TQB Brands Pty Ltd

TradeQuip Evaporative Cooler Troubleshooting Guide

Product Code: 1027T/1028T/1029T/1035T

CONTENT CLICK THE RELEVANT INSTRUCTION TO TAKE YOU STRAIGHT TO THE REQUIRED PAGE

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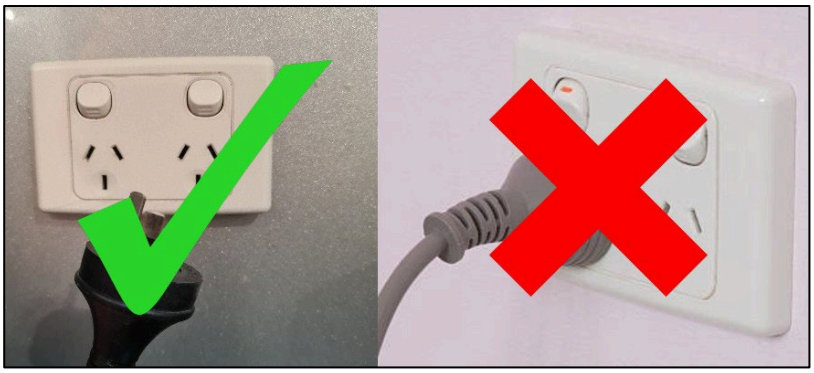
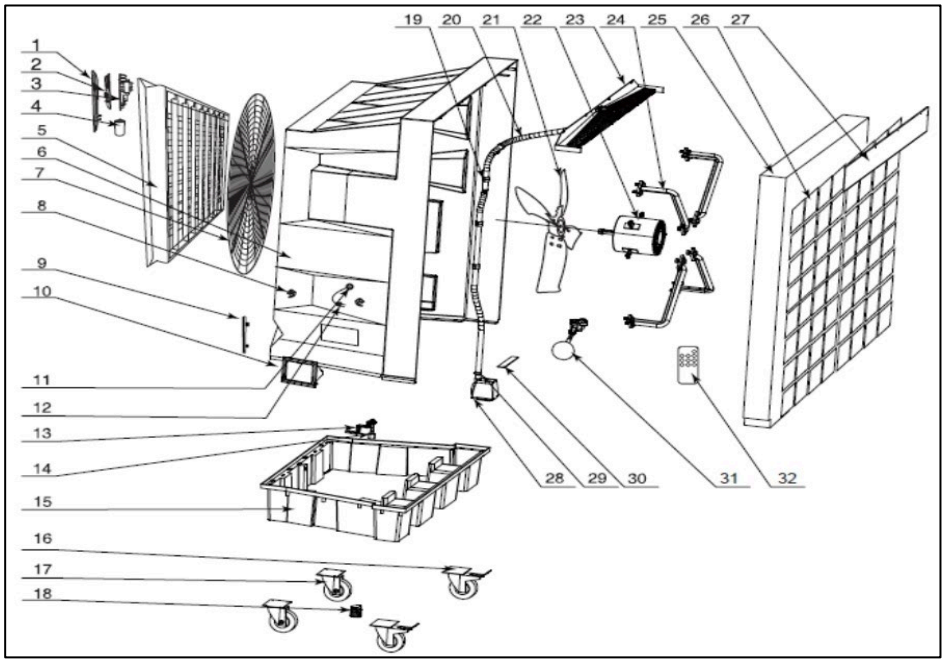
TradeQuip Evaporative Cooler Drain Fitting Replacement Procedure

Product Code: 1027T/1035T/1029T

ALL WORK MUST BE PERFORMED BY A LICENCED ELECTRICIAN OR RESTRICTED ELECTRICAL WORK LICENCE/PERMIT HOLDER.

WARNING: DISCONECT THE EVAPORATIVE COOLER FROM THE POWER SOURCE PRIOR TO ANY MAINTENANCE PERFORMED.





Part #	Description	QTY	Part #	Description	QTY
1	Control Panel & Label	1	17	Front Wheel	2
2	Display Board	1	18	Drain Valve	1
3	PC Board	1	19	Pipe Clamp	3
4	Capacitor	1	20	Water Pipe	1
5	Automatic Diffuser	1	21	Fan	1
6	Cooling Casting	1	22	Fan Motor	1
7	Front Mesh	1	23	Water Distributor	1
8	Cable Reel	2	24	Fan Bracket	4
9	Water Level Displayer	1	25	Cooling Pad	1
10	Water Inlet Hole	1	26	Dust-Proof Net	1
11	Wire Ring	3	27	Cooling Pad Fasten Sheet	1
12	Electric Wire	1	28	Water Pump	1
13	Water Level Sensor Fixture	1	29	Stainless Clip	2
14	Water Level Sensor	1	30	Water Pump Platen	1
15	Water Tank	1	31	Float	1
16	Back Wheel	2	32	Remote Control	1

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TradeQuip Evaporative Cooler Drain Fitting Replacement Procedure

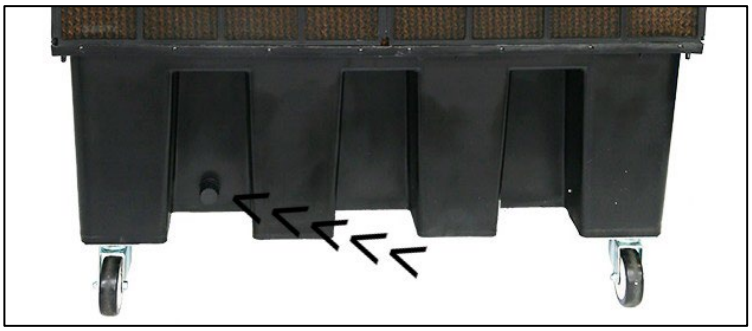
Product Code: 1027T/1035T/1029T

Fault Description: The usual symptoms associated with a damaged drain bulkhead fitting and cap are as follows.

