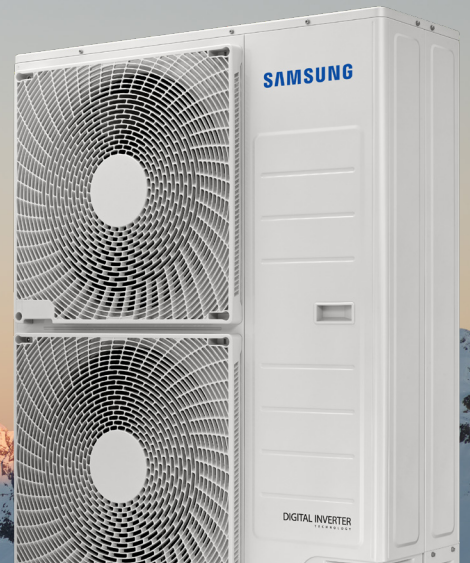


SAMSUNG

Efficiency that reaches new heights.

Delivering maximum efficiency and cost-effective heating and cooling solutions to a single-family home.



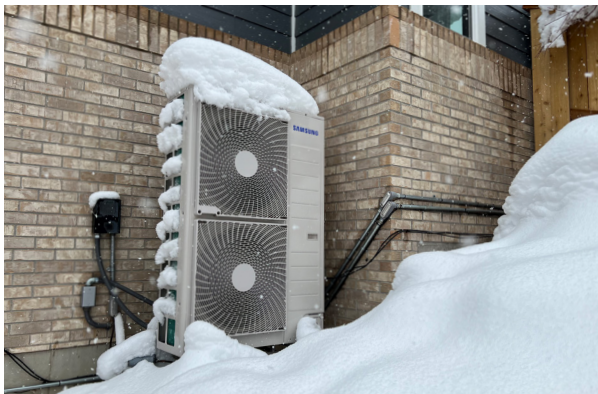
Case Study: Hylex™ | Project: Denver Metro Residence | Product: 5-Ton Hylex™ | Location: Parker, Colorado

Background

Located at 6,000 ft. elevation in Parker, CO, the owners of a two-story property built in 1991 were looking to replace a 13 SEER Amana central A/C, a less-efficient cooling-only system.

Challenge

When considering a replacement for their existing system, it was important to maximize the home's use of solar energy from their panels.



Solution

Installing the Hylex™ electric variable speed heat pump system configured for dual-fuel functionality not only met homeowner heating and cooling needs but also boosted savings as the system is enabled to switch between electric heat and gas heat based on cost-effectiveness. Incorporating electric heating helped the owners leverage the excess solar generation from the summer, making it a smart choice for electrification and optimizing their solar energy utilization.

Homeowners experienced significant benefits from the Hylex™ system, demonstrating its efficiency despite varying utility rates:

- Year-over-Year Savings: \$429, representing a 20% reduction in utility costs.
- Energy Consumption Reduction: Total energy use decreased by 25%.
- CO₂ Emissions Decrease: Carbon emissions reduced by 18%.

These results indicate that the efficiency of Hylex™ effectively offsets the lower cost of gas.*

With Hylex™, performance and peace of mind go hand in hand. In addition to reduced noise that allows increased enjoyment of outdoor entertainment spaces, these homeowners utilized electric heat pump heat at -15°F (-26°C) with no issues!

Elevate your standard of living – and efficiency – with Hylex™.

To learn more about Samsung Hylex™, visit [SamsungHVAC.com](https://www.samsunghvac.com).

Products Installed

- 5-Ton Hylex™ heat pump outdoor unit
- Goodman A-coil
- Amana 2-stage 80% furnace with EC motor
- Ecobee thermostat (no other supplemental heat sources)

* All calculations were made using the EPA's Greenhouse Gas Equivalencies Calculator.