

glacial_{spa}

Cooling-based Whitening from the Source



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Cryomodulation®

Cooling-based Brightening from the Source

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jlc. global

science driven solutions

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R2 Technologies

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San Ramon, CA 94583,
United States



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Cooling-Based Whitening for Radiant Skin

Asians often seek healthy
and smooth white skin

Smooth and white skin enhances
the look of make-up and haute couture,
making them appear more
fashionable and luxurious.

Celebrities and influencers
with bright white skin are
more prominent and admired.

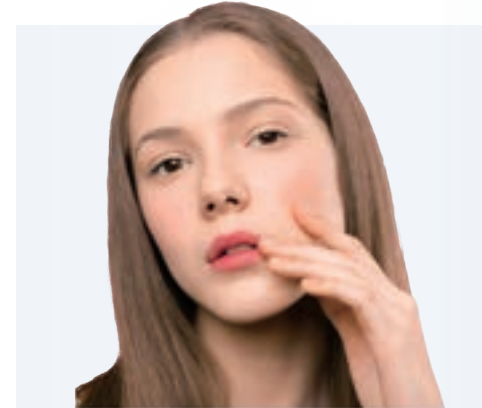
Glacial Spa offers an easier way to
achieve this desired whitening effect.

Enhancing Skin Colour and Brightness

Dark / Red / Yellow

- Dark -

Skin colours vary due to external environments and lifestyles. For example, high-temperature insolation and irregular work and rest will stimulate the generation of melanin, resulting in dull skin. Skin metabolism slows down as people age, causing dull skin due to melanin accumulation. Therefore, the repair of 'dull' skin is the basis of whitening.



- Red -

External stimulation can cause skin inflammation at the muscle base, leading to redness, sensitivity, and flushed cheeks. Prolonged redness may cause brown precipitation on the skin. Therefore, other key factors to improve skin colour include repairing 'flushed' skin and maintaining stability.

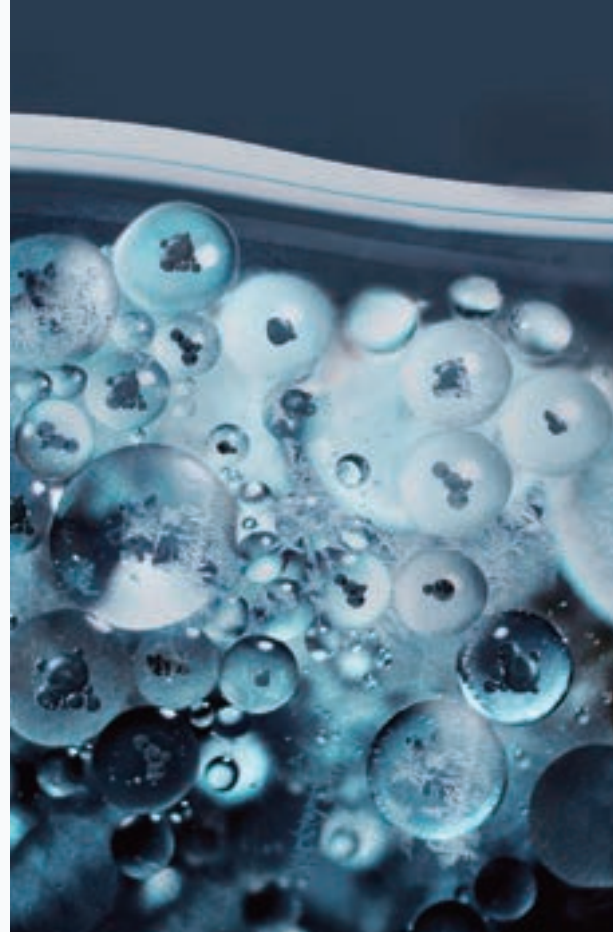
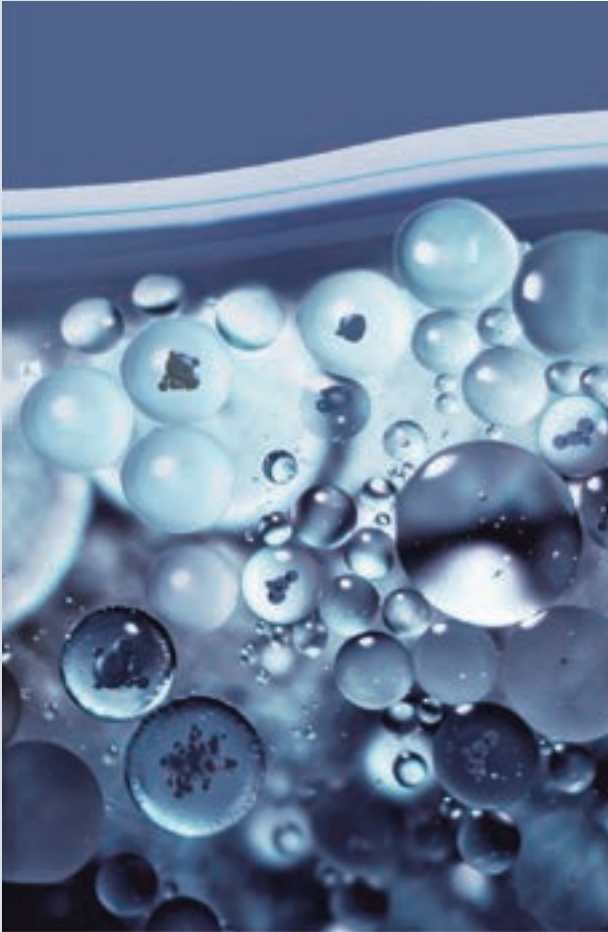
- Yellow -

