

MAGNETER *CMP CARD*



USER MANUAL

- Instructions -

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**ATTENTION: READ CAREFULLY
THE INSTRUCTIONS BEFORE USE**

Cap.1 – PRESENTATION

MAGNETER CMP CARD belongs to the new line of electromedical instruments for physiotherapy. The reduced dimensions, the facility of use and the versatility are the principal characteristics of this innovative line of products.

1.1 – What is MAGNETER CMP CARD

The constant search in the sector of the medical devices has brought to the creation of the new system for magnetotherapy, constituted by the generator MAGNETER CMP CARD. The innovative system of the CARD, electronic cards of small dimensions to be inserted inside the instrument, allow the generation of magnetic fields to therapeutic purpose for the treatment of common pathologies (lesions, accidents, illnesses) through the use of preset programs ready to the use. Its Card contains a free space in memory to set and record new protocols with parameters personalized for the patient, that subsequently can be modified or cancelled.

The possibility to adjourn the device and the programs, the technological innovation and the facility of employment make it an extremely versatile and innovative product in the electromedical instruments field.

1.2 – What is MAGNETER CMP CARD for ?

With MAGNETER CMP CARD it is possible to apply magnetic fields with benefits effects on the reconstruction of the bony fabric and, in general, for the regeneration of damaged fabrics. Checking the effects and the course of the therapy, it is possible to suit the therapy for the demands of the patient and to realize new protocols with more effective parameters.

1.3 – Who can use MAGNETER CMP CARD ?

MAGNETER CMP CARD finds in the medical field (physiotherapy particularly) the fittest environment to express completely his/her own potentialities. Nevertheless, for the simplicity of use, it is usable, over that from physicians and therapists of the rehabilitation, also from who desires to use it at home, thanks to the immediateness and versatility of the product.

Cap.2 – INDICATIONS AND CONTRAINDICATIONS

2.1 – Indications

The pathologies most common that are taken care of with the magnetic fields they are those to load of the apparatus osteo-muscle-tendineo and, particularly they are suitable in the treatment of:

- periostitis;
- tenonitis;
- arthrosis;
- muscular contractures;
- cicatrizations;
- organized oedemas.

Besides, the magnetic fields preserve today also one born validity in the treatment of rheumatologic abarticular alterations as the shoulder periarthrititis, the epicondylitis of the elbow and other pathologies, thanks to the analgesi, fybrolitic and decontracturant effect.

The interested structures mainly suffer the most greater traumas in the physical activity but, in many cases, they can also be caused by the aging (rheumatisms, muscular ipotrofia, lack of equilibrium for the scarce movement); these cases, are particularly in strong increase for progressive rising of the middle age, not followed by a suitable improvement of the quality of the life.

In the sporting disciplines the most frequent traumas strike the articulations of the knee and the ankle and they can be treated with the magnetic fields through of the daily and repeated applications for a certain number of sessions. The treatments are effected above all to analgesic purpose propedeutico to the sessions of kinesitherapy.

2.2 – Contraindications

The magnetic fields have the same side effects of the phisic therapies that act with the endogenous production of heat:

- degenerative osteoporosis;
- presence of metallic fragments;
- varicose veins;
- thrombosis and acute thromboflebitis;
- arteriopathologies with hemorrhages;
- menstruations;
- tumors;
- tuberculosis;
- acute inflammatory trials;
- cutaneous lesions;
- alterations of the sensibility.

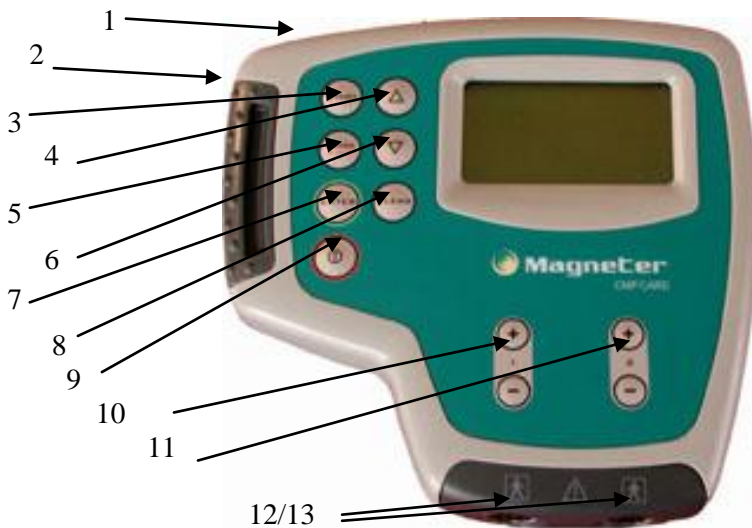
In the applications of magnetic fields, the use is dissuaded on:

- specialized tissues (fertile metafisis, testicles, ovaries), because they can be damaged;
- avoid the use in cardiac area and, particularly, in presence of electric equipments (pace-maker), because it can cause permanent damages.

