Discover a *Jewel* in every facet.

Jewel - Technical innovations

Luxura
by Hapro

Technical innovations

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1. A Jewel in every facet

Are you ready for THE tanning revolution that gives you 50% energy-savings and 100% tanning power? Yes! Less really is more, thanks to ground-breaking technical innovations and a unique combination of UV-A and UV-B LED technology. The Luxura Jewel is the latest model at the top of Luxura's range and it excels in every aspect. New technology and ground-breaking innovative developments create a spectacular tanning experience with excellent tanning results. How we do that? Read all about it in this technical brochure.

2. Full-LED face tanner

A masterpiece in every facet
Discover a completely new level of facial tanning with the Jewel's unique full-LED face tanner. This product was made to shine (literally). It's a technological gem that has been specially developed for huge improvements in performance as well as being a fantastic energy saver. In this face tanner we have combined UV-A PowerLEDs, UV-B PowerLEDs, red LEDs and yellow LED light; the perfect combination for an instantly-visible tanning effect, soft, cared-for skin and a revitalised feeling. A real masterpiece!

LED there be... more light!
UV-A
With 176 UV-A PowerLEDs at 365 nm, we make maximum use of the direct pigmentation potential within the spectrum, while showing a relatively low erythema A value. That means we can deploy a lot of power, for an intensive tanning boost, while adhering to the standards.

UV-B
Unique! 16 UV-B PowerLEDs at 308 nm provide indirect pigmentation and make use of the most effective part of the light spectrum for building up vitamin D.

Red light
The skin is nourished by 68 LEDs with red light at 630 nm; the most effective spectrum for active collagen production, for beautifully soft and supple skin. At the same time, the skin is extra activated for more intensive tanning.

Yellow light
Carefully-positioned LED tracks of yellow light at 595 nm have been added for a powerful energy boost. Yellow light is known to give you energy and help you feel revitalised. So, enjoy some relaxation time during a tanning session and you're ready to face the world again!

UV-A

UV-B

Red light

Yellow light

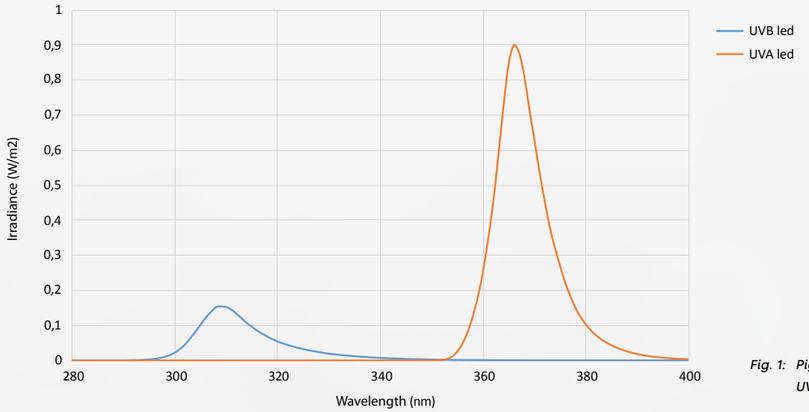
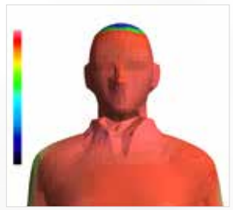


Fig. 1: Pigmentation value UV-A and UV-B LED

Infinite reflections
For balanced UV exposure on the face we use toric reflectors for the UV-A and red LED light, and faceted reflectors for the UV-B LED light. By using torics and facets in the reflector cups, light rays are broken and diffused infinitely, to avoid concentrated light bundles. The unique positioning of the LEDs also ensures the perfect diffusion of light over the face, neck and chest.

Powerful LEDs, guaranteed.
For a perfect result, we use very powerful LEDs in the face tanner. They are extra cooled to ensure optimum functioning. We have spent a lot of time on the development of our PowerLEDs and therefore have every faith that they will last for the entire lifespan of the product. Our faith is so strong, that all LED components come with a three year warranty.



Diffusion of light over face, neck and chest

3. BOS Tanning booster

Powerful tanning boosters
Spread across the entire length, we have placed 13 body boosters for extra tanning power in the canopy and the bed. The BOS Tanning boosters are unique tanning boosters with a high direct pigmentation value that produce a super-fast tanning effect.

