

SIERRA PRODUCTS PTY. LTD

ABN 76 078 600 450
ACN 078600450

PORTABLE EVAPORATIVE COOLER

Installation, Operation and Service instructions.

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Important.

Installation must be in accordance with Municipal Building Regulations, relevant electrical wiring regulations and any other relevant codes and regulations.

1. **Introduction.**

All coolers are pre-tested at our factory. Subject to normal handling in storage and transit, and correct operation, they will provide years of economical, comfortable cooling, with a minimum of service and maintenance.

2. **Installations recommendations and procedures.**

The unit must be clear of contaminating. Air zones (i.e. Sewer vent, gas cowl, chimney or flue pipes) to ensure only fresh air enters the filter pads.

N.B when unit is not in use, please remember to turn the water off at water supply outlet.

3. **Water supply and drain fittings.**

The float valve must be set to maintain the reservoir water lever to approximately 80mm, for the pump to perform as specified.

Note: flush the main supply before connection to the unit to remove any foreign matter, which may foul the valve set.

4. Electrical connection.

Ensure that the power supply corresponds to the rating indicated on the specification plate that is attached to the rear of the cooler

5. Location of drain plug.

The drain plug is located externally at the rear base of the unit and should be drained daily of unwanted salts and dirt.

6. New pads.

New pads may take several hours to become conditioned and uniformly saturated when water first applied. A characteristic odor of wet timber may be experienced during this period.

Note: there may be a slight water spray from the rear of the unit when turned on, until such time as the pad becomes saturated.

7. Maintenance

Regular maintenance is essential for maximum efficiency. To ensure that your cooler remains in the first class working condition for many years, it should be thoroughly serviced twice a year, or depending on the environment, more frequent servicing may be required. These services should be performed at the end of summer season and prior to the commencement of next summer season.

8. End of summer season maintenance.

- a) Turn off water supply.
- b) Turn the power to the unit off.
- c) Remove the cooling pad
- d) Hose both sides of the cooling pad to remove dust, salts, pollen etc.
Note: if pad is deteriorating replace as required.
- e) Empty the water reservoir through the drain plug and thoroughly clean reservoir.
- f) Replace the pad and leave the reservoir empty during the off season.

9. Pre season maintenance.

- a) Remove cooling pad.
- b) Turn off the water supply. Check the ball valve and assembly for correct operation and setting of water level (refer to No. 3).
- c) Refit cooling pad.
- d) Turn power supply on.
- e) Run cooler for a period of time, and then check pads for an even saturation of water.

10. Health regulations.

Please note the New South Wales Regulations require that evaporative coolers used for Commercial purposes are to be serviced at (3) three monthly

intervals. Refer to the New South Wales Health Department Regulations 19/11/97.

11. Replace the cooler pads.

If, during your pre- season or end of season maintenance, you determine that the pad needs replacing, you will be able to purchase a replacement from **Sierra Products P/L.**

To replace the pads, proceed as follows:

- a. Turn off the water supply.
- b. Turn off the power supply.
- c. Remove the pad frame from the cooler by using the tab at the bottom of the pad frame. Tilting the pad backwards and lifting.
- d. Fro pads with screws, remove the screws from the top of the frame that pads will then lift straight out.
- e. Using a high pressured spray nozzle on the garden hose, wash any dirt and salt deposits from the louver, grill and frame.
- f. Place the new pad into the frame and secure as before.
- g. Spray the assemble with water to rinse any dust or loose materials from the frame, and then reinstall back into the cooler.
- h. Switch pump control “on” and check that the holes in the upper part of the cooler are clear and water runs from all holes to ensure full pad saturation.

Note: refer to no. 6 re. New Pads.

12. Effective cooling equipment.

To provide efficient cooling or ventilation, your cooler must be operated with sufficient exhaust openings in the form of doors, windows, or other vents. One square meter of open area is the minimum requirement for every 3000 cubic meters per hour of air delivery. (I.e. a 9,000 cubic meters per hour cooler requires a minimum of 3 square meters of open exhaust areas.) The cooler filtered air entering the building will flow towards the exhaust opening. Doors and windows should be set according to the required air flow pattern desired.

Air should never be re-circulated back through the cooler.

When the design of the building or prevailing winds prevent effective, airflow, consideration must be given to the use of some form of exhaust extraction device.

13. Service.

Should you consider that your cooler requires service, you should contact **Sierra Products P/L.**

14. Installation check list.

- i. Motor and fan adjusted to clear venturi ring – model 201.
- ii. Ball float valve set correctly.
- iii. Water flow adequate to pad.
- iv. Water distribution through pad uniform
- v. Control switch tested:
 - Pump only running.
 - Model 201- 2 speed only
 - Model 202- 2 speed only
- vi. Unit tested for maximum amperage

15. 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 at its option, the part or any part thereof, which examination shows to be defective for a period of one (1) year from date of purchase. Warranty on any other replacement parts is limited to the balance of their original warranty period.

This is sole warranty of the manufacturer, who is not responsible 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.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonable foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be acceptable quality and the failure does not amount to a major failure.

16. Conditions.

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

The structural warranty covers any metal structural components, 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 were not supplied by the manufacturer.

The warranty does not cover any maintenance or abnormal condition of service, including faults due to the 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 from the non- operation of the cooler or part therefore.

Traveling cost incurred for work beyond a 25 km radius, of an authorized **Sierra Products 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.