NOTES:

- Particular precautions must be adopted when applications are effected on the back bone of patients, with diagnosis of laminectomia, for possible damages to the bone marrow.
- The applications cannot be effected in the immediate proximities of the ocular globes and the uterus (abdomen / lumbar zone) in case of pregnancy for the risk to provoke the phenomenon of the cavitation, dosing hips corrected.
- The presence of articular prosthesis and a halves of metallic synthesis is problematic because they can absorb a superior quantity of magnetic fields and be deteriorated or cause damages to the adjacent structures.
- The use of this physical therapy is dissuaded the treatment of pathologies of the juvenile age and, above all, childish (ex. fertile cartilages of conjugation).

Cap.3 – OPERATIONS



3.1 – MAGNETER CMP CARD keys

1 - Output for feeder

2 - Programs Card

3 - START: begin the program

4 - ARROW UP: cursor up

5 - PAUSE **STOP**: interruption

6 - Arrow Down: cursor down

7 - ENTER: selection confirm

8 - CLEAR: delete /come back

9 - (I) = ON/OFF: turn on / turn off

10 - (+)/(-) 1: intensity Channel 1

11 - (+)/(-) 2: intensity Channel 2

12/13 - Outputs Channel 1-2

NOTE: before applying the magnetotherapy check the side effects and consult a physician.

3.2 – Solenoids' connection and application

Connect the cable of the solenoids to the front output of the instrument. Insert the connectors by rotating the connections till coincides with the output connections; screw until the connectors fix well to the instrument. To use the rubber solenoids, apply them over the zone to treat and fix them with the elastic bands. To use cushion and carpet (not included) just apply over them the interested zone (ex. head, shoulders, back, basin, feet, etc.) or the whole body; the magnetic band (not included) can be used: closed like a ring for the limbs (arms, legs, joints) or open and applied above the treating zones. To perform correctly the applications follow the indications of the Chap. APPLICATIONS and see the attached photos.

NOTE: if the carpet (not included) is connected, it is not possible to connect other solenoids to the instrument.

3.3 – Turn on the device

To turn on MAGNETER CMP CARD press the key (I) - ON/OFF. The display shows the firm's logo, the name of the Card and then the Selection Menu.

ATTENTION: don't turn on the instrument without a Card. Turn off the instrument before insert or replace the Card.

3.4 – Program selection

The selection Menu is separated in two parts that control independently the 2 channels (left Menü - Channel 1, right Menü - Channel 2). It is possible to set one program for both channels or two different therapies on different two zones of the body or apply to two patients at the same time. To move from a Menu to the other in any moment press a key (+) or (-) of the Channel to use. In every selection Menu choose the program type with the keys Arrow Up / Arrow Down:

- " **Programs**" (preset protocols ready to use);
- " **User**" (to set / memorize new programs with customised parameters).

Press ENTER to confirm the choice and go to Programs Menu.

3.4.1 Preset programs

From **Programs** you get to the Program list; select the program with arrow down/up and confirm with ENTER.

3.4.2 Free Programs

Press ENTER when the cursor is on “-----” to enter the setting of the new protocol (see Chap. FREE PROGRAMS).

3.4.2.1 - Memorized free programs

Inside the **User** Menu you can find the free programs already memorized. Choose the program with arrow down/up and confirm with ENTER, then select one of the followings voices:

- **Start + ENTER** (to begin the program);
- **Edit + ENTER** (to modify the parameters and/or the Phases);
- **Delete + ENTER** (to cancel the program and get the memory free);

3.5 – Starting the therapy

Before the beginning the display shows the message "Sol1 = Sol2? " and below "NO"; to use the same program on both Channels of the instrument press arrow up to change in "YES" then press ENTER to confirm.