Remarkably, these boosters show a low erythema A value, but achieve a high pigmentation value. So, don't let these BOS's fool you, because at just 0.2W/m2, they still have extraordinarily high tanning power.

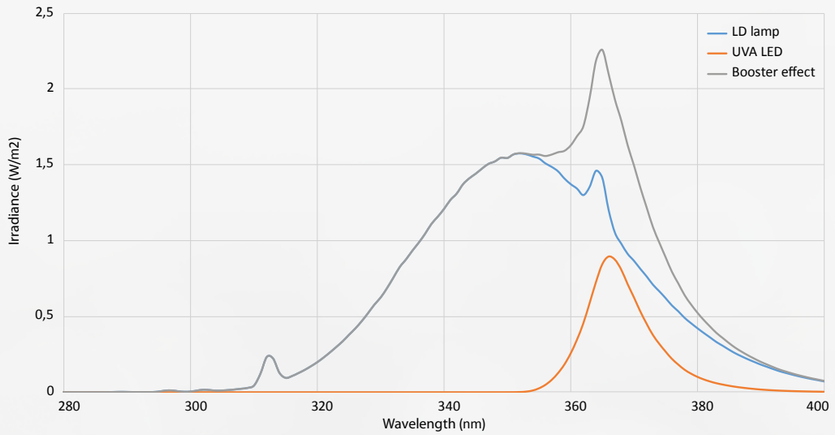


Fig. 2: Pigmentation value with Booster effect

Facts & figures:

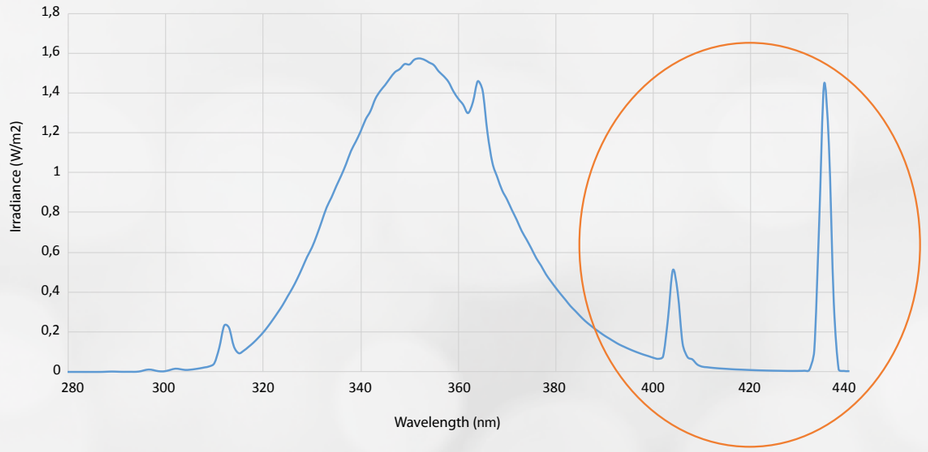
- Each booster has 25 broadband red LEDs at 630 nm and 25 UV-A PowerLEDs at 365 nm
- Each booster consists of 5 separate LED elements that are connected to each other
- Each reflector cup has a toric reflector for perfect diffusion of the light across the body

4. New Premium Lamps

Custom-made for Jewel
We designed a new type of Premium lamp especially for the Jewel; one that works perfectly with the BOS Tanning boosters and is therefore perfectly geared to the UV output from the boosters in every Jewel. What is different about them? The spectrum of these lamps is distributed differently in order to achieve, in combination with the boosters and the face tanner, the most effective and optimum combination of UV-A and UV-B within the 0.3W/m2, UV Type 3 and UV Type 5 standards where permitted. So every Jewel has the ultimate combination for an immediately-visible, improved tanning effect AND for soft, supple skin.

Also take note of the beautiful deep-blue colour. Thanks to the high-quality phosphorus and the addition of extra blue phosphorus, we are making optimum use of an extra part of the UV-A spectrum within the (400 - 440 nm) standard without increasing erythema, thus making maximum use of the direct pigmentation possibilities.

Fig. 3: Pigmentation value Premium lamps



5. Energy savings

50% energy savings, 100% tanning power
The Jewel sets a high bar in terms of energy savings. With energy savings up to 50%, compared to the energy consumption of the Vegaz, we are pushing every boundary.

New, innovative technology keeps energy consumption low:

Low energy consumption in stand-by
We have adjusted the LEDs so that they consume as little energy as possible in stand-by mode, whilst retaining atmospheric lighting.

