

MagicReflex

Original Hanau SunCare.

Well-known solarium and sauna manufacturers fit out their products with UV tanning tubes and lamps and infrared emitters from Original Hanau SunCare.

For good reason. No other supplier can offer more quality of sun.

Original Hanau was the inventor of the UV high pressure lamp and so the founder of tanning with synthetic light sources.

In 1904, the Original Hanau Laboratory (in Hanau, near Frankfurt) developed the first quartz lamp, whose UV light output had virtually the same quality as the sun. The "UV lamp" was discovered and laid the foundations for the tanning business.

Since then, Original Hanau has perfected the technical, medical and commercial application of UV and IR light.

Today, the company is one of the leading suppliers of tanning lamps and tubes. As a supplier of complete UV-/IR-solutions – emitters, lamps, filters, reflectors and measuring technology – Original Hanau SunCare is the development partner and the original equipment supplier for well-known solarium and IR sauna manufacturers



Use of Original Hanau SunCare Tanning lamps and tubes only under consideration of equipment type as well as individual skin type. All data published has been determined by measurements made in the laboratory under standard conditions. As well as the many positive and desired effects, there are also certain risks associated with sun bathing, both in natural sun and in solarium.

UV radiation, especially excessive or improper use of UV radiation, may lead to sunburn (UV-erythem), damage to eyes (conjunctivitis, inflammation of the cornea or cataracts) and premature aging of the skin. Repeated extreme exposure may cause skin cancers. The use of certain medications or cosmetic products can increase the skin's sensitivity to UV radiation. Tanning lamps emit infrared radiation as well as UV. Infrared radiation, with improper use, can damage eyes (thermal retinal damage, damage to cornea and lenses, cataracts) and skin (IR erythem and burning). Always follow our operating instructions.

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MagicReflex

More Power and Life for Your Solarium.

MagicReflex UV-Technology





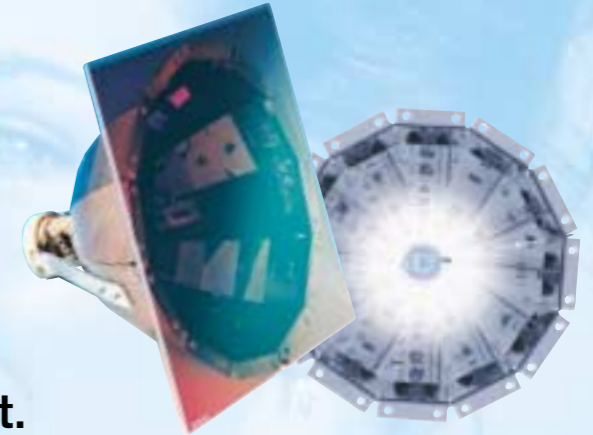
MagicReflex Filters. Constant Power over 1000 Hours.

The Problem with Conventional Filter Combinations.

A small thing, a great effect. Almost all filter systems are good at the start. However, their power decreases rapidly. During their complete operating life, conventional filters lose up to 40% of their transmissivity. In short: the tanning capability of your equipment falls off measurably.

The Solution.

A new filter concept, which consists of just one single filter sheet. And not, as is usually the case, of two sheets – for example a combination of blue and clear glass.



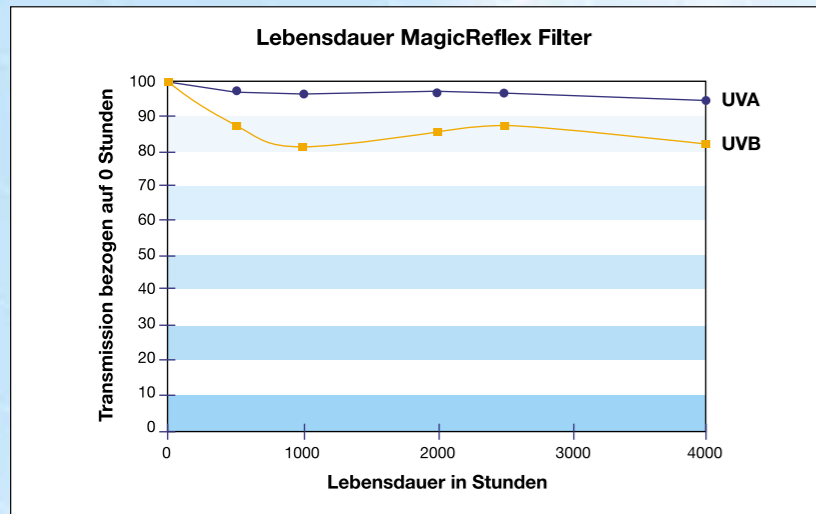
The Effect.