The fast-paced and stressful life and staying up late will cause uneven skin colour, especially in areas around the eyes, mouth, and nose, making the skin appear yellow and lacklustre. Therefore, repair of yellowed skin is another important link for brightening and whitening.



Effective Skin Whitening Begins with Addressing Underlying Issues

Heat based technologies often cause discomfort and require recovery time



- Root -

Melanin generated is transmitted to the skin surface in a 'root-like' manner through the neural dendrites at the muscle base. Dull skin can be suppressed and the skin can be brightened only by inhibiting the activity of the 'root'.

- Source -

Melanin is produced by tyrosinase. Sensitive redness is caused by a weak and sensitive muscle base. Inhibiting the activity of tyrosinase and relieving redness help achieve even and cool-white skin.

Light Based Technology in the Era of Thermal Beauty

Removing melanin through heating produces remarkable effects, but this technology cannot address both symptoms and root causes, nor relieve redness for achieving cool-white skin.

Features of Most Light Based Whitening Options

These options commonly involve pain, recovery time, and high demands for post-operative care. The heat source and stimulation can also make the skin more sensitive. Most light based whitening treatments carry the potential risk of post-operative pigmentation.



Cooling-Based Whitening from the Source: Opening a New Era of Cryotherapy Aesthetics

Cryomodulation ⁽¹⁾ was developed by three scientists: Dr. R. Rox Anderson, the “Father of Modern Laser Medicine” and the Director of the Wellman Center for Photomedicine at Massachusetts General Hospital, Boston, MA, USA; Dr. Dieter Manstein, Professor of Dermatology at Massachusetts General Hospital; and Dr. Henry H.L. Chan, Professor at the Faculty of Medicine, the University of Hong Kong. R2 Technologies has been conducting research experiments on the application of this technology to human skin since 2014 and obtained FDA certification in 2016, marking the beginning of a new journey in cryotherapy aesthetics.

Innovative Cryomodulation by R2 Technologies

As an innovative achievement in cryotherapy aesthetics, cryomodulation is built on eight years of research by Harvard University and the medical team at Massachusetts General Hospital. With low and precise-temperature treatment, cryomodulation can inhibit the activity of melanoblasts and tyrosinase from the root, reduce melanogenesis, and simultaneously improve capillary edema and nerve sensitization in deep skin ⁽²⁾, thus repairing and relieving skin redness from the source.

(1) Patent No.: US9801677B2

(2) Reference: Gao Meihua, Wang Haiyan, Qiu Shicui, Zhang Yan, Li Wuxiu; Experimental Observation on Inflammation Treatment by Liquid Nitrogen Cryotherapy; Department of Microbiology, Binzhou Medical University, Shandong, China. Similar contents below refer to this Reference.

Team of top international scientists



R.ROX ANDERSON.M.D

Father of Modern Laser Medicine
Proposer of Fractional Photothermolysis



DIETER MANSTEIN,M.D.,PH.D.

Inventor of Cryolipolysis



HENRY H. L. CHAN,M.D.,PH.D.

Honorary Professor of the Faculty of
Medicine, the University of Hong Kong
Dermatologist of Hong Kong
Skin Health & Laser Center



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Suppressing dark & repairing red skin for exquisite white skin

Low and Precise-Temperature Treatment for Cooling-Based Whitening from the Source

The device targets tyrosinase, the source of melanin in the deep epidermis, using a professional probe at a low temperature precisely controlled by an intelligent chip. This approach addresses various skin problems by effectively and comprehensively inhibiting melanin production at its source. Additionally, it is an effective method for alleviating sensitive redness in fragile skin, helping to relieve and repair skin redness, resulting in cool-white skin.