- Water pooling under the evaporative cooler originating from the drain bulkhead fitting or cap.

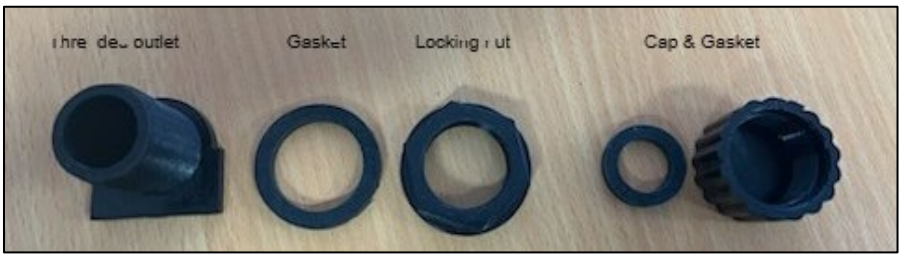
Replacement of Drain Fitting Procedure

1. Disconnect the evaporative cooler from the power source and drain the water tank [item 15] by opening the drain valve [item 18].



2. Remove cooling pad fastening sheet [item 27] then remove dust proof sheet [item 26] and cooling pad [item 25] by removing the Phillips head screws.

3. Remove the cooling pad and set aside.



4. Remove the drain valve cap and undo the locking nut on the threaded outlet.
5. Push the threaded outlet into the reservoir then insert the replacement threaded outlet into the hole.
6. Hold the threaded outlet in place and on the outside of the reservoir install the rubber gasket and locking nut.
7. Reassemble cooling pad, dust proof sheet and cooling pad fastening sheet.
8. Fill water tank to recommended level and test unit for operation.

At this point the Evaporative Cooler should be ready for Operation. If the Evaporative Cooler continues to show the Symptoms as above, please refer to a Qualified Service Technician or contact TQB Brands via sales@tqbbrands.com.au or 03 9357 8440

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TradeQuip Evaporative Cooler Fan Motor Mount to Cowling Adjustment

Product Code: 1029T

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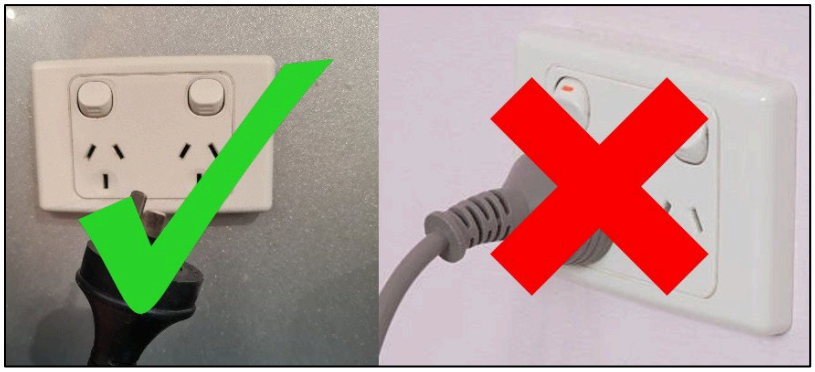


Fault Description: The usual causes of a 1029T evaporative cooler with knocking or tapping sounds when the fan is in rotation are as follows.

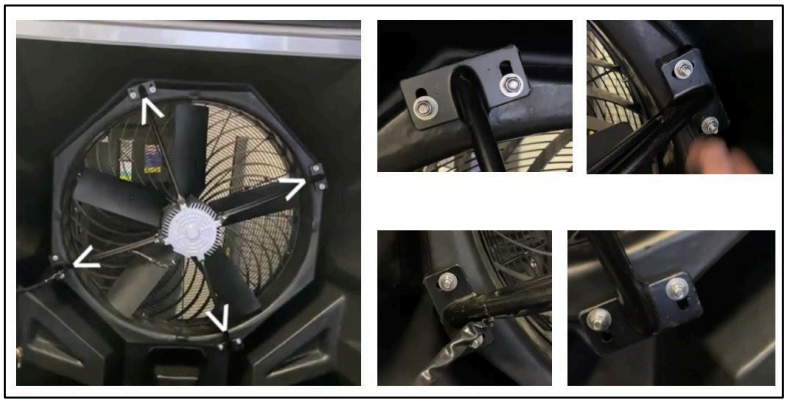
- The fan/motor mountings are not concentric with the cowling causing the fan tips to contact the cowling.

Realignment of Motor/Fan to Cowl Procedure

1. Electrical safety. Turn the fan off at the supply socket and remove the plug.

2. Remove the rear mesh protection screen and cooling pad and set aside.

3. Loosen the eight fan motor mounts.



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4. Adjust the fan motor mounts position until there is even clearance between the fan tips and the inside of the cowling throughout full rotation.

5. Tighten the fan motor mounting nuts and manually spin the fan to check the clearance between the fan tips and the inside of the cowling to ensure no contact.

6. If additional clearance is required follow steps 4 and 5 until the fan is concentric with the cowling and no contact is made between the fan tips and cowling.

Once clearance between the cowling and fan blades has been achieved, please reassemble the evaporative cooler, fill with water and test for correct operation.

If the issue persists, please contact a licensed service technician or contact TQB Brands support.

