EFFICIENCY, QUALITY AND PREFABRICATED HOMES

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Even as the U.S. housing market has bounced back from the 2007 crash, its labor force hasn't seen the same reverberation and remains reduced. The industry is now prompted to consider alternatives to the traditional building process to meet reinvigorated homebuyer demand. One solution: prefabricated homes.

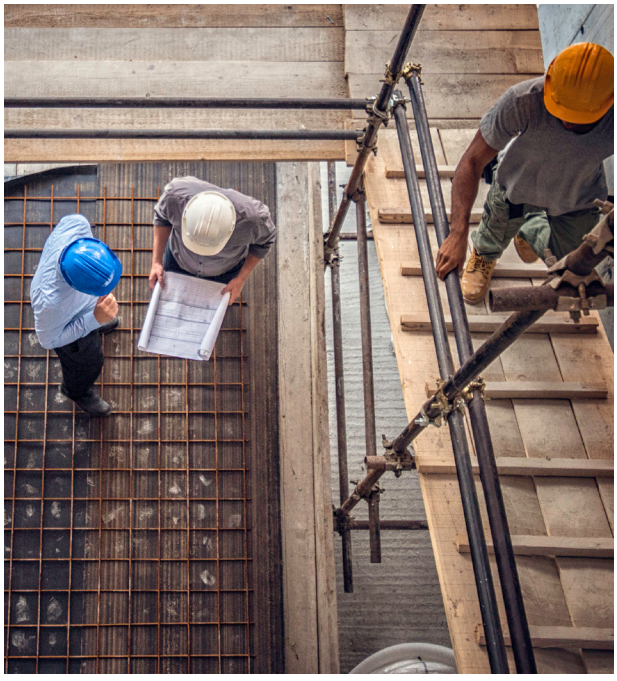
"Prefab" homes have been around since the 1960s, but demand took off after the housing market collapse. These assembly-line-produced homes require fewer laborers, but can be built more efficiently and increase the quality of the home.

Mitsubishi Electric Cooling & Heating Zoned Comfort Solutions® fit well within the processes that produce modular, panelized and pre-cut homes. Compact split-ductless equipment does not require ductwork and in some modular applications can be partly installed on the factory floor before the home is permanently assembled. This can further reduce the time and cost of installation, in addition to providing energy-efficient conditioning for prefabricated residences.

Our ductless models, such as the MLZ One-Way and SLZ-KF Four-Way Ceiling Cassettes, or classic Wall-Mounted Indoor Units, are all great options with their compact sizing and aesthetically-pleasing design flexibility.

The systems also come in variety of capacities, helpful for contractors building these smaller-scale homes within controlled environments, where it's crucial to have the right-size equipment available to keep production on schedule. Building in a controlled environment also limits contamination and delays due to weather, making production schedules more reliable. Tighter control of processes helps builders limit waste and produce homes that exceed code in terms of energy-efficiency and performance. Prefabricated homes can have air-tight envelopes and incorporate recycled materials, solar panels and high-performance mechanical systems to help homeowners save money on utility bills as they enjoy comfortable, high-quality homes.

When it comes to home building, factory-made isn't a bad thing. Prefab homes, with energy-efficient features and tightly-controlled manufacturing processes, can offer significant cost-savings for homebuyers.



MLZ ONE-WAY CEILING CASSETTE: COMBINING COMFORT AND STYLE

There's not much room for compromise: today's HVAC systems need to be highly efficient and unobtrusive to satisfy modern aesthetics. The MLZ One-Way Ceiling Cassette does just that. A standout in efficient operation and installation, the sleek, narrow-body design fits between standard 16-inch joist spacing, allowing contractors to easily create zones for their customers' usage needs. The result is energy savings for existing homes and new construction. Visit mitsubishicomfort.com to learn more.

FEATURES

- ENERGY STAR® certified
- Available in 9,000, 12,000 and 18,000 BTU/H capacities
- COP up to 4.25; HSPF of up to 11.4; SEER rating of up to 20.0
- Easy-to-clean, washable filters allow for enhanced indoor air quality
- Includes a 19-inch condensate lift mechanism for installation savings
- No access panel needed for installation and maintenance

MLZ-KPNA

GOOD HAUS

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CHALLENGE

Conditioning a compartmentalized, multi-level home as efficiently as possible to achieve zero-net energy

SOLUTION

Mitsubishi Electric Zoned Comfort Solutions®

RESULT

A zero-net energy home conditioned by an energy-efficient, split-ductless system

PROJECT DETAILS

- Located in Nevada City, California
- Husband and wife team wanted to design/build their own high-performance home
- Homeowners were looking to achieve substantial energy savings, seeking net zero energy

"Building our own house was an opportunity to find the balance and harmony between the 3 intersecting areas of our work: the handmade house, modern architectural forms and a commitment to high-performance building standards."

— Mela Breen, Atmosphere Design Build