Full-LED Face tanner
By making full use of LED light rather than high-pressure lamps in the face tanner, much less energy is consumed.

Premium lamps
We have replaced part of the lamps in the bed and the canopy by the 13 BOS Tanning boosters with PowerLEDs as extra super-tanning boosters. In addition, the power of the new Premium lamps in the Jewel has been regulated at between 60 and 120 Watts. That is much less, compared to our normal Premium lamps for which power is regulated at between 100 and 200 Watts. But don't be misled by the wattage. Thanks to the unique spectrum, you won't lose any tanning power.

Smart cooling
Thanks to the use of LEDs, less heat is generated. As a result, the ventilators come on later and less ventilation is required during the session. The cooling system therefore uses less energy and, as an added advantage, it is even quieter for increased enjoyment of the sublime SoundAround system.

Warmth experience
Despite reducing the energy consumption, we have managed to create a real sensation of warmth with our PowerLEDs.

Ageing isn't an issue
And it gets even better... Even as the lamps get older, which means they need more energy to achieve the same output, at the end of their lifespan they still maintain an energy-saving of 50% compared to the Vegaz. That's how you recognise a real Jewel.

A *Jewel* in every facet.

50% energy saving, 100% tanning power

Full LED facial tanner
with UV-A & UV-B PowerLEDs, red light LEDs & yellow LED light

529 UV-A PowerLEDs, 18 UV-B PowerLEDs, 406 red light LEDs & 672 yellow micro LEDs

Full LED shoulder tanner
with UV-A & UV-B PowerLEDs

Unique shoulder-neck tanner bench *with UV-A PowerLEDs*

13 full body length BOS Tanning Boosters
with UV-A PowerLEDs and red light LEDs

Specially developed toric and facetted reflectors
for UV-A & UV-B LEDs

Tanning exposure calculated to perfection

Specially developed Premium lamps
ultimate combination with BOS Tanning Boosters

Full body skin care
with red light LEDs for soft, supple skin and a better tanning result

Vitalizing yellow LED light
in facial area

Improved Sense wellness features

Smart and silent cooling
for optimized tanning experience

Impressive warmth experience
with use of UV-A and UV-B PowerLEDs

Wireless phone charger

Real-time insight and control
with MyLuxura

6. *Shoulder-necktanner bench and Shouldertanner extension*

Spot on
An entirely new extension not only gives the Jewel an iconic look, it also facilitates the use of LEDs on those parts of the body that are harder to tan; the shoulders and neck.

Shouldertanner extension
The integrated shoulder tanners are equipped with 16 x UV-A, 2 x UV-B PowerLEDs and 8 x red LEDs, just like the ones used in the face tanner. Thanks to the toric and faceted reflector cups, the light is spread evenly over the entire shoulder area, without creating points of high-concentration. By focusing each reflector cup specifically on the shoulders, we can prevent unnecessary scattered light.

Schoulder-necktanner bench
The bed is equipped with a unique neck- and shoulder tanner and reflector. 12 x UV-A PowerLEDs, 5 x red LEDs and a uniquely shaped reflector guarantee the perfect tanning result.

Wireless charger
Mobile phone out of battery? No problem! The extension also has a wireless charger on top.

Surround sound
For an optimum surround sound stereo experience, the centrally-positioned boxes in the extension are placed at an angle.

