



US CASE STUDY #23

June 4, 2007

Lake Weatherford, Texas Heather's Home – VRV®-S

Heather's Home, recognized by the U.S. Green Building Council (USGBC) with a Platinum rating in the LEED for Homes pilot program (one of only three certified Platinum level LEED homes in the nation), is a 2,000 square foot house designed to showcase a near-zero energy home that is also affordable. Recently honored with the Department of Energy, National Association of Home Builders (NAHB) Research Center & National Renewable Energy Lab's 2007 Gold - EnergyValue Housing Award, Heather's Home features the Daikin VRV®-S air-conditioning system.

According to Heather's Home builder Don Ferrier, the NAHB 2007 Green Building Conference "Builder Advocate of the Year", choosing Daikin AC as the HVAC provider was the right thing to do. "Daikin's air source heat pump, in my opinion, is the most energy efficient air source heat pump available at a competitive price. We expect to see 40 percent more efficiency than we would using a standard 13 SEER." Heather's Home is projected to land within the top one-percent in efficiency of Energy Star-rated homes. Monthly heating and cooling bills are estimated at \$20-\$30 – an incredible saving for North Texas.

Heather's Home uses the Daikin VRV-S system which enables up to eight separate fan coils to run off of one condensing unit containing an inverter "variable speed" compressor. The home uses one RXYMQ36MVJU condensing unit connecting two FXSQ18MVJU ducted (concealed) ceiling fan coil units. Working in two zones, each zone has its own programmable thermostat allowing individual temperature set points downstairs and upstairs. Ferrier also compliments Daikin's additional product benefits: "Our homes are extremely air tight. We are very conscious and concerned about moisture. The Daikin product gives us extra features we don't have with other units such as built-in de-humidification." Ferrier adds that Daikin's products also helped Heather's Home with structural flexibility: "We were able to put both Daikin fan coils in one space that would have housed only one conventional unit in the past."

According to Ferrier, Daikin AC is poised to assist builders and architects with the "paradigm shift" that is green building: "For six years, McGraw Hill – on behalf of the NAHB – has studied green building. They have said that the most green thing builders could do was make the home more energy efficient. And recently, McGraw Hill said that Green Building is moving ten times faster than they ever imagined." Ferrier adds, "The timing for Daikin to enter this market with its products' extreme energy efficiency, versatility and they're impact on lower energy costs is phenomenal. The market is poised for this kind of change and they've come along at a very opportune time."

- written by Christina Trondsen, Daikin AC (Americas), Inc.







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Product Profile

	Qty / Outdoor Model	Qty / Indoor Model
Daikin Equipment	1 / RXYMQ36MVJU	2 / FXSQ18MVJU