GLOBUSVet
Yes, WE CARE

MAGNETO THERAPY

🇬🇧 User Manual

MAGNETOVET 4000

CE

DEAR CUSTOMER

THANK YOU FOR CHOOSING A GLOBUS PRODUCT. WE REMAIN AT YOUR DISPOSAL FOR ANY ASSISTANCE OR ADVICE YOU MAY NEED

The Magnetotherapy device is manufactured and distributed by:

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The device was manufactured in compliance with the existing technical regulations which guarantee the safety of the product.
The dimensions, the features and the images reported in this manual are not binding.
The manufacturer reserves the right to modify the products without prior notice.

Table of contents

TECHNICAL FEATURES

Device

Size: 170x220x60 mm Weight: about 1000 g.

Container: Food grade ABS

Protection level: IP 20

Output channels for solenoid connection: 4 channels

Editable frequency: from 5 to 200 Hz, steps of 5 Hz

Storage and transport conditions

Temperature: from -25°C to 70°C

Max. relative humidity: 0% - 93%

Use conditions

Temperature: from 0°C to 35°C

Maximum relative humidity: from 15% to 93%

Atmospheric pressure: from 700 hPa to 1060 hPa

Magnetic Intensity Emitted

200 Gauss on average per channel with flexible solenoids
800 Gauss on average on the whole using 4 channels

Power supply

Dongguan Shilong Fuhua Electronic Co

Model: UES65B1-180333SPA

Plug: 5.5-2.5-11 STRAIGHT

Input 100-240V~, 50-60Hz 1.5A

Output 18Vdc 3.33Amax

EQUIPMENT

- 4 soft extensible diffusers
- Carrying bag
- Power supply (see technical features)
- MagnetoVet 4000 device
- User manual
- User guide

The device can be used with a few optional accessories (see features on the website www.globusvet.it). To purchase these accessories, please contact your dealer.

Description of the accessories

The MagnetoVet devices can be used with some optional accessories.

G1127 Battery pack (Ni-MH, 2000mA): if you purchase the optional battery pack, the device will be able to work for a short period without connection to mains.

G5867 Magnum Test

The Magnum Test is used to check that the solenoids work properly. Connect the solenoid to the device, start a program, put the box upon a coil and check that a vibration is felt.

G6097 Flexible solenoid

Flexible, two-coil solenoid, easily cleanable and sanitizable fabric. Size 35x11 cm.

G6039 Therapeutic bed

The therapeutic bed consists in a mat (or two, depending on the size of the pet) with a waterproof, cleanable cover. Inside, there are 4 solenoids that create an even electromagnetic field in the central area on the bed.

To connect this accessory to the MagnetoVet device, plug the connector to the specific inlet. For big pets, connect both the connectors of the beds.

Size: 44 x 70 cm

INTENDED USE

The estimated usable life of the product is 5 years. It is advisable to return the device to the manufacturer and/or authorized center to perform security and maintenance checks every 2 years.

MagnetoVet 4000 has been conceived to be used in the following environments:
- veterinary office;
- veterinary physiotherapy;
- veterinary rehabilitation of the musculo-skeletal system;
- pain treatments of the musculo-skeletal system.

CONNECTIONS

Device

MagnetoVet 4000 has to be connected to the electrical network. To connect the power supply to the connector, plug it as shown below.

Warning:

If the packaging, the cable or the connector of the power supply unit show signs of wear or damage, replace them instantly.

Accessories (connect the solenoids)

In order to connect the solenoids to the device, plug the connectors into the intended inlets on the top of the unit (see picture).

alimentatore   solenoidi
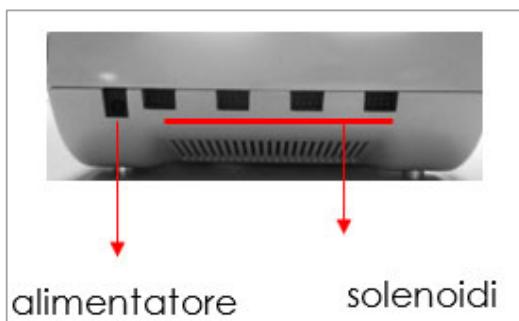
WARNING: do not unplug the solenoids (diffusers) if the unit is working.

LABELLING AND SYMBOLS

⚠️	Warning
CE 0476	This symbol on your device indicates that it complies with the requirements of the directives on electrical and electronic devices.
▣	It indicates that this is a II class device.
🗑️	WEEE symbol (Waste of Electrical and Electronic Equipment). Recycling symbol. The WEEE symbol used for this product indicates that it cannot be treated as a household waste. The proper disposal of the product will contribute to protecting the environment. For further information on the recycling of this product, please contact the concerned office of your local body, the household waste management company or the store where the product was purchased..
RoHS 2011/65/EC	It indicates that the product has been produced in compliance with the directive 2011/65/EEC.
🌡️	It indicates the optimal temperatures for the storage and transportation of the product.
📖	It informs the operator that before using the device he must read the manual.
IP20	It indicates water protection
❗	It indicates a compulsory behavior

%⌣	It indicates the humidity of the environment where the device is used

	It indicates the humidity of the environment where the device and its accessories are used and stored
	It indicates the manufacturer.
PRI	Mains voltage
SEC	Power supply voltage
Output	Output: - it indicates the output voltage of the power supply - it indicates the maximum power of the magnetic field emitted by the device - it indicates the frequency range of the magnetic field emitted by the device
Power	It indicates the power supply model
Input	Input: it indicates the value of the mains voltage for the power supply

Device


```
Input    PWR: UES65B1-180333SPA              IP20
             PRI: 100-240V~, 50-60Hz 1.5A

             SEC: 18Vdc 3.33Amax        ⊖─●─⊕
Input Power: 18Vdc 1.2A
Output Freq.: 5-200hZ
Output Power: 400Gauss MAX
Magnetotherapy type: MAGNETOVET 4000

      *MJ0471500001*
             SN: MKX501700001
```