For additional maintenance documents, please visit www.tqbbrands.com.au

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TradeQuip Evaporative Cooler Float Valve Replacement Procedure

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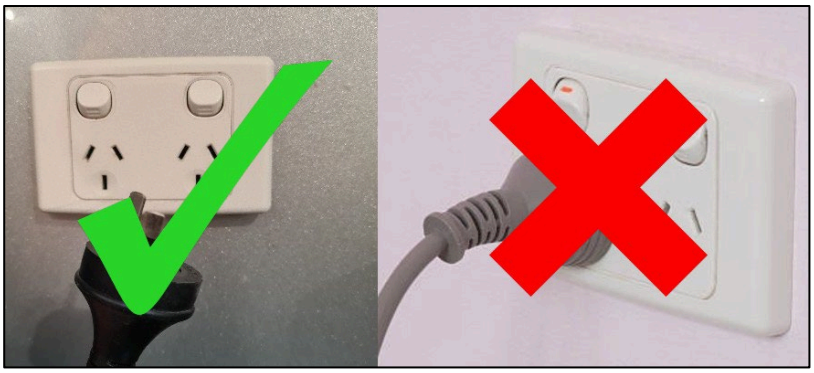

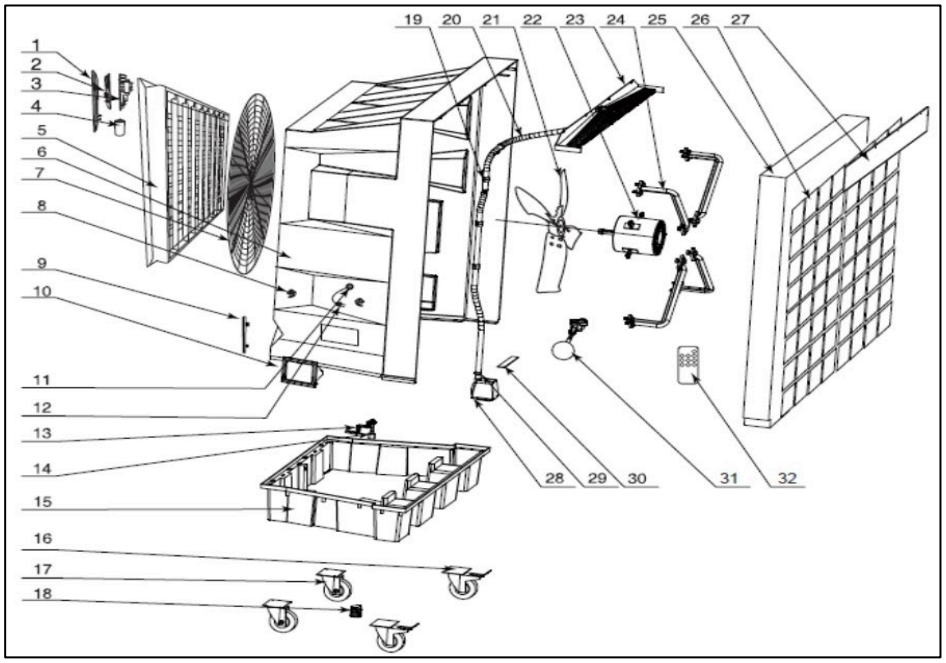

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13	Water Level Sensor Fixture	1	29	Stainless Clip	2
14	Water Level Sensor	1	30	Water Pump Platen	1
15	Water Tank	1	31	Float	1
16	Back Wheel	2	32	Remote Control	1

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TradeQuip Evaporative Cooler Float Valve Replacement Procedure

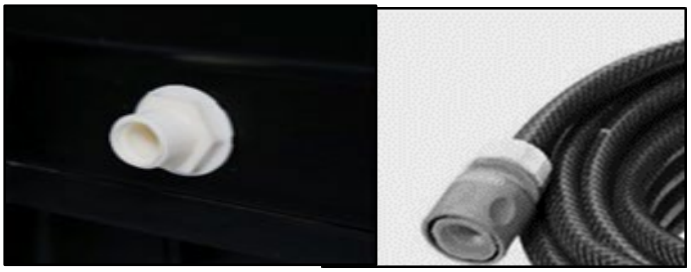
Product Code: 1027T/1035T

Fault Description: The usual symptoms associated with an incorrectly installed Float Valve are as follows.

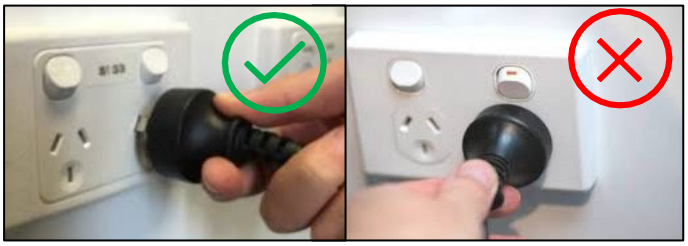
- Water reservoir will not fill using float valve system
- Water reservoir overfills using float valve system
- Water reservoir underfills using float valve system

Float Valve Replacement Instructions

1. Disconnect your shop water supply hose from the float valve inlet.

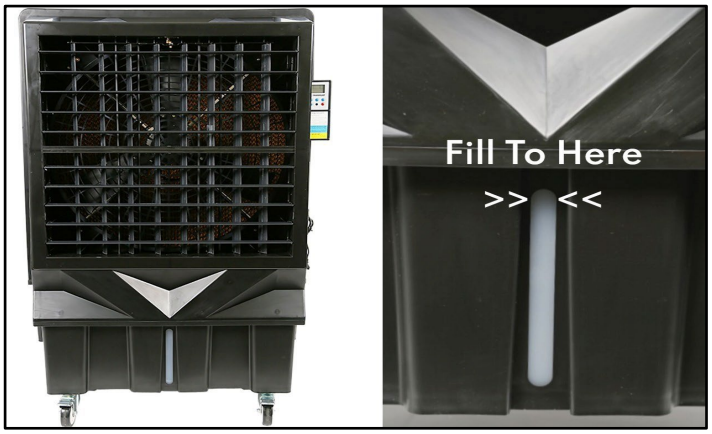


2. Disconnect the evaporative cooler from the power source.



3. Remove cooling pad fastening sheet [item 27] then remove dust proof sheet [item 26] and cooling pad [item 25] by removing the Phillips head screws.

