



BlueRidge
Company™

RADIANT HEAT SYSTEMS

Case Study

Arizona Custom Home

2-Zone Radiant System with LP Combi Boiler

- ▶ New Custom Home
- ▶ Slab-on-Grade Construction
- ▶ Self-Installed Radiant System

- PEX tubing tied to wire mesh above 2" R10 foam insulation
- RHT SS High Flow Stainless Steel manifolds, 9-port & 4-port
- High-efficiency AUFE 95% LP Combi Boiler
- RHT Prefabricated 2-Pump Column Pump Panel
- Tekmar 519 Thermostats with slab sensors

“Choosing BlueRidge Company was absolutely the right call—for both the product and the people behind it.”

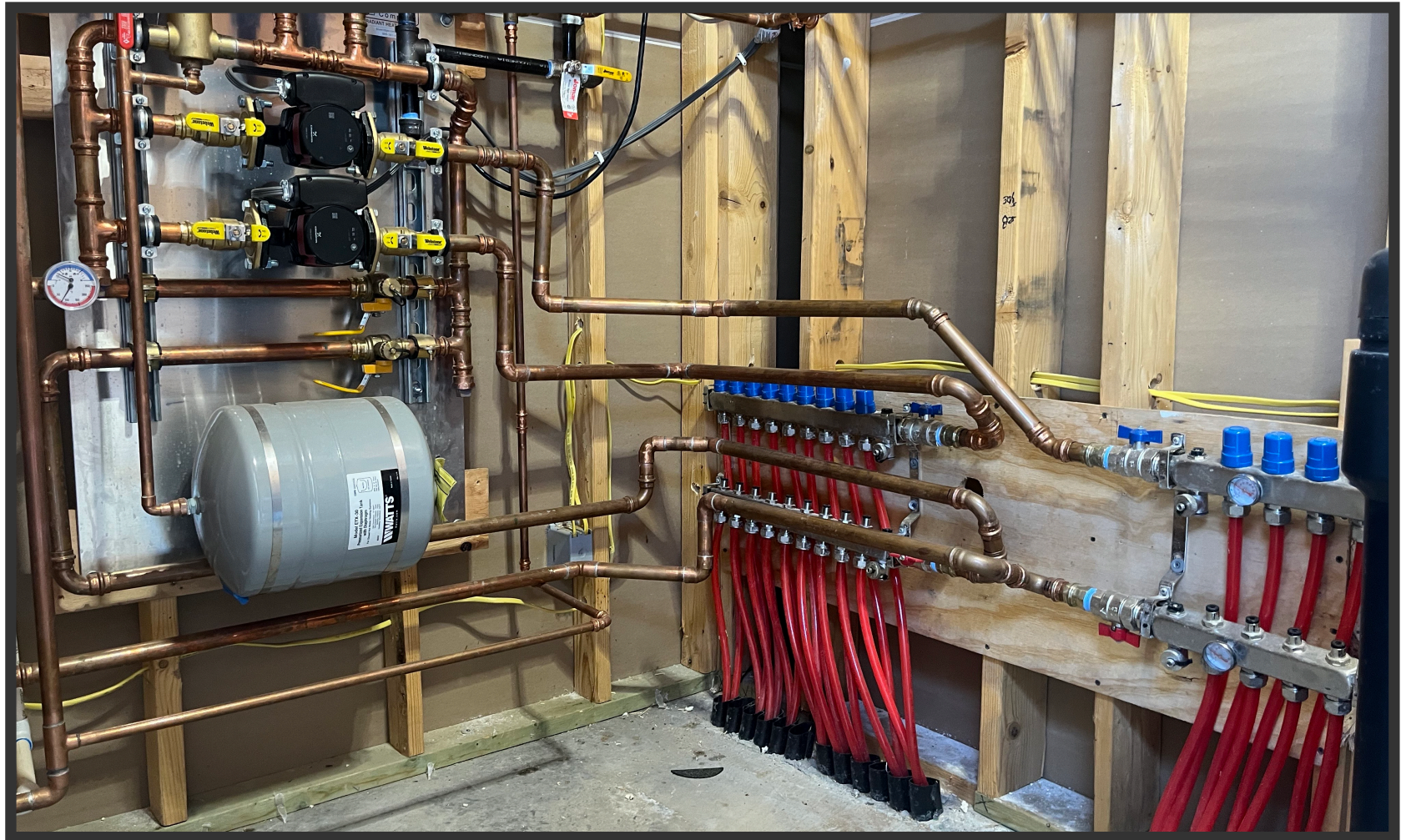


As a general contractor with over 40 years in the construction industry, Kevin has been around countless forced-air systems—but when it came time to design and build his own home in Prescott, Arizona, he knew he wanted something better. He was the builder and did the lion's share of the work himself. Kevin and his wife Kristin carefully chose every material and finish to reflect our vision. Living in a climate with all four seasons, including snow and freezing temperatures, consistent and efficient heating was a top priority.

“I had only seen radiant heat once before—in the basement floors of a client's home in Boise, Idaho—but that impression stuck with me. I was intrigued by how evenly it heated the space and how comfortable it felt.”