Panel/keyboard

UP/DOWN Increase/Decrease Hertz

UP/DOWN Increase/Decrease Hertz

FUNCTION

TIME

P+

RIGHT BUTTON
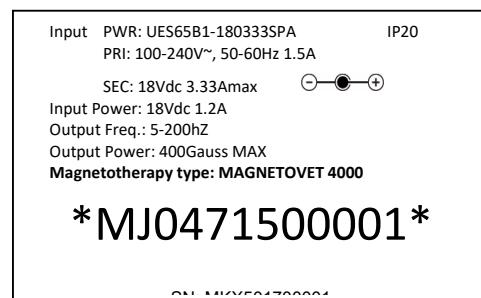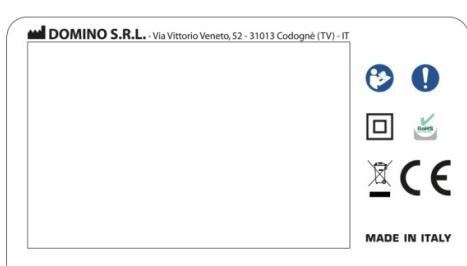
LEFT/BACK
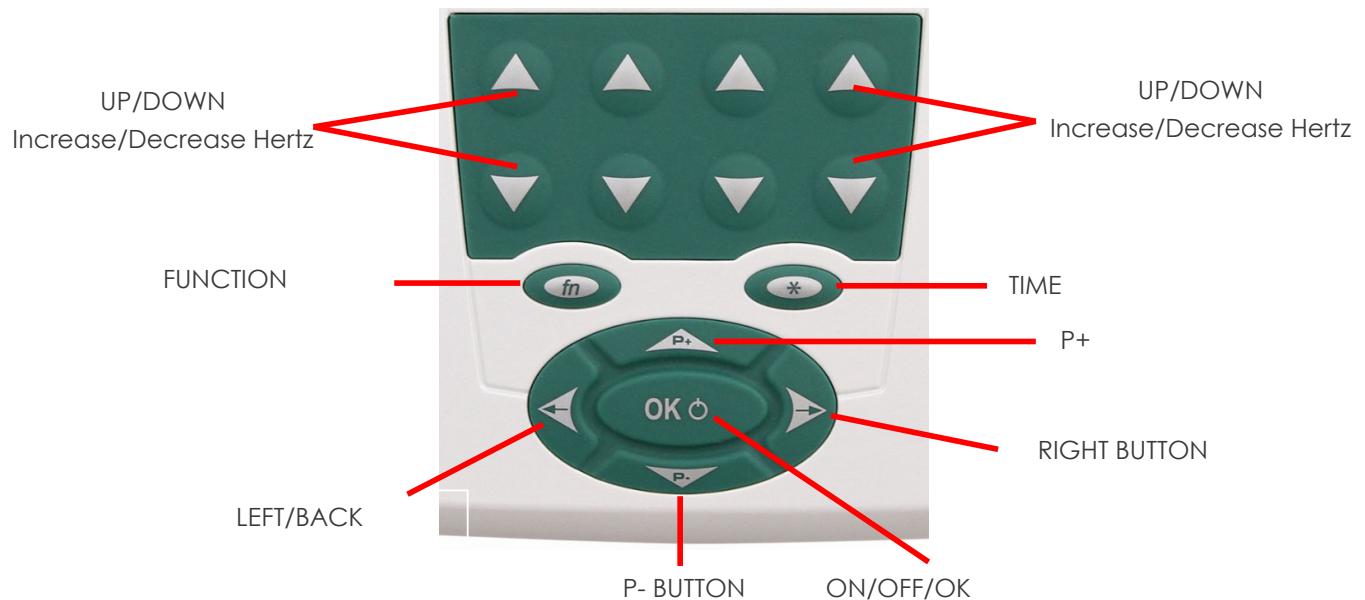
P- BUTTON

ON/OFF/OK

ON/OFF/OK button: turn on, turn off, confirm treatment

LEFT/BACK button: Moves the selection to the left. To go back to the previous selection.

3" = It returns to the previous selection while the program is running.

P+ button : to scroll programs upwards / increase the intensity of the 4 channels simultaneously

P- button : to scroll programs downwards / decrease the intensity of the 4 channels simultaneously

Right Button: It moves the selection to the right.

3" = It moves to the next phase, while a program is running

Button *: shows the intensity emitted as peak Gauss

Fn button: allows to modify the current program

Up/Down button: to modify the emitted Gauss on all channels simultaneously

Display-interface

NAME OF THE PROGRAM

TYPE OF POWER SUPPLY

FRACTURES

$1_h:00_m$

DURATION

EMISSION INDICATOR

POWER IN GAUSS

50_G 50_G 50_G 50_G
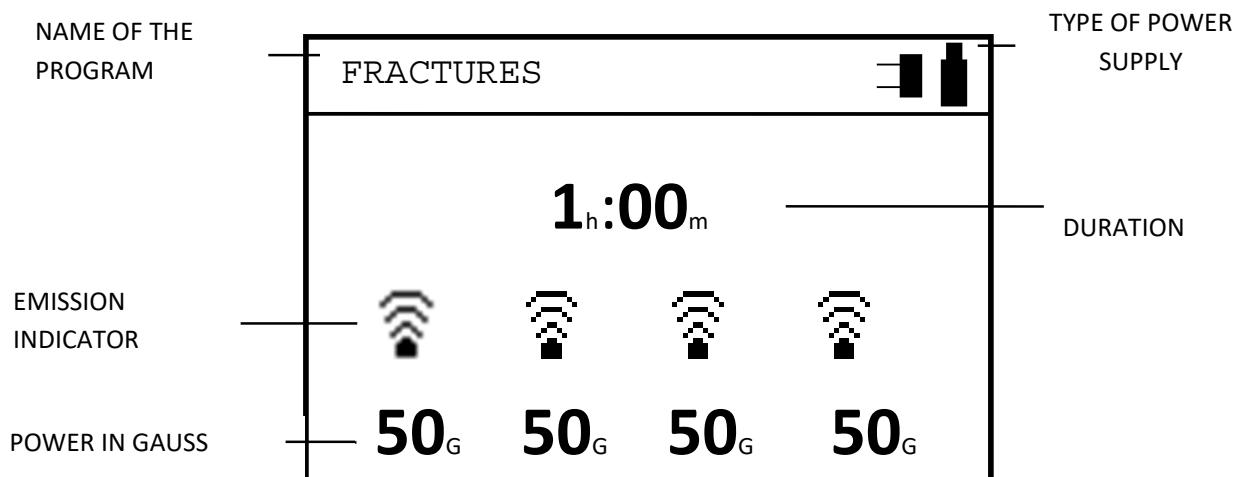
ALARMS

Emission signal

The device is equipped with a power-emission control system.

Therefore, before starting any treatment, it is necessary to ensure that the diffuser is connected to the device and placed on the area to be treated.

📶	Correct emission of power The treatment proceeds correctly.
	Cable not connected Check that the cable is connected to the right output.
⏸	Device in pause Press OK to continue the treatment.

NOTE:

If the unplugged cable message appears, verify that the device, the cables and the solenoid are intact and correctly used.

If the problem persists, please contact customer care.

WARNINGS AND CONTRAINDICATIONS

Mandatory behavior

For maximum safety, the device must be used following the rules and the limitations indicated in the user manual.

The manufacturer declines all responsibility with reference to a use that is different from what is indicated in this manual.

The full or partial reproduction in any form and by any electronic or mechanical means of the texts and/or pictures contained in this manual without the written authorization of the manufacturer is forbidden.

If the package, the cable or the connector of the power supply show signs of wear or damage, replace it instantly.

The device should be connected to the mains with its power supply. Before starting this operation, make sure that the power system complies with the directives in force within your country. Make sure that the power supply can be easily unplugged.

