

Aiming to Identify Slow Refrigerant Leaks into the Atmosphere, Daikin Launches *Charge Integrity*

Identifying non-catastrophic loss of refrigerant charge can improve HVAC efficiencies and sustainability

WALLER, Texas, October 17, 2023 – As government, manufacturers and contractors address the environmental impact of hydrofluorocarbons (HFCs), there's another issue, often lurking unnoticed, potentially raising both electric bills and greenhouse gas emissions: slow refrigerant leaks that may arise in HVAC units.

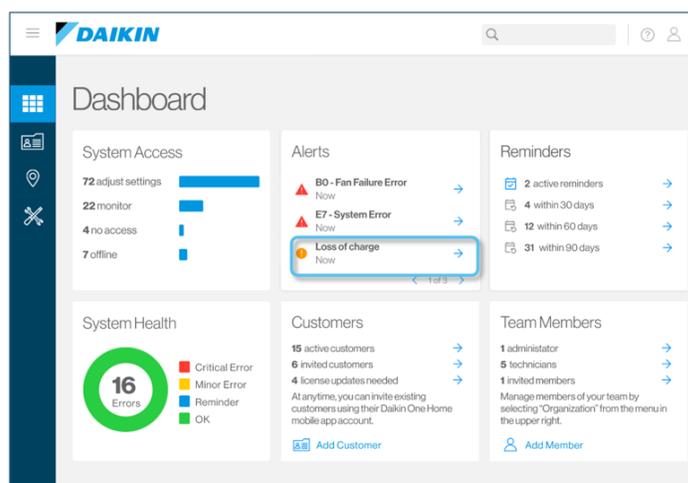
Often ignored until it becomes an expensive problem, non-catastrophic refrigerant leaks add up over a system's lifetime. Slow leaks can diminish system performance, increasing homeowner costs to achieve satisfactory indoor comfort. Plus, refrigerant leaks from an R-410A system have a high global warming potential (GWP), according to the Environmental Protection Agency.

But Daikin Comfort Technologies North America, Inc. (Daikin) aims to help mitigate those leaks by launching *Charge Integrity*, a new feature designed for its cloud-based services that alerts HVAC contractors if refrigerant charge levels drop below optimal thresholds.

"Loss of refrigerant into the atmosphere from HVAC systems impacts performance, efficiency and operational cost, while contributing to greenhouse gas emissions," explains Jim Cahill, IoT Solutions Business Leader for Daikin. "Traditionally, these loss-of-charge events often go unidentified until a homeowner complains about ineffective cooling or spiking electric bills."

By identifying slow refrigerant leaks, *Charge Integrity* enables Daikin *Comfort Pro* contractors to potentially address issues before they become severe. The powerful feature, now part of Daikin *One* cloud services, uses smart sensing to identify a non-catastrophic loss of refrigerant charge on many Daikin systems connected to the Daikin cloud, explains Cahill.

Daikin *Comfort Pros* will now receive alerts, via email and/or push notification, if the refrigerant level in select Daikin unitary inverter systems connected to Daikin *One* cloud services drops below the *Charge Integrity* alerting threshold. Alerts also provide possible causes, along with corrective actions contractors can take.





News Release

Contact: Marc Bellanger - Director of Marketing & Communications - 713.263.5505 DaikinMedia@DaikinComfort.com

“The American Innovation and Manufacturing (AIM) Act calls on manufacturers to reduce the environmental impact of HFCs,” says Lee Smith, Vice President – Strategic Marketing & Environmental Technology Solutions for Daikin. “We are leveraging Daikin *One* cloud services to help contractors address what is an under-the-radar, but solvable issue.”

Daikin *Charge Integrity* is the latest example of the brand’s resolve to pioneer sustainability initiatives by rethinking typical heating and cooling systems and service – resulting in solutions such as Daikin *ATMOSPHERA*, the first low-GWP R-32 single-zone ductless system in North America, and Daikin *FIT*, a groundbreaking solution that enables a traditional ducted system to pair with a compact, high-efficiency, side discharge inverter heat pump and connected to the Daikin *One* ecosystem. To learn more, visit www.daikinone.com.

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About Daikin

Daikin Industries, Ltd. (DIL) is a Fortune 1,000 company with more than 96,000 employees worldwide and is the world’s #1 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 and are sold via independent HVAC contractors. DNA engineering and manufacturing is located at [Daikin Texas Technology Park](#) near Houston, TX. For additional information, visit www.northamerica-daikin.com.

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