7. IP Control

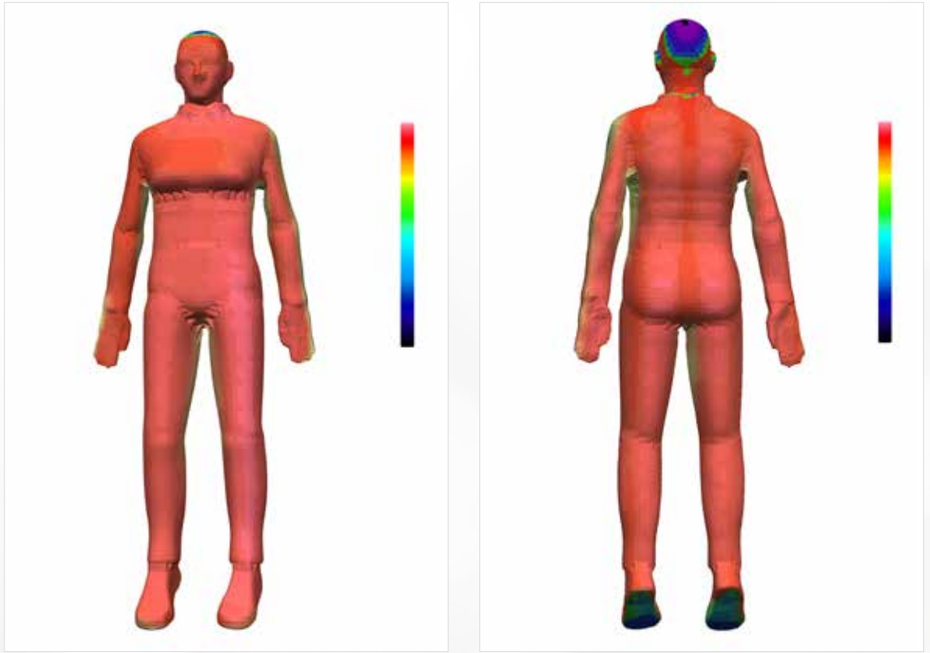
The optimum performance guarantee
Naturally, the Jewel comes equipped with Luxura's unique IP control (Intelligent Power system); intelligent software that keeps control of the lamps' power supply and ensures the lamps' output is constant throughout the entire lifespan. At the same time, the system monitors the optimum values within the 0.3W/m2 UV Type 3 and UV Type 5 standards.

The known advantages of IP Control:

- Increases the lifespan of the lamps up to 1200 hours of use.
- Adjustable ballasts make it possible to control each lamp individually, so that lamps that are further away from the body can be given more power to compensate for the distance from the body. This means the entire body receives the same dose of UV light.

IP Control & Jewel
Previously, the above was only applicable to low-pressure lamps. In the Jewel however, IP Control is also applicable to all of the LEDs in the device. You therefore now have full control over all of the light in the entire sunbed. In addition, the output from the LEDs is compensated; even though there is only minimal deterioration throughout the LEDs' entire lifespan, this is also corrected through IP Control.

Insight into UV exposure
Unique calculation software gives us the option to simulate and calculate the full UV exposure over the entire body. This gives us a perfect view of what the diffusion of the UV light over the body looks like and allows us to determine on that basis, exactly how the LEDs and lamps should be controlled. So we can tune all the light perfectly for an even tan over the entire body, like you've never seen before.



Diffusion of light over the body

8. Renewed wellness features

Optimum enjoyment
No tanning session is complete without wellness features. Enjoy sublime SoundAround audio, listen to your favourite internet radio and experience a fantastic feeling of wellness with the innovative Qsens and Xsens.

SoundAround
Enjoy a relaxing tanning session with fantastic music. Three loudspeakers, including one subwoofer, provide sublime surround sound. The SoundAround feature offers three external audio channels that can be connected by studio's as desired. In addition, this feature includes standard SmartVoice, Bluetooth, internet radio and a pre-programmed SD card that contains two internal music channels with studio and wellness music.

Thanks to Smart Audio Volume, the audio volume adjusts itself to the environment automatically. When you increase the face ventilation, the volume increases accordingly. This way you will never have to miss a note of your favourite music again.

Internet radio
Thanks to the internet connection in MyLuxura, it is now possible to stream internet radio stations. You can easily programme one or more stations through the MyLuxura portal, which any user can listen to if desired during their tanning session

Qsens
The Jewel comes with a finer nozzle type, which diffuses a fine mist over the face and body.
In addition, the diffusion of the spray is more even and natural.
The new valve helps the system to maintain better pressure and prevent malfunctions.

Xsens
To diffuse a delicious scent in the Jewel, we use a sachet filled with intensely scented wood chips. This sachet is very simple to use, as it can be easily carried and replaced. In addition, it is also more favourable in price.

9. Temperature control

Smart cooling
An intelligent cooling system responds efficiently to the temperature in the sunbed and ensures it reaches a comfortable temperature faster. Because the ventilators come on later, the tanning session begins almost soundless. Thanks to the use of the many LEDs, less warmth is created, which helps the cooling system to stay silent throughout the entire session.

Climate control
Every Jewel leaves our factory with a standard Climate Control setting of 30 degrees. That way, we ensure that the device begins warming the bed at the start of each session so that the ideal feel-good temperature is reached quickly. Furthermore, the lamps get to the right temperature faster, for optimum UV light output. This not only ensures the best tanning results, but also the most efficient use of the lamps.