Warnings before the use

Do not use the device with other electronic devices simultaneously, especially if they maintain vital functions. Read the enclosed tables to operate the device correctly. If you have to use the device near or upon other devices, pay attention to how it is working.

- It is recommended to read carefully the entire operating manual before using the device; keep carefully this operating manual.

- The unit must be used only with the diffusers provided with the original equipment (or Globus brand) and according to the described therapeutic modalities.
- Before each use always check the integrity of the device. This is a fundamental requirement for carrying out the therapy; do not use the device if the buttons or the cables are defective or malfunctioning.

The device:
- must be used only by people over 18 and, in any event, in full possession of their mental faculties;
- has to be used following the indications and under the strict control of the veterinary physician or physiotherapist;
- it must be kept out of the reach of children;
- cannot be used without consulting the veterinary physician if there are health problems;
- once you have turned the device on, make sure the display shows the software version and the device model: it means that the device is working and ready to be used;
If it does not show that information or does not show all the segments, turn it off and on again. If the problem persists, contact the customer care and do not use the device.

Warnings during the use

The device is intended for continuous functioning.
While using MagnetoVet 4000, please comply with the following indications:
- The cables of the diffusers and the power supply must never be wound up around the neck as this could lead to strangulation or suffocation.
- mobile and fixed radio communication devices may affect the functioning of the device: see the tables attached to this manual.

Side effects
Events of general intolerance to magnetic-field therapy, such as sleepiness, restlessness and nausea, have been reported. According to our experience these effects are extremely rare. They have been observed mainly in the treatment of cervical rachis. It is advisable to avoid treatments longer than 30 consecutive minutes in this area.

Contraindications
Absolute contraindication: patients with a heart pacemakers or other permanent electrostimulators.
Contraindications:
- patient with cardiac rhythm disorders;
- dermatitis and mycotic infections;
- hemorrhagic tendency;
- do not carry out this treatment together with TENS and/or HOLTER;

- do not use on noble organs (ovaries, heart, head, etc.);
- do not use in the case of fever;
- in case of neoplastic diseases, consult your vet doctor before starting magnetotherapy.

MAINTENANCE AND CLEANING

Maintenance and cleaning of the device and the diffusers

- In case of actual or alleged malfunctioning, do not tamper with the device and do not try to repair it by yourself.

Do not intervene on the device and do not open it. Only specialized and authorized centers can repair it.

- Avoid violent impacts that may damage the device and cause malfunctioning, also not immediately detectable.

Use this device in a dry environment and in an open space (not wrapped in any material).

- Clean the device and its accessories only by using disinfectant with sodium hypochlorite or quaternary ammonium salt (percentage: 0.2-0.3%) diluted with distilled water. After cleaning/disinfecting the device and its accessories, dry them perfectly with a clean cloth.

- Always use the device and the accessories with clean hands.

- It is recommended to use the device and the accessories in a clean environment to avoid contamination with dust and dirt.

- It is recommended to use the device in a ventilated, well-aired space.

- It is recommended to clean/disinfect the parts after every use, unless otherwise indicated.

Disposal of the device

Do not throw the device or parts of it into the fire; dispose of the product in the specialized centers and respecting the regulations in force in your Country.

When the product has to be disposed of, the user can give it back to the retailer when purchasing a new device.

Correct waste separation and returning the end-of-life product contribute to avoiding negative impacts on the environment and health and promote the reuse and/or recycle of materials. The illegal disposal of the product entails the application of administrative fines in accordance with applicable regulations.

INSTRUCTIONS FOR USE

Turning on/off

To turn on or off, press and hold the On/Off (OK) button until an acoustic signal is heard.

Homepage
Use **P+** and **P-** to make the selection and press **OK** to confirm your choice.

```
┌─────────────────────────────────┐
│      Magnetovet 4000            │
│  ┌──────────────────────────────┤
│  ██                             │
│  ▌▐  Therapeutic bed           │
│  ▌▐  Program List              │
│  ▌▐  Advanced                  │
│  ▌▐                            │
│  ▌▐                            │
│  ▌▐                            │
└──────────────────────────────────┘
```
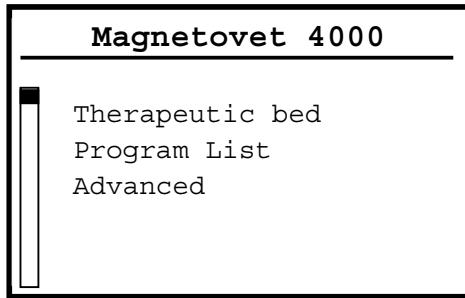
THERAPEUTIC BED

This function can be used with the therapeutic bed accessory. The chosen parameters enable a specific treatment for articular pain and arthrosis in dogs.

```
                    ┌──────────────────┐
                    │   SWITCHING ON   │
                    └──────────────────┘
        ┌───────────────────┼───────────────────┐
┌─────────────────┐ ┌──────────────────┐ ┌──────────────────┐
│ THERAPEUTIC BED │ │   PROGRAM LIST   │ │     ADVANCED     │
└─────────────────┘ └──────────────────┘ └──────────────────┘
        │
        ▼
  Press OK to start the
     treatment.
```
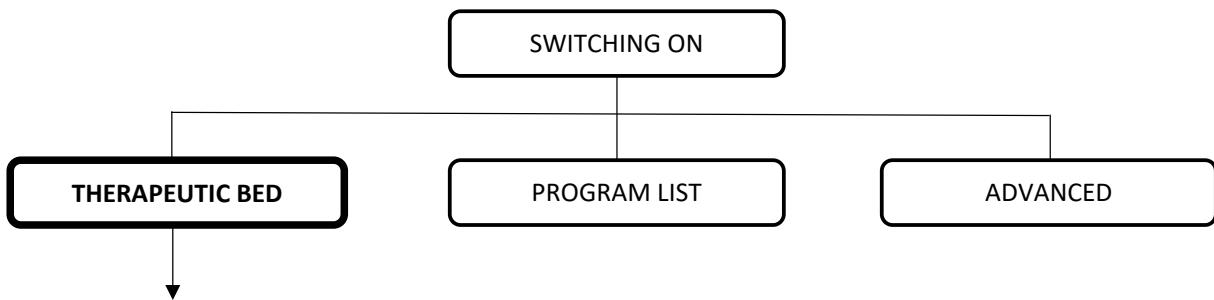
Edit therapeutic bed parameters quickly