The display shows the message "Press START Good Work !": press START to begin the therapy; the intensity of stimulation (%) in the preset programs is already

set while in the free programs starts from 1% and must be manually set with the keys (+)/(-) of the used Channels.

NOTE: do not press **START** with no solenoid connected to the device (the stimulation don't start and the device sends an acoustic signal while the display shows the message "Insert Head").

3.6 – Setting the intensity

The intensity can be set by user with (+)(-) keys of the used Channels. The minimum increase of intensity is of 1% (1 Gauss) and the maximum settable intensity it is 100% (100 Gauss). Set an intensity among 60 and 100% for the briefer daily applications (30-60 minutes) and inferior to 50 Gausses for a prolonged therapy (more than 60 minutes); in case of pain or elevated heating in the treated zone it is necessary to decrease the intensity with the key (-) or interrupt the therapy.

3.7 – End or interruption of the session

The stimulation automatically stops when the Time ends and you hear the acoustic signal of end program; if you want to interrupt before the end press the key **PAUSE STOP**: once for a break (to continue press **START**); twice to finish the program.

3.8 – Turn off the device

To turn off the instrument press and hold the key (I) - ON/OFF for some seconds. After the end of a program if the instrument is not used for some minutes, it turns off automatically.

3.9 – Symbols on display



- ERROR: wrong operation



- BATTERY: battery charge level



- USER: memorized programs



- POWER MAINS: feeder connected

Cap.4 – PRESET PROGRAMS

The preset programs listed in the following chart are divided in type of pathologies to treat:

- 1) **Bony pathologies:** treatment of the pathologies to load of the bony apparatus and the attached structures (fractures, delays of consolidation...).
- 2) **Joints' pathologies:** specific programs for the therapy of traumatic, chronic or degenerative pathologies to load of the articulations and the cartilages (distorsions, arthritises, periarthrits, arthrosis...).
- 3) **Muscular lesions:** specific programs for the therapy of pathological or traumatic situations that you/they are verified on the muscles (contractures, tears, edemas...).
- 4) **Tendon patologies:** programs of various type for the treatment of the tendon inflammations, muscle-tendinee and of the containing purses sinovial liquid (tenonitis, tenovaginitis, bursitises...).
- 5) **Nervous lesions:** specific programs for the therapy of pathological situations of the nervous system (ex. neuralgias).
- 6) **Skin alterations :** specific programs for the therapy of lesions cutaneous and other pathologies (psoriasis, acne, sore, etc.).
- 7) **Pathologies of the abdomen:** programs for the treatment of pains and inflammations in the zone of the abdomen and the low abdomen (stomach, backs, app. urogenital, etc.).
- 8) **Various pathologies:** programs for the therapy of pathologies of various type (problems of circulation, diabetes, dizziness, etc.).

4.1 – Preset programs' list

MAGNETER CMP CARD has 68 different preset programs The programs are listed in the following chart.

Bony Pathologies	Fractures	Fractures
	Recent Fractures	Recent Fr.
	Fractures (minor articulations)	Fractur.SJ
	Fractures (major articulations)	Fractur.BJ
	Consolidation delay	Cons.delay
	Initial pseudo-arthrosis	I.pseudoar
	Advanced pseudo-arthrosis	A.pseudoar
	Initial Osteoporosis	I.osteopor
	Advanced Osteoporosis	A.osteopor

Joints' pathologies	Arthritis	Arthritis
	Periarthritis	Periarthr.
	Arthropathies	Arthropat.
	Arthrosis of minor articulations	Arthros.SJ
	Arthrosis of major articulations	Arthros.BJ
	Coxoarthrosis	Coxoarthr.
	Chronic coxoarthrosis	Chr.coxoar
	Chronic heel sprain	C.heel sp.
	Acute heel sprain	A.heel sp.
	Knee sprain	KneeSprain
	Dislocation	Dislocat.
	Twisted neck	Twist.neck
	Whiplash	Whiplash
Muscular lesions	Local bruises	Loc.bruis.
	Diffuse bruises	Dif.bruis.
	Muscle contractures	Musc.contr
	Muscle strains	Mus.strain
	Myositis	Myositis
	Multiple sclerosis	Mul.scler.
Tendon pathologies	Tenonitis	Tenonitis
	Tenovaginitis	Tenovagin.
	Carpal Tunnel	Carp.Tunn.
	Bursitis	Bursitis
	Chronic epicondylitis	C.epicond.
	Acute epicondylitis	A.epicond.
Nervous lesions	Foot tenonitis	Foot tenon
	Cervical	Cervical
	Chronic lumbago	C. lumbago
	Acute lumbago	Ac.lumbago
	Sciatalgia	Sciatalgia
	Head neuralgia	Head neur.
	Body neuralgia	Body neur.
Paresis	Paresis	
Skin alterations	Skin lesions	Skin les.
	Local bed sores	L.bed sor.
	Diffuse bed sores	D.bed sor.
	Acne	Acne
	Psoriasis – Eczema	Psor. Ecz.
	Scars	Scars
	Dermatitis	Dermatitis

