

# SIERRA PRODUCTS PTY LTD

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## Owners Manual

### **Read and save these instructions.**

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Read all instructions carefully before setting up and operating this unit. This manual is designed to provide you with important information needed to setup, operate, maintain and troubleshoot your cooler. Failure to follow these instructions may damage and/or impair its operation and void the warranty.

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### EVAPORATIVE AIR COOLER MODEL NO.: JH151-1



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**PLEASE READ CAREFULLY AND KEEP THIS INSTRUCTION MANUAL FOR  
FUTURE REFERENCE.**

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## **INTRODUCTION**

Evaporative cooling works on the principle of heat absorption by moisture evaporation. Simply put, heat is removed from the air as water evaporates. You feel this principle in action when you step out of a swimming pool; you immediately feel cooler as water evaporates from the surface of your skin.

Your evaporative cooler works on the same principle. Hot outside air is pulled through water-saturated pads, where the air is cooled by evaporation and then discharge from the cooler.

The jh151-1 is ideal for using in patio and many other indoor/ outdoor applications. The appliance can be used as an evaporative cooler and air cleaner.

As the air passes through the water filter, particles in the immediate area are captured and filtered out of the air.

There are 3 speeds for variable air distribution. A programmable timer for 1 to 8 hours and digital remote control included.

## **Technical Specifications**

Model No.	JH151-1
Voltage	220V
Frequency	50Hz
Wattage	300W
Max Airflow	6000 M3/H
Fan Type	Axial Flow
Water Consumption	3-5 L/H
Water Storage Capacity	30L
Filter Material	CELdek 5090
Effective Area	60-80M2
Net Weight	28KG
Dimensions	850 X 480 X 1080mm
Remote	Infra Red
Fan Speed	Three

