter-driven compressors and fan motors – plus advanced micro-processor controls – are designed to deliver constant comfort and high-efficiency performance.

“Replacing fossil fuel boilers and furnaces with an advanced, modern hydronic heat pump like the Daikin *ALTHERMA* 3 H HT contributes to sustainability,” says Reek.

Air-to-Water Difference: Heating, Cooling, & Optional Hot Water

Homeowners are becoming more familiar with heat pump systems to heat and cool their homes, using outside air along with the heat pump refrigeration system to create warm or cold air for their homes. Commonly understood hydronic boiler systems heat water by burning fossil fuel (natural gas, propane or oil) and use that water to warm a home through base boards, radiators, or underfloor heating and capable of providing domestic hot water, too.

Unlike boiler systems that burn fossil fuels, Daikin *ALTHERMA* 3 H HT is an all-electric air-to-water heat pump that can provide home heating and optional domestic hot water without burning fossil fuels directly by the system and can also provide cooling! Daikin *ALTHERMA* 3 H HT air-to-water heat pumps extract heat energy from the outside air and transfer it to water for space heating and optional domestic hot water. However, *ALTHERMA* 3 H HT’s air-to-water heat pump technology can also reverse its cycle to chill water to cool a home. The chilled water circulates through fan coil units, gently lowering the indoor temperature for consistent, comfortable cooling. This gives the Daikin *ALTHERMA* 3 H HT flexibility to deliver sustainable indoor heating and cooling comfort in both ducted and ductless homes.

Its striking, modern casing sprung from a collaboration between Daikin engineers and designers. “They brought a breath of fresh air to the traditional outdoor unit,” Reek explains. “Inspired by the excellent design of Daikin indoor units, the Daikin *ALTHERMA* 3 H HT outdoor unit features an attractive, grey front plate and clean lines that blend into surroundings easily.”



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Ultimately, says Reek, the Daikin *ALTHERMA* 3 H HT high-temperature, air-to-water, electric heat pump leverages innovation and style into an efficient, sustainable indoor comfort solution, supporting the transition away from fossil fuel-based systems toward all-electric systems.

To learn more, [watch the Daikin *ALTHERMA* 3 H HT video](#).

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About Daikin

Daikin Industries, Ltd. (DIL) is a Fortune 1,000 company with more than 100,000 employees worldwide and a leading indoor comfort solutions provider. Daikin Comfort Technologies North America, Inc. (DNA) is a subsidiary of DIL, providing Daikin, Goodman, Amana® and Quietflex brand products. DNA and its affiliates manufacture heating and cooling systems for residential, commercial and industrial use that are sold via independent HVAC contractors. DNA engineering and manufacturing is headquartered at [Daikin Texas Technology Park](#) near Houston, TX. For additional information, visit www.daikincomfort.com.

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Additional Information:

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

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