Abdomen pathologies	Urogenital illnesses	Uro.illnes
	Urogenital inflammations	Uro.inflam
	Prostatitis	Prostatitis
	Menstrual problems	Menst.prob
	Gastritis	Gastritis
	Haemorrhoids	Haemorrh.
	Ulcerous colitis	Ulcer.col.
	Nephritis	Nephritis
Various pathologies	Artheriopathies	Artheriop.
	Migraine - Headache	Migr.Head.
	Bronchial asthma	Br.asthma
	Toothache	Toothache
	Cold hands	Cold hands
	Diabetes	Diabetes
	Adiposity	Adiposity
	Cellulitis	Cellulitis
	Stress	Stress
	Depression	Depression
Vertigo	Vertigo	

4.2 – Program selection

Preset programs are described in the following charts, divided like the categories indicated in the previous table. It is pointed out the name of the program on the display with the duration in minutes in the first column, and the explanations of the program and the applications in the second column.

BONY PATHOLOGIES	
NAME ON DISPLAY	DESCRIPTION
Fractures - 35 min	Bone hardening in case of fractures.
Recent Fr. - 45 min	To consolidate the bones in case of recent fractures.
Fractur.SJ - 40 min	Bone consolidation of fractures in the small joints.
Fractur.BJ - 60 min	Bone consolidation of fractures in the great joints.
Cons.Delay - 60 min	Bones consolidation delay.
I.Pseudoar. - 45 min	Pseudoarthrosis in the initial stadium.
A.Pseudoar. - 55 min	Pseudoarthrosis in the stadium advanced or chronic.
L.osteopor -50 min	Osteoporosis in initial stadium.
A.osteopor - 60 min	Osteoporosis in advanced stadium (risk of fractures).

JOINTS' PATHOLOGIES

NAME ON DISPLAY	DESCRIPTION
Arthritis - 35 min	Arthritis to the small and great articulations.
Periarthr. - 25 min	periarthritis (shoulder pains, unstable shoulder, etc.).
Arthropat. - 45 min	General treatment for the arthropathologies.
Arthros.SJ - 35 min	Arthrosis of the small articulations.
Arthros.BJ - 50 min	Arthrosis of the great articulations.
Coxoarthr. - 40 min	Arthrosis of the articulation of the hip.
Chr.coxoar - 50 min	Chronic arthrosis of the articulation of the hip.
C.heel.sp. - 35 min	Chronic distorsions of ankle; it stimulates the normalization of the local metabolism.
A.heel sp. - 45 min	Acute distorsions of ankle; it stimulates the reduction of the inflammation provoked by the trauma.
Knee sprain - 55 min	Knee sprain; it stimulates the normalization of the local metabolism and the reduction of the pain.
Dislocat. - 60 min	Dislocations; it stimulates the normalization of the local metabolism and the reduction of the pain.
Twist.neck - 35 min	Twisted neck; it stimulates the normalization of the local metabolism and the normalization of the muscular fibers at the base of the neck.
Whiplash - 40 min	Hit of whip; it helps to decontrol the cervical column and decrease the local pain.

