

Adjusted Temperature = $\frac{Fs + Tair}{2}$

Concepts in Comfort

Contrary to popular belief, the air temperature shown on the thermometer does not determine thermal comfort. Rather, it is the adjusted temperature which is actually felt by the body.

Adjusted temperature is the average of the air temperature and the temperature of the surrounding surfaces (walls, objects) which is, of course, tied to the degree of humidity.

In short, the higher the surface temperature goes, the lower the air temperature (shown on the thermometer) can go to obtain the same degree of comfort.

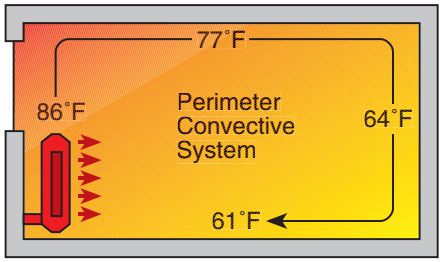
The principle of HeatLink® radiant floor heating involves heating everything, to floors, walls, objects, etc., so that their surface temperatures rise noticeably, allowing an increase in the adjusted dry-bulb temperature.

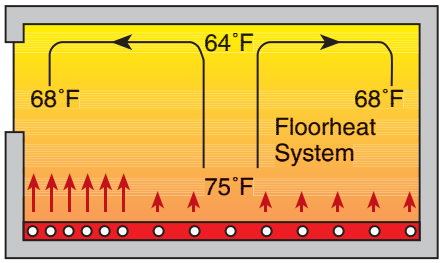
Thus, the air temperature can be lowered by several degrees, giving the same degree of comfort and causing appreciable energy savings.

Energy Savings

Energy savings of approximately 20% to 30% can easily be realized with a HeatLink® FloorHeat system.

1. Decrease in air temperature. For each decrease of 2°F in temperature, there is a saving of approximately 8%.
2. The uniform radiator under the entire floor optimizes system return and (unlike wall radiators) avoids overheating the exterior walls and increased heat losses.
3. The inertia of the HeatLink® FloorHeat system reduces heating system cycles.
4. Air stratification is reduced, giving a more uniform temperature.
5. Using low temperature water allows the use of a high performance condensing boiler which increases efficiency.





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