



SAUNAS

# Carbon/Ceramic Ingenuity

Carbon heaters produce high quality long infrared wavelengths. Ceramic has a very high emissivity rating. We have combined both in one heater to give you the most penetrating heat with unmatched emissivity.

## Heater Emissivity Evaluation

- Emissivity measures a heaters ability to emit infrared energy. Values range from 0 (shiny mirror) to 1.0 (theoretical black body).
- Raytek, one of the leading infrared instrument manufactures has the following emissivity tables on their website. When reading the table, please note the values in 6-12 micron ranges – the “vital” range for healing the human body (the symbol m stands for “micron”).
- Ceramic has an emissivity of >.95 – closest to a perfect black body at 1.0. That is why the ceramic compound that we add is so important.

The image shows two Raytek emissivity tables. The first is titled "Emissivity Table for Metals" and lists materials like Aluminum, Steel, and Copper with emissivity values across various wavelength ranges. The second is titled "Emissivity Table for Non-Metals" and lists materials like Adhesives, Plastics, and Ceramics. Both tables include a note: "Note: These emissivity values are 'approximate' and may vary depending on the actual material and conditions."

Note the following:

- Many competitors infrared heaters have been designed for industrial use, such as curing paint on cars.
- True Wave™ Infrared heaters are strictly designed and manufactured by us to heat the human body for therapeutic purposes.

## Technical Advantages

- ✓ High Emissivity
- ✓ Higher Resonant Frequency
- ✓ Greater Absorption



Our heaters are comprised of micro-thin carbon fibers combined with our patented micro fine ceramic compound for higher emissivity. We manufacture our heaters in our factory with a patented process. These alternating layers of woven substrate are combined under high heat and pressure to produce a heater with tremendous output and high thermal emissivity. All of our heaters are tested for several hours and measured for electrical draw, temperature and EMF in twelve different locations.

The carbon in our heaters produce long wave infrared heat that penetrates deep into your body. The addition of our proprietary ceramic compound produces a substantially higher infrared output when compared to a traditional carbon heater alone.



We optimize our True Wave™ Far Infrared heaters to produce optimal wavelengths between 6-12 microns (vital wavelengths.) A large percentage of the wavelengths are 9.4 microns, the same wavelength produced by the human body. This allows maximum absorption and resonant frequency to aid detoxification.

## Physiological Advantages

- ✓ Raise Core Body Temperature
- ✓ Increases Heart Rate
- ✓ Deeper Penetration

True Wave™ Far Infrared heaters combine Carbon/Ceramic to produce an optimum infrared wavelength.

For more information:  
infraredsauna.com  
(800) 798-1779

With the high far infrared output (emissivity) of Jacuzzi® infrared sauna heaters, you get an abundant amount of high quality infrared aimed directly at your body's core. We position our heaters so they surround you – FRONT, BACK, SIDE AND EVEN FROM THE FLOOR.