A UVA transmission which is up to 25% higher than a filter system already with new systems – and that is stable over the total operating life of the filter. Because of the output fall off associated with conventional filter combinations, there is an output difference of more than 40% after 500 hours. More measurable instant tanning output. And a measurable increased formation of new pigment. Combined with the feeling of more power through a perceived infrared heating. This stimulates blood flow and tanning.

UV-A-Transmission*, Comparing Blue-/Clear Glass Filter Systems with MagicReflex

	0 hours Sunbed	Sunbed after 8-12 weeks use (500 hours)
MagicReflex	0,772	0,764
Blue-/Clear Glass Combination	0,564	0,424
Output Increase MagicReflex	+ 26,9%	+ 44,5%

* average UVA-transmission (315 – 400 nm)



The Special Feature.

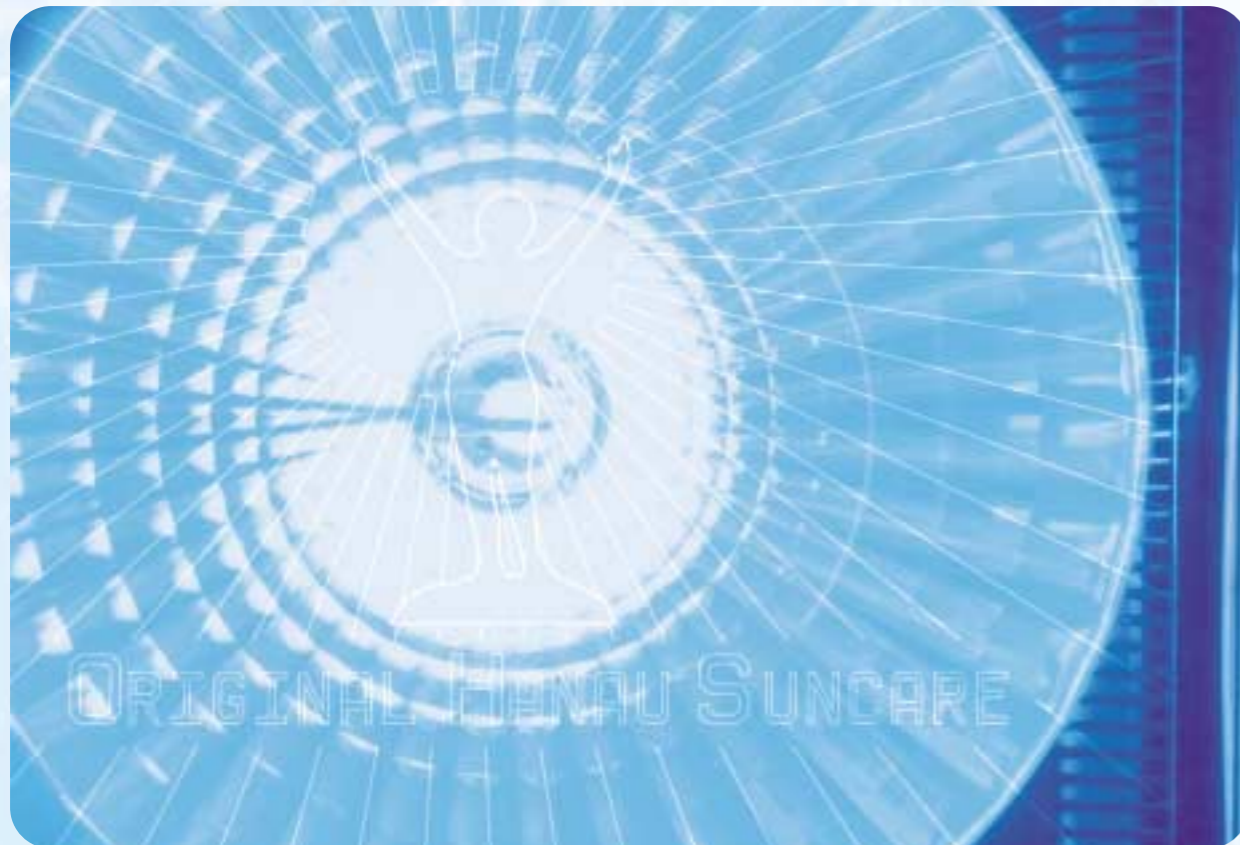
The transmissivity remains roughly constant over the total life of the filter sheet.

