

PHOTOBIOSTIMULATION

DERMO BIOLED grounds its operating principle on a scientific phenomenon called **Photobiostimulation** that means "create life with light". When specific lights stimulate our tissues, skin cells start to reactivate their energy metabolism: the damaged cells can be healed, mitotic cells increase the replication and the cells with specific functions perform their task in a faster and more efficient way.

How it works

DERMO BOILED, emitting specific wavelengths (scientifically studied), generates light beams that differ in colour: red, infra-red, blue and yellow. Each light, applied to the face, hands and body, stimulates skin photoreceptors, causing a biochemical chain reaction and inducing a cellular response in order to heal skin diseases and promote the natural process of SKIN RENEWAL.



The Cell

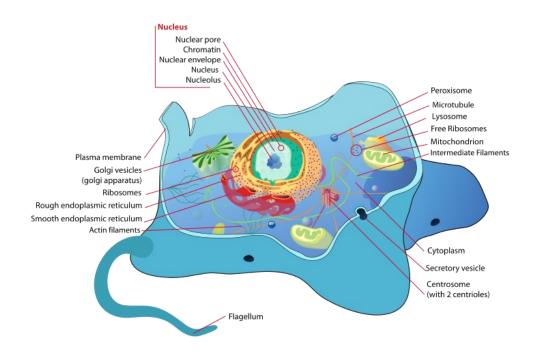
The cell is the basic structural, functional and biological unit of all known living organism. Cells are the smallest unit of life that can replicate independently, and are often called the "building blocks of life". The human body, in fact, contain about 60 trillion cells. Each cell is constituted by:

- Cell membrane: This membrane serves to separate and protect the cell from its surrounding environment and is made mostly from a double layer of phospholipids;
- Cytoplasm: it is a aqueous solution contained in the cell;
- Organelles: they are parts of the cell which are adapted and/or specialized for carrying out one or more vital functions;

Organelles

There are several types of organelles in a cell:

- Ribosomes: they translate RNA into protein;
- **Mitochondria**: the main function is to product energy from the oxidation of glucose substances and to release adenosine triphosphate (ATP);
- Endoplasmic reticulum and Golgi apparatus: they sort, package, process and modify the proteins;



Light Source

A Light Emitting Diode (LED) is a particular source of light, which has the characteristic of being:

- Non-ablative: it does not induce ablation (Ablation is the removal of material from the surface of a tissue, due a local temperature increase, produced by light energy);
- Athermal: it does not transmit heat;
- Noncoherent: the light emitted isn't stationary;
- Monochrome: the emission has a single wavelength and therefore a single colour;
- **Do not collimated**: the rays are divergent. These sources are capable of irradiating a wide surface maintaining low levels of power.

Not all types of LED are suitable to be used in the field of Photobiostimulation: the cell, in fact, reacts just to certain types of light.

The light sources capable of inducing real biological effects are those that act in the visible spectrum and in the near infrared (NIR). The wavelengths out of this range do not affect biological tissue.

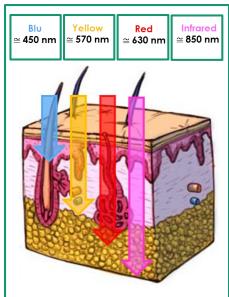
Dermo bioled uses four specific and well-defined LED sources:

BLU LED: wavelength [405-490 nm]

YELLOW LED: wavelength [550-590 nm]

RED LED: wavelength [610-650 nm]

INFRARED LED: wavelength [810-890 nm]



The difference in wavelength is of primary importance in determining the biological effect: higher is the wavelength, greater is the penetration into the skin.

Furthermore, to be sure that there is a concrete effect on tissues and on the cellular metabolism, it is necessary to have an adequate number of LEDs, so that they may reach the power necessary to induce a cellular response. The LEDs are in fact arranged on particular matrices that allow an **integration of a huge number of sources**.

