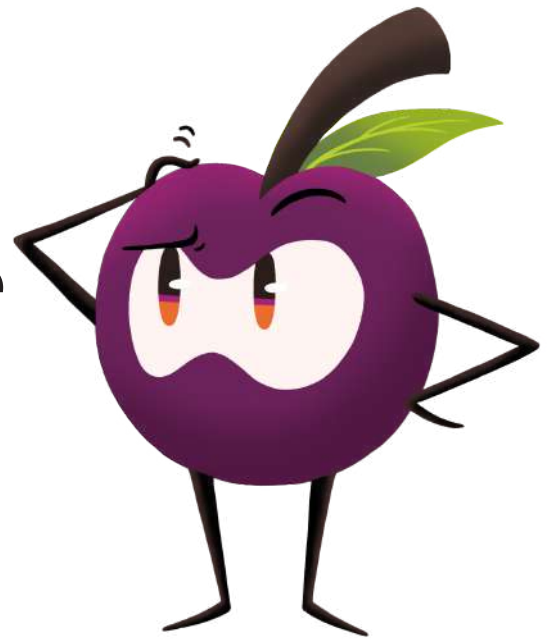


45-Point Evaporative Cooler Diagnostic Health Check



Cabinet

- 1 First, we check the cabinet for damage or structural integrity
- 2 Each Corner Post is inspected for damage and deterioration



Cooling Pads

- 3 We make sure the pads are not damaged or deteriorated (those aged 5-7 years need replacing, because they lose their efficiency to hold water)
- 4 Then we check that the pads are correctly fitted and clips are intact



Electrical Wiring

- 5 It's time to look for damage and loose connections, including Earth Spade Connections.



Fan Motor

- 6 Your fan motor is tested to ensure it rotates freely and that the motor bearings are not worn. Confirm supply voltage is between 220V - 240V.
- 7 We check the motor speed sensor is clean, the beam sensors are vertically aligned, and that the sensor is correctly located in the motor's end plate.
- 8 Your DC brake is inspected for correct operation (N-E1 control models only).



Fan

- 9 Your fan impeller is checked to ensure it's centered within the bell housing.
- 10 We ensure the Collet is tight and not worn.
- 11 Your motor stator bracket and mountings are inspected for damage.
- 12 The fan impeller is checked for correct tension, blade height and angle.
- 13 Your belt tension and alignment is inspected (Breezair Centrifugal fans).
- 14 And we make sure the pulley wheel ratio isn't causing the motor to exceed the maximum current draw (Breezair Centrifugal fans).



Fan Capacitor

- 15 We check that your Fan Capacitor is no more than 2 years old.



Printed Circuit Board

- 16 Printed Circuit Boards and Terminals are inspected for any visual damage (e.g., ants, diodes, resistors, burn marks).



Weather Seal Motor

- 17 Your weather seal motor operation checked for correct operation, engaging and opening/closing servo seal and opening/closing drain snorkel.
- 18 We make sure the Servo Seal louvres seal correctly in the closed position.
- 19 A check is done on the Auto Winter Seal to make sure it operates correctly to the open and closed positions.



Water

- 20 We check the Water Inlet Solenoid and water supply hose have filters fitted – and that they're clean
- 21 The condition of your Water Inlet Valve ball float is inspected (if applicable)
- 22 We ensure the Water Inlet Valve opens in the normal operation sequence and closes at the correct water level. (If applicable)
- 23 And we check that your water pressure is sufficient to fill the tank within a 4-minute fill time if a Dump Valve is fitted (if applicable)



Water Pump

- 24 We check the water pump and distribution pipes to ensure they are intact and secured in place.
- 25 The pump operation is checked for noise and that the filter is clean
- 26 Your pump water discharge is inspected for correct pad saturation.



Drain Valve

- 27 Now we take a look at your Drain Snorkel, making sure it raises to the correct height above the High-Water Level Sensor.
- 28 Then we check that the Drain snorkel lowers to the correct position, allowing the tank to be completely drained
- 29 We check the Dump Valve inlet solenoid operation. (If applicable)
- 30 And we inspect the Dump Valve outlet valve operation. (If applicable)



Flexible Hose Connection

- 31 We're looking for deterioration and blockages when we inspect your water supply line.
- 32 We inspect the Flexi Hose Connection
- 33 And we look at your Cooler Isolation Tap



Bleed-Rate Setting

- 34 Here, we check the Bleed discharge is correctly set for the model to maintain appropriate water quality and discharge concentration. You are advised if the bleed-rate settings are altered



Water Level Sensor

- 35 We test the Water Inlet Solenoid to make sure it closes at the contact of water at the High-Level Water Sensor and does not overflow out the Drain tube prior to the water being sensed at the High-Level



Float Valve

- 36 The condition of your Water Inlet Ball Valve washer is checked.
- 37 We check that the Water Inlet Valve opens in the normal operation sequence and closes at the correct water level



Water Drain

- 38 We make sure the drain discharge point is appropriate for the installation



Controller

- 39 We check that your wall controller is operating and in good working condition
- 40 We also make sure your wall controller is secured to the wall correctly



Air-Delivery System

- 41 Your outlet diffusers are inspected for correct position and that the louvre blades are configured for best room air mixing.
- 42 We check that air distribution is sufficient from all outlets.
- 43 And we make sure there is adequate exhaust opening available for correct operation – Include Security Relief Grill



Roof-Top Condition

- 44 Now we check around the work area for existing damaged tiles



Operation

- 45 And finally, we discuss best practices for your operating system