4. Use a water supply hose to manually fill the reservoir to the full level on the level indicator panel located at the rear of the unit below the air inlet panels, or if overfilled drain off the excess water to the correct full levelFill water tank to recommended level and test unit for operation.



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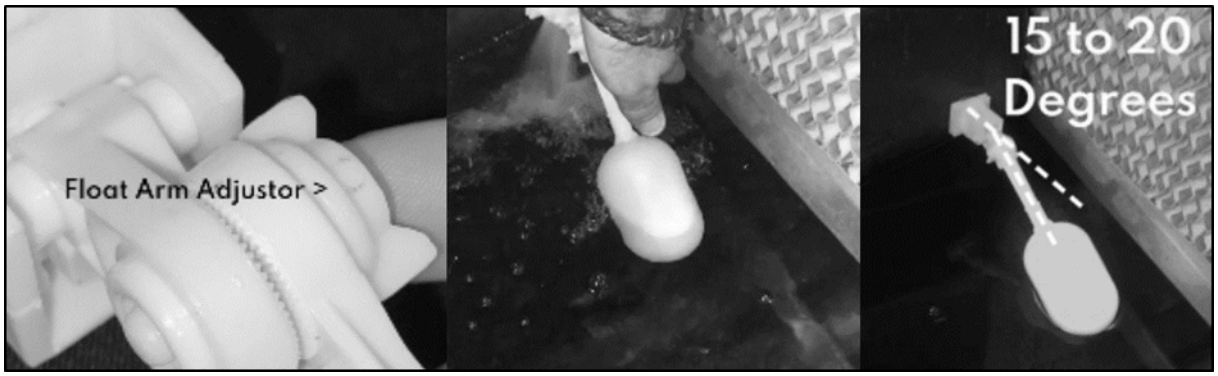
5. Reconnect the water supply to the float valve inlet and turn the supply on.

6. With the water supply turned on, water will flow from the float valve, Use the float arm adjustor to set the off position by tilting the float downwards and tightening the adjuster knob, repeat this adjustment until the float bottom is under water and the water flow has ceased. This will be at an angle of approximately 15 to 20 degrees to the body of the valve.



7. Once the float valve angle has been set and the water is not flowing, we recommend you open the reservoir drain and wait for the float valve to open and filling begins, then close the drain, and check the level at which the water flow stops. If it stops below or above the level mark as seen in instruction 4. Then readjust the float angle either up to increase volume, or down to reduce volume and prevent overflow.

8. Reassemble cooling pad, dust proof sheet and cooling pad fastening sheet.

9. Reconnect the electricity supply and turn to on position.

At this point the Evaporative Cooler should be ready for Operation.

If the Evaporative Cooler continues to show the symptoms as above, please refer to a Qualified Service Technician or contact TQB Brands via sales@tqbbrands.com.au or 03 9357 8440.

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TradeQuip Evaporative Cooler Loose Fan Connector on Control Panel Fix

Product Code: 1027T/1029T/1035T

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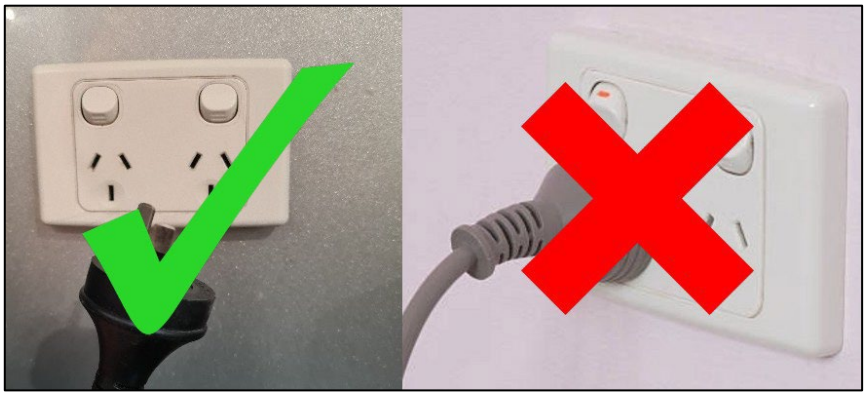
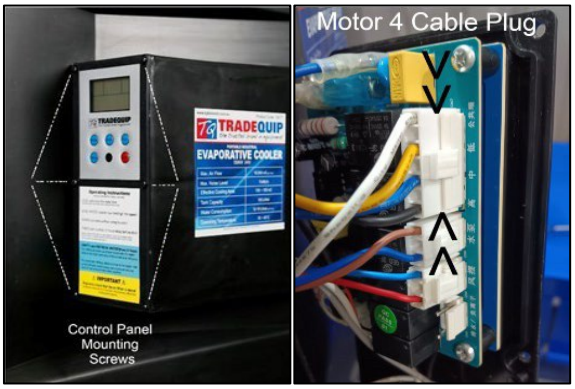


Fault Description: The usual symptoms of a Fan operating on only 1 or 2 settings are as follows.

- Fan starts but is only working on 1 speed circuit breaker does not trip.
- Fan starts but is only working on 2 speeds circuit breaker does not trip.
- Fan does not start, circuit breaker does not trip.

Maintenance Procedure

1. Disconnect the evaporative cooler from the power source.
2. Remove the 6 Control panel screws and reveal and unplug the Motor 4 cable plug from the rear of the circuit board.



3. Inspect the motor 4 cable plug for loose connection or damage to the plug and socket.
4. If no damage is found Reattach the Motor 4 cable plug to the circuit board making sure the plug has a firm fit.
5. Remount the control panel.
6. Fill water tank to recommended level and test unit for operation.