Light- Cell Interaction

Primary Mechanism

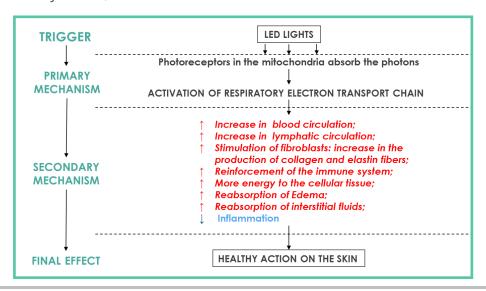
Dermo Bioled, emitting photons with a specific wavelength and a specific colour, is able to induce significant changes in the equilibrium of irradiated cells.

Specifically, the photosensitizer LED lights act on the cell, activating mitochondria and increasing, in this way, energy and cell functions: the wavelengths, absorbed by Cu centres in cytochrome C oxidase (the last enzyme in the respiratory electron transport chain of mitochondria), enhance the transport of the electrons stimulating the mitochondrion membrane to produce ATP (adenosine triphosphate, the fuel that cells utilize to perform all cellular activities).

Secondary Mechanism

Mitochondria are also an integral part of many cellular signals, in fact, the increase in the production of ATP generates, consequently, a huge number of biological effects (chain reaction) that influence the whole human metabolism.

- Increase in blood circulation;
- Increase in lymphatic circulation;
- Athermal Vasodilation;
- Reabsorption of Edema;
- Reabsorption of interstitial fluids;
- Detoxification of the tissues;
- Stimulation of fibroblasts: increase in the production of collagen and elastin fibers;
- Reinforcement of the immune system;
- More energy to the cellular tissue;
- Anti-inflammatory effect;



Results

- Anti-aging action, skin rejuvenated and glowing;
- Compact and smooth skin texture;
- Reduction of hyperpigmentation caused by aging and sun damage on face, hands, neckline and décolleté;
- Reshaped and toned up Body;
- Strong and healthy hair. Reduction of hair loss and regeneration of new follicles;
- Regression in skin problems and skin diseases (acne, eczema , dermatitis, psoriasis, ...);
- Improvement in blood circulation and reduction of swelling (lower limbs and abdomen areas);
- Reduction of after surgery scarring and strong antiseptic effect;
- Relax Effect, the skin appears brightest.



- Purifying action on impure and acneic skin
- Sebum-regulating and antibacterial action
- Speeding up skin cell turnover rate



- Reduction of swelling
- Reduction of actinic and senile damages
- Effectiveness on redness and irritated skin



- IR Light
- Improvement in skin texture and perfusion
- Anti-inflammatory effect
- Production of trophic factors



- Antiaging stimulation of collagen synthesis
- Whitening action: homogeneous skin tone
- Soothing effect

Innovations and Features

Main Unit

It's equipped with two multi-purpose shelves and an integrated handle for easy movement.

Thanks to this highly functional design is possible to execute, easily, any kind of treatment for both face and body.



Face/Body Emitter

It is positioned on an articulated arm. It has 2128 LED and two wide illuminating surfaces (240 x 332 mm each one).

Handles allow to adjust the position during the treatment in a very easy way and without obstacles.

Hands Emitter

The hands Emitter (optional) is applied directly to the professional chair so that the treatments are more comfortable and rapid.

It is an innovative and distinctive tool that allow to treat the blemishes of the hands, being comfortably lounging on the chair. The Hands Emitter, in fact, having a huge structure of Red LEDS, promotes the skin rejuvenation: it reduces the hyperpigmentation, caused by aging and sun damage, and offers a new brightness and firmness to the skin.

Professional Chair

The **professional and ergonomic** chair, combines sophistication and elegance in design with comfort and ease of use.

Equipped with a tilt gas mechanism, it con reach an inclination of 48°, allowing a comfortable position of the body during the treatment and an immediate sense of relaxation.

The seat, adjustable in height by means of an hydraulic piston, can perform a **rotation of 360**° and is equipped, in addition, with a special **locking system**.