If the equipment is set to Class 4 for example, the setting remains stable, thanks to the MagicReflex filter.

And as Original Hanau SunCare filters are produced with discrete UVB throughputs, the high-pressure module can be set to Class 2, 3 or 4 by selection of the appropriate filter and lamp output.

The Management.

Only one filter sheet means: Space-saving, faster, more cost-efficient fitting and maintenance and simplified air cooling.



More Quality in Customer Service.



More Design.

Good design is profitable design. The design of MagicReflex filters is even doubly profitable. It increases the output of your sunbed and is pleasing to the eye of the studio cus-

tomers. For MagicReflex filters show what conventional two sheet filters conceal: the brightly shimmering reflector and the emitter. The printing of your logo is optional.

In short: A MagicReflex filter stands for quality, which can be recognised at first glance.



More Heat.

Customer notice significant output increases of 10 to 15%. MagicReflex filters increase the UVA-, UVB- and infrared transmission by up to 25%. This extra, especially in infrared heating, is perceived by the customer as more intensive heat. That

means that MagicReflex filters intensify the feeling of the almost natural sunbathing experience.

In short: Customers will notice the difference and will be enthusiastic about the experience.

More Tanning.

As a final benefit, MagicReflex filters exceed the expectations which customers demand most of all from a sunbed; the tanning effect!

Around 25% more UVA- and UVB-transmission greatly stimulates blood flow and so increases the total well being effect.

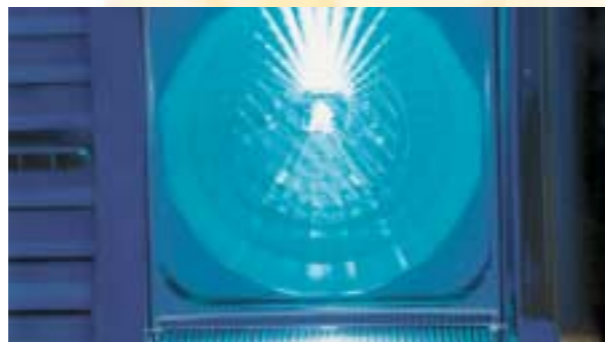
MagicReflex Filters are Easily Integrated in Existing Sunbeds.

From Old to New in No Time.

MagicReflex filters allow you to change an old sunbed into an efficient solarium incredibly quickly. Simply take out the old filters and fit new MagicReflex filters.



Blue/Clear Glass Filtersystem OFF



Blue/Clear Glass Filtersystem IN OPERATION



MagicReflex Filtersystem OFF



MagicReflex Filtersystem IN OPERATION

Integration in Existing Sunbeds.

Simply by replacing the filters in your existing sunbeds you can increase their output by 25%.

At the very most, you will have to make an adjustment to the cooling system and in every case, there is a

need to recalibrate and reclassify the sunbed. Here, we can provide support and assistance through our

accredited measurement laboratory, which is authorised to carry out equipment classification.

For Many Sunbeds!

No worries with exotic sunbeds. MagicReflex filters are suitable for most models on the market.



