

Magic Carbo

CMV1.3

Carboxytherapy Equipment

User Manual



- ◇ Double treatment out to injection needles
- ◇ Active timer
- ◇ Passive counter
- ◇ Digital gas flow / pressure control
- ◇ Digital treatment dosing
- ◇ Soft touch key pad
- ◇ Footswitch
- ◇ Optional finger switch
- ◇ Co2 UV sterilizer and Gas purifier

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Magic Carbo

CMV1.3

Carboxytherapy Equipment

1.1 EQUIPMENT AND ACCESSORIES INCLUDED IN SYSTEM PACK

Part Description	Quantity
Magic Carbo CMV1.3 Main Unit	1
Co2 Medical Gas Filters	2
Co2 Gas Regulator	1
Foot Switch	1
Hand Switch (Optional Use)	1
Power Cord	1

1.2 TECHNICAL SPECIFICATIONS

CO ₂ input pressure	2.5-3.5 bar (250-350 kPa)
Minimum selectable flow rate	7ml/m
Maximum selectable flow rate	300 ml/m
Voltage supply	230 VAC – 50 /60 Hz
Dimensions	530mm x 450mm x 430mm
Weight	15kg

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Magic Carbo

CMV1.3

Carboxytherapy Equipment

1.3

INSTALLATION OF A NEW UNIT

A brand new Magic Carbo unit comes packed with all parts and accessories noted in 1.1. System needs careful installation with care to initialize its first use by the practitioner. Please follow the instructions below carefully.

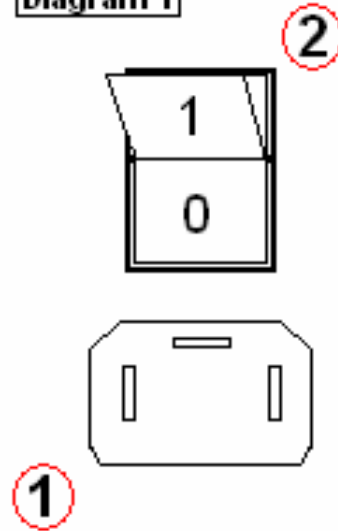
1. Unpack the box that Magic Carbo delivered to you. Please check that you have the following parts ready to assemble; 1 piece of Magic Carbo main unit, 1 piece of CO2 gas regulator, 2 pieces of medical grade CO2 gas filters, 1 piece of foot switch, 1 piece of power cord.
2. Insert the power cord into the plug at the back of the main unit Magic Carbo (please see the diagram 1 below and find item number 1 for reference) however do not plug the other end of the cord into the main electricity supply yet (220VAC).
3. Plug in the footswitch into the related plug hole at the front of the main unit (see item no 4 in the reference picture 1).
4. Screw the CO2 gas regulator into the CO2 gas cylinder (At this point you must have already been provided with a CO2 cylinder by your local medical grade CO2 gas supplier.)
5. You will find a CO2 hose (transparent) attached to the gas regulator; plug in the hose to the gas input hole at the back of the main unit
6. Plug the power cord into the main power supply (220VAC).
7. Put the two treatment apparatus with filters into the treatment outs at the front of the system.

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CMV1.3

Carboxytherapy Equipment

Diagram 1



Reference Picture 1



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CMV1.3

Carboxytherapy Equipment

1.4

TREATMENT APPARATUS

Treatment Needles;

Any type of sterile disposable needles could be used however for the sake of a pain free treatment 30 G very fine cut needles should be used. The case studies have shown that very thin and medium length needles easier the treatment.

Gas Filters;

Gas filters are specifically designed for medical use; they are disposable and should be changed after some constant use. Please ask the manufacturer for replacement filters when needed, you will be supplied immediately.



CO2 Gas Cylinder;

You need a CO2 gas cylinder for the gas input. Gas cylinders can only be transported in special containers otherwise are prohibited from transport overseas. For this reason you must get a CO2 cylinder from your local supplier, it must be medical grade highest purity.

CO2 Gas Regulator;

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CMV1.3

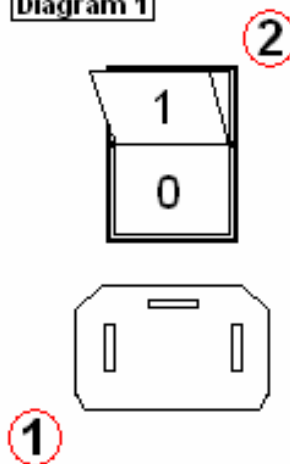
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CO2 gas regulator is used to regulate the gas pressure input to the main unit. The regulator is supplied to you by the manufacturer. The optimum working pressure is set with the regulator before operation (see operation).