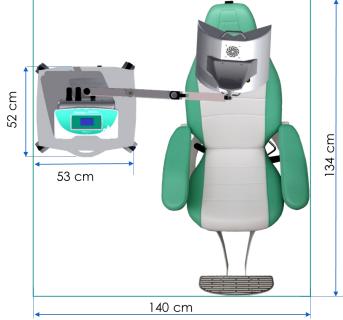
The **feet-holder**, removable and made of stainless steel, guarantees cleanliness an hygiene, avoiding the formation of unpleasant signs of wear.

The **armrest** are designed to allow a stable positioning of the "Hands Emitter".







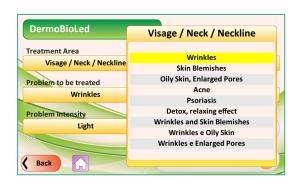


Software and Interface

- Intuitive interface: 7" Colour Touch Screen
 Display;
- After entering few data (personal data, physical parameters, characteristics of the problem to be treated) a sophisticated software automatically generates and stores the User Profile, scheduling a list of treatments that better fits with user data;
- The interface is user friendly and based on a wizard that guides you step by step in order to complete the User profile in few minutes;
- Data and scheduled treatments, performed by each Users, are stored in a Pen Drive;
- The software, being automatic and easy to use, reduces the processing time, improving and optimizing the organization of work and the use of resources, materials and money involved;









Marking

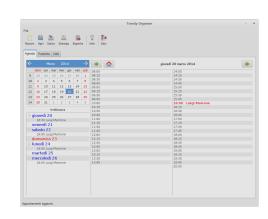
The system is available with different markings:

- CE standard marking (2004/108/EC EMC Directive 2006/95/CE : LV)
- CE Medical Marking (0476) (2007/47/EC)
- CE Special Marking: it avoids the mandatory use of cosmetic/aesthetic cabins;

Organizer Software

Dermo Bioled's software communicates with the Organizer software on your PC through a USB pen drive.

 It automatically creates a databasemanagement agenda (Planning Function): a modern and useful tool that allows to manage of all appointments;



- Software synchronization and updating on PC via USB;
- Programming therapies at a distance: the software for PC allows to manage the treatments for each customer. This information, stored in a file, can be transferred to the USB stick and loaded on the device that will be ready to start a treatment;
- Creating a follow up calendar for the customer:

 it contains dates of appointments, logos,
 information and an informative or promotional message.



Training Course

A training course teaches you the skills and knowledge for a safe and correct use of the devices. At the end of the training course, Eurtronik will give you a certificate of participation.



Fields of Application

The special algorithm installed on DERMO BIOLED, interpreting the physical characteristics of the user, starting from 44 basic **programs**, automatically combines a series of treatments adapting them to the problem to be treated.

Each photo-therapy is characterized by the alternation of lights of various colour and intensity, (multi-phase treatment) so as to act on different tissue layers and solving many types of imperfections and skin problems.

These functional and performance characteristics are unique and exclusive!!

Field	Treatment	Anatomic area
	Fine wrinkles: barely visible	
	Deep wrinkles: unchanged static lines	
	Moderate wrinkles: dynamic lines	
ANTI-AGEING	Rapid rejuvenation	-
PHOTO RENJUNENATION	Rejuvenation and cutaneous hyperpigmentation	
17 treatments to rejuvenate: adapted to different skin types	Fine wrinkles, oily skin and blemishes	-
and different degrees of aging,	Deep wrinkles, oily skin and blemishes	
these treatments combine the	Moderate wrinkles, oily skin and blemishes	
rejuvenating effect with other important actions such as	Fine wrinkles, shiny skin and dilated pores	Face, neck,
depigmentation, relaxation,	Deep wrinkles, shiny skin and dilated pores	décolleté
sebum regulation,	Moderate wrinkles, shiny skin and dilated pores	
Skin appears younger and	Fine wrinkles and visible cutaneous hyperpigmentation	
bright, the dermal texture is more compact and smooth.	Deep wrinkles and visible cutaneous hyperpigmentation	
	Moderate wrinkles and visible cutaneous hyperpigmentation	
	Fine wrinkles and relaxation	
	Deep wrinkles and relaxation	
	Moderate wrinkles and relaxation	

