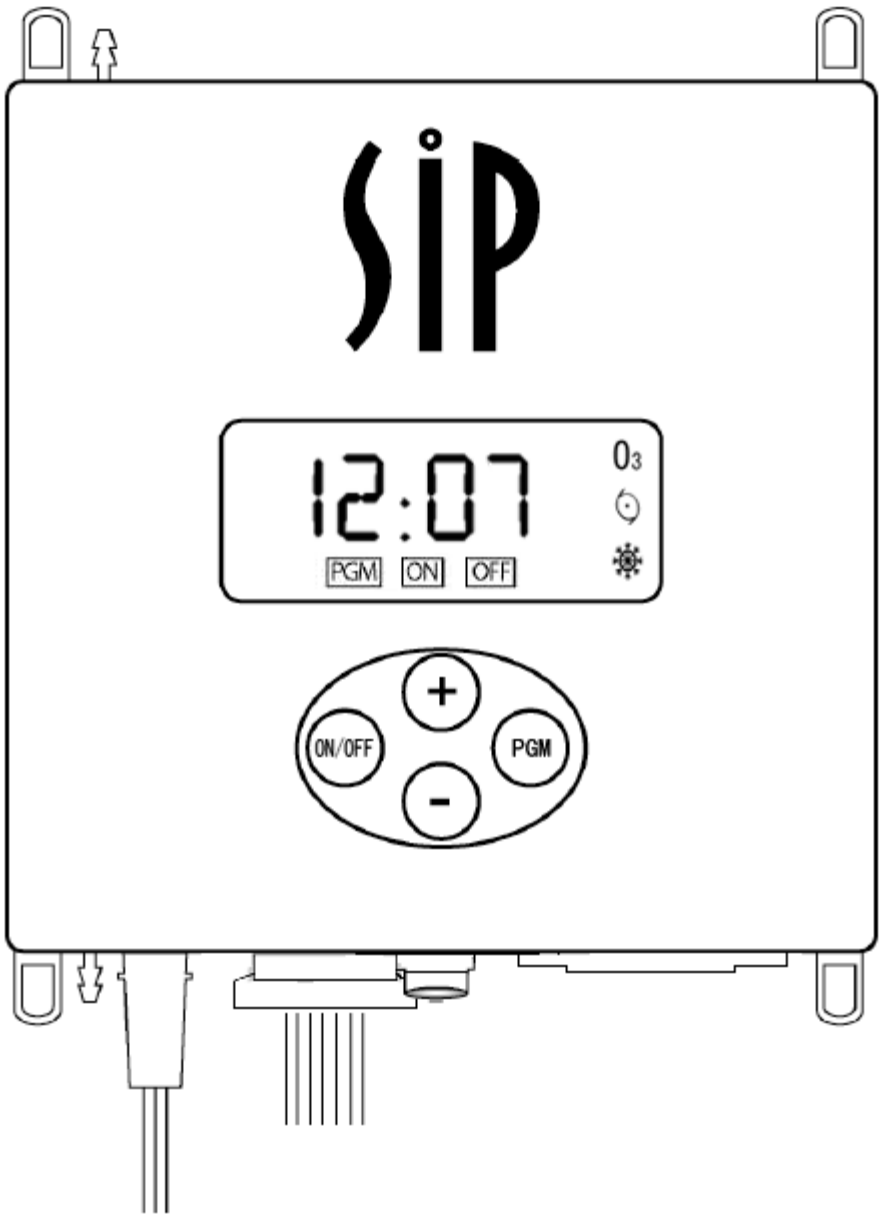
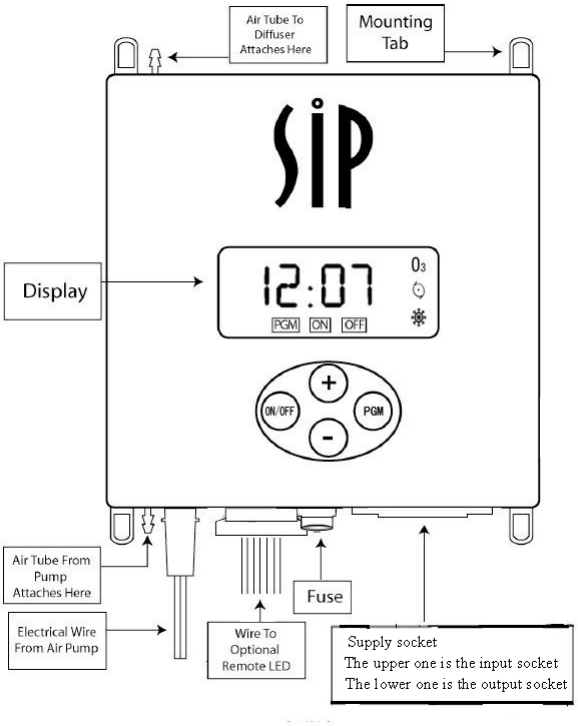


