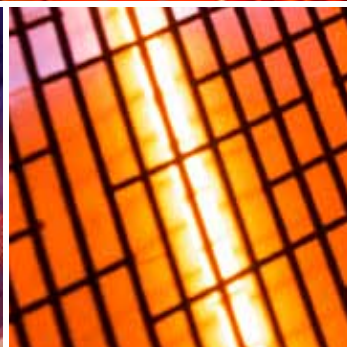
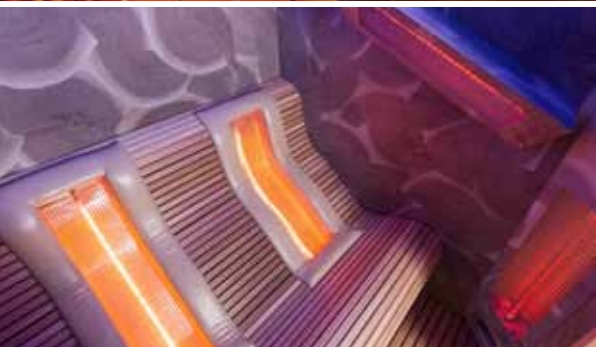


# INFRARED TECHNOLOGY

AND APPLIED SYSTEMS

EXPLANATIONS WITH A SCIENTIFIC FOUNDATION



**alpha**<sup>®</sup>  
wellness sensations

THE IDEAL PARTNER FOR ALL WELLNESS PROJECTS

## DEVELOPMENT

Since the introduction of infrared cabins in the early '80s, much has changed when we look at the technological developments. The first cabins had ceramic heaters and a mechanical timer. Today, everything is far more sophisticated. The infrared cabins made by Alpha Wellness Sensations are, among other things, fitted with sophisticated electronic control panels and newly-developed quartz heaters. On the next pages, we shall say more about the various systems that have been used over the years.



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### 1983

#### CERAMIC HEATER

The ceramic tube is heated by the internal electrical resistance heating wire. The tube is filled with magnesium oxide powder, which is used as a high-temperature insulator. Produces mainly long- and medium-wave infrared (IR-C/IR-B). Nowadays they are rarely used inside infrared cabins.

### 1996

#### INCOLOY-MAGNESIUM OXIDE HEATER

A metal tube made of a special alloy. Fitted with an electrical resistance wire which will heat up. This tube (virtually indestructible) is also filled with magnesium oxide powder. The name of the tube comes from its filling. Mainly produces IR-C/IR-B.

### 2002

#### PANEL HEATER

Available in panels of various dimensions which are fitted with flat heater elements. Originated in Austria and was used between 2002-2007. Today it is used as floor heating and emits mainly long infrared waves (IR-C).

### 2005

#### QUARTZ HEATER

The most sophisticated system for the infrared cabin. Heats the body immediately without preheating. Will safely penetrate deeper in muscular tissue, therefore total relaxation is easily reached. Emits the entire infrared spectrum (IR-C/ IR-B/ IR-A).



## DIRECT HEAT & MEASURED VALUES

Chaleur quartz infrared heaters have measured values of 3% to 30% IR-A, 30% to 80% IR-B and 20% to 70% IR-C. It depends on the point of measurement, power and output given by the control panel. With this knowledge, it is impossible to assign any fixed value to infrared heaters. Chaleur quartz infrared heaters are specially designed in collaboration with the Seibersdorf research centre in Austria to ensure the correct and safe ratio between IR-A, IR-B and IR-C. By virtue of this, we are able to ensure, in combination with the correct power control, optimal and safe penetration depths.

Full spectrum quartz heaters by Alpha Wellness Sensations can also be used in open spaces. This is possible because the infrared energy penetrates directly into the body because of the shorter wavelength of the infrared. This is only possible



ANNO 2015

## INFRARED SYSTEMS IN USE



**PATENTED FULL-SPECTRUM INFRARED HEATER**  
This patented full-spectrum infrared heater, ergonomically designed based on the S-curve, will seamlessly fit the body's shape. The back is fully supported from top to bottom, along the contours of the body. The comfortable and attractive seat is an oasis of relaxation and can help relieve back pain. The combined infrared energy helps to relax and relieve pain.



with a full-spectrum infrared heater. Other infrared heaters such as the long-wave heater generate warm air which is very pleasant to be in, and in which relaxing perspiration is possible. To reach the deeper muscular tissue and to obtain an even higher state of relaxation, a full-spectrum quartz infrared heater is essential.