Field	Treatment	Anatomic area	
HYPERPIGMENTATION AND BLEMISHES	Redness		
3 treatments suitable in case of irritated skin, presence of redness, telangiectasia, skin marks (both senile and actinic). Strong action on brown and red	Pigmentation disorders	Face, neck, décolleté	
pigmentation. Skin appears vital and luminous, the skin tone is homogeneous and healthy.	Café-au-lait macules		
ACNE	Slight acne		
4 treatments act against acne with different	Mild acne	Face, neck,	
degrees of intensity, solving inflammation problems, seborrhea (excessive production of sebum),	Moderate acne	décolleté	
comedones, papules, pustules and cysts.	Severe acne		
SEBUM REGULATION 2 useful treatments in case of seborrhea,	Oily skin, excess of sebum and blemishes	Face, neck, décolleté	
imperfections of the skin, enlarged pores, dull and shiny skin. The skin is regenerated, fresh and relaxed.	Shiny skin and overly dilated pores		
SCALY SKIN	Mild to moderate scaly skin		
2 treatments useful in case of scaly and cracked skin with different degrees of extension.	Severe scaly skin	Face, body	
	Thinning hair		
HAIR TREATMENTS	Regeneration and oxygenation		
6 treatments that adapt to various conditions of the	Abundant oily hair	Llair and Coaln	
hair and scalp. Hair appears stronger, healthier and bright. Strong reinvigorating and antibacterial	Thin oily hair	Hair and Scalp	
action.	Oily scalp		
	Antibacterial action		
SEASONAL STRESS Relaxing, detoxifying and invigorating treatment.	Relaxation and depurative effect	Body	

Field	Treatment	Anatomic area
HANDS TREATMENTS	Antiaging and regeneration	
4 treatments to rejuvenate and renew the skin, remove blemishes	Pigmentation disorders (hyperpigmentation and	l landa
and soothe the hands in case of dry, chapped skin.	Combo action (regeneration and depigmentation)	Hands
	Chapped skin and redness	
BODY TREATMENTS	Reshaped body	
5 treatments to slim the silhouette, promoting lymphatic drainage and	Deep regeneration	
and cellulite (also the oedematous	Drainage and circulation	Body
type). Tissues are regenerated in the deep; skin regains firmness,	Cellulite	
smoothness appearing toned up and healthy.	Oedematous cellulite	

DIVABEAUTY Cosmetic Line

Cleansers, serums, creams and masks DIVABEAUTY are specially formulated to be effective, safe and able to regenerate and nourish the tissues.

- DIVABEAUTY PROFESSIONAL Cosmetic Line: available in the better beauty salons, it has been developed to be used before and after each photo-treatment!!
- DIVABEAUTY HOME Cosmetic Line: using these products at home, the amazing effect produced by the light of DERMO BIOLED will be long lasting!!

DIVABEAUTY PROFESSIONAL Cosmetic Line



1. CLEANSING

Clean the skin from make-up and impurities is the first step to start a successful phototherapy treatment. Cleansed skin guarantees, in fact, that the light emitted from DERMO bioled arrives in a homogeneous manner on the skin and reaches the deeper layers. This ensure immediately a safe, quick and effective therapy!!

Micellar Water and Skin Balancing Cleanser



2.STRENGTHENING

Serums and gels are special cosmetic products that, thanks to their fluid, fresh and light texture, are quickly absorbed by skin creating a protective film that retains water at the surface. Containing active ingredients in concentrated form, DIVABEAUTY'S serums and gels hydrate and tone up the skin, preparing it to receive the energy of the light!

Serums and gels



3.LIGHTENING

The energy of the light, by acting on nanomolecules that are in all DIVABEAUTY products, activates the process of "Permeance" (the penetration of the functional agents through the skin). The action on the skin is done in real time, and the tissues are nourished even in the deepest layers!

Light



4.MANTAINING

To complete the skin care and to ensure the long the beneficial effects produced by DERMO BIOLED, it is extremely important to moisturize and nourish the skin using creams DIVABEAUTY! Thanks to the natural substances they are made of and thanks to the high technology from which they derive, these products regenerate, revitalize and detoxify the skin, lightening and protecting the treated areas!