The parameters stored in this section are suitable for the treatment of articular pain and arthrosis in pets. If it is necessary to modify the Gauss, use the up and down keys placed under the indication of each channel. To change the frequency and the duration of the therapy, use the "fn" button and use the first three pairs of increase/decrease buttons (highlighted in yellow in the picture below). Each button edits the corresponding parameter on the screen.
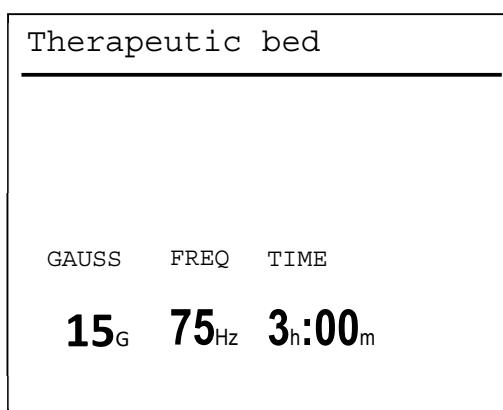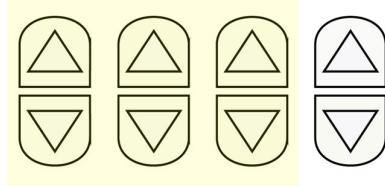
```
┌─────────────────────────────────┐
│  Therapeutic bed                │
│  ────────────────────────────── │
│                                 │
│                                 │
│                                 │
│   GAUSS    FREQ    TIME         │
│                                 │
│   15ɢ    75ʜᵤ   3ₕ:00ₘ         │
│                                 │
└─────────────────────────────────┘
```

Use the first three pairs of increase/decrease buttons (highlighted in yellow in the picture below) to make the changes. Each button edits the corresponding parameter on the screen. After editing the data, the starting page appears and the treatment can start.

THERAPEUTIC BED

$3_h{:}00_m$

15_G 15_G 15_G 15_G
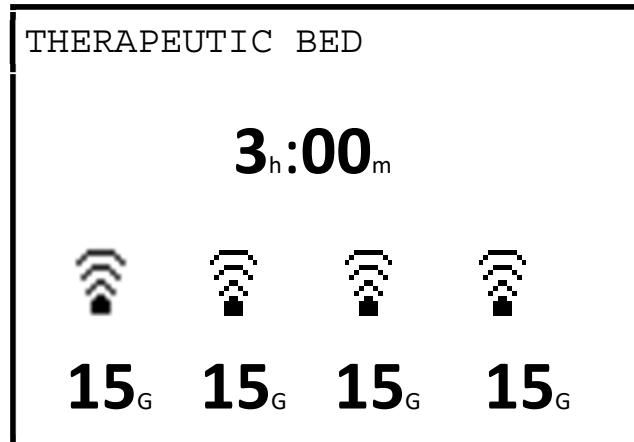
Channels   1   2   3   4

The new parameters will remain in memory even when the machine is turned off or the page is quit by pressing the back button. After the first setup, every time the device is turned on, the treatment can start in two clicks.
If the Gauss set are different for each channel, the device will store the power you've set on the first channel.

Quick saving of a program from program list to Therapeutic bed

If the patient needs to carry out a pre-set program (for example hip osteoarthrosis), but the vet has prescribed a duration and/or a power that is different from the pre-set one, follow these steps:

```
┌─────────────────────────────────────┐
│           SWITCHING ON               │
└─────────────────────────────────────┘
┌─────────────────────────────────────┐
│          PROGRAM LIST                │
└─────────────────────────────────────┘
┌─────────────────────────────────────────────┐
│     SELECT AREA (DOG, HORSE, CAT)            │
└─────────────────────────────────────────────┘
┌───────────────────────────────────────────────────┐
│  CHOOSE PROGRAM, FOR EX. HIP OSTEOARTHROSIS         │
└───────────────────────────────────────────────────┘
┌─────────────────────────────────────┐
│     SAVE IN THERAPEUTIC BED          │
└─────────────────────────────────────┘
```
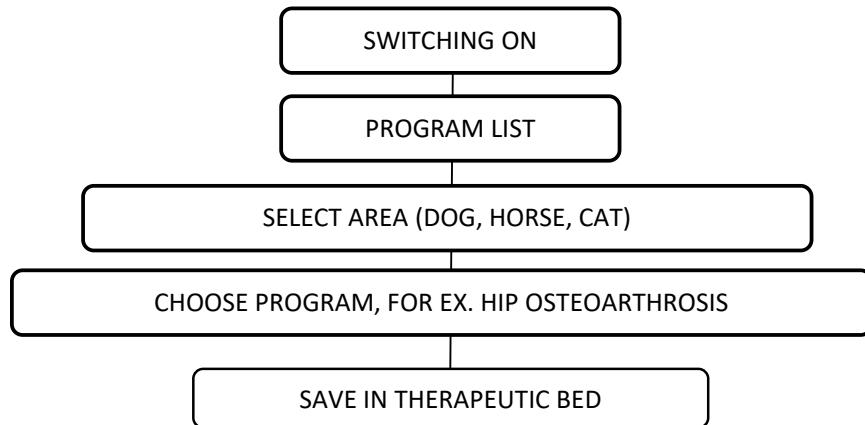
After choosing the program, press back to go to the start menu and select Edit the parameters and carry out the treatment. The edited program will be always available in Therapeutic bed.

PROGRAM LIST

Use P+ and P- to select the program and press OK to confirm your choice.

```
                          ┌─────────────────────┐
                          │    SWITCHING ON     │
                          └─────────────────────┘
         ┌──────────────────────────┼──────────────────────────┐
┌───────────────────┐   ┌───────────────────────┐   ┌───────────────────┐
│  THERAPEUTIC BED  │   │    PROGRAM LIST       │   │     ADVANCED      │
└───────────────────┘   └───────────────────────┘   └───────────────────┘
                          │
                  ┌───────────────────────────────────────┐
                  │   SELECT AREA (DOG, HORSE, CAT)       │
                  └───────────────────────────────────────┘
                          │
                  ┌───────────────────────────────────────┐
                  │ CHOOSE PROGRAM, FOR EX. PSEUDOARTHROSIS│
                  └───────────────────────────────────────┘
```

┌───────────────────────┐   Press OK
│   START   │ ───────► to start the program.
└───────────────────────┘

┌───────────────────────┐   Overwrite the program
│ ADD TO THERAPEUTIC BED│ ───────► saved in "Therapeutic bed"
└───────────────────────┘

