

Project: *Columbia River Home*

Client: *Don Young & Associates*

Location: *Portland, Oregon*

Don Young, home owner and builder, was very impressed with the Daikin Altherma system. The construction heating bills dropped from around \$700 per month to \$170 per month. The project was a great success! So much so that he has spec'd the system out on several of his client projects with equal success and happy clientele.



Retrofit Challenge: *To provide a single system with radiant heating, forced air cooling, and domestic hot water while maximizing efficiency and minimizing carbon footprint.*

The Solution: *Daikin Altherma was a perfect fit as it is highly efficient with a COP rating on the model used in excess of 4.0. It has the ability to produce 120 degree water which is ideal for domestic hot water and the radiant application selected for the project.*

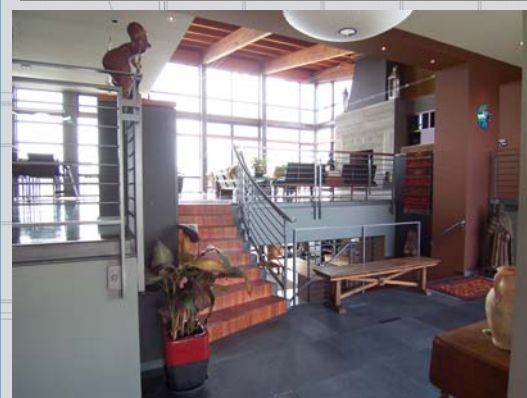


This 5,800 square-foot residence in the Pacific Northwest is designed by Martha Berndt.

After careful consideration and review of the buildings loads and the owners goals for the project, the team selected Daikin Altherma to provide hot water radiant heating, domestic hot water, and chilled water forced air cooling for the project.

The Daikin Altherma system has the ability to produce 45 degree to 50 degree chilled water which allowed the HVAC contractor to design a forced air cooling system utilizing a custom made Hydronic coil and variable speed air handler.

Another great benefit of the Daikin Altherma system is that it is able to provide efficiencies rivaling Geo-Thermal without the mess and expense of installing ground loops. Daikin Altherma's side discharge heat pump design allowed Jacobs Heating, HVAC Contractor, to install the heat pump under the back porch, minimizing the visual impact on the landscape outside the home.



Daikin AC Equipment

- 1 (Model # EKHBX054B6VJU) Hydrobox
- 1 (Model # ERLQ054BAVJU) Outdoor Unit
- 1 (Model # EKHWS080BA3VJU) Domestic Hot Water Tank