Creams

	Skin CLEANSING				
	Name	Features	Areas		
1	BWF (BEAUTY WATER FACE)	With extracts of lemon, orange and blueberry, it moisturizes, cleans and tones up with just one gesture	Face		
2	BWB (BEAUTY WATER BODY)	It gently cleanses and normalizes pH of the epidermis improving the absorption of functional ingredients contained in the products DIVABEAUTY.	Face/Hands		
		Pre-treatment SERUMS for FACE AND HANDS			
	Name	Features	Areas		
3	PRE YAS (YOUNG AGE SERUM)	Moisturizing, nourishing and anti-aging; it effectively fights the formation of free radicals.	Face/Hands		
4	PRE PFS (PURITY FACE SERUM)	Useful in the cosmetic treatment of oily, impure and acne- prone skin, it detoxifies, normalizes and balances the epidermis.	Face		
5	PRE PAS (PREMIUM AGE SERUM)	It slows down the action of free radicals and fights oxidative stress that is the main responsible of skin aging.	Face/Hands		
6	PRE LUS (LIGHT UP SERUM)	Cosmetic treatment of the skin prone to discoloration and hyperpigmentation.	Face/Hands		
	Post-treatment CREAMS for FACE AND HANDS				
	Name	Features	Areas		
7	POST YAC (YOUNG AGE CREAM)	Nourishing, moisturizing and anti-aging; It acts on skin which is dry, dehydrated and with wrinkles.	Face/Hands		
8	POST PFC (PURITY FACE CREAM)	It helps to detoxify, moisturize, balance and normalize the skin; it acts especially on oily and acne-prone skin.	Face		
9	POST PAC (PREMIUM AGE CREAM)	Antiaging action; It helps to reduce discoloration and slows down the action of free radicals that cause wrinkles and grey skin.	Face/Hands		
10	POST LUC (LIGHT UP CREAM)	It helps to reduce skin spots both actinic and senile.	Face/Hands		

Pre-treatment BODY GELS				
	Name	Features	Areas	
11	PRE FBG (FIRM-UP BODY GEL)	It helps to firm, tone and moisturize the skin in order to give a beneficial effect on hypotonia, cellulite and stretch marks.	Body	
12	PRE NSG (NEW SHAPE GEL)	It helps in the treatment of cellulite and fat deposits thanks to its remodeling and slimming action.	Body	
		Post-treatment BODY CREAMS		
	Name	Features	Areas	
13	POST OPC (OXIPOWER CREAM)	Oxygen supports cellular regeneration in the deeper layers of the skin proving to be a valuable aid in the cosmetic treatment of cellulite, fat, orange peel skin, hypotonia and tissue relaxation.	Body	
14	POST FBC (FIRM-UP BODY CREAM)	It helps to fight the reduction of tone and stretch marks;it has a firming, plumping and nourishing action.	Body	
15	POST NSC (NEW SHAPE CREAM)	Useful in the cosmetic treatment of cellulite (in its various degree - hypotonic and hypertonic), adiposity, orange-peel skin and sagging skin; it is ideal to obtain remodeling, slimming and firming effects.	Body	
16	POST CAC (CELLUL-ALT CREAM)	Remodeling, deflating, draining and slimming action; It helps to fight cellulite and localized fat.	Body	
		HAIR PRODUCTS		
	Name	Features	Areas	
17	RHL (RESISTANCE HAIR LOTION)	Acting on the scalp, it helps to improve the state of brittle, weak and thin hair; reinforcing, substantivizing and moisturizing action.	Hair and scalp	
18	BHL (BALANCE HAIR LOTION)	Lotion with strengthening, rebalancing and moisturizing action; it helps to fight hair loss making hair healthy and bright.	Hair and scalp	
19	SHL (SEBUMSTOP HAIR LOTION)	Acting on oily hair in a gentle and natural way, it helps to regulate sebum production and restructure and hydrate hair.	Hair and scalp	

DIVABEAUTY HOME Cosmetic Line

DIVABEAUTY HOME is the cosmetic line to use at home. It ensures that the excellent results achieved with DERMOBIOLED last longer over time, and that subsequent sessions of photomodulation will be even more effective! The line, made up of everyday products (cleansers, creams, serums and lotions) and products for a weekly use (face and body masks), completes the program for health and beauty of face, body and hair!