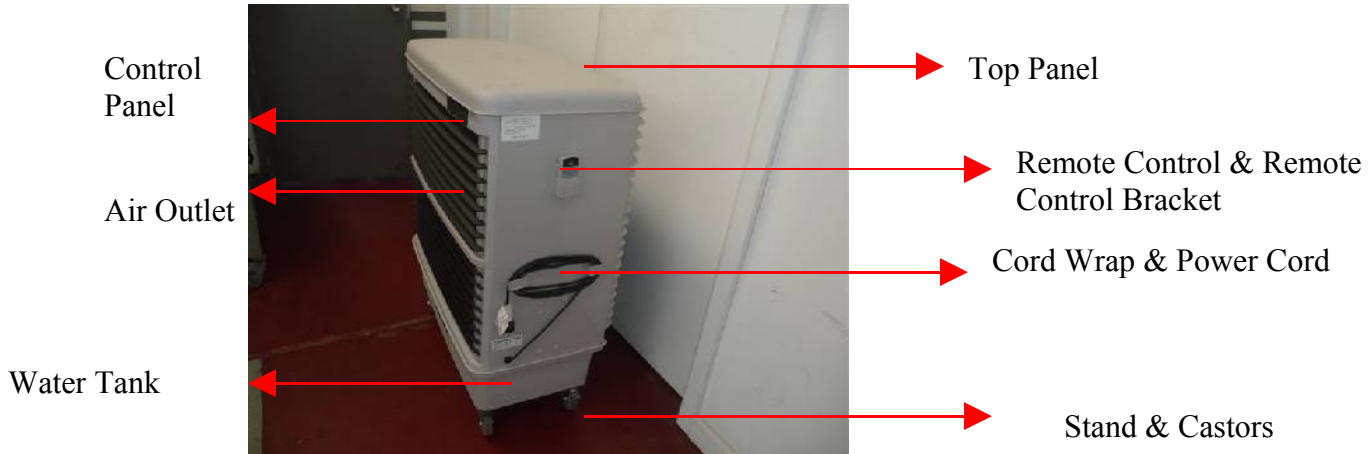
## **Warnings & Safety Information**

### **Read and save these instructions.**

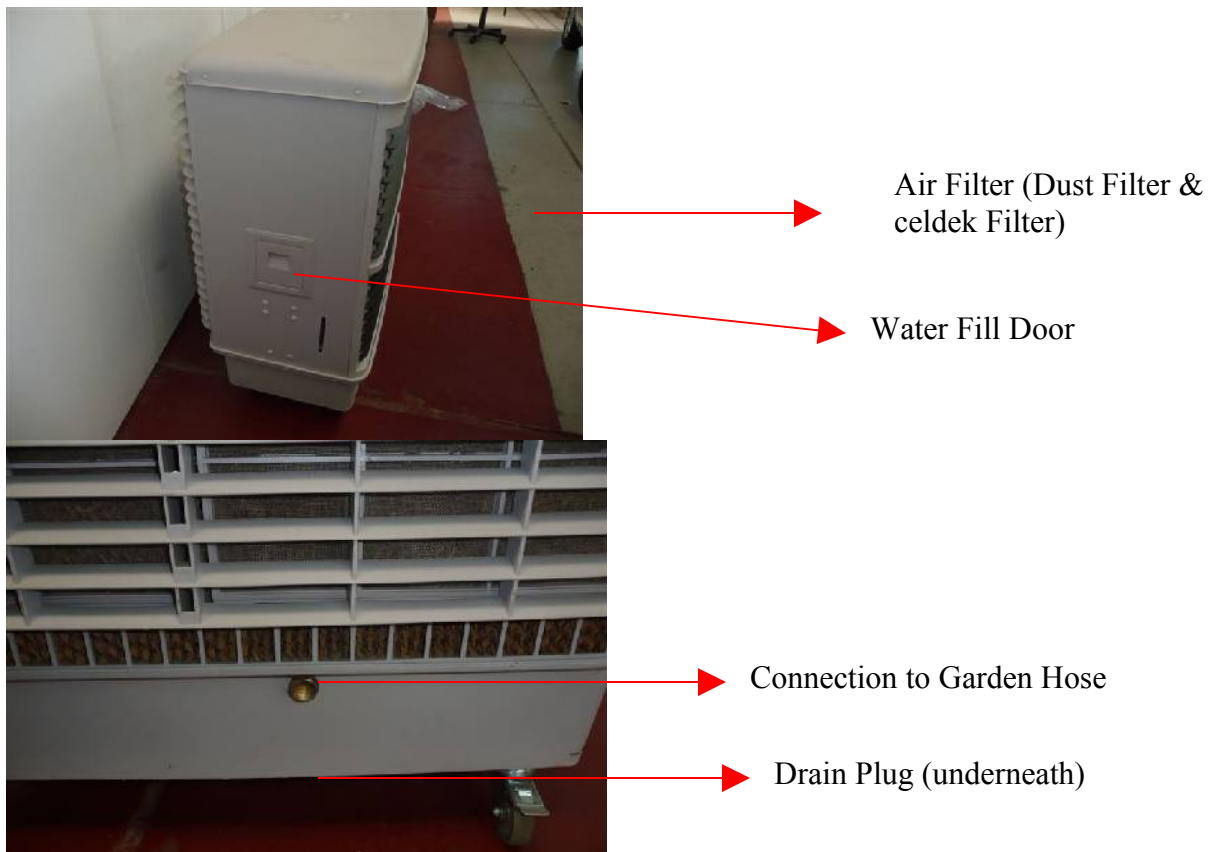
- Your cooler will run on 220 Volt AC, 50 HZ current only.
- Check the household voltage to ensure it matches the appliance's rate specifications.
- Can be used indoor or outdoor.
- DO NOT operate any product with a damaged electrical cord or plug.
- Always unplug the cooler before refilling the water tank through the 'water fill door'.
- Always unplug the cooler when moving it.
- Disconnect the power supply before servicing or cleaning operation.
- Remove the power cord from the electrical receptacle by grasping and pulling on the power cord plug-end only, never from the cord.
- DO NOT insert or allow objects to enter any ventilation or exhaust opening as this may damage the cooler.
- DO NOT use the cooler in areas where gasoline, paint or other flammable goods and objects are stored.
- When using the 'cool' setting, please check the water tank to ensure it is full. Operation of this unit on the 'cool' setting on a empty tank could result in damaging the water pump.
- DO NOT attempt repair or adjustment to any electrical or mechanical functions of the cooler, as this may void the warranty.
- Verify that the voltage power source matches the appliance electrical specifications. Improper voltage will burn out the blower/ fan, oscillating and/ or pump motor windings and will void the warranty.
- DO NOT cover the air inlet or outlet on the appliance as this may cause motor damage.
- DO NOT operate with media removed as this will overload and damage the motor.
- DO NOT use this fan with any solid- state speed control device.
- Always unplug the appliance from the power source before servicing or moving the unit.
- DO NOT leave the appliance operating unattended for any extended period of time.
- DO NOT let children play with any appliance packaging or plastic bags. Injury may result from such practice.
- Place power cord away from areas where it may cause persons to trip.
- When not in use always store in a dry area.
- If the unit is damaged or it malfunctions, do not continue to operate it. Refer to the troubleshoot section and/ or please call customer service.