┌───────────────────────┐   Set the NUMBER OF SESSIONS and
│ ADD TO TREATMENTS   │ ───────► save with OK
└───────────────────────┘
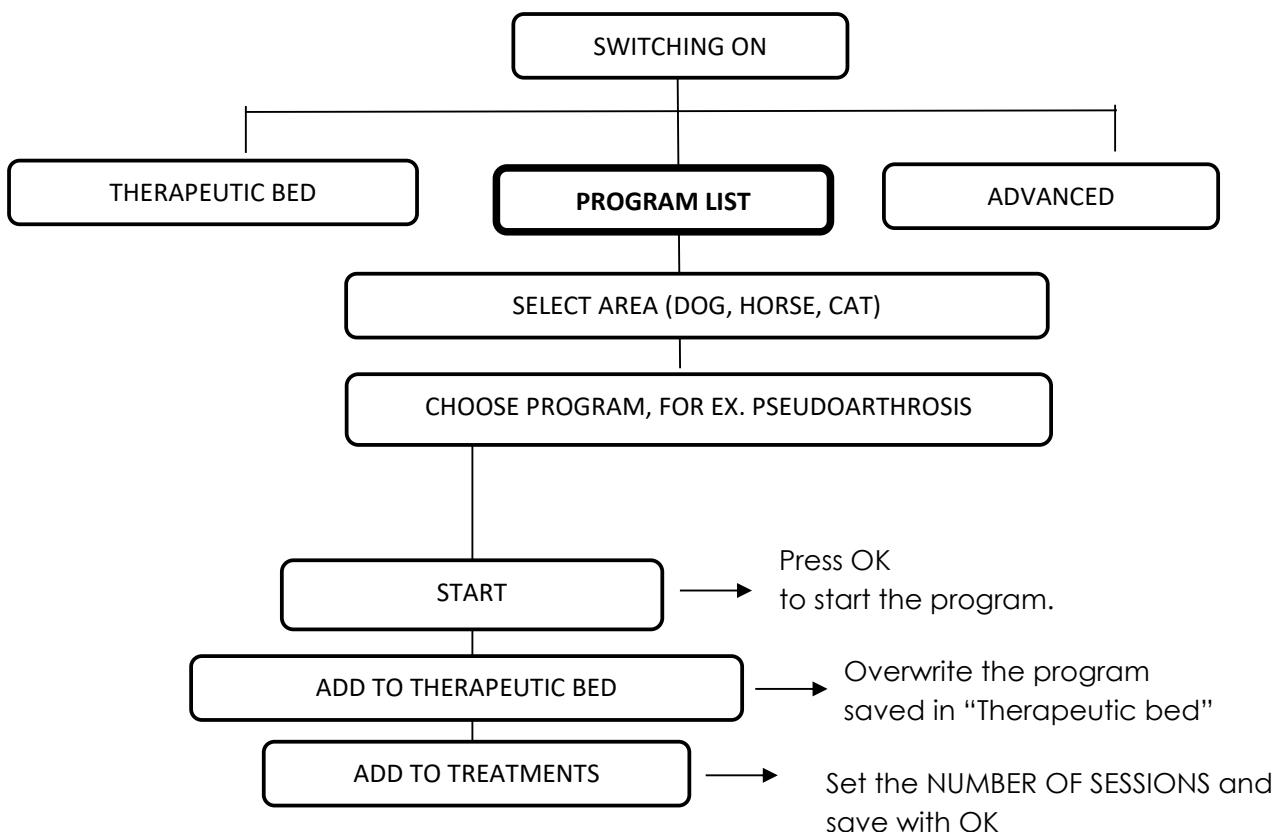
Program List Menu

When confirming the Program List menu the following areas are displayed:
- DOG
- HORSE
- CAT

Press P+ and P- on the joypad to move the cursor to the area to be selected and press OK to confirm. Select the program.

Start the program

To start the program confirm your choice by pressing OK. You will see on your display the program name, the connected solenoids, the total time of the treatment and the emitted Gauss.

Important: the Gauss value refers to the intensity emitted for each channel and each coil. Therefore, if a 2-coil flexible solenoid is connected, the total emitted value must be multiplied by 2.

How to pause/stop the program

To pause the program, press OK. Press OK again to go back to the program execution. During the pause, pause icons appear on the screen. To stop the program in advance, hold down OK until you hear a continuous beep.

Display peak Gauss

While the device is operating, it is possible to display the maximum intensity of the field by pressing *. This value indicates the intensity peaks of the magnetic field.

Adjustment of program parameters (Runtime function)

To edit default parameters in a program **press fn.** A screen summarizing Gauss (field), frequency, duration and duty cycle will appear.

To edit the values, use the buttons with the arrows on the keyboard; each arrow increases or decreases the value above.

```
┌─────────────────────────────────────────┐
│  FRACTURES                         ▇█     │
│                                           │
│                                           │
│                                           │
│   FIELD     FREQ      TIME     DC%        │
│                                           │
│   50ɢ      75ʜᴢ    0:30     50          │
└─────────────────────────────────────────┘
```
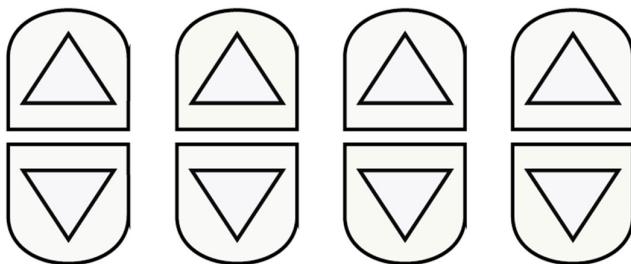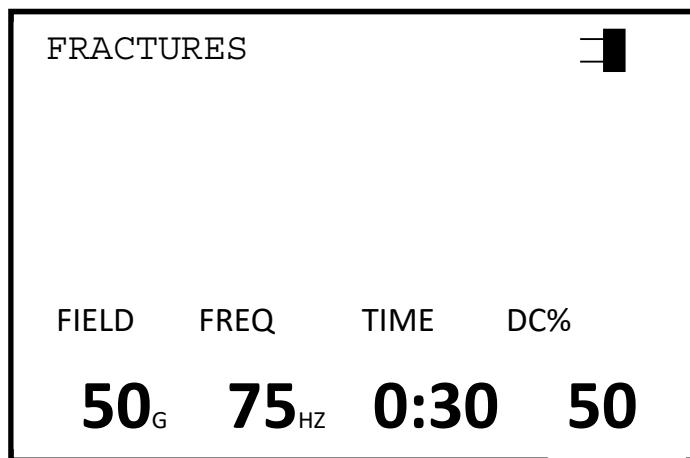
The maximum duration of the treatment is 9 hours 59 minutes.

The duty cycle can be adjusted from 10% to 50% in steps of 5.

After adjusting the parameters, wait a few seconds until the area is deselected and the running program is displayed again.

Increase/decrease default power

Power can be adjusted for a single channel by using the buttons Up and Down or on the 4 channels simultaneously by using the buttons P+ and P-.

- Power regulation channel 1 and 2
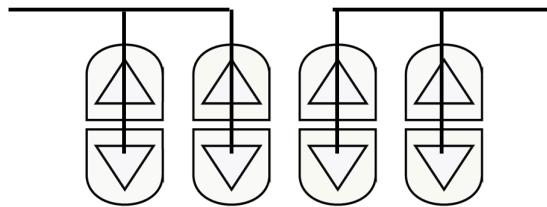
- Power regulation channel 3 and 4

ADVANCED

Use P+ and P- to select the menu and press OK to confirm your choice.

