



# HEALTH MATE

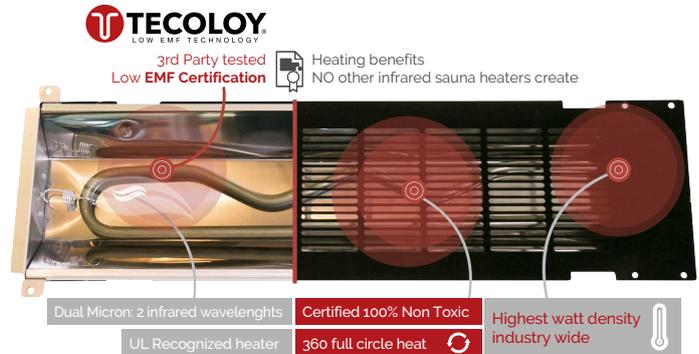
World Leader in the Infrared Sauna

## TECOLOY HEATER

Health Mate's Patented state-of-the-art Tecoloy Infrared Heater is the only UL recognized infrared heater in the world that is proven to be more effective and durable than any other infrared heater in the industry.

Health Mate saunas use a patented and UL recognized Tecoloy heater. Our Tecoloy heater distributes the heat evenly, ensuring a consistent infrared wavelength. The heater housing, in conjunction with the heater maximizes infrared generation evenly while minimizing any heat loss through the back of the heater.

Here is a little science and facts that prove our claim about our Tecoloy heater.

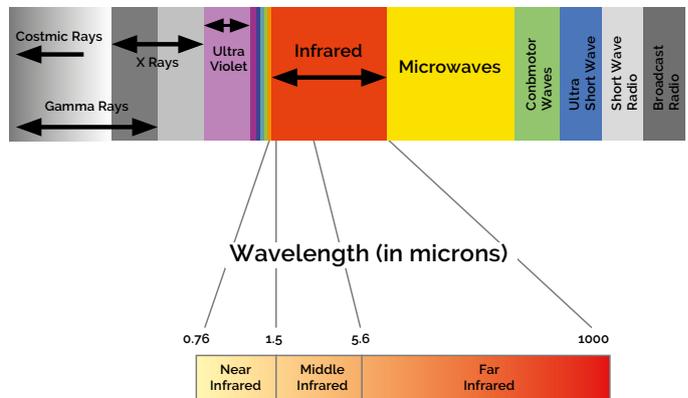


## TECOLOY HEATER

First, the above picture shows that a wavelength above 5,6 microns is far infrared. Near or middle infrared (below 5,6 microns) is not effective on the human body, so it is important that an infrared heater emits far infrared evenly. Our Tecoloy heaters have a minimum wavelength of 6 to 7 microns.

### Here is how we got that number:

- Infrared Heat Calculation Method:  
IE (Infrared Emission) =  $5269 / (\text{HEATER FACE TEMP} + 460)$
- In this industry standard calculation, 5269 and 460 are constant numbers, so only "HEATER FACE TEMP" can be variable.
- Tecoloy Heater Ave Surface Temperature: 370.88 ° F
- Tecoloy Heater IE (Infrared Emission): IE (Infrared Emission) =  $5269 / (\text{HEATER FACE TEMP} + 460)$   $5269 / (370.88 + 460) = 6.34$
- In order for an infrared heater to emit Far Infrared (IE value of 5,6 or more), HEATER FACE TEMP should be 480.89 ° F or lower.
- Our test results, conducted by our R&D department, show that the average heater surface temperature of our heaters is 370.88 ° F, and the minimum IE value is 6.34, which means they truly emit far infrared.



## INFRARED EMISSION

It is crucial for a heater to evenly emit far infrared heat.

## MICRON RANGE

Some sellers claim that their infrared heaters emit 9 to 14 microns with false or no scientific evidence. Be cautious about this kind of fraudulent information. In order to emit 9 microns, the heater surface temperature should be 100 ° F or less. That's slightly higher than our skin temperature! It is obvious that you can't sweat with those heaters. Either their claims about wavelengths are fraudulent or you can't sweat enough in their saunas. At Health Mate, we don't make such fraudulent claims just to sell the units.

That's one of the reasons why Health Mate has been trusted and loved by customers for over 42 years.