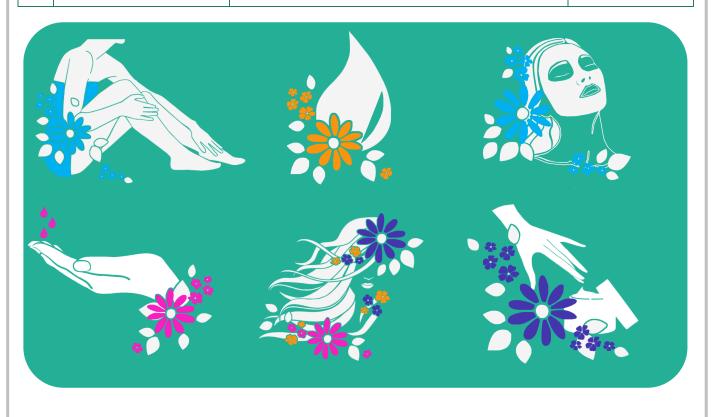
Combined with the specific phototreatment made by the User, the products of the DIVABEAUTY HOME LINE represent another example of care and attention to the Customer: completing and defining, from a cosmetic point of view, the process started with DERMO BIOLED and with the PROFESSIONAL COSMETIC LINE, DIVABEAUTY HOME "takes the customer home" keeping alive the sense of consideration and professionalism breathed in the beauty salon, and preparing the skin for subsequent treatments with DERMO BIOLED!!



	Skin CLEANSING				
	Name	Features	Areas		
20	BWF HOME (BEAUTY WATER FACE)	With extracts of lemon, orange and blueberry, it moisturizes, cleans and tones up with just one gesture	Face		
21	BWB HOME (BEAUTY WATER BODY)	It gently cleanses and normalizes pH of the epidermis improving the absorption of functional ingredients contained in the products DIVABEAUTY.	Face/Hands		
		SERUMS for FACE AND HANDS			
	Name	Features	Areas		
22	YAS HOME (YOUNG AGE SERUM)	Moisturizing, nourishing and anti-aging; it effectively fights the formation of free radicals.	Face/Hands		
23	PFS HOME (PURITY FACE SERUM)	Useful in the cosmetic treatment of oily, impure and acne- prone skin, it detoxifies, normalizes and balances the epidermis.	Face		
24	PAS HOME (PREMIUM AGE SERUM)	It slows down the action of free radicals and fights oxidative stress that is the main responsible of skin aging.	Face/Hands		
25	LUS HOME (LIGHT UP SERUM)	Cosmetic treatment of the skin prone to discoloration and hyperpigmentation.	Face/Hands		
	CREAMS for FACE AND HANDS				
	Name	Features	Areas		
26	YAC HOME (YOUNG AGE CREAM)	Nourishing, moisturizing and anti-aging; It acts on skin which is dry, dehydrated and with wrinkles.	Face/Hands		
27	PFC HOME (PURITY FACE CREAM)	It helps to detoxify, moisturize, balance and normalize the skin; it acts especially on oily and acne-prone skin.	Face		
28	PAC HOME (PREMIUM AGE CREAM)	Antiaging action; It helps to reduce discoloration and slows down the action of free radicals that cause wrinkles and grey skin.	Face/Hands		
29	LUC HOME (LIGHT UP CREAM)	It helps to reduce skin spots both actinic and senile.	Face/Hands		