LAST 10	Press OK to start one of the last programs.
2+2 MODE	Select PROGRAM 1, then PROGRAM 2 and restart.
PROGRAMMING	Edit the program name, set the parameters and start.
TREATMENTS	Select a program and press Ok
SETUP	You can edit the fields: • Lighting Time • Contrast • Auto Shut Off Time • Language Selection • Sounds of Service • Battery Management • System info
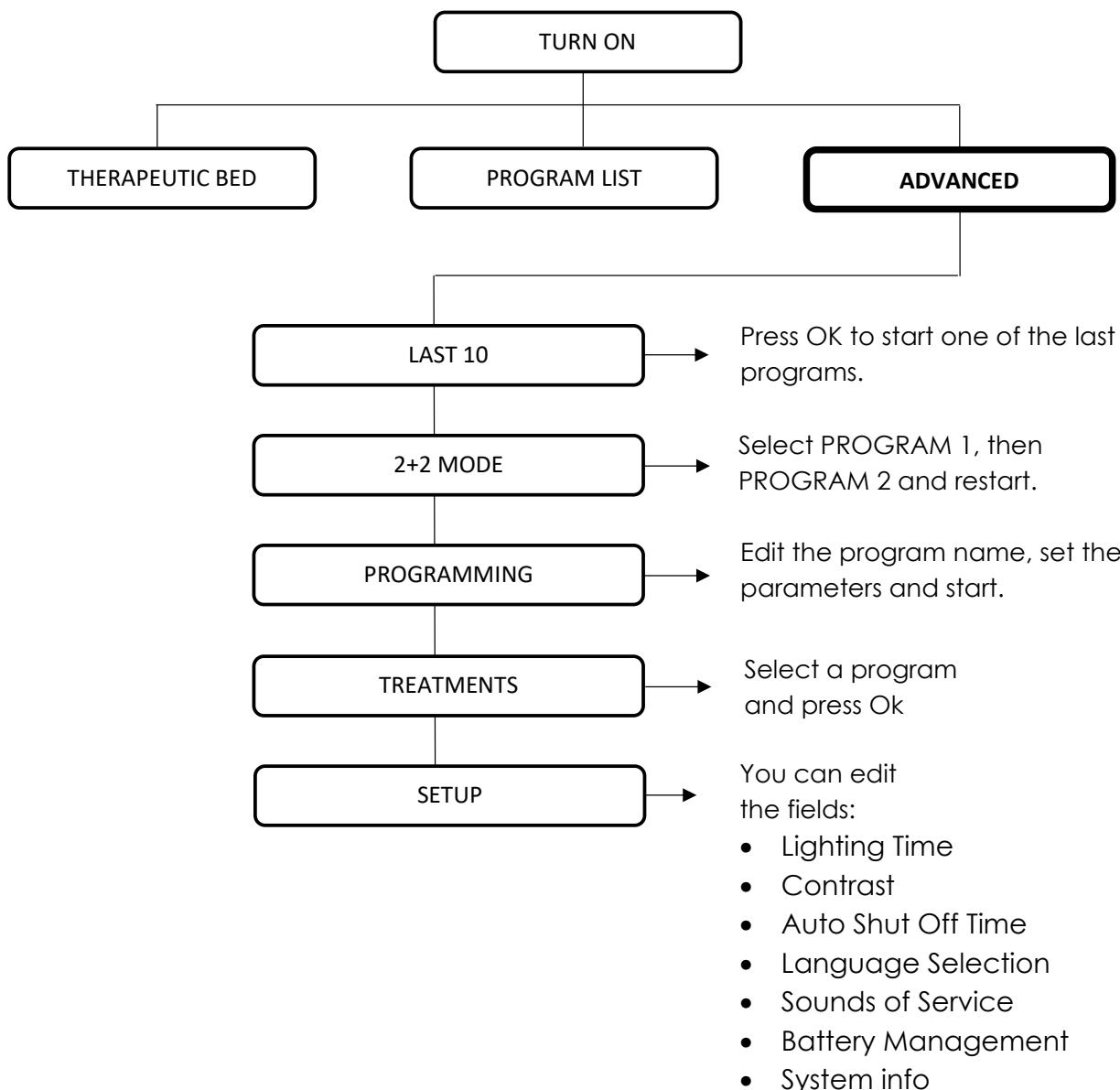
"LAST 10" MENU

MagnetoVet 4000 keeps track of the last ten programs executed. This way, these are available for a quick and very easy execution.

The programs are automatically stored at the end of the execution. If the memory is full, the "oldest" program is automatically deleted.

When you turn the device on, select "Last 10" and confirm with OK.

Select the program you want to run (if there is no program in this menu you will read "EMPTY").

After confirming the selection 2 entries will appear:

a - Start

b - Delete from the list

By placing the cursor on "Start" and pressing OK you can launch the selected program.

By pressing "Delete from the list", the program will be deleted from the "Last 10" list.

Important: if during the execution of a program the duration of treatment and/or the emitted field are modified, the program stored among the "Last 10" will maintain the duration and Gauss changes.

This feature can be particularly useful if the user has to carry out a cycle of treatments with a program that has a longer duration than that preset one.

Quick save of a program in the "Last 10 "

Sometimes, there may be a need to change the duration and the emission field of a treatment and find the changes made in the last 10 programs, but you don't have the time to wait for the end of the program. Pressing the right button for few seconds, the running program will end and will be stored in the last 10 along with the changes (duration and field, while duty cycle and frequency will remain those of the default program).

"2+2 Function" Menu

The device allows to run 2 different programs simultaneously allowing the simultaneous treatment of more subjects or more areas of the body on the same subject.

To execute two different programs simultaneously, choose the first desired program in the "Program list".

At this point, select "Continue with 2+2" and choose the second program.

During the execution of the 2+2 mode, the following screen will appear:

```
┌─────────────────────────────────────┐
│ ½ Knee osteoar.                      │
│ ¾  Back pain                         │
│ ▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀      │
│    0ₕ:30          3h:20              │
│                                      │
│    📶      📶     📶       📶        │
│                                      │
│   30G    30G    40G      40G         │
└─────────────────────────────────────┘
```
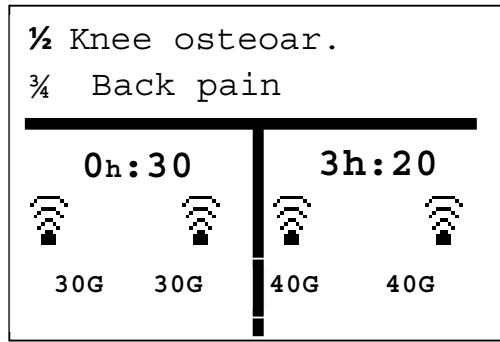
The program on the left side of the screen will work on channels 1 and 2, while the one on the right side on channels 3 and 4.

It is possible to change the duration of the two programs by pressing Fn. The first pressure modifies the first program, the second pressure modifies the second.

To adjust the Gauss, use the arrows for power increase and decrease.

In 2+2 mode, it is possible to modify only the duration of the single program and not the frequency and the duty cycle.

"Programming" Menu

MagnetoVet 4000 offers the possibility of creating/editing new programs. This allows the device to be flexible and adaptable to your needs.

