

## FREQUENTLY ASKED QUESTIONS

### **What are infrared panels?**

Infrared panels emit a very high ratio of heat as radiant heat. This heats objects directly, rather than warming the air (which is what convection heat does). Other examples of high-radiant heaters include portable halogen heaters, infrared outdoor patio heating, and electric fires.

Infrared is the same as the energy that comes from the sun. Because they work by heating directly, infrared heaters warm you as soon as you turn them on; they don't need time to warm up a room. On the flip side, when you turn them off, you will get cold again more quickly. They need to be positioned carefully so that the heat they emit is not obstructed.

Because they heat objects rather than the air, some people find the heat from infrared panels less stuffy, and cite comfort and health as reasons for choosing them.

### **Do infrared panel heaters save energy?**

Infrared heating is typically electric in the Europe, although oil and gas fired infrared heaters do exist. If you are not already using electricity for heating, using any electric heater will probably be more expensive because the cost of gas is much cheaper per unit than the cost of electricity.

The running cost of any electric heater depends on its rating (watts/kWs), with higher watts indicating higher costs. Whether infrared is an efficient option for you depends on the building you are heating and your circumstances. Because infrared heat heats objects, not the air, it is more efficient where there is a lot of air exchange, poor insulation or high ceilings. Their instant nature makes them a good option if you need instant heat for just one room.

### **Are there any dangers?**

Panels can reach surface temperatures of more than 100 degrees C. Children should not be allowed near them, and like with any heater they should be kept clear of flammables, like furniture and curtains.

### **Is it safe to use the heater near computer equipment?**

Many offices have them installed near desks. Obviously, they shouldn't be close to any potential fire hazard. But they will not affect machinery.

## **Do they emit an orange glow?**

Infrared panels do not emit any orange glow.

## **How does infrared heat work?**

Infrared is electromagnetic radiation with a wavelength longer than visible light and shorter than microwaves. The warming energy from sunshine is infrared. Unlike other heating systems, infrared heaters do not work by warming the air; they work by directly warming objects. In a space heated with infrared, people will absorb the heat as well as the building fabric and objects in the room, so the space itself may become warmer over time (like in passive solar heating, where building fabric absorbs heat from the sun and re-radiates that heat out).

## **Advantages of using the infrared heating panels**

- 1.Minimal Maintenance
- 2.Silent Operation
- 3.No CO2 emissions
- 4.No pipes, chimneys, or potential gas, oil or water leaks
- 5.Reduced air circulation helps maintain a clean and dust free environment, benefiting allergy sufferers

## **Other benefits:**

- 1.Instant heat, no need to preheat a room
- 2.Can be wall or ceiling mounted
- 3.Retrofit without complications
- 4.Long Life Product (Lifetime is 30 years)