



**S.O. Ltd**

## **Samba Storm Evaporative Air Coolers**

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### **SO2000ST Operating Instructions**



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The company reserves the right to change the product design and the specification without prior notice.



## Troubleshooting

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Fault	Reasons	Remedy/Solutions
1.No Power light	<ol style="list-style-type: none"> <li>1 .No power.</li> <li>2.Main PCB fault.</li> <li>3. Fuse blown.</li> <li>4. Control panel faulty.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check power supply.</li> <li>2. Change main board</li> <li>3. Change the fuse.</li> <li>4. Change the panel.</li> </ol>
2.The unit runs erratically.	<ol style="list-style-type: none"> <li>1Power fluctuations.</li> <li>2.Possible electrical interference</li> <li>3. Main PCB fault.</li> <li>4. Check mode unit is operating in</li> </ol>	<ol style="list-style-type: none"> <li>1. Check power supply.</li> <li>2. Move unit to different location.</li> <li>3. Change the main PCB.</li> <li>4. Check mode switch position.</li> </ol>
3. Display normal. Low or no air flow.	<ol style="list-style-type: none"> <li>1. Fan has stopped.</li> <li>2. Pad or dust screen blocked.</li> <li>3. Fan is damaged.</li> <li>4. Main PCB faulty.</li> </ol>	<ol style="list-style-type: none"> <li>1. .Check fan speed switch. Check fan cowling for interference.</li> <li>2. Clean/ change pad or dust screen.</li> <li>3. Change the fan.</li> <li>4. Change main PCB.</li> </ol>
4. The unit does not work	<ol style="list-style-type: none"> <li>1. Master control board faulty.</li> <li>2. Control panel faulty.</li> </ol>	<ol style="list-style-type: none"> <li>1. Change the master control board.</li> <li>2. Change the panel.</li> </ol>
5. Unusual noises.	<ol style="list-style-type: none"> <li>1. Debris inside fan housing.</li> <li>2. Fan loose.</li> <li>3 .Motor fault.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove dust screen and pad. Remove items from inside housing</li> <li>2 .Check and tighten fan.</li> <li>3. Change the motor.</li> </ol>

Note: These instructions are for reference purposes only. If any additional technical assistance is required, please contact S.O. Ltd or your nearest S.O. Ltd distributor.

## Cleaning:

### ◆ Dust screen

Remove retaining screw, press down the retainer clips and pull the screen out. Wash screen with mild detergent and soft brush or rinse with water.

### ◆ Cooling pad

Unplug the air cooler. Remove the filter screen, then carefully remove cooling pad from the back of the unit. Scrub pad carefully with soft brush and rinse with water.

**Note: Do not use high pressure water or strong detergents to clean pad.**

### ◆ Water tank

Remove drain cover to drain water from the tank. Remove the screen and pad. Rinse water tank with clean water. Once the dirty water has drained refit drain cover and refill with clean water.

Suggestion: Change water everyday to avoid odors.

## Specifications

Name	Unit	Model: SO2000ST
Max airflow	m <sup>3</sup> /h	3500
Power supply/Frequency	V/Hz	120/60
Power consumption	W	350
Style		Centrifugal
Water consumption	L/H	3-4
Water capacity	L	80
Dimension	L x M x H(mm)	620x440x1710
Net weight	Kg	34
Size of air outlet	L x H(mm)	460x260
Sound	dB(A)	54
Effective area	m <sup>2</sup>	20-30
Work current	A	3.3

## Preface

Thank you, for choosing the SO2000ST Samba Storm evaporative air cooler.

Please note the appearance of the unit you have purchased may vary from the one illustrated in this manual. This is due to continual product development and will not affect the performance of the unit.

Please read this instruction manual carefully before operating the unit.