2.1 OPERATION PROCEDURES

1. Ensure that you carefully follow the installation procedures explained in 1.3 above.
2. Ensure that the CO2 gas regulator tap is closed fully, slowly open the CO2 gas cylinder tap.
3. Keep an eye on the input pressure gauge mounted on the right side of the front panel main unit Magic Carbo (see below picture). Start slowly opening the CO2 gas regulator while checking the input pressure gauge; you must open it until you read 3 psi pressure on the gauge. Maintaining the input pressure at this level is very important. You can decrease the pressure level by closing the CO2 regulator tap and increase it by opening it.
4. Turn on the main power switch at the back of the main unit (see item no 2 below).

Diagram 1



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5. Turn on the secondary switch at the front of the main unit (see item no 3 below).

Reference Picture 1



6. At this point magic carbo is ready to set for treatment, please follow the instructions at 2.2 below.

2.2

SETTING THE TREATMENT PARAMETERS

Front Panel Diagram

LCD

P: 0 T: 00:00

< > << >> Set Stop

Line 1 Line 2 Clear UV

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Setting the treatment gas flow;

P: Treatment Pressure (Gas Flow)

Gas flow must be set before starting the treatment. Treatment gas flow can be set by the control panel shown above.

-  1. Button increases the gas pressure by 15 cc/min.
-  2. Button decreases the gas pressure by 15 ccl/min.
-  3. Button increases the gas pressure by 75 cc/min.
-  4. Button decreases the gas pressure by 75 cc/min.

After you set the desired gas flow, you must set the time, please follow the instructions below.

Setting the treatment time;

T: Treatment time

There are two optional time settings; Time can be set **Active** or **Passive**.

When active time is selected, the system works until the set time is over. When the set time is over system stops working although the footswitch is pressed.



When time is set passive; the system works regardless of time, it works as long as the footswitch is pressed. You must keep a track of the time taken during the treatment on your own.

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Setting the time **Active**;

1. Press the  **Set** button is pressed twice, the system will bring up a question; Time Active or Passive?
2. If you want to set the time Active; you must press  **Set** button.
3. After you select active; you must set the time now.

There are 4 digits that can be set; every digit is selectable from 1 to 9.

For example;

If you want the time 9 minutes, you must set 9 to the first digit from right.

If you want the time 19 minutes you must set 9 to the first digit from right and set 1 to the second digit from right.

1. The selectable digits can be moved towards left and right by the following buttons.



2. Selected digits can be set as desired by increasing or decreasing one figure by the

following buttons. 



Setting the time **Passive**;

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1. Press the  **Set** button is pressed twice, the system will bring up a question;
Time Active or Passive?
2. If you want to set the time Active; you must press  **Stop** (Please note; “Stop” button is labeled as “Reset” in some demo units, this is a print error we are aware of please regard it as “Stop”) button.
Time is set passive.

Starting treatment;

After you set the desired gas flow and time for treatment;

- Insert the treatment needles into injection points.
- Press the footswitch
- Press the “UV” button at the front panel. (Please note; in some demo units this button is marked as “Defrost” this is a print error we are aware of please regard to this button as “UV”)

UV button is used to activate the integrated UV-C sterile function for reassurance.

- Press the Line 1 and Line 2 buttons

Finishing treatment;

- Take your foot of the footswitch
- Take out the injection needles.
- Turn off the CO2 cylinder tap firmly. (Do not turn off the regulator tap, in this way you can find it already regulated to apx. 3 psi as you initially set.)

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- Press the footswitch and press the “clean” button. Keep the footswitch press until the gas is totally out of the system. You can hear the gas flowing out, and the noise will disappear when it is completely out, you will notice easily.

Please note: The four buttons (Line 1, Line2, Clean, and UV) will only be active when the footswitch is pressed. At any point during the treatment if you let your foot off the footswitch, the four buttons will be deactivated. When you press the footswitch again you must also press these buttons again to restart the functions once again. The LED's above the buttons will turn on when the buttons are pressed and active.

If the optional hand switch is used instead of the footswitch; it should not be kept on all this time, it must be taken out before the system is turned on and only be plugged in to start the treatment. The system may not perform correctly while setting up the parameters if it is plugged in beforehand.

2.3

TREATMENT PROCEDURES

As a general rule to the treatment, you should start at low gas flow. Starting at low gas flow is essential for the patient to adopt and be comfortable with the treatment. Following this higher gas flow rates can be proceeded. The flow rate can be adjusted regarding the feedback that you obtain from the patient at first session. You will find that different patients will have very different strength levels against this kind of treatment procedures as well as different adaptation times.

After all parameters are set, rest the patient on the treatment bed and clean the treatment points.

Magic Carbo

CMV1.3

Carboxytherapy Equipment

30G or 22G treatment needles can be used. Insert the treatment needle with a very small angle such as 30 or 45 degrees to the treatment points. Apply the gas into the sub dermal area.

CO2 gas can move very fast under the skin; for this reason you are only required to complete the treatment from a few injection points.