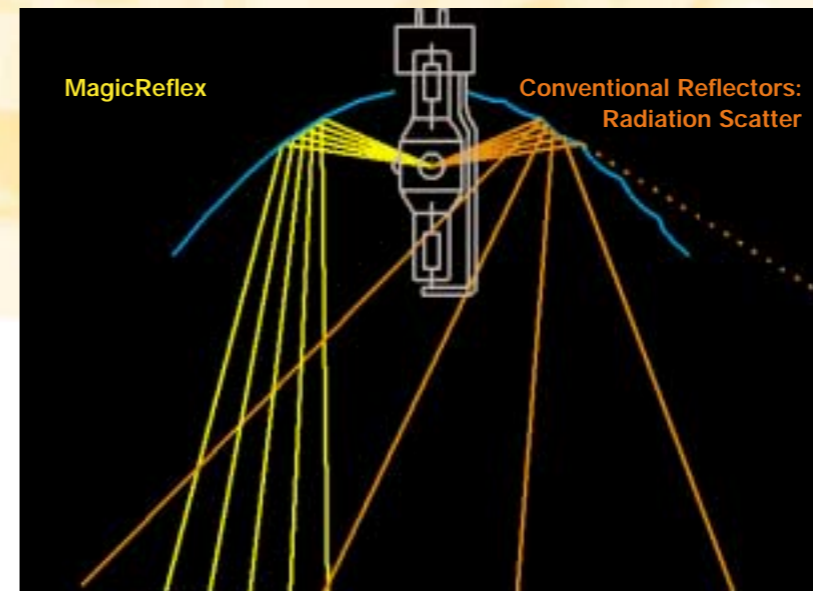
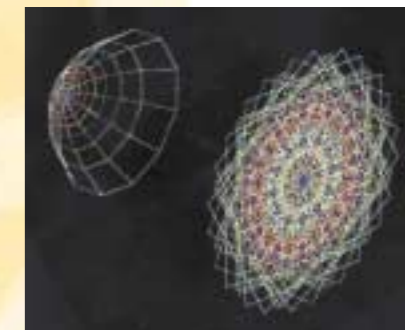
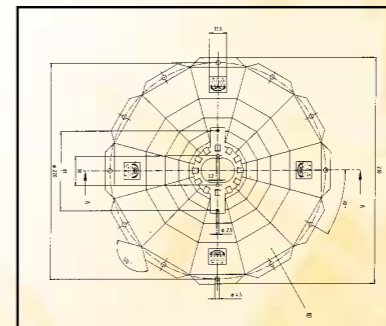
Important Note! New filters can drastically increase the effectiveness of the sunbed. The fitting of MagicReflex filters will change irradiation times and a re-classification of the sunbed must be carried out after fitting the MagicReflex filters. If this is not done, the operating guidelines of the sunbed are no longer valid and damage to the health of users cannot be excluded. Filter replacements must be carried out only by authorised skilled personnel.

MagicReflex Reflectors. Developed Using Special Computer Programmes.

The Problem with Conventional Reflectors.

The efficiency of a reflector is determined mainly by two factors: design and surface structure.

Conventional reflector designs often create radiation scatter and hence a loss of UV light. Surface and materials are frequently optimised for lighting applications and not for UV applications.



The Solution.

With the aid of special computer programmes, Original Hanau SunCare develops reflectors which are perfectly matched to the tanning requirements of a particular sunbed. Reflector and emitter thus form one unit, whose distribution of light tans the body evenly – without any scatter losses.

The result: more tanning output and often much more efficiency and effect.

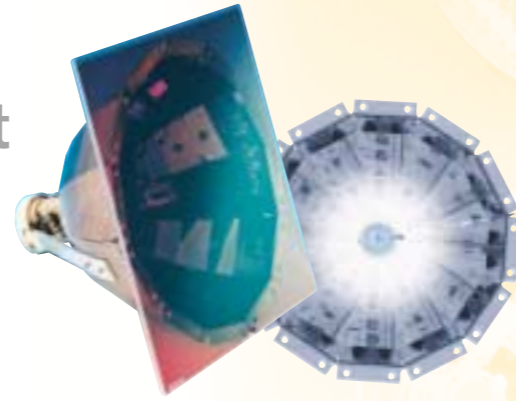
The Coating.

Something else which is special is the optionally available coated reflector surface, which changes the spectrum of the reflected light. The coating absorbs depending on the design more than 80% of the visible

light and the infrared radiation. The UVA radiation is optimally reflected. The emitter heat is conducted away over the coated reflector surface. Consequently, the filter is not subjected to high thermal radiation, if

requested, and the heating effect of the emitter in the sunbed is optimised.

The Integration Possibilities of MagicReflex Filters and Reflectors for Equipment Manufacturers.



1. Simple replacement of filters in existing sunbeds with innovative MagicReflex filters.
Your benefit: enormous increase in effective output of existing sunbeds.

2. Use of MagicReflex standard components (reflector/emitter units, filters, which are optimally matched to each other's performance) for the development of new sunbeds.
Your benefit: no additional tooling costs, low development costs and short supply times.