MUSCULAR LESIONS

NAME ON DISPLAY	DESCRIPTION
Loc.bruis. - 45 min	Treatment of the muscular edemas located following bruises
Dif.bruis. - 60 min	Treatment of the diffused muscular edemas following bruises
Musc.contr - 40 min	Treatment of the muscular contractures
Mus.strain - 50 min	Treatment of the muscular tears
Myositis - 60 min	Treatment of the myositis
Mul.scler. - 40 min	Treatment of the multiple sclerosis

TENDON PATHOLOGIES

NAME ON DISPLAY	DESCRIPTION
Tenonitis - 30 min	Treatment inflammations to load of the wide and flat tendons (ex. achillis tendon).
Tenovagin. - 35 min	Treatment inflammations to load of the sinovial scabbard of the long tendons (ex. fingers of the hands).
Carp.Tunn. - 25 min	Treatment inflammations of the tendons of the inside forearm and the wrist (syndrome of the carpal tunnel).
Bursitis - 40 min	Treatment inflammations to load of the sinovial purses situated between tendons and bones.
C.epicond. - 30 min	Chronic inflammations in the insertion of the muscles of the external forearm on the elbow (the tennis player's elbow)
A.epicond. - 40 min	Treatment acute inflammations to load of the insertion of the muscles of the external forearm on the elbow (the tennis player's elbow)
Foot tenon - 30 min	Treatment tendineous inflammations of the foot (back, plants).

NERVOUS LESIONS

NAME ON DISPLAY	DESCRIPTION
Cervical - 50 min	Cervical pains; it stimulates the normalization of the local metabolism and the reduction of the pain.
C.Lumbago - 45 min	Chronic lumbago; it stimulates the reduction of the inflammation with the normalization of the local metabolism.
A.Lumbago - 55 min	Acute lumbago; it stimulates the reduction of the inflammation with the normalization of the local metabolism.
Sciatalgia - 60 min	Sciatalgia or lombosciatalgia; it reduces the to propagate him some inflammation in the lower limb.
Head neur. - 20 min	Head nerves inflammations particularly of the face.
Body neur. - 45 min	Body nerves inflammations (especially inferior limbs).
Paresis - 35 min	Paresis; it favors the nervous decontrol of the stricken zones.

SKIN ALTERATIONS

NAME ON DISPLAY	DESCRIPTION
Skin les. - 40 min	Treatment of the cutaneous lesions
L.bed sor. - 45 min	Treatment of the located bedsores
D.bed sor. - 60 min	Treatment of the diffused bedsores
Acne - 30 min	Treatment of the acne
Psor. Ecz. - 35 min	Treatment of psoriasis and eczemas.
Scars - 40 min	Treatment of the scars
Dermatitis - 35 min	Treatment of the dermatitis

ABDOMEN PATHOLOGIES

NAME ON DISPLAY	DESCRIPTION
Uro.illnes - 45 min	Treatment of the urogenital illnesses
Uro.inflam - 55 min	Treatment of the urogenital inflammations
Prostatitis - 40 min	Treatment of the prostatitis
Menstr.prob - 50 min	Treatment of the menstrual problems
Gastritis - 45 min	Treatment of the gastritis
Haemorrh. - 45 min	Treatment of the hemorrhoids
Ulcer.col. - 40 min	Treatment of the ulcerous colitis
Nephritis - 50 min	Treatment of the nefritis (renal problems)

VARIOUS PATHOLOGIES

NAME ON DISPLAY	DESCRIPTION
Arteriop. - 60 min	Treatment of the problems of circulation
Migr.Head. - 30 min	Treatment of migraine and headache
Br.asthma - 55 min	Treatment of the bronchial asthma
Toothache - 30 min	Treatment of the dental pains
Cold hands - 50 min	Treatment of the Raynaud syndrome or cold hands
Diabetes - 60 min	Treatment of the diabetes
Adiposity - 50 min	Treatment of the adiposity or elevated accumulation of fats
Cellulitis - 60 min	Treatment of the cellulitis
Stress - 60 min	Treatment of the stress
Depression - 55 min	Treatment of the depression
Vertigo - 45 min	Treatment of the dizziness

Cap.5 – FREE PROGRAMS

Free programs can be used for the creation of new therapies or aesthetic treatments (up to 20) with parameters customised or adapted to patients.

5.1 – Setting

Press ENTER on **User**. To access to the setting of free programs choose the voice "-----", confirming with ENTER. So you get to Phase setting Menu (Phases 1-4); select every Phase with Arrow On / Arrow Down keys (always begin from the Phase 1). Confirm with ENTER to access to the formulation of the parameters of every phase; select every voice with Arrow Up / Arrow Down keys and set the value with (+)(-) keys of used Channel. The available values for the parameters of the free programs are in the following chart.