At this point the Evaporative Cooler should be ready for Operation. If the Evaporative Cooler continues to show the Symptoms as above, please refer to a Qualified Service Technician or contact TQB Brands via sales@tqbbrands.com.au or 03 9357 8440

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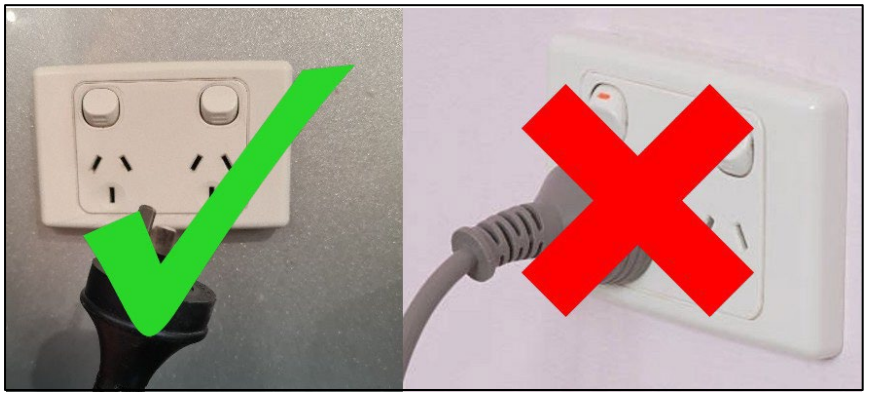

Fault Description: The usual symptoms of a loose pump control panel connector are as follows.

- Unit turns on and fan starts after 30 to 60 seconds but pump does not start.

Maintenance Procedure

1. Disconnect the evaporative cooler from the power source.
2. Remove the 6 Control panel screws and reveal and unplug the Pump 2 cable plug from the rear of the circuit board.

3. Inspect the pump cable plug for loose connection or damage to the plug and socket.
4. If no damage is found Reattach the pump cable plug to the circuit board making sure the plug has a firm fit.
5. Remount the control panel.
6. Fill water tank to recommended level and test unit for operation.

At this point the Evaporative Cooler should be ready for Operation. If the Evaporative Cooler continues to show the Symptoms as above, please refer to a Qualified Service Technician or contact TQB Brands via sales@tqbbrands.com.au or 03 9357 8440

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TradeQuip Evaporative Cooler Swing Motor Replacement Procedure

Product Code: 1027T/1035T/1028T

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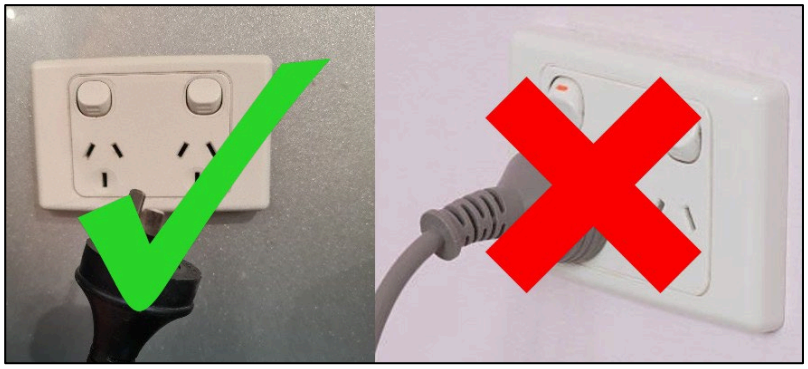

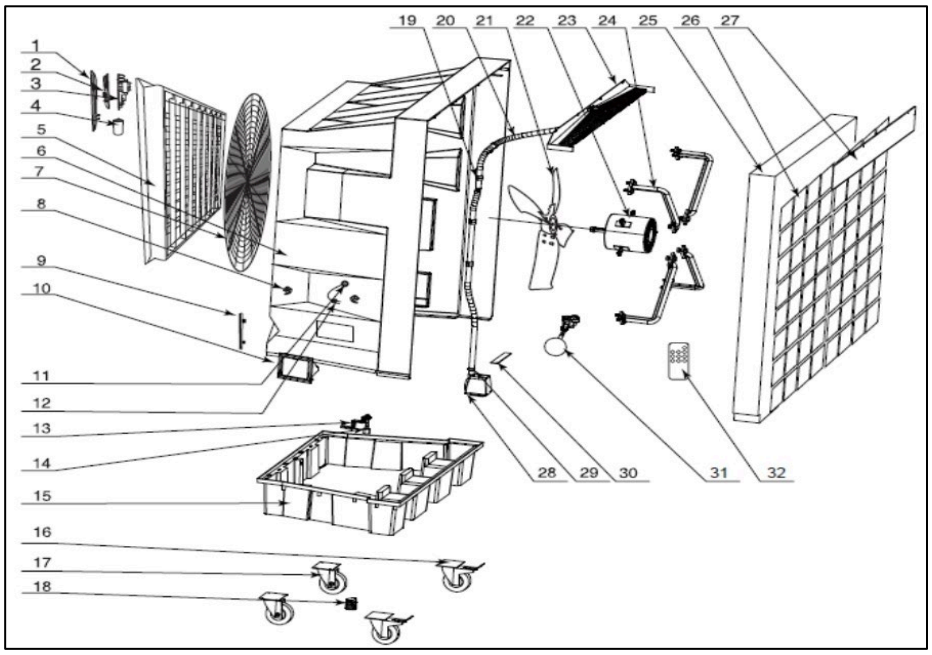

Part #	Description	QTY	Part #	Description	QTY
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3	PC Board	1	19	Pipe Clamp	3
4	Capacitor	1	20	Water Pipe	1
5	Automatic Diffuser	1	21	Fan	1
6	Cooling Casting	1	22	Fan Motor	1
7	Front Mesh	1	23	Water Distributor	1
8	Cable Reel	2	24	Fan Bracket	4
9	Water Level Displayer	1	25	Cooling Pad	1
10	Water Inlet Hole	1	26	Dust-Proof Net	1
11	Wire Ring	3	27	Cooling Pad Fasten Sheet	1
12	Electric Wire	1	28	Water Pump	1
13	Water Level Sensor Fixture	1	29	Stainless Clip	2
14	Water Level Sensor	1	30	Water Pump Platen	1
15	Water Tank	1	31	Float	1
16	Back Wheel	2	32	Remote Control	1

