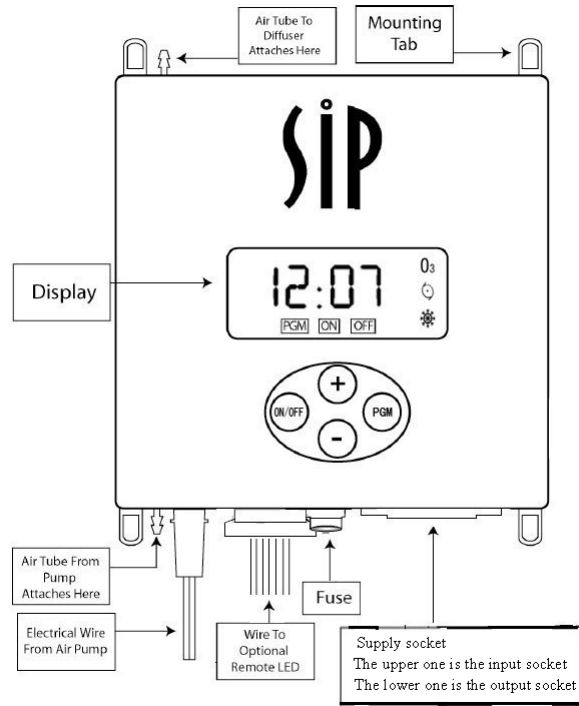


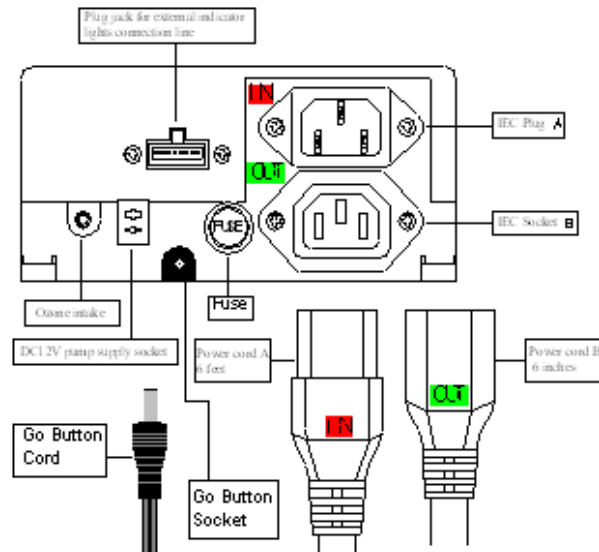
# SIP 2000

## OPERATION AND PROGRAMMING MANUAL

## Sip 2000 main control unit



## Bottom view of the SIP 2000 main control unit



The various input and output connections for the SIP 2000 are conveniently located on the bottom of the main control unit. For operation, insert the female end of power cord A into the male Plug A (marked with a red "in" label) The opposite end of Plug A will fit a standard wall outlet but should not be plugged into a power supply until the SIP 2000 has been completely installed in the water dispenser.

Insert power cord B into the female socket B (marked with a green "out" label). Plug the main power supply cord for the water dispenser into the female or opposite end of cord B.

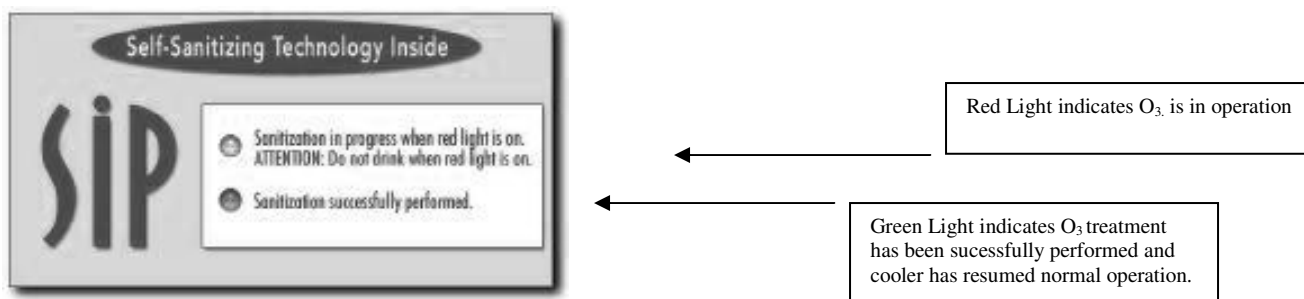
A rectangular receptacle with 2 inputs powers the air pump The air pump power supply cord is permanently attached to the air pump and cannot be removed. Insert the air pump power supply cord in this receptacle.