NAME ON DISPLAY	PARAMETER	AVAILABLE VALUES
Emiss.	Impulse wave form	Sin. (sinusoidal) Ret. (rectangular)
Freq.	Frequency	1-100 step 1 Hz
Mod.	Frequency modulation	CONT./1/2, 1/5, 1/10
Time	Program Duration	1-60 minutes
Stop	Phase interruption	YES/NO

In the following chart there are some guide lines to set correctly the parameters.

Wave form (Emiss.)	Applications type
Ret. (retangolare)	Short and localised applications
Sin. (sinusoidale)	Long and diffuse applications
Frequency (Freq.)	Effect
1-30 Hz	Riscaldamento
30-60 Hz	Vascularizzazione
60-80 Hz	Stimolazione rigenerante
80-100 Hz	Intensa rigenerazione
Modulation frequency (F.Mod.)	Therapy
1/10	Pains / circulation / Longer applications
1/5	Acute Patologies / Long applications
1/2	Chronic Patologies / Long applications
CONT	Inflammations / Fractures / Short applications
Program Duration (Time)	Objective
30 – 45 min	Analgesic / relaxing effect
+ 45-60 min	Regenerating effect
Phase interruption (Stop)	Objective
YES	Interrupted Phases (press START continue)
NO	Continuous phases

NOTE: to realize therapies of long duration (some hours) plan more phases to reach the time (max time: 60 minutes each 4 Phases = 4 hours).

See the following examples of free programs for most common applications:

ANALGESIC/ANTINFLAMMATOR

REGENERATING

Y

Emiss. – Sin.

Freq. – 80

Mod. – CONT

Time – 45

Stop – YES

Emiss. – Sin.

Freq. – 100

Mod. – CONT

Time – 60

Stop – YES

The last voice in low in the Menù of formulation it is **End**. Confirm with ENTER to memorize the parameters setting and return to the Phases Menu; now it is possible to plan the following Phase or, if the setting is finished, press Arrow Down to choose one of the following options:

- **Save + ENTER** - to save the program and set the desired name (up to 10 characters), choosing the letter with the keys + and - and moving the cursor on the following letter with the keys Arrow On / Arrow Down'. At the end press ENTER to memorized the set parameters;
- **Start + ENTER** – to begin the program;
- **Quit + ENTER** – to exit from setting without save the program.

5.2 – Use and modify a free program

A memorized free program can be used as a normal preset program and after modified by changing the parameters (for the evolution of the treatment) or cancelled for freeing the memory. To use the free programs, from the selection Menu press ENTER on **Free Prog.** and with the keys Arrow Up / Arrow Down choose the program and confirm with ENTER. The executive Menu is shown on display and it is possible to: start the program by choosing the option **Start + ENTER**; change the parameters by choosing the option **Edit + ENTER** and repeating all the operations of the setting; cancel the program and free one memory by choosing the option **Delete** and confirm with ENTER.

Cap.6 – APPLICATIONS

See in the attached color pages some examples of possible applications with the solenoids and with carpet, pillow and band (not included); **read carefully the contraindications before using the therapy.**

ATTENTION: don't apply two solenoids with a different face (see design on surface) one in front of the other (ex. articulation - elbow, knee, ankle) otherwise the magnetic fields annul itself instead of adding.

6.1 – Therapy planning

Apply the magnetic therapy every day, especially following your doctor's indications. At the end of the therapy, if the problem is still present, talk to the doctor.

6.2 – Intensity regulation

The regulation of the intensity differs in base to the type of program that he is using, to the duration of the application and the characteristics of the patient. The intensity can be increased, during the program, to produce more effects or decreased in case of overheating or feeling of pain.

NOTE: if the intensity or its regulation cause elevated heating or pain in the treated zone, it is necessary to reduce immediately the intensity of stimulation or eventually to interrupt the application.

Intensities recommended for most common applications:


Zone of application	Intensity advised
Bones	100%
Muscles	80-90%
Tendons / Ligaments	60-70%
Joints / Cervical / Lumbago	60-100%
Prolonged applications (+ di 60 minutes)	30-50%

6.3 – Body position during the sessions

The ideal position of the body during the sessions is relaxed and supine or prone according to the application zone. The position must be maintained during all the session to facilitate the effects produced by the magnetic field, particularly the increased local blood flow, consequence of the induced heating in the treated zone.