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TQB Brands Pty Ltd

TradeQuip Evaporative Cooler Swing Motor Replacement Procedure

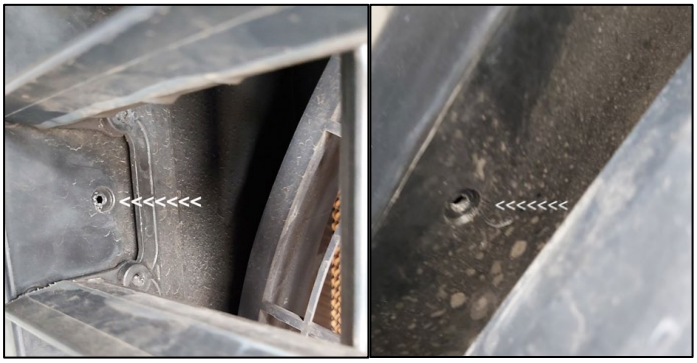
Product Code: 1027T/1035T/1028T

Introduction: The usual symptoms associated with a non-operating oscillation swing motor are as follows.

- Power is switched with the start button depressed; swing function button is depressed however oscillation of the distributor blades does not occur.

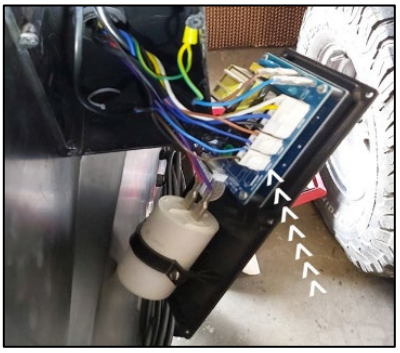
Replacement of Swing Motor Procedure

1. Remove the Automatic Diffuser [item 5] containing the vertical and horizontal louvres by removing the screws in the inner frame. Lean Automatic Diffuser outwards at the top and cut the cable connected to the swing motor.

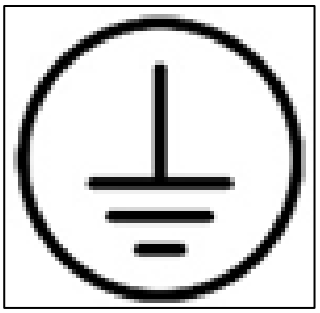


2. Remove the Automatic Diffuser and place on a bench with the outlet side facing upwards.

3. Remove the 6 Control panel screws and reveal and unplug the Swing Motor Cable from the rear of the circuit board. Note: the circuit board plug sockets are marked with the plug descriptions.



4. Disconnect the earth wire from the loom, note this is marked as a yellow wire with a green stripe. The earth wire can also be identified by the tag attached with earth symbol.



5. Remove cooling pad fastening sheet [item 27] then remove dust proof sheet [item 26] and cooling pad [item 25] by removing the Phillips head screws.

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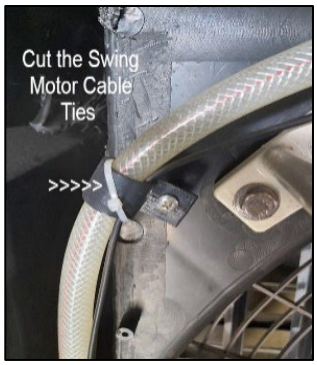
TradeQuip Evaporative Cooler Swing Motor Replacement Procedure

Product Code: 1027T/1035T/1028T

6. Cut the Swing Motor Cable Ties and wind the Insulation off the Upper Loom Bulkhead Fitting. Remove the upper Bulkhead Fitting Nut and pull the old cable through the upper Bulkhead Fitting.



7. Remove the two Automatic Diffuser screws from the Hexagonal Support Bars either side of the swing motor allowing for movement of the outer frame around the Swing Motor mounting hole.

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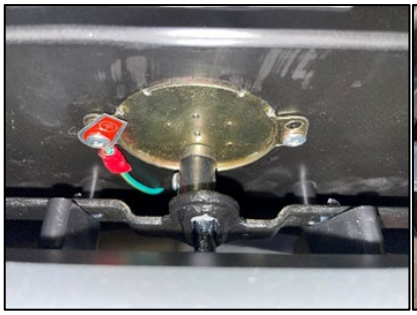
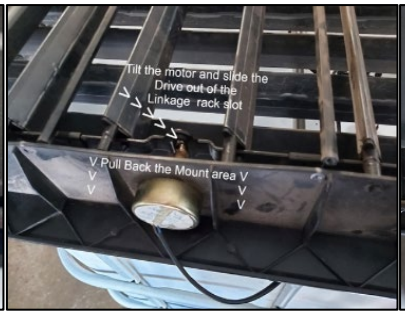
8. Remove the motor mount screws and earth wire then carefully stretch the Swing Motor mount panel outwards and tilt the Drive Assembly on the Swing Motor out of the Slot in the Louvre Linkage Rack and remove the Swing Motor.