## Parts Description

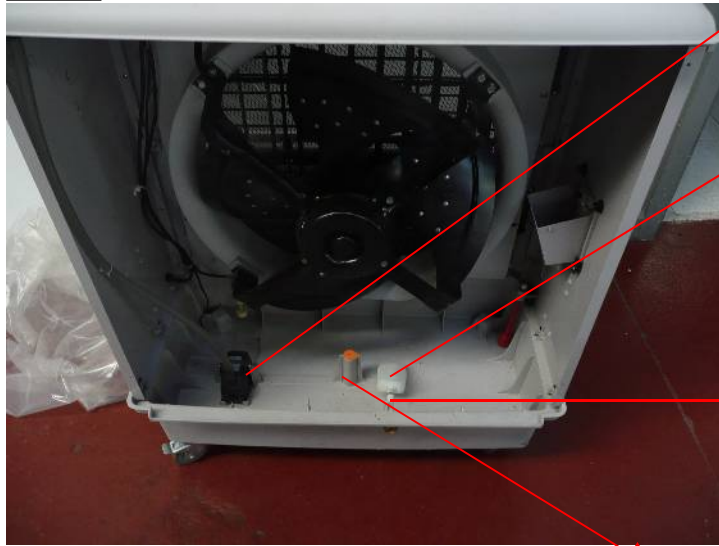
### Front:



### Back:



**Inner:**



Water pump

Float Ball

Copper Rod

Overflow Standpipe

**Accessories:**

1. Remote control and its bracket.



Note: 2 x AAA batteries are required for the remote control, but are not included.

2. Hardware part for Garden Hose Connection



Note: Garden hose are not included.

3. Two pieces Dust Filter



## Use & Operation

### Connect Water Supply:

You can fill up water tank by the following options:

1. Fill fresh water to the tank thru the 'water fill door' located on the side panel.

Fill Water Tank As Follows:-

- (a) Plug in the unit onto the "standby" mode.
- (b) Press to open the 'water fill door' and fill with water manually
- (c) You will hear siren for 5 seconds when water reaches the maximum water level mark.
- (d) When water reaches max level, stop filling with water and close the 'water fill door'.

2. Connect the garden hose to 'garden hose connection part' of water inlet

Fill Water Tank As Follows:-

- (a) Turn water supply on. Check for good pressure and flow from float valve.
- (b) When float valve shuts off, check water level. Water level should be from ½" below top edge of overflow standpipe.
- (c) Turn on water and adjust float valve by bending the rod, if required.
- (d) Float valve will turn off water supply when water reaches maximum water level mark.

Note: when COOL mode is turned on, if water level is below minimum water level mark, the water pump will stop operation; 'COOL' LED indicator will flash.

Water Fill  
Door



Connect garden hose  
to water in-let.

### **Start- up Check List**

To check out installation and initial start-up the following procedure should be followed:

1. Turn electrical supply on
2. Press COOL button to check that pumps starts and pad is evenly wet
3. Start blower by pressing FAN button
4. Check for cool air delivery. (An aroma of damp wood will be present during initial use of new pads.)

In case of trouble in any of these steps, refer to the troubleshooting chart.

### **Control Panel:**



Remote Control Sensor

Speed  
options  
L-  
Low  
M-  
Medium  
H-  
High

#### **Power:**

Press the button to turn the unit on. To turn the unit off, press the button again.  
The cooler will start automatically at medium speed, after a few seconds the speed will switch to low

#### **Speed:**

Press the button to change speed. The indicator light will show the selected speed.