Cap.7 – POWER SUPPLY

MAGNETER CMP CARD can be supplied by power mains with the feeder or by the inner rechargeable battery Ni-Mh 12V - 1,8 Ah. The battery in conditions of normal use has an autonomy of some hours. The guaranteed autonomy varies in base to the type of used program, to the intensity set and the time of application.

 For the correct identification of battery and feeder furnished in endowment of base, consult the Chap. "Technical characteristics". Neither the feeder, neither the battery must be replaced from personal not experienced and with different devices from those furnished from the house builder.

7.1 – Charge indication

When MAGNETER CMP CARD is supplied by the battery, the bar of the symbols on the display shows the Battery symbol "■".

Summary: ■ - charge battery □ - empty battery

The intermediary charge levels are indicated by a partial filling of the Battery symbol "▣".

Soon after you see the symbol of empty battery, make a complete recharge. To save the battery MAGNETER CMP CARD has a system of auto-turning off: when the battery is empty, if you don't make the recharge, it warns you with an acoustic signal and turns off the instrument automatically after some minutes.

7.2 – Battery recharge


To recharge the battery of MAGNETER CMP CARD connect the feeder on the instrument back output and to the power mains. When the charge begins the symbol of battery appears on the display. Leave the device on charge until the symbol of battery appears completely filled on the display (■); the recharge lasts around two hours. When the recharge is complete disconnect the feeder. For a complete recharge sometimes leave the device on charge for 10-12 hours.

7.3 – Battery maintenance

- The life of a rechargeable battery depends on the number of recharge / discharge cycles and to the way these cycles are effected (complete/uncomplete). To increase the life of the battery:
 -
 - if MAGNETER CMP CARD is not used, recharge the battery every month;
 - discharge the battery completely (empty battery symbol) before the recharge;
 - supply the device with power mains to save the battery.

7.4 – Battery substitution

The index of the battery exhaustion is the duration after a normal recharge. When the battery life is sensitively inferior (only 30-60 minutes), it is necessary to replace it. For the substitution of the battery call an authorized Center of Assistance, to maintain the safety of the instrument and to send the exhausted battery in the right place.

 Never reverse the polarity of the connections of the battery, not to cause the destruction of the electronic circuits.

7.5 – Use precautions

- (1) Do not throw the exhausted battery with the ordinary refusals, but deliver to authorized personal for the disposal.
- (2) Do not open the battery neither throw in the fire.
- (3) Do not short-circuit the terminals.
- (4) Avoid to provoke sparks or flames, above or around the battery.
- (5) If the inner material goes out from the battery and comes to contact with the skin, or with the garments, wash immediately with water. If it comes to contact with the eyes, wash abundantly with water and immediately consult a physician.

Cap.8 – SYMBOLS



CLASSE II DEVICE



BF TYPE DEVICE



ATTENTION, CONSULT THE ATTACHED DOCUMENTATION



THIS DEVICE IS CE MARKED ON CEE NORM 93/42 No. 0476.

Cap.9 – MAINTENANCE

9.1 – Solenoids, band, cushion and carpet

The cable of connection must periodically be checked for verifying that there is no cracks, possible cause of the dispersion of the magnetic fields.; clean periodically solenoids, cushion and carpet and with a damp cloth.

9.2 – Device and feeder


To clean both feeder and instrument, use a damp cloth. Don't use in any case liquids, because these devices are not protected from their entry (IP20).


9.3 – Feeder substitution

Check the state of the isolations (box and cables) of the feeder, before connecting it. If it's damaged, also only partially, immediately replace it.

9.4 – Immediate maintenance

- Immediate maintenance must be executed by New Age Italia or authorized personnel if one of the following situations happens:
- external mechanical solicitations (ex. serious falls);
- strong overheating (ex. if left next to sources of intense heat);
- some liquids can be penetrated inside the device;
- the feeder, the wrap or other parts of the instrument are damaged, broken or lacking;
- the functionality of the instrument appears altered.

 To the goals of the safety it recommends him not to operate with accessories (es. you manipulate and feeder) different from the furnished ones as endowment of base.

 The frequency of maintenance, of functional control and verification of correspondence to the safety norms EN60601-1 for the medical devices, to perform him with secur-tester, it is annual. The useful life of the tool is guaranteed only from the firm if such maintenance is regularly effected.