Another rectangular receptacle, this one with 6 inputs and flanked by 2 Phillips screws, is for the led display light system. The function of these lights is described below. A multi-colored ribbon cable with 2 led lights on one end and a 6 pronged connector on the opposite end has been packed with your unit.

The SIP 2000 is protected by a 2 amp fuse located near the left side of the power cord B socket. The fuse is clearly marked "fuse".

A green "go" button and wire connector is included with your SIP 200 unit. This device allows the programming to be overridden for short test periods in order to verify that the SIP unit is working properly. The male end of the "go" button wire should be inserted into the female "go" button socket located on the bottom of the SIP main control unit. Once inserted the "go" button will activate the O<sub>3</sub> operation whenever the green button is depressed.

## **External Indicator Lights of SIP2000**



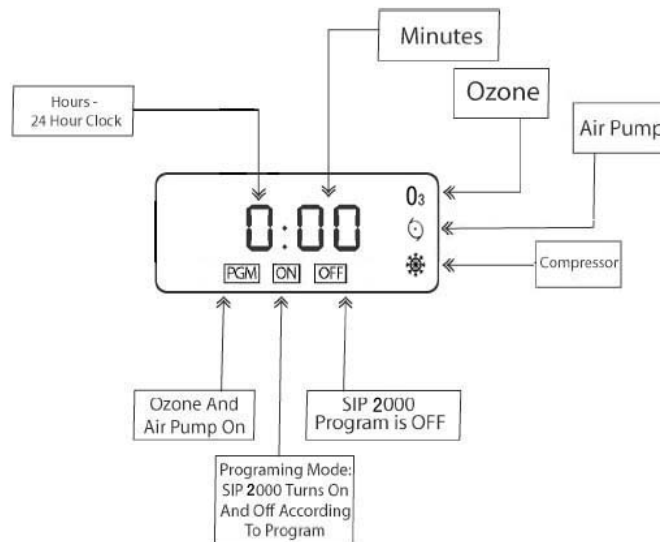
The external indicator lights are only used to display the working status of the various functions when the SIP2000 machine is in normal operation.

The red light is the O<sub>3</sub> indicator which turns on when O<sub>3</sub> is in operation.

The green light is the power indicator which will turn on when a power supply is connected. It will go out when power is not connected.

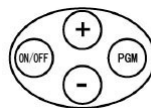
## The SIP 2000 Display Window

The SIP2000 screen uses an LCD backlight for legible and clear data display. This screen will be used, during programming, when setting, on, off, and operating time for the Ozone generator, air pump, and water dispenser. During normal operation this screen will show the time of day using a 24 hour clock mode. Additional icons show the current operating function.



## The Function Buttons

There are 4 buttons below the front display window (see Figure 5) They are used for:



Function button for time and function settings



Press + or - to set time or data

Your SIP system has been pre-programmed at the factory. Only the local time needs to be adjusted to make your SIP system functional. Follow the guide below to adjust the local time settings. If you would like to adjust your SIP system function programming contact your SIP distributor for an easy step by step programming guide.

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## **Operation of Function Settings**

The following icons are used in the SIP 2000 display window to indicate:

O<sub>3</sub>      Ozone Generator





Air Pump




Water Dispenser

## **UNLOCKING THE PROGRAMMING BUTTONS**



Press  AND  button to unlock the unit to allow it to be programmed.

## **SETTING THE LOCAL TIME**




A time adjustment will most likely be needed to set the clock to your local time. Here is an example of how change the clock from midnight (00:00) to 10:10 PM (22:10).

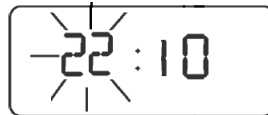
Press the  button, the time blinks and shows the original time setting.




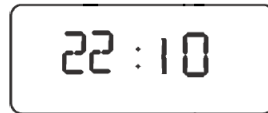
Press  or  button to set the hour section (the hour section stops blinking while the minute section blinks). Set the desired time. In this example the setting will be 22 and will look like this.



Press the  button to confirm the above setting and shift to the minute settings (the hour section blinks and the minute section stops blinking). Press  or  button to set the desired time. This time the setting will be 10 and your screen should look like this.







