

# MPR TOROIDAL RF

## A FOCUSED TOROIDAL APPROACH



**Innovative  
toroidal  
technology**  
that overcomes other  
systems' limits



# KEY INDICATIONS

The MPR Toroidal RF system is designed to tighten the skin using radiofrequency. It is the perfect method to treat gently skin slackening:

## FACE AND NECK

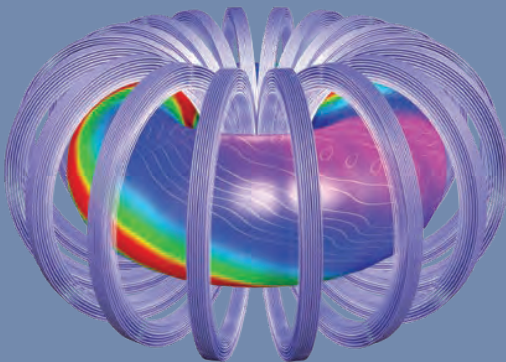
- Improves moderate slackening
- Smoothens wrinkles and fine lines

## BODY

- Tightens the skin of the belly, arms, thighs, knees and buttocks
- Triggers a loss in volume (arms, belly, thighs)
- Improves cellulite appearance and stretch marks

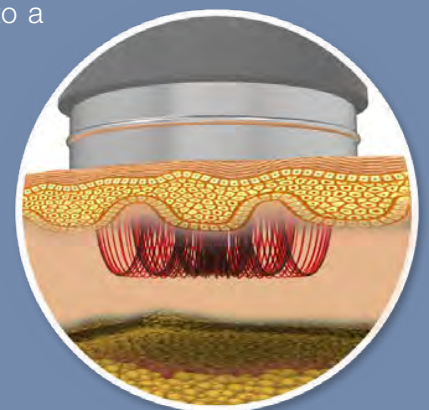


# RETHINKING ENERGY DISTRIBUTION: TOROIDAL DIFFUSION



The MPR system is based on an exclusive **toroidal technology** that allows harmonized and targeted heat distribution across several skin tissue layers: The active electrode that comes into contact with the skin features several round transmitters that enlarge, unify and optimize energy fields in a toroidal way, which helps them overlap each other, increasing the power and efficiency of the MPR system, so-called volumetric energy.

The electric fields that are created between the rings in a toroidal way reach out to a wider skin surface allowing to target and treat subcutaneous layers at different depths. The distance between two rings will determine the active surface. The skin penetration depth may vary from 5 to 20 mm. It will range from 2.5 mm to 10 mm (face or body). The power that refers to the ratio of RF energy per treated zone will not exceed 200 V when it comes to treating the face. The power may go up to 300 V for the body.



# CONTROLLING THE TEMPERATURE OF THE MPR

Using a toroidal configuration helps safely reach the therapeutic temperature that is required for the treatment. The temperature then will keep at a comfortable intensity.

During the procedure, the temperature is constantly displayed on the screen making the use of an infrared thermometer unnecessary.

## TECHNOLOGY THAT OVERCOMES THE LIMITS OF EXISTING SYSTEMS



*No pain or discomfort*

*An equal and continuous distribution of energy that is crucial to reshape the connective tissue*

*More tissue treated at a time due to the toroidal configuration of energy fields*

### TECHNOLOGY DIFFERENCES

MULTIPOLAR TECHNOLOGY	TOROIDAL TECHNOLOGY (MPR)
Transmission by pole	Transmission by tore
RF energy divided among many poles (bipolar, 3-pole or else)	Volumetric energy is equal
Energy reaches smaller specific area, no matter the intensity	Wider surface and tissue treated
Hard to control, may lead to very high temperatures with risk of burning	Better control of temperature variations (gradual and controlled heating of the tissue)



# FOR A GENTLE, NON-INVASIVE PROCEDURE

RF triggers a raise of the skin temperature on deep levels of the target area in a gentle and controlled way, which produces a moderate layover of collagen and elastin fibers.

## MPR SAFETY FEATURES

The MPR is equipped with many safety features



### **VISUAL ALARM:**

A double LED light signal on the hand piece and on the central unit indicates:

- Appropriate positioning of the electrode
- RF power transmission and intensity through the electrode in-use
- The reaching of the therapeutic temperature



### **STOP SIGNAL:**

An advanced programming removes temperature shocks, which are frequently encountered with RF. The current is activated only when it comes into contact with the skin and it stops when there is no more contact.



### **SOUND ALARM:**

A sound alarm informs the operator that the therapeutic temperature has been reached, reducing the risk of burning.



# CLINICALLY PROVEN RESULTS

Designed by experts under scientific supervision, the MPR Toroidal RF System has been subject to two types of experimental tests: in vitro and clinical, thus ensuring a highly safe treatment and scientifically proven results.