NOTE WELL: it is recommended to make the controls be performed only by New Age Italia; the device can be sent directly to the laboratories of assistance or delivered to the retailer where it has been purchased.

Assistance center:

New Age Italia srl - Via De Brozzi, 3 - 48022 Lugo (RA)

Tel.:+39-0545.32019 - Telefax: +39-0545.369028

Web: www.newageitalia.it - E-mail: info@newageitalia.it

Cap.10 – WARNINGS

- Do particular attention in the employment of the solenoids not to compromise the effectiveness of the treatment.
- Use the instrument only with electric structures conforming to the actual safety Norms.
- The instrument has degree of protection IP20 (see Chap. "Technical features") and do not use it close to liquids, because it's not protected from their entry.
- Do not use close to cellular telephones (maintain at least one meter of distance).
- To operate close (less than 1 meter) to an instrument with short waves therapy or microwaves, because it can produce instability in the emission.
- Don't simultaneously connect the patient with the MAGNETER CMP CARD and with a surgical instrument HF, to avoid dangers for the patient and for the instrument.
- The device works according to its specifications if the environment is maintained to a temperature between the 5° and the 40° C and with damp inferior to the 80%. The same conditions must be maintained during the transport and the store.
- In case of malfunctions and breakdowns, it is opportune to exclusively send the device to the house builder.
- It's recommended not to operate in proximity of inflammable substances.
- Don't use gel and different accessories from those furnished in endowment.
- It's important to inform the patient on the type of feeling to perceive during the therapy, to immediately intervene or interrupt the session switching off the device or removing the solenoids, in case of different or uncorrect perceptions.
- If the power or its regulation cause elevated heating or pain in the treated zone it is necessary to immediately reduce the intensity of stimulation or eventually interrupt the application.
- Keep away from children.

Cap.11 – TECHNICAL FEATURES

11.1 – Power supply

Feeder: K.E.R.T. AL3SW/OK

PRI: 100-240V~ 50/60 Hz SEC: 18V- 1,5A

Inner feeding: rechargeable battery Ni-MH 12V-1,8 Ah

11.2 – Output features

Max power intensity (P): 100 Gauss

Frequency (f): 1-100 Hz

Frequency modulation: continue, ON/OFF (1/2, 1/5, 1/10)

Modulation wave form: rectangular, sinusoidale

11.3 – Other features

➤ Dimensions: 175x165x100h [mm]

➤ Weight: 1 [Kg]

➤ Class: II Tipo: BF

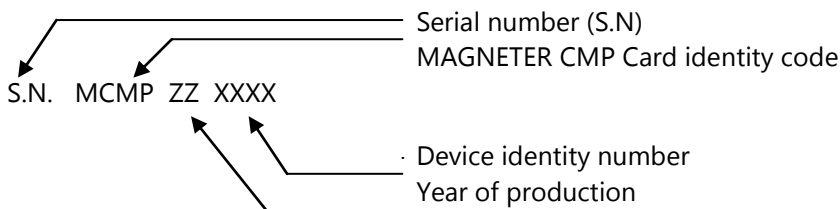
➤ Classification to liquids entry: IP20

➤ Safety in presence of inflammable anaesthetic gas: it's not of AP or APG category

➤ Device for working: continuous

Built according to the rules:

- EN 60601-1 (1998) – Electromedical devices: Safety General rules
- EN 60601-1-2 (1998) – Collateral norm: Electromagnetic compatibility - Prescriptions and tests
- EN 60601-1-4 (1997): Collateral rule: electromedical programmable systems
- EN 60601-2-5 (2001) – Electromedical devices: particular rules for the safety of the equipments of magnetotherapy
- IEC 601-2-10 (1987) – Electromedical devices: particular rules for the safety of neuromuscular stimulators.
- CEI 62-84 (1997) – Symbols for electromedical devices
- EN60601-1-1 (2002): Collateral rule: Safety prescriptions for electromedical systems.



Cap.12 – ENDOWMENT OF BASE / ACCESSORIES

12.1 – Endowment of base

Device

Card

Feeder

N.1 rubber solenoids couple

N.2 elastic bands

Instructions

Carrying case

12.2 – Accessories and consumed materials

Rubber solenoids couple

Elastic bands

Band solenoid with welcro cm 91,5x20,5 (open)

Cushion solenoid cm 45x45

Carpet solenoid cm160x60

Cap.13 – BIBLIOGRAPHY

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