#### **Cool:**

To begin cooling the desired area, press the 'cool' button until the indicate light is on, the water pump will begin to wet the pad. You should begin to feel cooler air within three minutes, when the pad is completely wet.

#### **Swing:**

- (a) Press the 'swing' button to start air from right to left direction.
- (b) Manually adjust the horizontal louvers upward or downward for air direction.

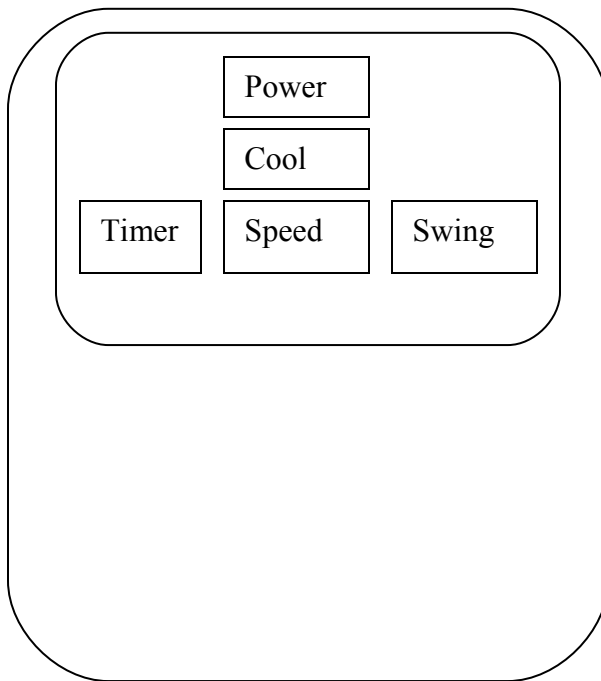
#### **Timer:**

- (a) Press the 'timer' button until the indicator light comes on and is set to desired hour. Once the set hour has elapsed, the unit will automatically shut off.
- (b) The timer function allows you to program the unit up to 8 hours of use. There are eight indicators underneath the TIMER button. Each light indication represents 1 hour timer setting.

**Warning: Do not operate the appliance unless all panels are securely in place.**



### **Remote Control :**



Power:	On/ Off
Speed:	LOW/ MEDIUM/ HIGH
Cool:	Control cooling or fan operation
Swing:	Control the motion of the vertical louvers
Timer:	Control the timer function for automatic shut off.

## **Cleaning & Maintenance**

### **Changing or Cleaning the Filter/ Pad**

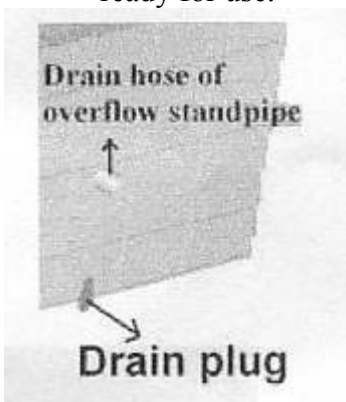
**Warning: unplug & disconnect the cooler from the power source before attempting any maintenance or service.**

Your cooler should be cleaned at least twice a year, at the beginning of the season and midway through. But your pads may need to be cleaned more frequently, depending on local air and water conditions. For instance in areas where mineral content of the water is high, deposits may build up in the cooler pads, restricting air flow.

### **Cleaning the Water Tank**

To clean the water tank:

- Remove the drain plug located at the bottom of the unit.
- Once the water tank is empty, replace the drain plug, refill the unit and drain it again.
- Repeat this cleaning weekly to reduce water mineral build up
- Replace the drain plug; refill with fresh water through water- inlet hose, cooler is ready for use.