From the "Programming" menu you can create new programs (when the message "EMPTY" appears) and perform those already customized. These can be modified at any time (see "Edit program").

The programs created in the "Programming" menu will not be stored in the last 10.

How to create a new program

With P+ or P- buttons, select the spot where you want to create the program and confirm with OK.

How to insert the name of the program

Use joypad buttons to select the letters and confirm with the OK button. In order to delete a letter select "Canc". After inserting the name of the program select "OK".

Setting of the parameters

After performing these steps, a screen will appear to modify the four necessary parameters as needed: field (Gauss), frequency (Hz), time and duty cycle (in %).

After entering all parameters, press the OK button and confirm the saving.

```
┌─────────────────────────────────┐
│ Programming                     │
│─────────────────────────────────│
│ Name of the new program         │
│                                 │
│                                 │
│  GAUSS   FREQ    TIME     DC%    │
│  15ɢ    100ʜᵤ   0ₕ:30    50      │
│                                 │
│                                 │
└─────────────────────────────────┘
```

EDIT FREQUENCY   EDIT DUTY CYCLE

△ △ △ △
▽ ▽ ▽ ▽

EDIT GAUSS   EDIT TIME
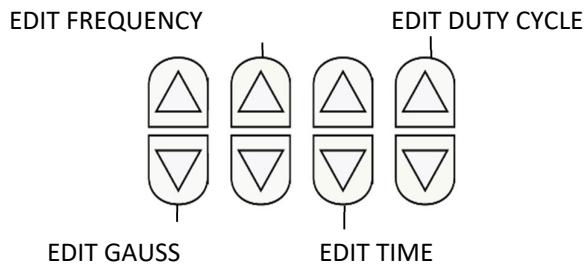
NOTE: if the message "n.c." is displayed while programming, it means that the solenoid is not connected. Connect the solenoid to proceed with the programming.

Execution

The programs that are created and saved during the programming can be executed choosing the "Start" option, that will be followed by these options:

- Start
- Save in Therapeutic bed
- Save in Treatments

Editing or deleting a program

In the "Programming" menu you can edit or delete programs that you previously stored in memory.

Press "fn" + "P+" to edit and "fn" + "P-" to delete.

"Treatments" Menu

The device enables the user to lock the unit in order to permit only the use of the programs that have been saved with the special function "Save in Treatments" in the screenpage right before the execution of the program.

This feature is conceived for the rental of the device to inexperienced users and/or patients who have to perform only certain protocols determined by the professionals.

How to save a treatment

Once you have chosen the program you want to run you can select "Save to Treatments". Set the number of sessions to be programmed using P + and P-, then press the OK button.

In this way the program has been saved and can be found in the "Treatments" menu.

Perform a treatment

Once you have selected the "Treatments" menu you will see a screen like this:

```
Treatments
_____
                          1-2

Health/rehab
□ Body
   ► Fractures
Remaining sessions 6-10
```
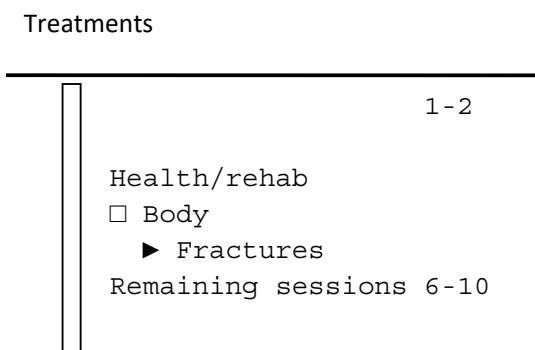
In the example image, the upper right corner displays treatment 1 (out of 2 stored treatments) for which 6 out of 10 planned sessions still have to be performed.
Press the OK button to start the program or delete it from the list.

Activation of Treatment function

Press and hold the buttons fn + --> (right button) for at least 3 seconds until the area where treatments have been saved appears.
After the rental function has been activated, the device will have a limited number of functions.

Deactivation of Treatment function

Hold the fn + <-- (left) buttons down for at least 3 seconds until the main menu appears.
Warning: If you turn the device on and the main menu does not appear, please check that the Stim Lock function is not activated.
Try to deactivate it.
If the problem persists contact the customer care service.

Customize a preset program and store it in the Treatments menu.

To store in the "Rental" menu a preset program to which you have made changes (on treatment duration or field intensity) you can act in two different ways:

1)   let the program end;
2)   press the right button for a few seconds. In this way, the device skips the working phase and the program ends.

For both modes, once you have finished the program, the possibility to choose again will be displayed on the screen:

- Start
- Save in Therapeutic bed
- Save in Treatments
- Continue with 2+2

By choosing the option "Save to Treatments" you will be asked to enter the number of scheduled sessions.

The program will be stored in the treatment area along with changes (except for frequency and duty cycle, which remain as in the default program).

"SETUP" MENU

In the setup menu it is possible to edit the following fields:

- Lighting Time
- Contrast
- Auto Shut Off Time
- Language Selection
- Sounds of Service
- Battery Management
- System info

Lighting Time

It allows you to decide how long the display remains lit after the last command given to the device while it is in function.

Contrast

It allows you to adjust the contrast of the display for a better visualization of characters.

Auto Shut Off Time

It allows to set the time after which the machine, if not used, switches automatically off.

It is possible to select from 2 to 9 minutes. Use P+ and P- to select and confirm with the Ok button.

This special function is activated only when the optional battery is used.

```
┌─────────────────────────────────┐
│ SETUP                           │
│ ─────────────────────────────── │
│ Auto Shut-Off Time              │
│                                 │
│                                 │
│         Time in minutes:        │
│               2                 │
│                                 │
│                                 │
│                                 │
└─────────────────────────────────┘
```
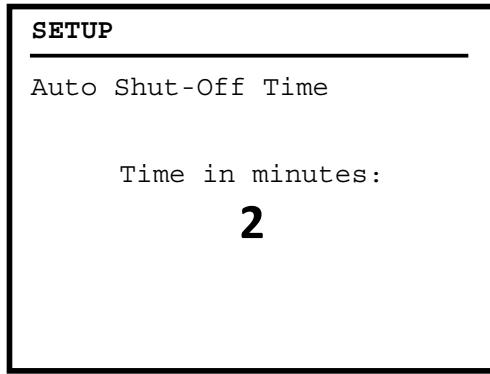
Language Selection

It allows to modify the language of the different menus.
Press P+ or P- to select and press Ok to confirm.
It is possible to choose among the following languages (where available):
1.   Italian
2.   English
3.   Spanish
4.   French
5.   German
6.   Portuguese

Sounds of Service
It allows to enable (YES) or disable (NO) the acoustical beeps the device emits.

Battery Management (optional accessory)
The values shown in this menu allow the manufacturer to verify the charge state of the battery, if the device has a one.

System info
Contains information useful for the manufacturer.

ACTION PRINCIPLE AND APPLICATION METHODS

What is magnetotherapy

Magnetotherapy is a form of physiotherapy that uses electromagnetic energy to stimulate tissue regeneration.