When they started designing their 2,705 sq.ft. home at 4,800 ft. elevation, they decided to explore radiant heating seriously. After doing a lot of research, Kevin and Kristin came across BlueRidge Company through a Google search.

“From the very first conversation, they stood out. They took the time to



Kevin W.'s new home construction in Prescott Valley, AZ, elevation 4800'. Built 2023 with a radiant system designed and fabricated by BlueRidge Company. 2-Zones, propane combi boiler and standard thermostats.

understand our goals and walked me through the process without any pressure. What really impressed me was that they provided all the necessary heat loss calculations for our permitting requirements—before I had even committed to purchasing the system. That told me they were confident in their product and committed to helping me get it right.”

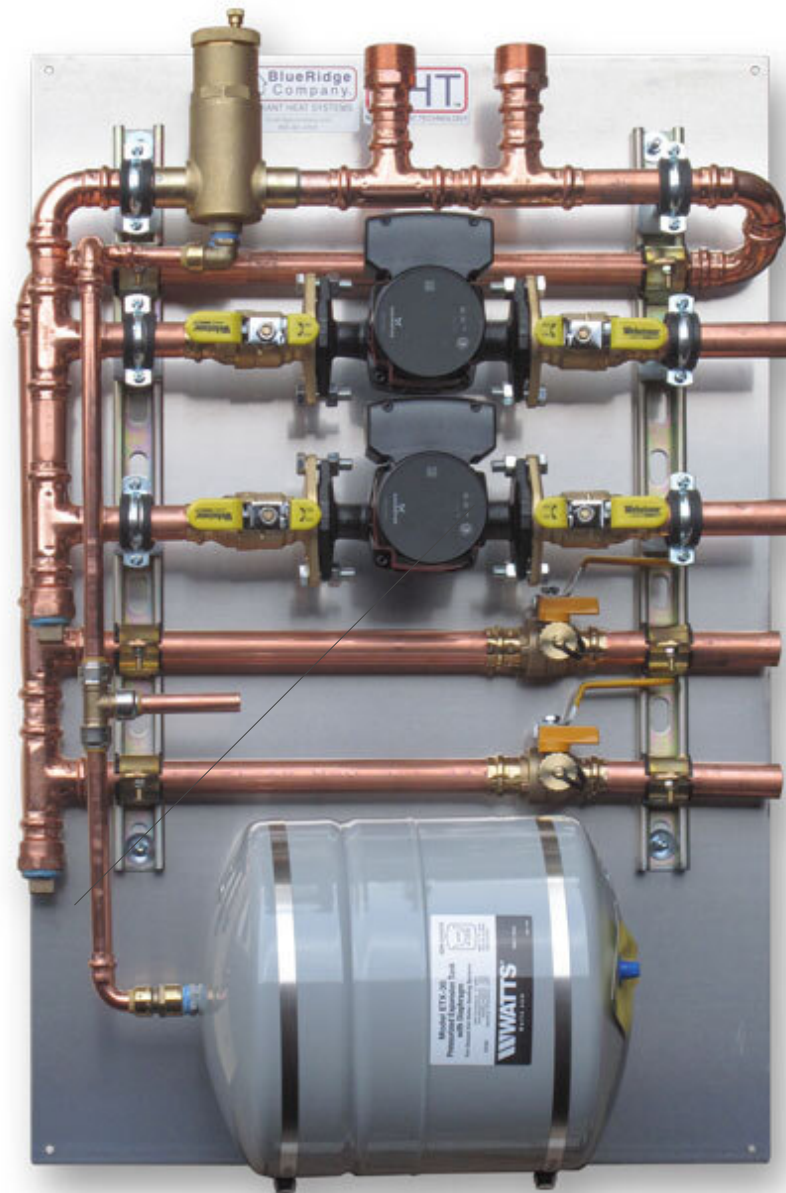
They ultimately chose BlueRidge Company, who helped design a custom radiant system powered by a 199,000/ BTU “combi” boiler for both heating and domestic hot water. “When the materials arrived, I was blown away by the quality. The components were solid, well-made, and clearly built to last. I showed them off to anyone who came by the job site—they were that impressive.”

Kevin handled most of the installation himself, but he did bring in a plumber with radiant experience to finish up the job. “The system came together easily, and once we fired it up in the winter, the results were immediate. The boiler brought the fluid up to temperature faster than I expected, and within just a couple of days, the floors—and the entire house—were consistently warm.”

Now that they have lived in the home for a full year, they can honestly say this system has surpassed all expectations. “The heating is incredibly uniform, quiet, and efficient. The boiler rarely runs more than a few minutes at a time, yet the temperature stays right where we want it. Even our propane supplier was shocked in April at how little fuel we’d used in nine months.”

Like us here at BlueRidge Company, Kevin and Kristin find themselves wondering why radiant heat isn’t used more often.

“It’s hands-down the most comfortable and efficient system I’ve ever lived with. Choosing BlueRidge Company was absolutely the right call—for both the product and the people behind it.”



Kevin used BlueRidge Company’s RHT Prefabricated 2-Zone Column Pump Panel for his radiant system.



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RHT
RADIANT HEAT TECHNOLOGY

GRUNDFOS

WATTS
Watts Water Technologies, Inc.

tekmar
Control Systems

SPACE PAK

Taco