

## Healthy Heating

Our Carbon Crystal Far Infrared panels heat in the optimal wavelength of 8-14 microns for human health. Far-infrared rays are known as the "light of life" and it is the only wavelength of light ray that is beneficial to the health of a human body.

*"Like natural sunlight in your home"*



They have a patented new technology emitting 87% Far Infrared Rays (more than any other panel on the market).

Our panels are healthier than traditional forms of heat, as they do not blow dust or allergens - ideal for those suffering from asthma. They also help prevent and eliminate mould and regulate humidity on a natural, healthy level. Since FIR is known to penetrate 2-3 inches into our tissue and bone, it can help to improve the human immune system and well-being.



Far infrared heat therapy is considered a source of natural healing. It creates a physical phenomenon known as "resonance." This promotes better blood circulation and improves metabolism. The heat used in far infrared therapy brings oxygen to joints and extremities. Far infrared lamps are regularly used in medical treatments by massage therapists, doctors, chiropractors, acupuncturists and physical therapists.



## Advantages of Far Infrared Heaters

- 100% Natural, like the sun's heat
- No noise, fans or dust blown (hypo-allergenic)
- Heats the building, not just the air
- Eco-friendly, clean and healthy
- Reduces damp and mould
- Fast to heat, with even heat distribution
- Converts 98% of energy into clean heat
- Simple and cheap to install
- No on-going maintenance, no filters, no oil, no CO2
- Most COST EFFECTIVE form of heating - Save up to 50% vs conventional heaters.
- Safest heating, most comfortable and therapeutic for the human body
- Heat stabilizes humidity in a room making it more comfortable
- Added health and well-being benefits



YOUR LOCAL AGENT:

[www.infraredpanels.co.nz](http://www.infraredpanels.co.nz)  
0800-IRPANEL (0800-477263)

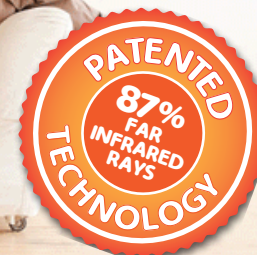
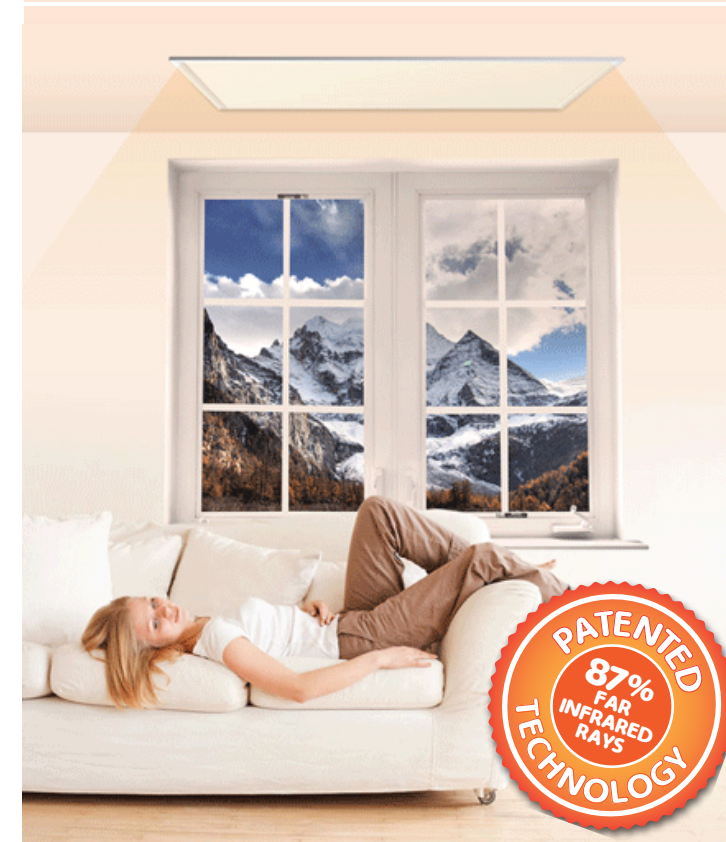


## Infrared Panels NZ

FAR INFRARED CARBON CRYSTAL HEATING

### Bringing sunshine into your home

Far Infrared technology represents a genuine 21st century 'green' energy solution that promises to help transition to a more energy efficient and environmentally-conscious future



Our far infrared carbon crystal panels are the latest technology in eco heating solutions.