The magnetic field is induced by the electric current flowing through a coil (solenoid). Magnetotherapy facilitates the repairing processes of tissues and stimulates natural organic defenses.

On the basis of biological effects, the therapeutic action of the magnetic fields can be resumed in two main functions:

1. anti-inflammatory and anti-edema actions;
2. stimulation of tissue repair processes.

Cell membranes are similar to small batteries and therefore their tension can be measured. For example, in healthy nerve cells, the potential difference between the core and the external membrane corresponds to 90 millivolts, whereas the electric tension in the other cells corresponds to about 70 millivolts.

A decrease of cell tension affects the body in the form of inflammation, bone, joint and back pain, and wounds which do not heal.

When cells become "ill" because of an infection, a trauma or any other cause, they lose their energy stock. A cell that should have a tension of 70 millivolt when healthy, has a tension of only 50/55 millivolts when is ill. When this tension goes under 30 millivolts there is the necrosis, namely the death of the cell.

The aim of magnetotherapy is to recharge and regenerate the cells which have lost their vital energy.

Magnetotherapy Effects

Musculoskeletal pathologies are the most specific field of application of magnetotherapy.

All traumatic events, from a small sprain to a serious fracture may benefit from this therapy, at times with incredibly fast recovery times. Moreover, magnetotherapy has proved to be effective in accelerating the process of repair and the recovery time of bone disorders too.

Magnetotherapy - by taking advantage of low frequencies - may thus be considered as a first-choice therapeutic methodology especially in the treatment of inflammatory, traumatic and degenerative pathologies of the osteoarticular and musculotendinous apparatus.

- EFFECTS ON BONE TISSUE
Pulsed magnetic fields improve osteogenesis.
There is an increase of vascular supply (hypervascularization) and bone resistance.

- TISSUE ANTI-AGEING ACTION
Action on collagen

Vasodilation

Improvement of connective and skin metabolism.

- EFFECTS ON THE CENTRAL PERIPHERAL SYSTEM

Increase of ion exchanges at cell membrane level.

Membrane stabilization with hyperpolarisation events related to the influence on the sodium/potassium pump and ion exchanges.

Electrical conductivity standardization. Analgesic effect.

Increase of mental and individual performances.

Neuroregulation effects on the diencephalon, the reticular substance, the hypothalamus, the adrenal gland, the liver and the spleen.

- EFFECTS ON INFLAMMATION

Anti-edema effect

Effect on the sodium/potassium pump. Modification of membrane permeability. Bacteriostatic activity.

Muscular spasm resolution. Analgesic action.

Faster recovery of soft tissues.

Standardization of the potential difference between the damaged area of the cellular membrane and the normal area (many pathologies have a potential imbalance).

General Application Methods

During magnetotherapy, the patient has no direct perception of the field application. The action is strictly connected to the ability of tissue components to react to the phenomenon of magnetic induction.

Moreover, the duration of the exposition to the field plays a critical role and will vary depending on the age and the speed of the biological rhythm of the patient. The gradual action and the effectiveness of the treatment can be fully observed over a long time. Magnetotherapy is particularly suited for chronic disorders, but it also reduces the time of recovery from acute traumas. The symptom treatment of acute pain may be combined with other physical therapies having a more immediate impact on the patient (IR Laser, TENS).

The polarity of the magnetic field is indicated on the diffusers, so they can be used singularly or with coherent magnetic field linkage (one solenoid on the treatment field and one below, both oriented with the same polarity), adding the produced fields together. The diffuser has to be placed in direct contact with the treatment field. Hair-shaving is not necessary. Use a cloth dampened with water to clean and disinfect the diffuser.

Example of diffuser connection

As you can see, one side of the diffusers is marked with the GLOBUS logo. The GLOBUS logo printed on the diffuser indicates the output of the magnetic field. E.g. LOGO = NORTH

Place the diffuser(s) on the treatment field. If necessary, use elastic bands to adhere them to the body.

Pict. 1 How to use the two diffusers to create a coherent magnetic field linkage. Indicated for deep-action treatments (e.g. in case of fractures)

Pict. 2. How to use the two diffusers on large surfaces, such as a whole limb or the back.

PROGRAM LIST

Dog-cat program list

Name of the program	Duration	Suggested Gauss
Fracture	from 15 to 30 min	40
Pseudoarthrosis	from 15 to 30 min	50
Osteoarthrosis	20 min	30
Wounds/Ulcers	20 min	40
Hip osteoarthrosis	from 15 to 30 min	30
Knee osteoarthritis	from 15 to 30 min	30
Elbow osteoarthrosis	from 15 to 30 min	30
Shoulder osteoarthrosis	from 15 to 30 min	30
Spondylarthrosis	from 15 to 30 min	30
Discopathy	20 min	30
Luxation	20 min	40
Arthritis	20 min	20
Arthrosis	20 min	20
Delayed Fracture Consolidation	From 30 to 50 min	30
Cicatrization	20 min	20
Edema	20 min	35
Muscle relaxation	20 min	35
Urinary retention	20 min	30
Smooth muscles	20 min	30
Peripheral paralysis	20 min	30
Inflammation pain	20 min	30

Horse program list

Treatment Name	Duration	Suggested Gauss
Fractures	45 min	40 Gauss
Wounds/ulcers	45 min	40 Gauss
Elbow osteoarthrosis	45 min	30 Gauss
Shoulder osteoarthrosis	45 min	30 Gauss
Arthritis	35 min	20 Gauss
Arthrosis	35 min	20 Gauss
Delayed Fracture Consolidation	40 min	40 Gauss

WARRANTY CONDITIONS

The device is covered by a 24-month warranty starting from the date of purchase for manufacturing or material flaws, provided that it is used properly and kept in normal conditions of efficiency.

In order to take advantage of the warranty service, the user must comply with the following warranty clauses:

1. The products returned for repair have to be shipped in their original packages, including their accessories, at customer's expenses.
2. The product's warranty is subject to the production of a fiscal document (fiscal receipt, receipted bill or sale invoice), attesting the product's purchase date.
3. The repair work shall have no effect on the original expiry date of the warranty and shall neither renew nor extend it.
4. If no defects are found, during the repair work, the costs related to inspection times shall in any case be charged.
5. The warranty becomes void where the fault has been caused by: impacts, falls, erroneous or improper use of the product, use of non-original power supplies or charger, accidental events, alteration, replacement/detachment of the warranty seals and/or tampering with the product. The warranty does not cover damages caused during transportation when unsuitable packages are used (see point 1).
6. The warranty does not cover the inability to use the product, other incidental or consequential costs or other expenses incurred by the purchaser.

NOTE: Before returning the device for repairs, it is strongly advisable to read carefully the user's instructions contained in the manual.
In case of device faults, contact your retailer.
The manufacturer reserves the right to make all necessary modifications at any time in order to improve the aspect and quality of the product.

GLOBUSVet
Yes, WE CARE