*TIP: Regular draining (once a week during use) will decrease the water mineral build up and extend the life of the filter/ pad. Damp a cloth with water and wipe away any water mineral deposits that appear inside or outside the appliance to extend the serviceable life & clean appearance of the appliance.*

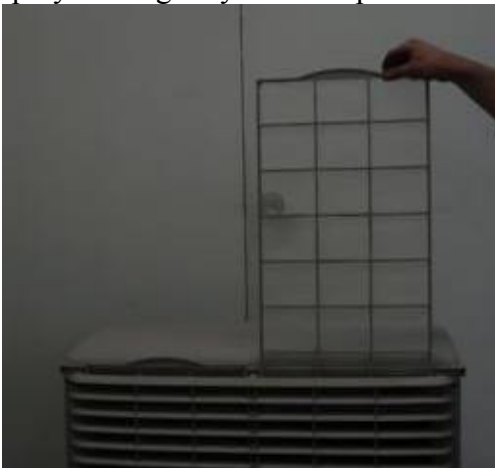
## Cleaning the Appliance



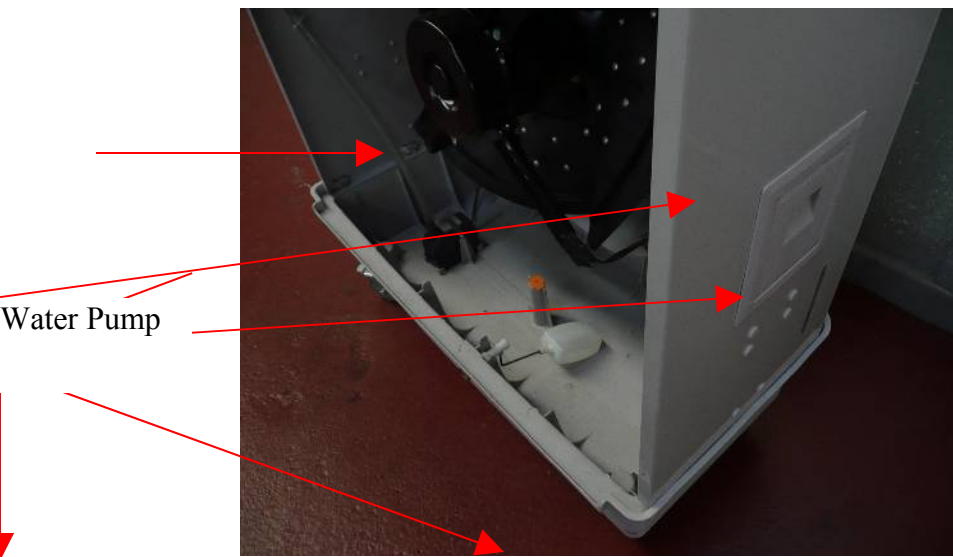
Screw off the two screws at the top of the cooling pad. Hold the louver above the cooling pad, drag the cooling pad back gently, and pull up slightly to put off the cooling pad for cleaning.



Spray water gently over the pad to clean it.



Dust filter net can be cleaned once a week.



