

# Radiant heat

## for farm or commercial buildings

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Are you putting up a new building or workshop? Maybe you have an existing building that you have decided to heat or change the heating system you currently have. The type of heating system for your building may be a difficult decision.

- There are many options available but radiant heating, often referred to as infrared heating, is becoming the most commonly used type of heat for most situations.
- Radiant heat is the most efficient alternate heating method, providing a high degree of comfort with its quick response time to when heat is needed.
- If you are not familiar with radiant heating it works much like getting heat from the sun, it warms people and objects, providing exceptional warmth.
- Radiant heating, since it heats people and objects, is less affected by drafts and large air movements.
- This is more efficient than forced air heating because no energy is lost through the duct work.
- Secondary radiation from the objects that are heated provide a warming influence on the air, making the area even more comfortable.
- This is a very quiet way to deliver heat and without air moving this provides an advantage to those who suffer severe allergies.



Radiant heating provides many options including being used for in floor heating. There is a size or type that will work for almost any situation.

- These include wall & ceiling mounted units, portable heaters and floor heating.
- Wall and ceiling units are very easy to install and provide excellent efficiency and cost savings compared to other options.
- Most units can be controlled with a thermostat allowing flexibility in the room temperature.
- You can keep the heat at a minimum level until someone will be working in the building and then turn the thermostat up to a higher heat setting.
- Radiant heaters get to the desired heat level very quickly.
- It is also possible to provide area type heating so that the entire building doesn't have to be warmed up.



## Twin Valleys Public Power District incentives:

- A rebate of \$15 per installed kW of heat available for those who install electric radiant heating in a farm or commercial building.
- The only requirements are that the building must have 6 watts of heat per square foot and the heaters be permanently installed.
- Twin Valleys Public Power District also has an all-electric rate available.
- To qualify for this rate the electric space heat must be sufficient to heat the building at a calculated rate of six (6) watts per square foot.
- The space heating must account for at least fifty (50%) percent of the connected electric load for this special rate.



## Advantages of Radiant heat:

1. Heats people and objects without heating the air
2. Area heating capability
3. Provides the best energy savings
4. Instant heat
5. Very low maintenance—no pipes, no ducts, no furnace
6. Clean operation—no fuel burning or fan blowing
7. Safe—no flame or carbon monoxide from burning a fuel, no moving parts, no fuel line
8. Energy efficient
9. Easy installation
10. Rebates and an “all-electric” rate available for qualifying installations from Twin Valleys Public Power District



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