INFRARED SAUNA THERAPY

WOUND HEALING

CELL HEALTH

Our advanced Solocarbon 3-in1 infrared technology has the unique ability to heal wounds faster and minimize scarring through the use of near infrared LEDs. No other sauna can do this.

Skin plays a vital role in the protection of our bodies from the external environment. When broken, it is important to repair it quickly to prevent infection or further problems. Saunas have not been able to provide the benefit of wound healing…until now.

Sunlighten's Solocarbon 3-in-1 Infrared Spectrum Sauna is the only heater on the market capable of producing near infrared (NIR) light using LED technology. This is the same technology used in scientific research that concluded NIR therapy greatly enhances the wound healing process.

Studies conducted by NASA concluded that NIR LED Light significantly promotes faster cell regeneration, wound healing and human tissue growth. Human cell growth increased by 155%-171% in some cases and wound size decreased by 36%.[1]

NEAR INFRARED

Near infrared (NIR) is the shortest infrared wavelength and penetrates the skin's surface more effectively than mid and far infrared. Scientific research shows that when delivered at the vital wavelength of 880nm without extreme heat or light, NIR promotes skin renewal, cell health, wound healing and tissue growth.

NIR heaters consisting of high-wattage halogen bulbs at extremely high temperatures are not comfortable or beneficial. In order to make NIR heat safe for saunas, we used NASA research to develop a patented LED array that provides NIR at a singular wavelength with minimal variability and virtually undetectable heat and light.

LEDs are effective because they can trigger a natural photo-biochemical reaction (similar to how plants use chlorophyll to convert sunlight into plant tissue). Research from Dr. Harry Whelan has proven it takes a specific joule of NIR energy to deliver the wavelength needed to penetrate human tissue. This specific wavelength is 880nm.

REFERENCES

[1] *Whelan et al; Effect of NASA Light Emitting Diode Irradiation and Wound Healing*
Journal of Clinical Laser Medicine & Surgery, Volume 19, Number 6, 2001, Mary Ann Liebert, Inc, pp. 305-314.