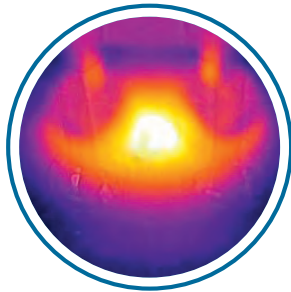
In vitro tests have proven a more efficient distribution of energy onto the target surface.

On the other hand, a thermal image on transversal section shows a more even distribution of heat and a more standard penetration of energy across the target area.

## ENERGETIC FLOW AND IN VITRO HEAT

### SERIES 1

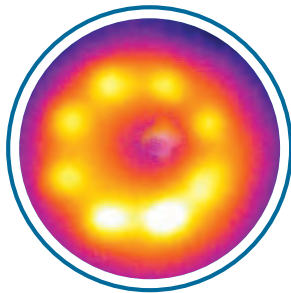
The thermal print of the skin that is taken on the surface of the sample (piece of meat) shows that the heat goes up to 5 cm in depth.



- RF focused between two poles
- Active surface ratio treated by RF:

15%

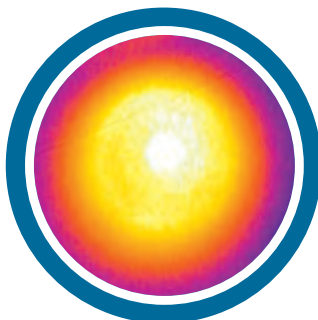
A. BIPOLAR THERMAL IMAGE



- RF focused around individual poles
- Active surface ratio treated by RF:

33%

B. MULTIPOLAR THERMAL IMAGE



- RF spreads equally on the whole surface
- Active surface ratio treated by RF:

100%

MPR  
TOROIDAL RF

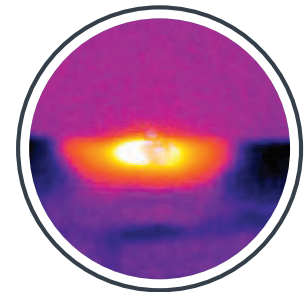
C. TOROIDAL THERMAL IMAGE\*

\* You may notice an equal raise of the heat into the tissue on a wider surface with the toroidal technology compared to other technologies

## IN VITRO PENETRATION OF THE ENERGY

### SERIES 2

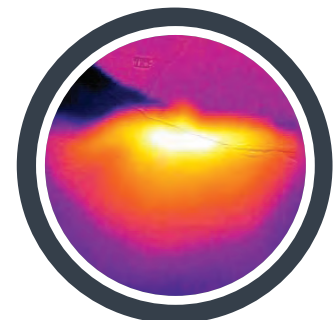
Thermal image taken on a transversal section at a distance of 5 cm from the sample.



A. BIPOLAR PENETRATION



B. MULTIPOLAR PENETRATION



MPR  
TOROIDAL RF

C. TOROIDAL PENETRATION

# FOR YOUNGER SKIN LOOKING TIGHTER AND SMOOTHER

Clinical trials were conducted over a 6-month period and involved fifteen participants for face and body treatments. At the end of the treatment regimen, the results proved highly effective.

Over the following weeks, the treatment continued to exert its influence. Gradually, the treated area was tightened, wrinkles appearance got improved.

The following observations were made:

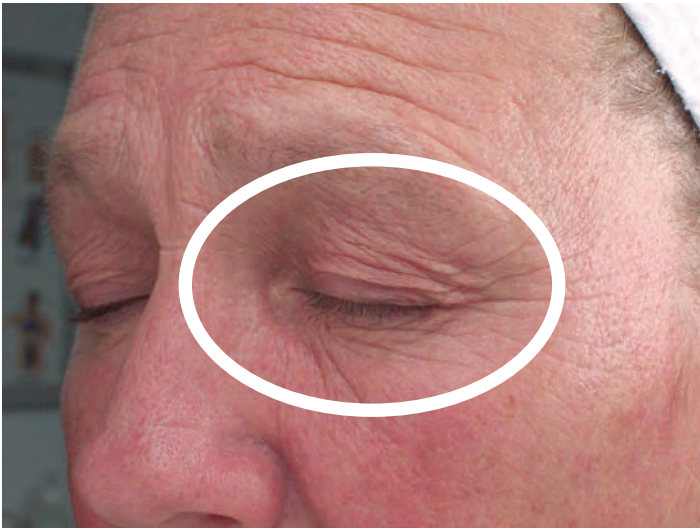
- *Overall improvement of the skin's appearance. Skin is tensed and crows' feet appearance is smoothed leading to an opening of the regard, a reduction in nasolabial and bitterness folds, and a reduction in neck skin laxity and the area below the chin sagging.*
- *Improved tightening of the arms, abs, thighs and buttocks.*
- *Increased skin firmness after just one session and improved elasticity and skin texture*
- *Tightening effect safely obtained with no downtime compared to more invasive techniques or surgery.*





# ALL OVER THE FACE AND NECK

We notice improved toning and smoothing of the neck and face's skin. The skin also gets more elastic.



