



15 Minute Training Module

Introduction to Electric Heating

THE COMPLETE SOLUTION



The future of domestic space heating is electric!

The benefits of electrical heating:

- 100% efficient at point of use, every watt is turned to heat.
- Lower upfront costs when building or renovating a home.
- You can build faster and with greater freedom.
- No heating pipework, less risk of leaks.
- Little to no service or maintenance required.
- No annual gas or boiler servicing.
- Peace of mind.
- Zonal heating options with programming and thermostatic controls

When specifying electric heating it's important to be aware of the different options available.

There are 3 ways that heat is transmitted into the surroundings.

- **Convection Heat**
- **Radiant Heat**
- **Conducted Heat**

Each method has its own advantages and disadvantages.

Convection Heat:

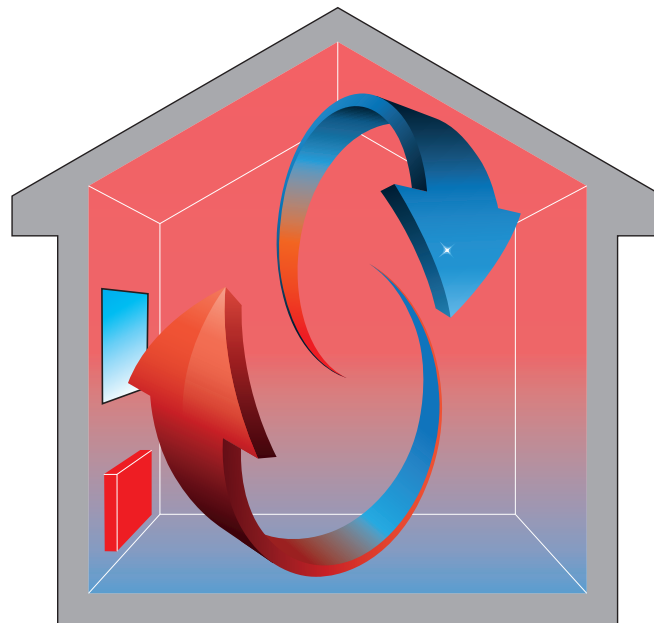
Convection heat is carried around the room in the form of heated air. When the air is heated it expands, becoming lighter displacing the cooler (heavier) air towards the heater. As the heated air cools the cycle continues.

Advantages:

- Instant warm up
- Lower purchase price

Disadvantages:

- Can push dust around the home, exacerbating allergies.
- Heats the air, which means opening a window will lose heat quickly



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Radiant Heat:

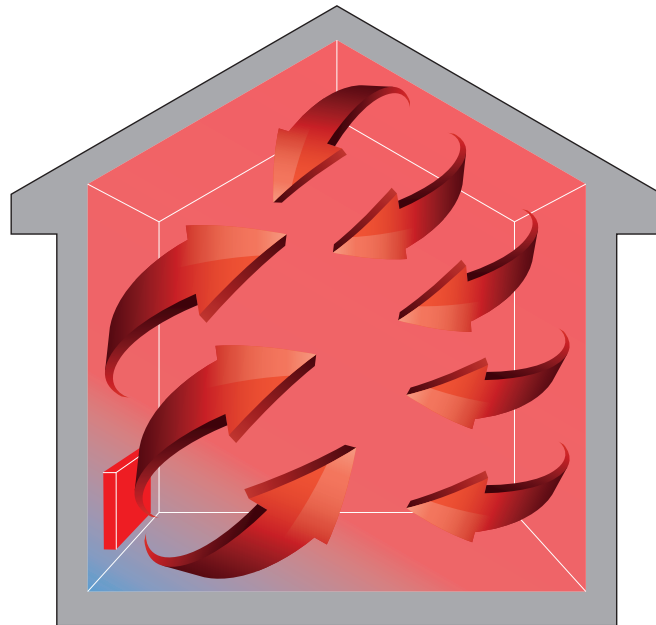
Radiant Heat gives the greatest feeling of comfort. Radiant heat mimics the warmth from the sun. The air itself is not heated directly. Energy rays travel from the heater in straight lines until they strike and are absorbed by heat syncs (bodies, walls, floor etc...), this in turn re-radiates the heat.

Advantages:

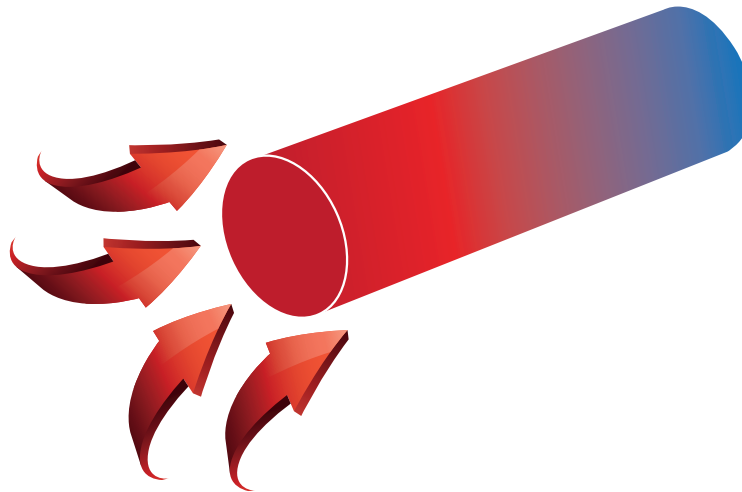
- Heats surfaces directly, offering a quicker feeling of warmth.
- Helps reduce mould and helps dry out buildings.
- Not impacted by air movement
- Better for allergy sufferers as doesn't rely on air movement.

Disadvantages:

- More expensive purchase price than convection.

**Conducted Heat:**

Conducted heat travels through solid objects. When heat is applied from one end it will travel along the object. Conduction heat is a very slow method of transmitting heat and plays a very small part in generating warmth.



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Notes:

A series of horizontal dotted lines for taking notes.



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