10. *Sustainability*

Throughout our entire development and production process, we keep a close eye on our CO2 footprint and that of our products. Sustainability was therefore a key point during the development of the Jewel that we continuously take into account.

LEDs
In addition to being energy-saving, LEDs are also more sustainable in terms of their lifespan. All of the LEDs we use in the Jewel have been developed to last for the entire product lifespan. Where we now use LEDs, we no longer have to replace and dispose of them for the entire lifespan of the device. And that is not only sustainable, it's also cheaper!

Made in EU
Almost 90% of the components present in the Jewel are sourced within the EU. We source components as close to home as possible, so that we can ensure the highest quality and maintain a low carbon footprint.

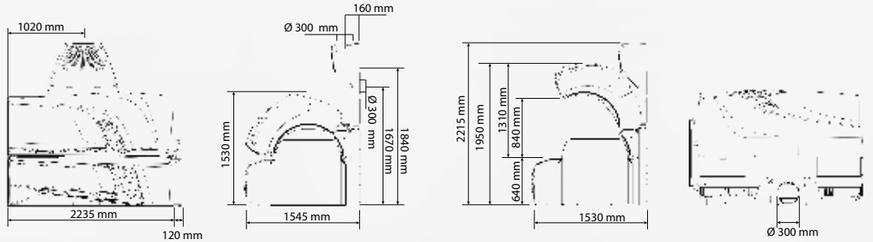
Warm Air Return system
With the help of the Warm Air Return system with a thermostat, we give tanning studios a helping hand with heating the cabins. The WRS ensures that warm air from the sunbed is filtered and sent back into the cabin until the set room temperature is reached, after which point the warm air is evacuated.

Real-time insight and control with MyLuxura
Naturally, the Jewel comes equipped with MyLuxura as standard; the online management and service portal in the Cloud, which helps you to make maximum use of your sunbeds and also helps to keep costs down. With MyLuxura, you have everything on hand for optimum efficient use of your sunbeds. In addition, the software contributes to the sustainable deployment of service staff.

Smart features and functionalities give you...

- insight into the wellbeing and maintenance status of your sunbeds, which means that maintenance can be planned remotely and service staff can therefore be deployed more efficiently.
- the ability to signal errors yourself and get more information about how to resolve them (sometimes perfectly yourself). This way you can very easily fix errors remotely and give guidance to on-site staff, without the need to send out service staff.
- the knowledge to maximise your sunbeds' performance, thanks to insight into temperatures and all sorts of information on the ideal lamp climate.
- countless other insights, statistics and figures to gain an understanding of the use and well-being of your sunbeds.
- a remote reset function if the device malfunctions.
- automatic software updates. These updates optimise the software to help prevent malfunctions.

Luxura Jewel	
Top	23 x Premium Intelligent E-Power 60-120W-R 6 x BOS-BOOSTER (150 x UVA LED, 150 x RED LED)
Face	176 x UVA LED 16 x UVB LED 68 x RED LED 672 x yellow micro LED
Shoulders-Extension	16 x UVA LED 2 x UVB LED 8 x RED LED
Shoulders-Bench	12 x UVA LED 5 x RED LED
Bench	10 x Premium Intelligent E-Power 60-120W-R 7 x BOS-BOOSTER (175 x UVA LED, 175 x RED LED)
Central air exhaust capacity	3800m3
Connection	230V 3~/400V 3N~/PE/50-60Hz
Weight	675kg
Weight incl. Airco	725kg
Colour	Crystal White with colorful faceted light
Warranty	2 year warranty on Luxura 1 year additional warranty on LEDs



Standard features
Shoulder tanner
Neck+shoulder tanner bench
Tanning power preset: low - medium - high
Sound Around
Wireless phone charger
MyLuxura portal
Internet radio connection
IP Control
Smart Cooling
Compact air exhaust

Optional features
Climate Control
Wellness package Xsens & Qsens
Xclusive package Climate Control, Xsens & Qsens
Air exhaust tower
Air exhaust tower wrs

Energy consumption & fuse rating		
Rated Voltage	**400V/3N~/PE/50Hz**	**230V/3~/PE/50Hz**
Standard model	7000W	11700W
Model with Climate Control	9200W	14400W
Model with Wellness package	7100W	11800W
Model with Exclusive package	9300W	145000W
Fuse rating	3 x 16A	3 x 25A

Technical specifications subject to change

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