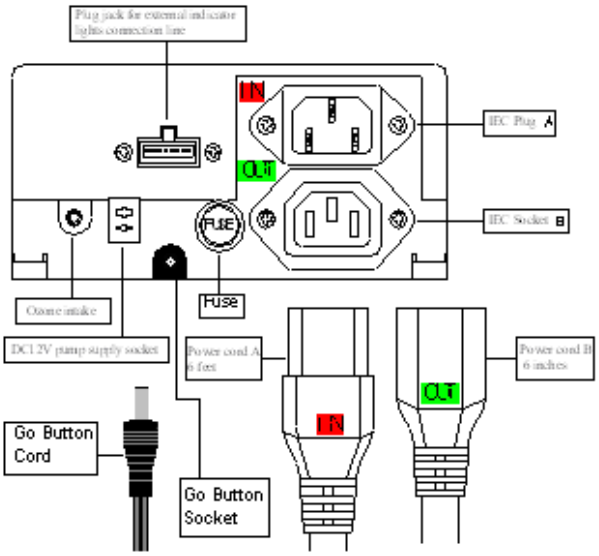
SIP 2000

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 (shown in diagram above 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 (shown above with a green "out" label). Plug the main power supply cord for the water dispenser into the female or opposite end of cord B.

The air pump is the small rectangular box found in the SIP 2000 box. The air pump power supply cord is permanently attached to the air pump and cannot be removed, this must be fitted to the SIP 2000 box in the area marked DC12v position in the diagram.

The optional led display light system can be connected in the area shown in the diagram. The function of these lights is described below. A multi-colored ribbon cable with a led light 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. The green button can then be attached in a discreet location onto the exterior of the cooler. Once inserted the "go" button will activate the O_3 operation whenever the green button is depressed.

External Indicator Lights of SIP2000

Red Light indicates O_3 is in operation

Green Light indicates O_3 treatment has been successfully performed and cooler has resumed normal operation.

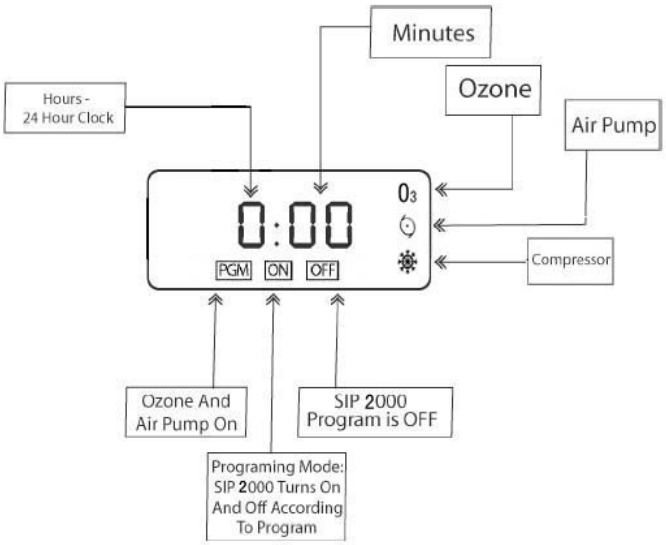
The external indicator light is only used to display the working status of the various functions when the SIP2000 machine is in normal operation. This optional led feature can be fitted to the front of the water cooler and mounted on the label provided.

The red light is the O_3 indictor and will illuminate when O_3 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.

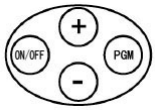
The SIP 2000 Display Window

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.

Operation of Function Settings

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

O_3 Ozone Generator

Air Pump

Water Dispenser

When the O_3 icon is displayed then you are programming the ozone operation. Likewise, the air pump and water dispenser icon indicates that you are programming the operation of these functions. Remember that you will program the O_3 and air pump to come on at the same time, as the air pump must be in operation in order to allow the SIP 2000 to manufacture ozone. You should program the air pump to continue working for 10 minutes after the ozone function is completed. This allows the ozone to be dissipated and to leave no residual ozone in the reservoir after the program is completed. The water dispenser icon allows you to control the operation of the water cooler. Therefore, the cooler can be shut down during periods of inactivity to save energy.

UNLOCKING THE PROGRAMMING BUTTONS

Press (+) AND (-) button to unlock the unit to allow it to be programmed.

PROGRAMMING THE FUNCTION TIME

O_3 (Ozone Generator) _Program

Press (ON/OFF) and (PGM) buttons simultaneously until the PGM and ON icons appear in the bottom of the window. You should also see the Ozone Generator icon (O_3) 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_3 (Ozone Generator) is programmed to turn on.

Using the (+) and (-) the buttons set the time to 3am as in the example below.

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

Press (+) or (-) button to set the minute section of the O_3 (Ozone Generator) start-up time as in the example above. You now have programmed your SIP 2000 unit to turn on the O_3 (Ozone Generator) at 3 AM.