Water Pump

Connection to  
garden hose for  
water in-let

Water fill door

Overflow Standpipe

Float ball

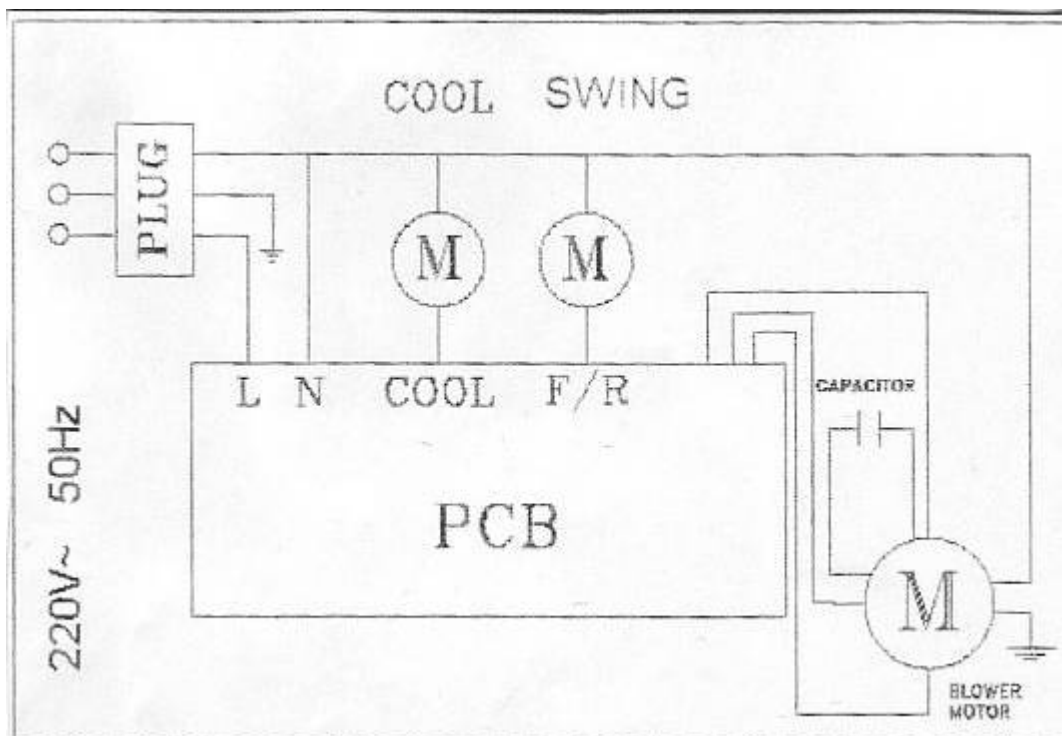
Copper Rod

Cleaning Method:

1. Wash off dirt on the float valve and copper rod with damp cloth.
2. Wash off dirt on the water pump and overflow standpipe with soft brush.

## Electrical

### Electrical wiring diagram



For future reference, the wiring diagram in figure shows rocker switch, three- speed motor, capacitor and pump.

- Switches: POWER; SPEED; SWING & TIMER, are located on the electronic panel "PCB".
- Class A insulated motor
- The blower motor comes equipped with thermal overload protection.

### **Troubleshooting Guide**

Malfunction	Reason	Methods
1. The indicator doesn't light	1. No power 2. Master control board has faults 3. Fuse is burnt. 4. Panel has a fault	1. Check the circuit 2. Change the master control board 3. Change fuse 4. Change the panel. 5. Call customer service.
2. Display normal but without air or the air speed is too low.	1. The fan gets stuck 2. water screen or dust-net is blocked 3. Fan is distorted 4. Master control board has faults	1. Check the machine, fixing hoop and fan. 2. Clean or change water screen or dust- net. 3. Change fan 4. Change the master control board. 5. Call customer service

Note: the form is only for reference. If any help, please call customer service, or your local supplier.

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### **Warranty**

The manufacturer warrants that the product is free from defects in the material and factory workmanship. Subject to the terms of warranty, the manufacturer will repair or replace as its option, the part of any part thereof, which examination show to be defective for a period of one (1) year from the date of purchase. Warranty or any other replacement part is limited to the balance of their original warranty period.

This is sole warranty of the manufacturer, who is not for any obligation, assumed or expressed by any other persons or person.

The benefit conferred by the warranty and guarantee, are in addition to all other rights and remedies in respect of such appliance had under the Trade Practices Act (Commonwealth) and other State and Territory Laws.

### **Conditions**

The warranty is available for the first purchaser only, being the purchaser who purchases without the intent of reselling for profit.

The structural warranty covers any structural component, which fail to perform to the intended function due to faulty manufacture or deterioration, within the warranty period.

The warranty does not cover any component parts or equipment used in conjunction with the cooler which where not supplied by the manufacturer.

The warranty does not cover any maintenance or abnormal conditioner of service, including faults due to connection of impure or deleterious or hard water supplies. The warranty does not cover damage to the cooler or other damage resulting from acts of god.

The warranty shall not apply to the cooler or part thereof, which in the opinion of the manufacturer has been subject to accident, alteration, abuse, or misuse or unauthorized repair.

The warranty shall not be offered to any loss suffered by or resulting form the non- operation of the cooler or part thereof.

Traveling cost incurred for work beyond a 25 km radius, of an authorized Sierra Product P/L service agent, must be met by the purchaser.

Note: should you require warranty work on your cooler, we recommend that you first contact Sierra Products P/L, who are best placed to attend to any problem. If, however a service call reveals no faults with your cooler, you may be charged for the call, even during the warranty period.