3. Custom-built reflector/filter units according to your requirements and specifications as an exclusive solution.
Your benefit: We create individual concepts for you and develop the optimum UV technology for your sunbed. The most technically exacting solution in large numbers.



Standard Filters and Reflectors with Technical Data.

Standard Reflectors

Article number	Coating
Standard Reflector 1	
Diameter 184 mm, depth 153 mm, 50% field at 30 cm distance ø 35 cm	
Suitable for emitters from Original Hanau SunCare from 240 to 1200W	
80001931	Uncoated
80001932	With IR absorption coating
Standard Reflector 2	
Diameter 230 mm, depth 126 mm, 50% field at 30 cm distance ø 25 cm	
Suitable for emitters from Original Hanau SunCare from 240 to 1200W	
80001933	Uncoated
80001934	With IR absorption coating

Tanning Lamps for Standard Reflectors

Lamp Type	Article number	Wattage (W)
BQ 400 EC	80001937	400
OH 24/50 EC	80001935	240 – 500
OH 30/50 EC	80001936	300 – 500
OH 50/100 EC	80001938	500 – 1000
OH M 30/50 EC	80001960	300 – 500
OH 70/120 EC	80002093	1200

Lamp Socket

Article number 80001961

Standard Filters

Model	Article number	Dimensions	Absorption limit
MagicReflex 326	45006460	230 mm x 210 mm	326 nm
MagicReflex 324	45006498	230 mm x 210 mm	324 nm

SunSystem. The Complete Facial Plug-In.

High Pressure UV Technology complete.

With SunSystem Original Hanau SunCare offers a complete facial tanning unit, with which you can fit out your solarium with the latest high pressure technology.

This complete system is a reflector

module, developed using the most modern CAD techniques, completely patented, featuring innovative plate breakage protection and intelligent filter frame holding.

This build-in solution uses the elec-

trical connections and the cooling connection which are already there.

With SunSystem you have a fast, low cost, modern technical solution, requiring few components.

Choose your individual solution!

The SunSystem Basic Version.

Housing, open system, with

- Filter frame to accept a filter plate
- Plate breakage protection

In addition you can choose from following optical components:

- Optical, faceted reflector, in three designs
- Socket
- Tanning lamp in different power classes
- Coated filter plate in different designs, with which you can set the high-pressure module to Class 2,3 or 4 in combination with the lamp output

The SunSystem Advanced Version.

Housing, closed system, with

- Filter frame to accept a filter plate
- Connections for cooling air feed
- Starter device with wiring and

earth

- Plate breakage protection
- Housing



You can fashion your individual solution for your sunbed by the choice of lamps, filters and reflectors and bring your sunbed up to the highest

technical state, tailor-made to your requirements and desired tanning results.

The components will be available

from stock. In conjunction with modern design, the SunSystem offers you the capability for individual sunbed design.

Large or small irradiation field?

By using different reflectors, you can control the size of the irradiation field. Original Hanau SunCare offers three different reflector designs:

Reflector A

- the wide irradiation field. The 50% field has a 25cm diameter at a distance of 25-35cm.

Reflector B

- the focused irradiation field. The 50% field has a 15cm diameter at a distance of 25-35cm.

Reflector C

- the tightly focused irradiation. The 50% field has a 100cm diameter at a distance of 270cm.

Further reflectors are being developed constantly and can be integrated in the SunSystem. Talk to us.



Do it yourself.

We can supply the SunSystem in two ways. You can buy your individual SunSystem direct from us. Alternatively, you can obtain the manufacturing drawings and, after purchasing the optical components from us, you will receive the licence for your unique high pressure system.

Original Hanau SunCare allows you to manufacture the patented system under licence.

In short: You manufacture all mechanical parts, such as housing, filter frame, connectors etc.. Original Hanau SunCare supplies all optical components, such as reflectors, emitter fittings, filter plates and emitters.

SunSystem. Technical Data.

Installation dimensions:	xxxx xxx xxx
Elektrische Daten:	Mains voltage 230V to 400V, 50Hz and 60Hz. Current up to 10A
Emitter specification:	OH M 30/50 E 45006357
Cooling:	Forced cooling using ambient air. Existing connectors. The module controls the air distribution