01

Gentle Cleansing
Efficient cleansing and
gently nourishes the skin



02

Freezing
Inhibits melanin production
from the source with
Cryomodulation



03

Acid enzyme-based
skin renewal
Accelerates pigment
metabolism and soothes
oxidation resistance



04

Refreshing
Instantly soothes and
repairs for enhanced
skin flexibility



05

Cordyceps-enabling
repair
Whitening and improving
skin metabolism with
multiple ingredients



06

Vigorously activating
Simultaneously whitening
through anti-glycation and
antioxidant processes



07

Double-extract brightening
Nourishes skin with oil and
repairs skin barriers



08

Evenly whitening
Reduces lines, repairs,
and provides long-lasting
whitening and brightening



Inhibiting Dullness from the Source

In the "Golden 11 Seconds," the activity of melanocytes and tyrosinase can be accurately and safely inhibited at low temperatures. This effectively prevents melanin from being transported by cell dendrites at the muscle base and reduces the generation of new melanin. Solving problems at the source empowers true whitening!



01

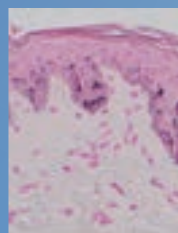
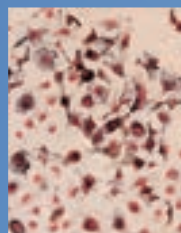
The activity of tyrosinase can be effectively reduced by a safe low-temperature treatment, without causing any damage to cells.



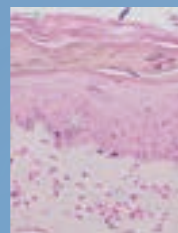
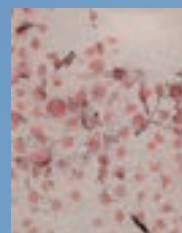
02

The metabolism of existing melanin can be accelerated after six treatment steps, combining low temperature and high-efficiency skincare products.

A Single Treatment for Reduced Melanin



Melanin accumulation at room temperature.



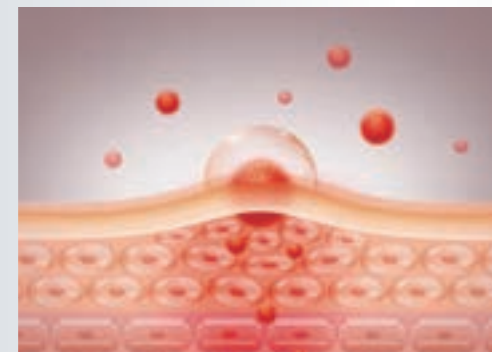
With Glacial Spa applied, melanin is significantly reduced without any damage to cells.

*Data Source: Preliminary Study on Cell Experiments of R2 Epidermal Cryotherapy Mechanism conducted by East China Normal University in 2020, at the request of East China Pharmaceutical Co., Ltd.

Repairing Redness at the Source



Low and precise-temperature treatments can improve capillary edema and nerve sensitization in the deep skin, directly eliminating the source of redness and sensitivity, thereby repairing and relieving skin redness.



It targets the underlying skin to precisely cool the source of redness, allowing efficient recovery and maintaining skin stability.

Soothing Allergies, Repairing Redness, and Preventing Melanin Pigmentation



Before treatment

After treatment

Before treatment

After treatment

*Data Source: Preliminary Study on Cell Experiments of R2 Epidermal Cryotherapy Mechanism conducted by East China Normal University in 2020, at the request of East China Pharmaceutical Co., Ltd.

Even and Pure Whitening

Strengthening the Barrier, Brightening the Skin

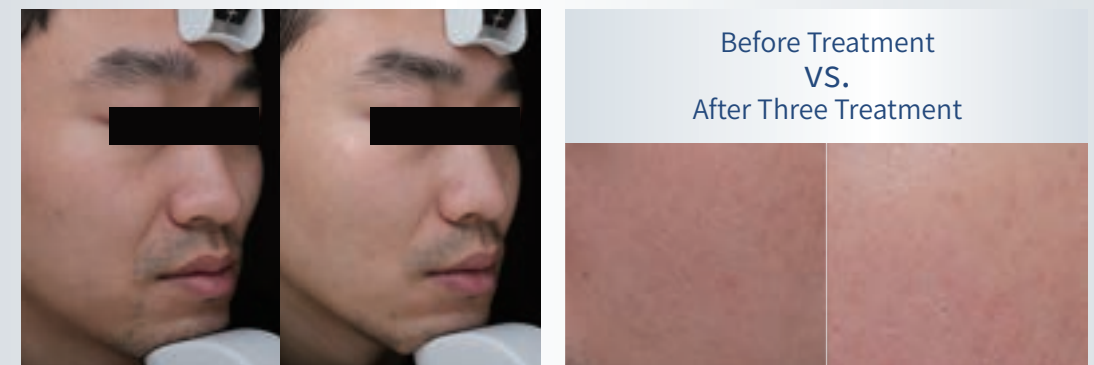
Suppress melanin, repair redness, and effectively enhance the skin's self-repair ability to make the skin barrier healthier and stronger in resisting light-heat aging for effective whitening and brightening.