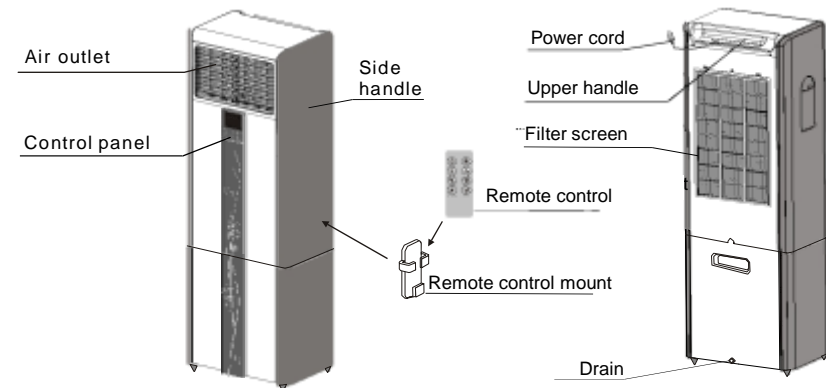
## Basic principle of operation

The pump circulates water from the base tank and distributes it evenly onto the cooling pad. The fan draws air from outside and pulls it through the wet pad. As the hot air passes through the pad, it is cooled by the evaporation of the water. This process produces fresh, cool air. The excess water returns to the base tank where it is re-cycled.

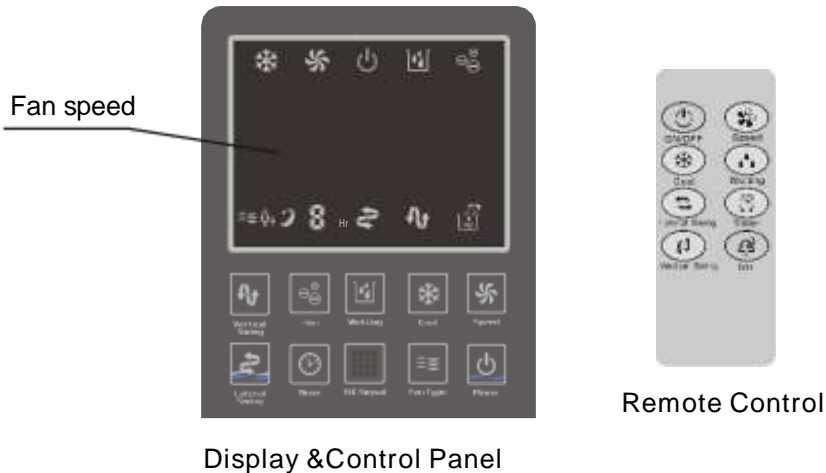
## Package content

Evaporative air cooler unit	1 unit
Remote control	1 pc
Operator manual	1 pc

## Part description



## Control/Display panel and remote functions



**Power:** Once the unit is plugged in the on/off switch will light in standby mode.

### 1. ON/OFF

Press 'on/off' button to turn on unit. The horizontal louvers will open fully. The unit will run at low fan speed in normal fan mode along with the left to right swing and cool functions on. The active function icons should be lit. After approximately 30seconds the unit will automatically adjust to high fan speed. You may adjust to preset the fan speed during this 30second period and once the pre-cooling time has expired the unit will automatically adjust to your preset fan speed. You may also preset the mode you want the unit to operate on, in this period. Press the on/off button again and all the icons and functions will close except the for power icon. The unit will stop after 25 seconds on low fan speed. The horizontal louvers will close and the machine will remain on standby mode.

### 2. Cooling

As the unit is turned on it goes into cooling mode (with adequate water in the tank) The Cool button may be pressed to switch off the cooling feature. Press the Cool button again and the unit will return to cool mode.

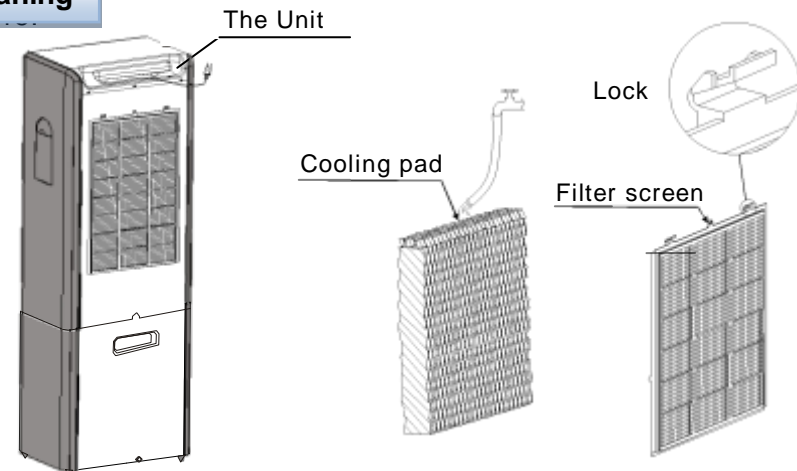
(Attention: the cooling and humidifying function can not operate at the same time. Press cool while on humidifying mode will not activate cooling mode and will set off the warning alarm)