9. Replace with the new Swing Motor in the reverse operation.

10. Check that all Louvre Pivot Pins are in their holes prior to step 11.

11. Tighten the Hexagonal Support Bar screws.

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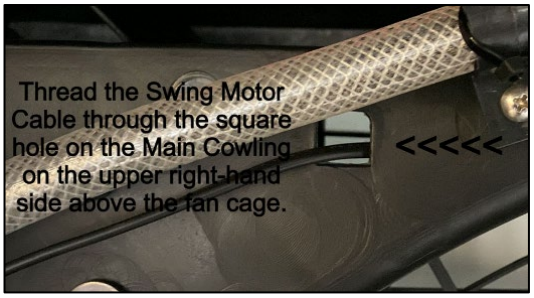
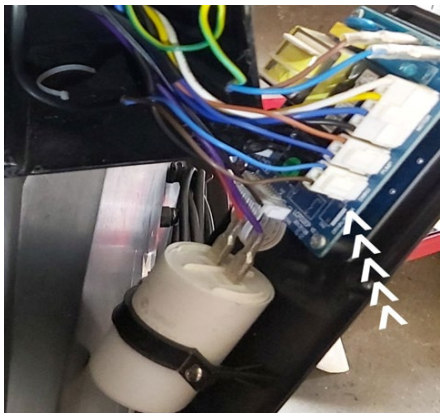
12. Mount the Automatic Diffuser leaning outwards from the base and thread the Swing Motor Cable through the square hole on the Main Cowling on the upper right-hand side above the fan cage.

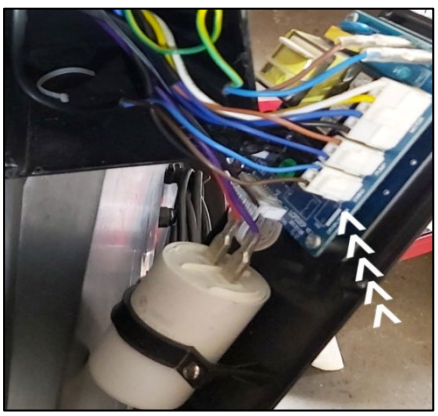


13. Reinstall the Automatic Diffuser and Cable Tie the cable to the mount points mentioned in step 5.

14. Gently feed the cable through the Bulk Head fitting allowing for approximately 200mm of length in the circuit board compartment, then tighten the bulkhead nut.

15. Connect the plug to the control panel and reconnect the yellow and green striped earth wire to the loom then loop the extra cable and Cable Tie it, tucking this behind the control panel. Refit the control panel with its screws.





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16. Refit the cooling pad [item 25] dust proof sheet [item 26] and cooling pad fastening sheet [item 27] by using the Phillips head screws.

17. Fill water tank to recommended level and test unit for operation.

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TradeQuip Evaporative Cooler Water Reservoir and Pump Cleaning Procedure

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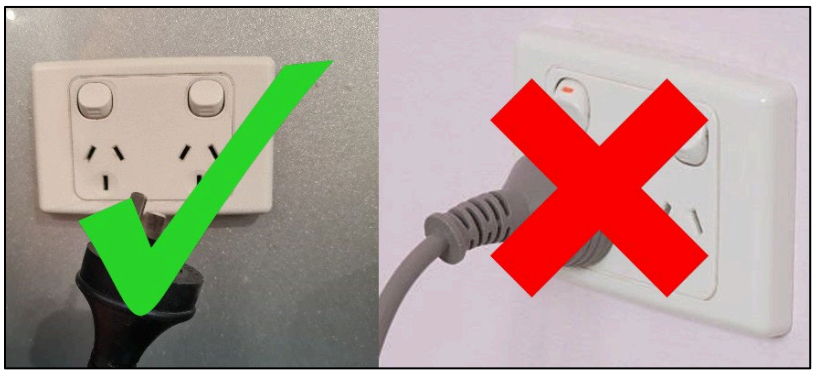

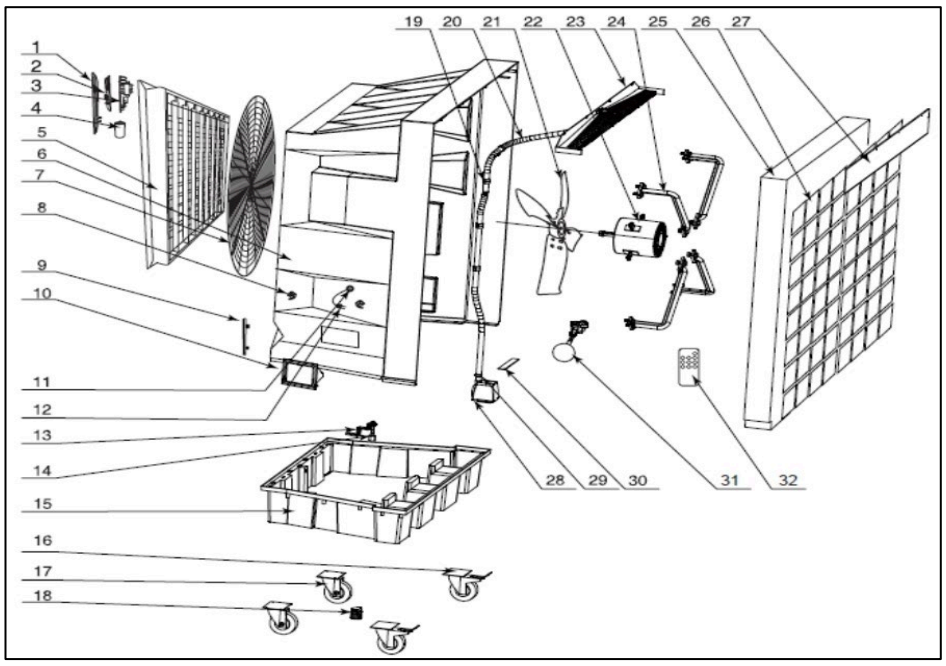

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11	Wire Ring	3	27	Cooling Pad Fasten Sheet	1
12	Electric Wire	1	28	Water Pump	1
13	Water Level Sensor Fixture	1	29	Stainless Clip	2
14	Water Level Sensor	1	30	Water Pump Platen	1
15	Water Tank	1	31	Float	1
16	Back Wheel	2	32	Remote Control	1