BEFORE



AFTER A SERIES OF 10 SESSIONS PER WEEK



BEFORE



1 MONTH AFTER A SERIES OF 12 SESSIONS PER WEEK



BEFORE



1 MONTH AFTER A SERIES OF 12 SESSIONS PER WEEK



# OR THE BODY

The skin is stretched. The arms, thighs and belly look visibly slimmer. The loss in volume can be measured. Cellulite and stretch marks appearance is improved.



BEFORE



1 MONTH AFTER A SERIES OF 10 SESSIONS PER WEEK



BEFORE



AFTER A SERIES OF 6 SESSIONS PER WEEK



BEFORE



AFTER A SERIES OF 9 SESSIONS PER WEEK

# THE MOST EFFICIENT AND COMFORTABLE TECHNOLOGY ON THE MARKET

*The uniqueness of our technology is based on the precision, steadiness and homogeneity of energy distribution for body and face skin treatments. The numerous benefits of our precise and even toroidal distribution system (TDS) allow comprehensive smoothing of the wrinkles and deeper and stronger tightening of the skin. These outstanding results can be obtained with fast and easy treatments.*

Dr. Mihaela Ungur  
MD, M.Sc.A., MBA  
Scientific and Regulatory Affairs Dir.

## BENEFICIAL TO THE BEAUTY PROFESSIONAL

- The most effective treatment on the market;
- Safe and efficient thanks to the control of the therapeutic temperature that favors skin tightening; also the biocompatibility of materials-ISO 10993 certified, ensures a safe treatment;
- User-friendly, intuitive interface;
- Ergonomic and comfortable with the ingenious design of its electrodes helping the operator focus on the treatment;
- No need for sedation prior to the treatment or cooling after the treatment.

## ...AND FOR THE CLIENT

- Non-invasive skin tightening;
- Suitable for all types and colors of skin;
- Specific face and body areas;
- Comfortable and painless;
- No downtime;
- Long-lasting results.



# MPR

## TOROIDAL RF



### MPR FEATURES\*

Voltage:	120/230 V~, 60/50 Hz
Fuse:	T1.5 AL (250 V)
Level of protection of applied parts:	BF type
Waterproofing category:	IPX0
Input power:	1.0 A / 0.75 A
Protection class:	1 (with grounding)
Tolerance/displays accuracy:	± 15%
Output frequency:	1 MHz
Maximum voltage:	300 V
Dimensions	
Height:	45 in / 1140 mm
Width:	18 in / 460 mm
Depth:	18 in / 460 mm
Electrodes diameter	
Face:	1.6 in / 40 mm
Body:	2.0 in / 50 mm
Weight:	30 Kg / 65 lbs
Build:	Kydex case
Electronics:	
Ambient air temperature for use:	Controlled by microchip +10 °C to 40 °C
Ambient humidity for use:	30% to 75% RH Ambient
Ambient pressure for use:	700 hPa to 1060 hPa
Certification:	IEC-60601
Biocompatibility class:	ISO-10993

(\*) Certified compliant with the following guidelines:

CAN/CSA C22.2 No. 60601 – 1:2008 excluding biocompatibility (clause: 11.7), use (clauses: 7.1.1, and 12.2), PEMS (clause 14) and clauses EMC 7.9.2.2 and 17/CAN/CSA C22.2 No. 60601-2-2:2009 excluding EMC (clause 17)

UL 60601-1:2003 excluding EMC (clauses 6.8.2, and 36), Biocompatibility (clause 48), and PEMS (clause 52.1 while it is covered by IEC

60601-1-4). ANSI/AAMI ES 60601-1/A2:2010 excluding biocompatibility (clause 11.7), use (clauses 7.1.1, and 12.2), PEMS (clause 14) an EMC (clauses 7.9.2.2 and 17), IEC 60601-2-2:2009 excluding EMC (clause 17)



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**ABOUT SILHOUET-TONE CORPORATION**

Founded in 1965, Silhouet-Tone is considered a leader in medical esthetics science. Manufacturer of medical esthetic equipment and furniture, Silhouet-Tone keeps innovating and brings to the market state-of-the-art devices. Operating across 53 countries, Silhouet-Tone's headquarters are in Canada with subsidiaries in the United States and Europe.

Silhouet-Tone Corporation's medical esthetic devices and furniture are certified by Health Canada and ISO 13485.

Moreover, our specialized equipment is tested and certified by the worldwide renowned German organization TÜV, 'Technischer Überwachungsverein' so-called Technical Inspection Association.



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S.T MEDIC is the med-esthetic line of Silhouet-Tone's products, specialized in rejuvenation and toning. It also includes a range of devices providing innovative treatments for skin imperfections and hair removal.