Watch the 3D animation video of the ergonomically shaped heater.

### PATENTED S-CURVED INFRARED HEATER

Type: Ergonomically-shaped Full-spectrum infrared heater  
Capacity: 600 Watt  
Patent no: MD A 2015 0022  
Warm-up time: Few seconds  
Purpose: Relaxation seats  
Shape: S-curve





S A F E T Y  
T E S T E D

NO NEED TO **PREHEAT** FOR A LONG TIME, THE HEAT CAN BE FELT IMMEDIATELY AFTER TURNING ON.

### EMISSION SPECTRUM FOR QUARTZ HEATERS

Infrared radiation can be seen as radiation heat with spectral distribution in three waves: short waves (IR-A), medium-length waves (IR-B) and long waves (IR-C). Our infrared heaters produce a full infrared spectrum, in which the maximum energy is emitted at wavelengths below 3  $\mu\text{m}$ . At the wavelength area below 1.4  $\mu\text{m}$ , the infrared emission of Chaleur infrared heaters is comparable to that of the sun.

### OPTIMAL PENETRATION DEPTH INTO THE SKIN

With their special emission spectrum to suit the characteristics of human skin, tested Chaleur infrared heaters provide pleasant heating of the body with a unique warmth that penetrates deep (5 mm) into the skin. The result is a relaxed and enjoyable sensation, reached in very rapidly, thus resulting in a shorter and therefore less expensive session in the infrared cabin. These full-spectrum heaters offer unprecedented efficiency and comfort,

thanks to the fast heating and their ability to convert electrical energy into heat exactly where it is needed in the body. The infrared emission of Chaleur infrared heaters with wavelengths below 1.4  $\mu\text{m}$  can reach the cutis (up to a depth of 5 mm), to where the heat is transferred at a higher volume. This produces effective and optimal heating of the body, which would not be possible with by using medium-length or long-wave heaters.



H E A L T H

**TOP TEN ARGUMENTS WHY INFRARED WARMTH CONTRIBUTES TO GOOD HEALTH.**

#### 1// IMMUNE SYSTEM

Body temperature will rise during use. An artificial fever is produced. Our immune system will work at full power for a brief moment – more intense and powerful than ever.

#### 2// OVERALL SENSE OF WELL-BEING

The sensation of well-being will increase because of the relaxing infrared heat. Nervous symptoms are reduced and a good night's rest is encouraged. A distinct, relaxing and enforcing effect of the deeper warmth will be experienced after the first few sessions.

#### 3// CARDIOVASCULAR CONTROL

Regular use of an infrared cabin can create a comparable ambient stress to the cardiovascular system. Thanks to the deep penetration of the infrared heat, the heating effect will penetrate deep into the muscles and internal organs. The hypothalamus will produce an increase in heart volume as well as speed. Because of this, a positive heart stress will occur which will produce the desired cardiovascular

training and a positive effect on one's condition. For people who are confined to a wheelchair or handicapped, it is often very hard to control the cardiovascular system.

#### 4// RHEUMATIC CONDITIONS

When having rheumatic inflammation, it is most important to improve blood circulation at the site of the inflammation so that complementary antibodies will form. Research by the MST\* has shown that infrared heat has an actual, wholesome effect on people with rheumatic conditions. The research was led by Dr. Frits Oosterveld, Professor at the Academy for Physiotherapy, and rheumatologist Professor Hans Rasker at Topclinic Hospital MST. (\*Medisch Spectrum Twente).

#### 5// IMPROVED BLOOD CIRCULATION

Heating of the muscles will cause a raised level of bloodflow, comparable to intense exercise of the body. Body temperature rise will bring about better blood circulation and dilation directly into capillaries, arteries and other blood vessels.

## 6// DETOXING

Increased blood circulation will stimulate perspiration glands. Perspiration is healthy. Sweat contains toxins and waste products that have built up inside the body. Daily perspiration detoxifies the body. Substances that are found in sweat are, among other things, heavy metals (lead, mercury, nickel, cadmium) and alcohol, nicotine, sodium, sulphuric acid and cholesterol.