Press the  button to confirm the minute section setting and it will show the time, indicating that the setting is completed. The current time, in 24 hour format, for your location should now be visible in the window.




## PROGRAMMING THE FUNCTION TIME



### O<sub>3</sub> (Ozone Generator) Program


Press  and  buttons simultaneously until the PGM and ON icons appear in the bottom of the window. You should also see the Ozone Generator icon (O<sub>3</sub>) in the upper right corner of the window. You are now in the function programming mode. The hours and minutes section of the window indicate what time the O<sub>3</sub> (Ozone Generator) is programmed to turn on.



Using the  and  the buttons set the time to 3 as in the example below.






Press the  button to confirm the above setting and shift to minute section setting.

Press  or  button to set the minute section of the O<sub>3</sub> (Ozone Generator) start-up time as in the example above. You now have programmed your SIP 2000 unit to turn on the O<sub>3</sub> (Ozone Generator) at 3 AM.




Press the  button to confirm the above setting and shift to the setting of the O<sub>3</sub> (Ozone Generator) shutdown time. The screen will display the factory setting of the O<sub>3</sub> (Ozone Generator) shutdown time and the PGM, OFF and O<sub>3</sub> signs.

Press  or  button to set the hour section of the O<sub>3</sub> (Ozone Generator) shut down time to 3 as in the example below.




Press the  button to confirm the above setting and shift to the setting of O<sub>3</sub> (Ozone Generator) shutdown time minutes section.



Press  or  button to set the minute section to 10 as in the example above. You now have programmed your SIP 2000 unit to turn off the O<sub>3</sub> (Ozone Generator) at 3:10 AM.





### (Air Pump) Program




After the above settings are confirmed, press the  button to shift to the setting of the Air Pump operation time. It will display the original factory setting of the  (Air Pump) and the signs of PGM, ON and .










Press  or  button to set the hour section of the  (Air Pump) start up (note this must be the same as the O<sub>3</sub> (Ozone Generator) start up time). In this example it will be 3 as depicted below.




Press the  button again to confirm the hours setting and shift to the  (Air Pump) start up minute section.

Press  or  button to change the  (Air Pump) start up minutes to 00 as depicted in the example above. You have now programmed the  (Air Pump) to come on at the same time the O<sub>3</sub> (Ozone Generator) starts.





Press the  button again to confirm the  (Air Pump) start up settings and shift to the  (Air Pump) shut down settings.




Press  or  to enter the hour that you would like the  (Air Pump) to shut down. We are using 3 for this example. (Remember the  (Air Pump) must run the entire time the O<sub>3</sub> (Ozone Generator) is operating and should run an additional 10 minutes after the O<sub>3</sub> (Ozone Generator) to dissipate the O<sub>3</sub> in the water.)

Press the  button again to confirm the  (Air Pump) hours setting and enter the  (Air Pump) minutes setting.



Press the  or  buttons to enter the desired minutes. In this example we are using 30. Your window should look like the example above. You now have programmed the  (Air Pump) to shut down.





## **(Water Dispenser) Program**



Press the  button to confirm the  (Air Pump) settings and shift to the settings for the  (Water Dispenser) shut down hours. (Note that unlike the examples above these settings first shut down rather than start up the  (Water Dispenser).)






Press  or  button to set the hour section of the  (Water Dispenser) shut down. In our example below we have entered 1.





Press the  button to confirm the previous settings and shift to the settings for the  (Water Dispenser) shut down minutes.


Press  or  button to set the minute section of the  (Water Dispenser) shut down. In our example above we have entered 00. You have now completed the  (Water Dispenser) shut down programming.

Press the  button to confirm the previous settings and shift to the settings for the  (Water Dispenser) start up hour.

Press  or  button to enter the correct hour for  (Water Dispenser) start up. (Remember that the water dispenser should not be turned on until the  (Air Pump) has completed its cycle.) As you can see below we used 3 in our example because the  (Air Pump) shuts down at 3:30.

Press the  button to confirm the previous settings and shift to the settings for  (Water Dispenser) start up minutes.

Press  or  button to enter the correct minutes for  (Water Dispenser) start up. We used 30 in the example above. You have now programmed all of your SIP 2000 functions.

Press  button to confirm the previous settings and complete the process

**Congratulation! You have now programmed all of your SIP 2000 functions.**

**SIP Technologies, LLC Limited Warranty**

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C.

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