8. If water is sprayed or splashed on internal components unplug the unit immediately. Remove dust screen and pad and dry out unit to avoid damage or shock hazard.
9. Do not block the air inlet at the rear of the machine. Position at least 300mm from a wall and away from curtains. Do not block or restrict the airflow from the diffuser.
10. Do not move the unit suddenly while it is operating as it will shut off automatically. To reset, you open the water filler door and close carefully.
11. Un-plug the machine when it is not in use.

**Attention:** To avoid shock hazard, Always disconnect power before cleaning the machine. Do not allow the control panel or main PCB to get wet.

12. If the power cord is damaged, to avoid any electrical hazard have it replaced by the manufacturer, its service agent or a qualified technician.
13. Take care when changing the battery for the remote:
  - (1) Always use the correct specification of battery and note the position of the polarity.
  - (2) Protect the environment. Always dispose of used batteries carefully. Check local authorities for correct procedure.
  - (3) If machine is not in use remove battery from remote.
14. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety.
15. Children should be supervised to ensure that they do not play with the appliance.

## Cleaning



Location	Green area	Uptown	Room with	Room with air
Quantity of ion	100-200 ion S/CC	40-50 ion S/CC	0-20 ion S/CC	100000-500000 ion S/CC
Relations	May induce headaches,	May cause Headaches,ins	May cause "A/C diseases"	Very Healthy.

- ◆ Prevent "AC diseases" and enjoy better health

Prolonged exposure in A/C environments is unhealthy. Up to 80% of the air is re-circulated. This indoor air pollution with a mixture of dust, germs, bacteria, viruses and allergens can lead to headaches, fatigue, colds, flu and other illnesses.

90% of sickness is caught indoors!

S.O. Ltd evaporative air coolers can produce 2 million ions per second, and can significantly improve the quality of the air you breathe and your health.

- ◆ The ion function also reduces dust actively cleaning the air.

The air cooler has an (neg) - ion generator that discharges negatively charged ions into the fresh air stream and around the room. Producing up to 2000000 -ions per cubic centimeter the Samba/Soca/Reggae Storm series energizes, purifies and revitalizes the air make these units the healthy alternative cooling system and your best choice.

### Safety warnings



**This unit has been manufactured to assure your personal safety. Improper use can result in electric shock or fire hazard. Please use this unit in accordance to the instructions in this guide book.**

1. Do not over fill the air cooler water tank. Fill to the MAX level as indicated. For the machine to operate in cooling mode do not allow the water level to drop below the MIN level.
2. If the humidity is high the air cooler may be used in normal fan mode.
3. Do not tip or move the unit suddenly when the water tank is full. Always unplug the unit and move carefully to avoid accidental damage.
4. Do not rest objects on the unit while it is in operation. Do not block or restrict the air inlet and outlet areas of the unit while is operating. Keep unit away from hanging curtains or cloth items.
5. The water pump will not function if the "cooling" button is pressed with no water in water tank.
6. Always unplug the air cooler before carrying out any cleaning or maintenance.
7. Always use mild detergent and a soft damp cloth when cleaning the outside surfaces of the air cooler.

### 3. Wind speed

With the unit switched on, press to adjust the fan speed, low, medium and high. When the unit is in Humidifying mode the speed is not adjustable and the machine will operate on the low fan speed setting.

### 4. Left and right swing

The unit switched on, press to switch the horizontal/ left – right oscillating feature on or off.

### 5. Up and down swing

The unit switched on, press to switch the vertical/ up - down oscillating feature on or off.