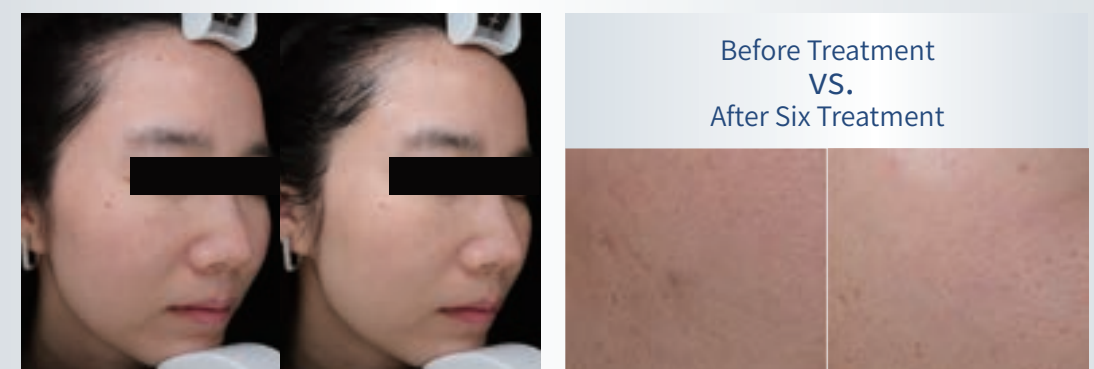
Effects Before and After Treatment



Improved redness and reduced dull skin resulting in a brighter complexion.



Improved dullness resulting in brighter and soft skin.



Brighter, improved skin quality, and stabilized skin condition.

*Data Source: Internal laboratory results of Glacial Spa. Clinical observations were conducted on 28 subjects in total from March to December 2023 to assess the safety and effectiveness of Glacial Spa. VISIA tests were conducted before and after each treatment, revealing a decrease in dullness and redness. Conclusions were drawn based on subjects' questionnaires.

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Cooling-Based Whitening from the Source:
Suppressing Melanin & Reducing Redness

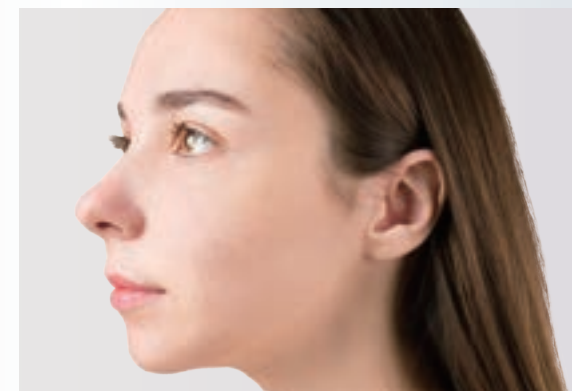
90% agreed
with
its function to suppress
melanin & reduce redness

100% agreed
with
it being a safe and
comfortable treatment

Recommended Course of Treatment

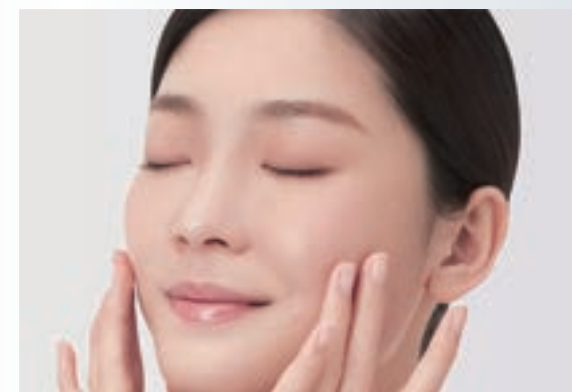
Three Treatments to Brighten and Repair Dull Skin

Achieve delicate skin with
Glacial Spa treatment every two
weeks for three consecutive
sessions.



Six Treatments for Even and Clear Brightening

After six sessions with Glacial Spa,
experience melanin suppression,
redness repair, and a stabilized
skin condition.



Experience a Long-lasting Cool-White Effect.

Enhancing the color, texture, and
self-repair ability of the skin,
offering lustrous white skin after
six sessions of Glacial Spa
treatments followed by
monthly maintenance.