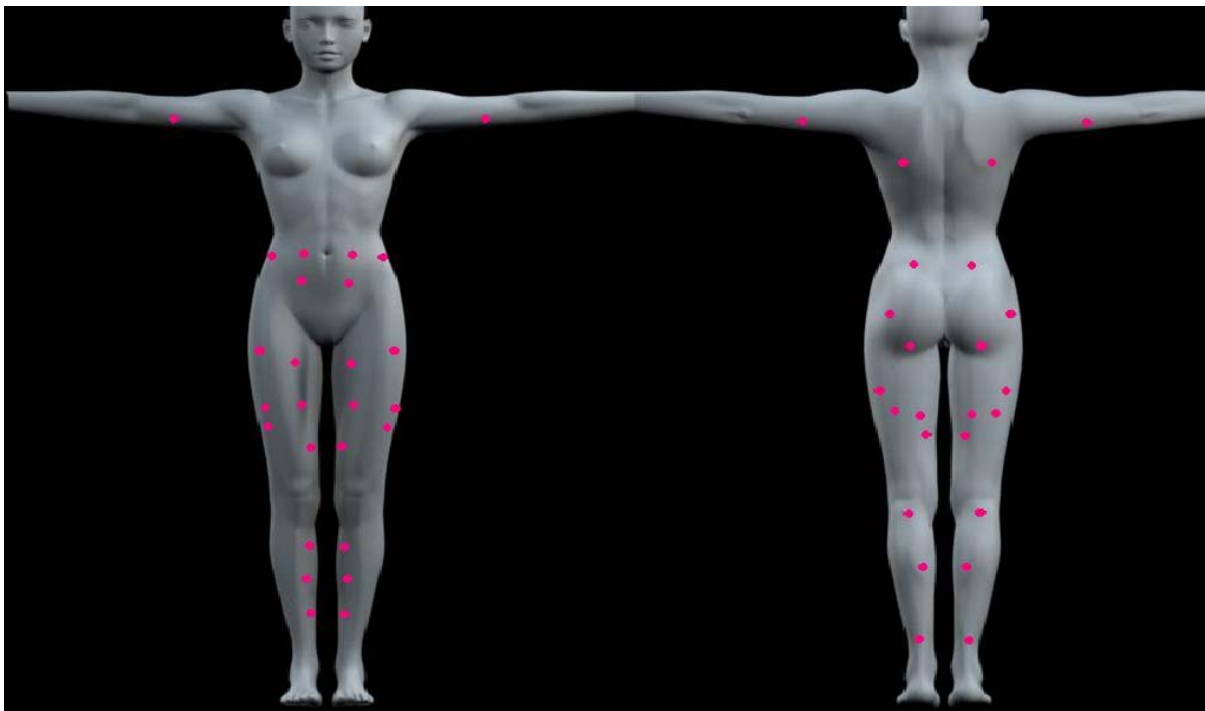
Because of double treatment out option of Magic Carbo, you can apply the needles symmetric.

The flow of the gas under the skin can be recognized from the surface of the skin. The area that the gas has reached turns slightly purple and some temperature rise can be felt within a few minutes. It can be helpful to massage the treatment areas after the treatment.

After the treatment it can be a very good idea to massage the treatment area afterwards.

2.4

INJECTION POINTS



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Carboxytherapy Equipment

2.4

TREATMENT SUGGESTIONS

- Start with medium gas flow rate such as 80cc/min
- As the patient adapts you can higher the rate of gas flow
- The following sessions could be started with higher rates.
- If the patient starts to complain during the treatment, you may change the injection points.
- You will see the gas spreading under the skin, you will be able to see when treatment area is completely filled with the desired gas, and at that point you may stop the session.

3.1

WARNINGS

“Magic Carbo” is a medical device and must be used by medical professionals only who are trained for treatment.

This user manual must be kept at an easy accessible place within the treatment room. The procedures should always be followed carefully. It should not be used for any other purposes then Carboxytherapy treatment.

Carboxytherapy must not be performed to the patients with the following health conditions or history of them in the near future;

- Cardiac patients
- Diabetic patients using insulin
- Cancer patients
- Nervous system disorders

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CMV1.3

Carboxytherapy Equipment

- Pregnant woman
- Bleeding disorders

The treatments are done directly under the responsibility of the practitioner MD's.

Medical CO2 cylinders and high purity medical grade CO2 gas must be used for the treatment.

Medical filters must be used and be supplied by the manufacturer.

CO2 cylinder must be kept away from direct sunlight exposure.

3.1

REVERSE EFFECTS

The following are the possible reverse effects;

- High sensitivity at the treatment area
- Cracking sensations under the skin
- Redness in the treatment area
- Heavy feeling at the lower body

3.2

REPEATING SESSIONS

- Carboxytherapy for Aesthetic treatments is suggested to be performed once a week.
- Approximately 15 sessions is suggested for a complete treatment, this number can be increased regarding the results.
- 2-3 repeated courses of treatments can be performed within a year if desired.

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