## 7// PURIFYING THE SKIN

Good perspiration is obtained after just a few minutes inside the infrared cabin. Deeper impurities and dead skin tissue is drained off, which will result in glowing skin, which will feel completely clean. It will improve skin colour and elasticity. It has also been proven that, thanks to improved blood circulation, skin disorders such as acne, eczema, psoriasis and burns will fade. In addition, open wounds will heal faster, and scars will fade.

## 8// INSOMNIA

Even though medicines and other techniques such as

yoga are used to fight insomnia, the luxury of relaxing in an infrared cabin is healthier than taking medicines. It also has a better relaxing effect. Sometimes during the day, or in the evening an hour before going to bed, the penetrating warmth and tranquillity of an infrared cabin will help you to fall asleep naturally.

## 9// MUSCULAR PROBLEMS AND SPORTS WARM-UP

Infrared deep warmth works by penetrating the joints, muscles and tissue, and by increasing oxygenation. It reduces pain at nerve-endings and muscle spasms. Before exercising, it is advisable to warm up the muscles in order to prevent any injury.

## 10// CARDIOVASCULAR DISEASE

Research shows that sweat consists of 80% water. The remaining 20% consists of liposoluble toxins and heavy metals, acids, sodium, ammonia, fat and cholesterol. Normal cholesterol and fat are responsible for cardiovascular disease. Regular use of the infrared cabin will reduce or remove these substances.



## CONTROL UNIT

With a dimmable control unit, the power of infrared heaters can be adjusted. With a lower capacity, the core temperature of the full spectrum heater is lower. As a result, the wavelength moves more to the long-wave range. Thanks to this, you can choose the setting that best suits your personal needs. Muscle relaxation with a higher or lower temperature inside the cabin. Alpha Wellness Sensations makes it possible. Control is easy and conveniently to be used in combination with the correct infrared heaters.



### INFRAWAVE LOUNGE

Relaxation seat with patented ergonomically-shaped infrared heaters

### CHALEUR DE LUXE

Selection of quartz and magnesium oxide heaters

### DISCLOSURE

Rotatable quartz heaters, front side



## AASC - ALPHA ADAPTIVE SMART CONTROL

The new, ultimate control unit. For use inside or outside the cabin. When using infrared, heaters are dimmable to levels of 1%. The 6 outlets are adjustable individually. Zones can be merged or controlled individually, for example, to individually control the capacity of infrared heaters inside the back panel. All functions of the control unit can be controlled from a standard App via a Bluetooth smartphone or tablet – so for example also colour therapy, music, ventilation etc. There is also an option for a humidity sensor, heartbeat sensor, second control unit and Wi-Fi function with which control is possible irrespective of location.

Finish: AASC - Alpha Adaptive Smart Control  
Purpose: Inside and Outside  
Output: Six zones at levels of 1%  
Bluetooth: By smartphone/tablet  
Applicable: Sauna - IR Cabin - Hammam  
Option: WiFi remote



## FROM DESIGN TO PRODUCTION

A special infrared cabin, completely designed to your personal preference; a bespoke sauna or hammam especially for you. At Alpha Wellness Sensations, we know that your wishes and ideas are much more important than the standard options you can choose. You don't have a design yet but do have an idea, a picture or sketch of a wellness project? Don't hesitate to contact us. We will combine our experience and expertise with your wishes, create a (3D\*) design and transform it into a fully-finished wellness product!

### BESPOKE PROJECTS, ENCLOSED EQUIPMENT AND FREE-STANDING CABINS

It's easy to claim that one is the best and safest. But is this really the case? To believe is good – to show scientifically-proven facts is better. Therefore, Alpha Wellness Sensations had their products tested extensively with the result – better outcomes and, moreover, completely safe. Tested security gives you a safe and secure feeling. After all, there are many infrared cabin suppliers on the market, and each

has their own story to tell. It's really important that make the right decision in an excess of contradictory information. Alpha Industries will help you with this. With this brochure, we will show you the obvious differences between the systems in use. All readings and inspections were carried out by the renowned Seibersdorf scientific research laboratory in Austria and TUV inspection institute in Germany.



B E S P O K E





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