		BODY GELS			
	Name	Features	Areas		
30	FBG HOME (FIRM-UP BODY GEL)	It helps to firm, tone and moisturize the skin in order to give a beneficial effect on hypotonia, cellulite and stretch marks.	Body		
31	PRE NSG HOME (NEW SHAPE GEL)	It helps in the treatment of cellulite and fat deposits thanks to its remodeling and slimming action.	Body		
		BODY CREAMS			
	Name	Features	Areas		
32	OPC HOME (OXIPOWER CREAM)	Oxygen supports cellular regeneration in the deeper layers of the skin proving to be a valuable aid in the cosmetic treatment of cellulite, fat, orange peel skin, hypotonia and tissue relaxation.	Body		
33	FBC HOME (FIRM-UP BODY CREAM)	It helps to fight the reduction of tone and stretch marks;it has a firming, plumping and nourishing action.	Body		
34	NSC HOME (NEW SHAPE CREAM)	Useful in the cosmetic treatment of cellulite (in its various degree - hypotonic and hypertonic), adiposity, orangepeel skin and sagging skin; it is ideal to obtain remodeling, slimming and firming effects.	Body		
35	CAC HOME (CELLUL-ALT CREAM)	Remodeling, deflating, draining and slimming action; It helps to fight cellulite and localized fat.	Body		
	HAIR LOTIONS				
	Name	Features	Areas		
36	RHL HOME (RESISTANCE HAIR LOTION)	Acting on the scalp, it helps to improve the state of brittle, weak and thin hair; reinforcing, substantivizing and moisturizing action.	Hair and scalp		
37	BHL HOME (BALANCE HAIR LOTION)	Lotion with strengthening, rebalancing and moisturizing action; it helps to fight hair loss making hair healthy and bright.	Hair and scalp		
38	SHL HOME (SEBUMSTOP HAIR LOTION)	Acting on oily hair in a gentle and natural way, it helps to regulate sebum production and restructure and hydrate hair.	Hair and scalp		

		FACE MASKS	
	Name	Features	Areas
39	PFM (PURITY FACE MASK)	Thanks to its active ingredients it assists in the dermocosmetic treatment of oily, impure and acneprone skin. It has a detoxifying, normalizing, balancing and moisturizing effect.	Face
40	PAM (PREMIUM AGE MASK)	Slowing down the action of free radicals, it fights oxidative stress, aging and skin blemishes; It helps to restore and balance the production of sebum depending on the skin hydration level.	Face
41	YAM (YOUNG AGE MASK)	Thanks to its moisturizing, anti-aging, toning and velvety action, it is suitable for the cosmetic treatment of all skin types especially of those tending to dryness, dehydration and wrinkles.	Face
		BODY MASKS	
	Name	Features	Areas
42	RMM (RICHENAU MUD MASK)	It helps in treatment of cellulite, orange-peel skin, adiposity, oedema and swelling, hypothermic skin, stretch marks, hard or hypotonic tissue with potentially thick, keratosis skin; It has a remodelling, slimming, firming and toning action.	Body



Benefits and innovations

CUSTOMER'S BENEFIT	BENEFIT FOR YOU	INNOVATIONS
Treatments scientifically determined	New addition on market	Treatments automatically determined
Evidence of aesthetic results	Essential oils and natural creams DIVABEAUTY especially made phototherapy treatments	Interactive guide and intuitive interface
Treatments on face, hands, neckline, décolleté and body	The customer is satisfied	Treatments based on scientific researches
No waiting time and possibility to perform multiple treatments at the same time	Easy to use	Pre-set protocols
Therapy is not painful and very relaxing	Safety	Face/Body Emitter positioned an articulated arm
Sense of assurance	Free Advertising	Fast updates with USB key
Huge number of treatments	Organization	Hands Emitter applied to the professional chair
Comfort	Customer database with management of treatments calendar	Professional and ergonomic chair

DERMO BIOLED
TECHNOLOGY AND COSMETICS
TO VALORISE YOUR BEAUTY!!

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Note	



Dermo







Eurtronik S.r.l.—unipersonale

Via G. Di Vittorio 16/D - 40013 Castel Maggiore (BO)

Phone +39 051 703284

Fax +39 051 700904

E-mail info@eurtronik.it

www.eurtronik.com