Far Infrared heat is the same heat that comes from the sun, without the harmful ultraviolet rays, and is part of the sun's natural light spectrum. All surfaces radiate far infrared, including the human body which emits far infrared in the form of body heat. Far infrared rays can radiate, reflect, refract and penetrate. These deep penetrating abilities can reach through subcutaneous tissues while transforming from light energy into heat energy. **This compatibility is the reason that your body responds so well to the sun and our far infrared heating panels.** This type of heat can also stimulate blood flow and is used for some types of therapeutic applications.

Sleek and unobtrusive, our panels can be mounted on any flat surface, including walls and ceilings - maximising space for anyone with mobility problems without affecting radiant heat output. The flat surface of our panels are quick and easy to clean.

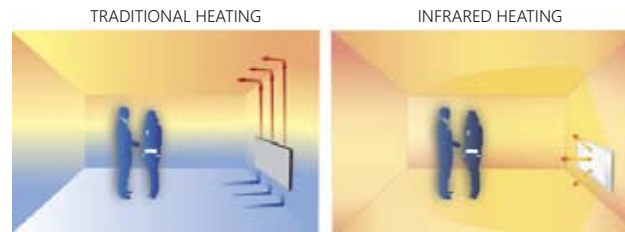
The purchase price, installation cost and energy consumption are much lower compared to other heating systems. **Customers have reported savings of between 30-60% over gas, oil, electric and wood burning systems** (US DOE/NAHB studies have shown a 33% savings over heat pumps). **They also do not need filters, ducts or pipes and do not require seasonal cleaning, filters or maintenance.** Environmentally friendly heat with no CO2 emissions. **In addition, they do not make any noise.**



We have found one of IR's greatest advantages is its versatility: **the technology is incredibly well-suited to heating a variety of environments** and is just as applicable in the home as it is in the workplace.

## Cost Savings

Traditional convector heaters need to get their surface warm and rely on this to heat the air. Heat pumps also rely on heating the air first – it is only when this air becomes warm, you feel warmer. Because warm air rises in the presence of cooler air, the heated air can be easily sucked away by drafts or wind, and must be replaced frequently by more heated air in order to sustain ambient comfort. This all amounts to wasted energy and higher heating bills.



**Our infrared heating panels work very differently. Once turned on, the panel will heat up and start producing infrared heat within just a couple of minutes. The great thing is that you are not wasting energy heating air. You are only heating the surface area of objects and fabric of your house, which then radiates that warmth back.**

Because of this they can run for fewer hours and can achieve optimal comfort levels at temperatures below other systems. As you are not heating volume you can receive **substantial energy savings.**

Far infrared heaters can also be zoned in your house, heating rooms as and when you require the heat, for further savings. Another saving from infrared comes due to the size of panel required. **They can be up to 40% smaller than a traditional convection radiator to produce the same level of comfort.** We recommend using between 50 to 100 watts per m2 depending on how well insulated your home or office is.

Our infrared panels also have a substantially lower buy in cost over many popular heating options, they can be easily installed and require no maintenance costs, filter changes, servicing, etc.

## Green Technology

Carbon Crystal is the next major step in the Far Infrared heating industry.

**What is Carbon Crystal Technology?** Carbon Crystal is the combination of carbon fibre, integrated with nanotechnology. The chemical and physical properties of the molecular structure of carbon are modified into micro units of very small, smooth and fine crystal powder. The carrier which holds the nano carbon is epoxy resin, due to its superior performance. The completion of the process strengthens carbon crystal to give a greater degree of heat conduction - resulting in more than 98% of the electricity being converted to heat, **increasing energy efficiency, safety, and longer product lifetime of more than 100,000+ hours or 40+ years.**

The major impact that carbon crystal has on the heating industry, is that it makes heating systems more energy efficient, safer and longer product lifetime. Most notably, carbon crystal **significantly increases energy efficiency by up to 20% compared to traditional carbon fibre.** When compared to electric convection heaters our carbon crystal heating panels can save up to 50% in energy consumption, in some cases even up to 80%.

The panels are ideal for indoor environments as they are non-toxic, non-polluting and contain no volatile substances. Carbon crystal panels have no CO2 emissions and when powered by renewable energy (such as hydro-electricity, wind or solar power), their use is carbon neutral.

**Our panel's patented technology amounts to safe, clean, low-cost energy that is friendly to people and the environment.**

