

High Efficiency, Better Impact: Bosch Launches IDS Family Heat Pumps with Low-GWP R-454B Refrigerant

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The Inverter Ducted Split (IDS) heat pump line offers maximum comfort, minimal energy use and a gentler environmental impact due to A2L refrigerant R-454B.

WATERTOWN, MASS. -- Bosch Home Comfort, a leading source of high-quality heating, cooling and hot water systems, announces the market launch of its [Inverter Ducted Split \(IDS\) Family \(R-454B Version\)](#) heat pump product line. Equipped with R-454B refrigerant, the newest IDS Family products meet the criteria for a lower global warming potential (low-GWP) A2L refrigerant.

“Our inverter heat pumps are known for providing quicker, quieter, steadier and more efficient heating and cooling – and with the introduction of the low-GWP R-454B refrigerant, consumers can add a reduced carbon footprint to this list of benefits,” said Shiyu Liu, Senior Product Manager. “This launch is the latest testament to Bosch’s commitment to leading the charge on preparing for the industry-wide shift to A2L refrigerants. We’re proud to be among pioneers advancing the industry in this direction towards a cleaner energy future, spearheading initiatives in contractor education, training, enhanced product lines and more.”

This refrigerant upgrade comes amid the Environmental Protection Agency (EPA)-mandated phasedown of hydrofluorocarbon (HFC) refrigerants – like the R-410A refrigerant– due to their greater greenhouse gas emissions. As of January 1, 2025, all new residential and light commercial HVAC units must be manufactured with low GWP A2L refrigerants, such as R-454B.

Modulating inverter systems provide customers supremely efficient comfort by adjusting compressor capacity – smoothly ramping up production and using only the energy needed to achieve the desired temperature, resulting in reduced energy consumption and less stress on the system’s life cycle.

The IDS Family R-454B product line is comprised of the following systems:

- **IDS Light**, a premium inverter technology solution for warmer climates. This 15 SEER2 system delivers the steady energy use and minimal noise expected of an IDS system at an unbeatable price point.
- **IDS Plus**, an 18-SEER2 system that provides inverter-powered home comfort without breaking the bank. This system combines Bosch's BOVB18 outdoor unit with its BVA20 two stage x13 ECM style air handler to balance efficiency, comfort and affordability.
- **IDS Premium Connected**, a 20-SEER2 system that maximizes home comfort while minimizing energy usage. Like its predecessor, the IDS Premium Connected R454B version can be used with the Bosch EasyAir app to enable in-app product registration, simplify installation and troubleshooting, remotely monitor energy usage, and send critical alerts.
- **IDS Ultra**, the first Bosch air-to-air heat pump designed to provide reliable, energy efficient heating even in sub-zero temperatures. This cold climate heat pump can provide 100% heating down to an outdoor temperature of 5° F at 2.1 COP and will continue to initiate heating even down to -13° F. The IDS Ultra is available up to 5-ton capacities and meets the U.S. Department of Energy's Cold Climate Challenge.
- **BGH96 Gas Furnace**, now compatible with the R-454B IDS Family products/systems, delivers 96% Annual Fuel Utilization Efficiency (AFUE) and is operational with low-global warming potential refrigerants. The BGH96 is a dual fuel system, bringing the ideal solution for comfort and efficiency across seasonal weather changes.
- **Cased Coils**, which are air source heat pump and geothermal accessories from Bosch. The latest Bosch Cased Coil and Uncased Coil units (BMAC) are compatible with A2L refrigerant R-454B IDS solutions and continue to deliver unmatched performance and efficiency levels.
- **R-454B Air Handler Units**, which are available for each system type: the BIVA15, BIWA16, and BICA16 for IDS Light; the BIVA20 for IDS Plus and IDS Premium Connected; and the BIVA IDS Ultra air handler.

Bosch's IDS Family heat pumps featuring the low-GWP R-454B refrigerant are available for purchase now. For more information on the IDS Family and other Bosch Home Comfort solutions, please visit <https://www.bosch-homecomfort.com/us/en/ocs/residential/inverter-ducted-split-ids-heat-pump-1098929-c/>

Press photos and infocharts are available on the Bosch Media Service at us.bosch-press.com.

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About Bosch Home Comfort

Bosch Home Comfort is a leading source of high-quality heating, cooling and hot water systems. The Company offers Bosch tankless, point-of-use and electric water heaters, Bosch and Buderus floor-standing and wall-hung boilers, Bosch and FHP water-source, geothermal and air-source heat pump systems, as well as controls and accessories for every product line. Bosch Home Comfort is committed to reinventing energy efficiency by offering smart products that work together as integrated systems that enhance quality of life in an ultra-efficient and environmentally friendly manner.

Bosch strives to bring the most energy-efficient and environmentally responsible products to global consumers. In delivering the best products at affordable prices to our markets, Bosch has established multiple collaborations and joint ventures on a global scale to bring the latest technologies to North America. All global manufacturing facilities must adhere to stringent quality standards in order to provide the trusted Bosch brand.

For more information, visit www.bosch-homecomfort.us

About Bosch

Having established a presence in North America in 1906, today the Bosch Group employs 42,000 associates in more than 100 locations in the North American region (as of Dec. 31, 2023). Bosch generated consolidated sales of \$16.5 billion in the U.S., Mexico and Canada in 2023. For more information visit www.bosch.us, www.bosch.mx and www.bosch.ca.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 429,000 associates worldwide (as of December 31, 2023). The company generated sales of \$99 billion in 2023. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 470 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 90,000 associates in research and development, of which nearly 48,000 are software engineers.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861–1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The remaining shares are held by Robert Bosch GmbH and by a corporation owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com.

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