Press the (PGM) button to confirm the above setting and shift to the setting of the O_3 (Ozone Generator) shutdown time. The screen will display the factory setting of the O_3 (Ozone Generator) shutdown time and the PGM, OFF and O_3 signs.

Press (+) or (-) button to set the hour section of the O_3 (Ozone Generator) shut down time to 3 as in the example below.

Press the (PGM) button to confirm the above setting and shift to the setting of O_3 (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_3 (Ozone Generator) at 3:10 AM.

(Air Pump) Program

After the above settings are confirmed, press the PGM 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 (remember this must be the same as the O_3 (Ozone Generator) start up time). In this example it will be 3 as depicted below.

Press the PGM 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_3 (Ozone Generator) starts.

Press the PGM 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_3 (Ozone Generator) is operating and should run an additional 10 minutes after the O_3 (Ozone Generator) to dissipate the O_3 in the water.)

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

Press (+) or (-) button to enter the hour required for ❄ (Water Dispenser) start up. Press the PGM button to confirm the previous settings and shift to the settings for ❄ (Water Dispenser) start up minutes.

Press (+) or (-) button to enter the required minutes for ❄ (Water Dispenser) start up.

You have now programmed all of your SIP 2000 functions.

Press PGM button to confirm the previous settings and complete the process

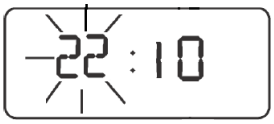
SETTING THE LOCAL TIME

The last stage in the programming of the SIP system is 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 PGM 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 PGM 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 PGM 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.

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

Installation of SIP 2000 and SIP 2000B

Installing the SIP 2000 and SIP 2000B (this is the model that comes with a mounting bracket) is relatively straightforward. However, there are some key things to be aware of when performing this task.

For the SIP 2000B only:

- Your unit will be delivered to you with all the ancillary parts pre assembled onto a bracket to make the installation process installation process quicker.

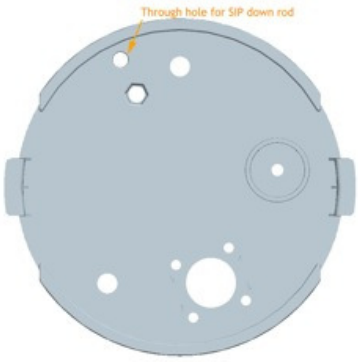
- You must connect all the parts to the SIP 2000 box as outlined in page 1. You must them attach the SIP 2000 box to the bracket using the screws provided, install onto the cooler and follow the installation instructions below.

For SIP 2000 and SIP 2000B:

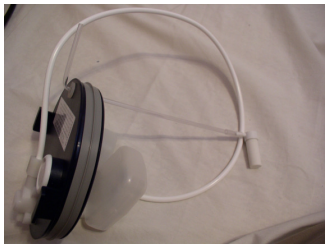
- The SIP system can be fitted anywhere on the interior of the exterior of the cooler itself. The "s" hooks are provided to quickly and simply hang the SIP units on the back of the cooler's condenser. Should you prefer to fit SIP into the interior of the cooler then we would advise however that care is taken to ensure that the all of the SIP parts are kept away from the cooler's hot tank.
- The first step in correctly fitting the SIP is to attach the SIP 2000 to the air pump with the silicone tubing provided. You will need to cut the silicone tubing to fit (6-8 inches should be enough) remembering that you need to leave enough tubing to attach to the down rod to fit into the reservoir.
- The next step is to attach the down rod to the diffuser assembly.

- Following this we need to fasten the down rod into the cooler reservoir. In some cooler models the down rod is already attached to the cooler and in other models the hole to accept the down rod has been pre-cut (see diagram on next page). If you do not have any of these models you will need to pierce the hole yourself. The

easiest way to do this is through the lid at the top of the reservoir. However, please pay careful attention not to damage the float mechanism when doing this.



- The completed assembly of the diffuser and down rod should look something like this:



- Once the down rod is securely attached and the diffuser assembly is fitted near the base of the reservoir you need to connect it to the SIP 2000 unit using the silicone tubing.
- Finally, you need to cut this tubing to fit the air filter and the check valve. As we are dissipating the ozone with air after sanitisation, it is important that this air contains no contaminants. The air filter ensures that this is the case but it needs to be replaced at least once per year. The check valve stops the possibility of any water moving back through the tubing and into the air filter and the SIP unit itself. In order to fit these parts you need to cut the tubing and re-attach it at either end of the part. Caution, the air filter must be located in an area that is easily accessible in the future in order to change the filter in an efficient manner and the check valve must be placed between the air filter and the reservoir. We recommend that it is attached as close to the reservoir as possible. Special attention must be paid to ensure that the check valve is fitted correctly. You must fit it in the direction outlined below:

Direction of airflow from check valve into reservoir

Direction of airflow from SIP unit into check valve

- Should it be required, you can attach the foam pads to the back of the SIP 2000 unit. This will reduce any vibration and noise during operation, especially if it is attached to the cooler's condenser.

SIP Technologies, LLC Limited Warranty

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