### 6. Wind mode

When the unit is switched on it will operate in normal airflow mode. Press the button again (Night mode) and the machine will run in each of the selected fan speeds for 30mins, from the current speed to the lowest and then go into sleep mode. Press again (Nature mode) the fan will run through the three fan speeds randomly (approx 10 seconds on each speed). Press again, to return to normal mode.

### 7. Ion

This button turns the Ion generator/feature on or off as required.

### 8. Time

This air cooler has an adjustable time on and timeout timer. With the unit in standby, press the time button to set the desired start time for the unit to come on from 1 – 9hours.

With the machine on you may press the same button to preset the run on and stop time from 1 – 9 hours. To cancel either function press the On/Off to switch the unit off and return to standby.

### 9. Humidifying

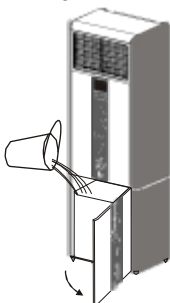
Turn on the unit and press, to start or stop the humidifying feature. When the unit is in humidifying mode the fan speed is not adjustable. The unit will operate on low fan speed.

◆ Others

1. Starting the cooling function with the unit on, the unit will run for 30 seconds on low speed before returning to normal.
2. The display light stays lit for 10 seconds.
3. Each unit has low water protection. When the unit detects low water level the low water alarm will come on for 10 seconds. If the unit is not refilled within another 20 seconds the alarm will sound again and the water pump will be switched off. The fan will continue to operate. Once the raised water level is detected the unit will return to cooling mode.

**Operation**

1. Open the package, take the air cooler out.
2. Open the water inlet at the left side of the machine (press gently to open and to close). Check the water level indicator when filling the water tank. When adding water, please note the following:
  - ◆ Do not splash water into motor or other Electronic parts to avoid damage.
  - ◆ Add water to "MAX" level; Water will spill out if the unit is overfilled.
  - ◆ Make sure to use clean running-water
  - ◆ When the water filler door is open all functions are switched off. The unit will go back to standby when the water filler door is closed and locked.
3. Turn on the power and the air cooler waits in standby mode. Press ON/OFF button to start unit
4. Press ON/OFF button to stop the unit and return to standby mode.
5. This machine may be operated by remote control. The functions/icons are the same as the control panel.
  - ① Open the back cover of remote control and insert the battery.(Check polarity is correct)
  - ② The remote control has a useable range/distance of up to 6 meters.
  - ③ There is a magnetic remote control holder on top of the unit.



**Functions**



New evaporative cooling pad, Energy saving and environmentally friendly



Large capacity water tank



New designed duct for super silent airflow



Horizontal oscillating feature for more comfort



Multi-angle Vertical adjustable louvers for more comfort



Convenient and practical remote control



More comfort with three air speeds (Low, Mid & High)



More effective cooling and humidifying efficiency in house than traditional AC



Independent humidifying function, feel fresh in dry weather.



Smart Time-on, Time-off adjustable timer function



Several wind mode options, feel more natural.



An ion to enhance, energize and purify the quality of air.

**Anion feature**

◆ What are Ions?

A negative ion is an oxygen molecule with an extra electron. The Samba, Soca and Reggae Storm air coolers all have -ion generators. When this feature is used these air coolers supply a steady stream of negatively charged ions into the airflow. Evaporative air coolers, through the evaporation of water already produce 100% fresh air, this coupled with the active oxygen of neg - ions make these air coolers the Healthy choice for your air conditioning requirements.

◆ An-ion the element of healthy life

Numerous scientific reports indicate that the negative ion content of air significantly benefits your health. The - ion content of air found at the beach, in the forest or a mountain is 1000 times that found in urban areas and higher still than the air found in the office, home or car. Negative ions prevent various airborne bacteria and reduce the transmission of allergens. Many people have experienced exceptional health improvements form negative ions.

Ion: abbreviation of anion S: quantity of anion CC: milliliter

Location	Forest/waterfall	Mountain/ beach	Suburb	Park
Quantity of ion	100000-500000 ion S/CC	100000-500000 ion S/CC	5000-50000 ion S/CC	1000-2000 ion S/CC
Relations	Automatically cure	Sterilization	Enhance Human Immunodeficiency	Basic need for healthy life