

PERFORMANCE UNDER PRESSURE

Homeowners are becoming more familiar with performance construction concepts and how processes and decision-making impact comfort, health, efficiency and durability. They expect their building team to be knowledgeable as well — customer satisfaction now offers far less room for error.

Quality, high-performance homes come with higher upfront costs. Homeowners want assurance that they'll get what they're paying for and most desire, be it long-term energy savings, impeccable IAQ, superior comfort or all of the above.



This increased homeowner knowledge also means more awareness of potential whole-home issues, but they may not know how specifying the right mechanical systems can help mitigate these risks. For example, specifying a ductless HVAC system reduces risk of air leaks or blockages in ductwork, which in turn prevents chances of imbalanced air pressurization throughout the home. In situations like this, an HVAC contractor's expertise is invaluable to the building process.

Incorporating experienced professionals into the team can help builders more effectively and efficiently achieve homebuyers' goals and qualify for [ENERGY STAR®](#), net-zero or [Passive House](#) certifications. The [Mitsubishi Electric Performance Construction Team](#) specializes in HVAC, but brings a unique, comprehensive knowledge of building science, best practices and how building components impact efficiency and other goals. The team is a valuable resource for builders looking for added expertise and informed homeowners with high expectations.



For example, the [Schmeltzer family](#) from Weaverville, North Carolina recently worked with a Performance Construction Team member in developing their 1,750-square-foot, net-zero home. The project team specified energy-efficient mechanical systems and building materials, resulting in an all-electric home with zero dependence on fossil fuels. A combination of [Hyper-Heating INVERTER® \(H2i®\)](#) Mitsubishi Electric units complemented by a third-party dehumidifier and an energy recovery ventilator brought the home above [30 SEER](#).

Ultimately, the high-performance Schmeltzer home was a successful collaboration between the family, the builder and the project team. Designing the home as a [whole system with interdependent parts](#) — including energy-efficient heat pumps and a tight thermal envelope — has provided superior comfort and net-zero energy consumption for the Schmeltzer family.

WALL-MOUNTED INDOOR UNITS

[Mitsubishi Electric Wall-Mounted Indoor Units](#) appeal to homeowners and builders with results: energy efficiency, air filtration, control capabilities and personalized comfort. The units offer precise, automated temperature control for ideal occupant comfort in each zone, and are available in sleek, stylish designs.



BENEFITS

- Continuous air filtration to improve IAQ using washable, multi-stage, anti-allergen and deodorization filters
- Zoned comfort for the unique heating and cooling needs of different areas within a home
- Low impact installation and simplified maintenance
- Designer Series units available in glossy black, matte silver and glossy white complement interior designs

TESTIMONIAL

"The wall-mounted unit is beautiful. It's 50% more efficient than the next best thing. Why wouldn't I want it? In addition, they're pretty sleek looking."

- *Sally Schmeltzer, High-Performance Homeowner* | Project: Schmeltzer Residence

WEBINARS

FineHomebuilding

HYBRID HVAC APPLICATIONS FOR HIGH-PERFORMANCE HOMES

This presentation discusses how to apply split-ductless and ducted HVAC systems to achieve comfort, health and energy efficiency in homes of any size.

FineHomebuilding

HEAT PUMPS AND COLD-CLIMATE PERFORMANCE

Scheduled to debut in November 2019, this live webinar will discuss how to achieve superior comfort and energy efficiency with heat pumps in cold climates. Registration details will be available soon!