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TradeQuip Evaporative Cooler Water Reservoir and Pump Cleaning Procedure

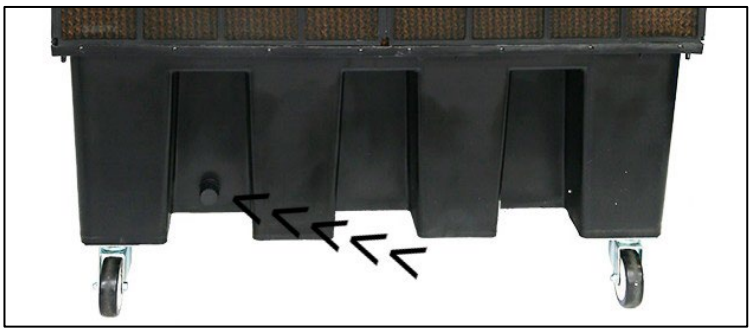
Product Code: 1027T/1028T/1035T

Fault Description: The usual symptoms associated to a stalling water pump associated with debris in the water tank are as follows.

- Pump is not pumping water to the cooling pad.
- Pump intermittently pumps water to the cooling pads.

Maintenance Procedure

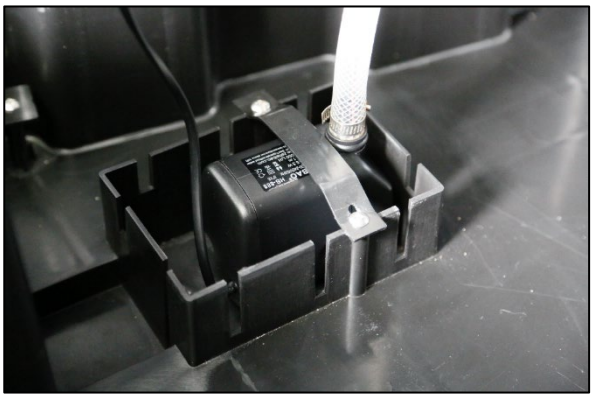
1. Disconnect the evaporative cooler from the power source and drain the water tank [item 15] by opening the drain valve [item 18].



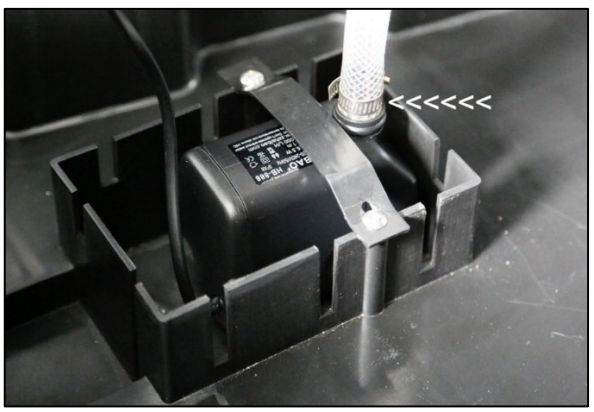
2. Remove cooling pad fastening sheet [item 27] then remove dust proof sheet [item 26] and cooling pad [item 25] by removing the Phillips head screws.

3. Thoroughly clean out the tank and ensure no debris is left in the pump and level float areas.

4. Remove the pump retainer and lift the pump [item 28] from the base of the water tank.



5. Disconnect from the water supply hose [item 20] from the pump.



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6. Open the pump inlet housing.

7. Twist the inner pump housing anticlockwise and remove from the main pump body.

8. Pull the impeller from the main pump housing.

9. Clean out any debris caught in the housing and inlet screens.

10. Reassemble the pump in the reverse order.
11. Install the pump to water tank and reassemble cooling pad, dust proof sheet and cooling pad fastening sheet.
12. Fill water tank to recommended level and test unit for operation.

At this point the Evaporative Cooler should be ready for Operation. If the Evaporative Cooler continues to show the Symptoms as above, please refer to a Qualified Service Technician or contact TQB Brands via sales@tqbbrands.com.au or 03 9357 8440

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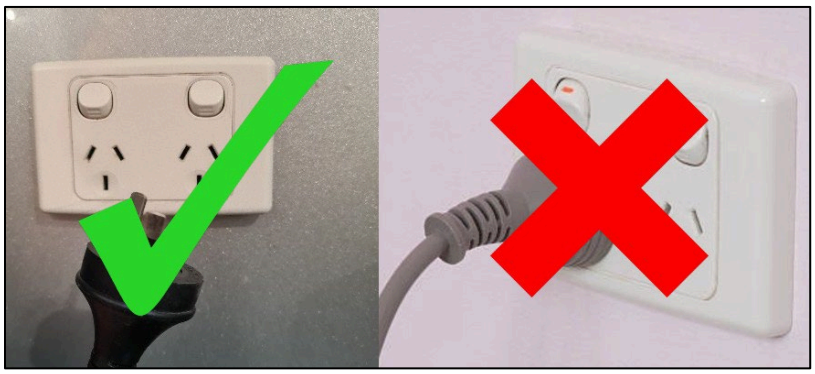
TradeQuip Evaporative Cooler Water Reservoir and Pump Cleaning Procedure

Product Code: 1029T

ALL WORK MUST BE PERFORMED BY A LICENCED ELECTRICIAN OR RESTRICTED ELECTRICAL WORK LICENCE/PERMIT HOLDER.

WARNING: DISCONECT THE EVAPORATIVE COOLER FROM THE POWER SOURCE PRIOR TO ANY MAINTENANCE PERFORMED.

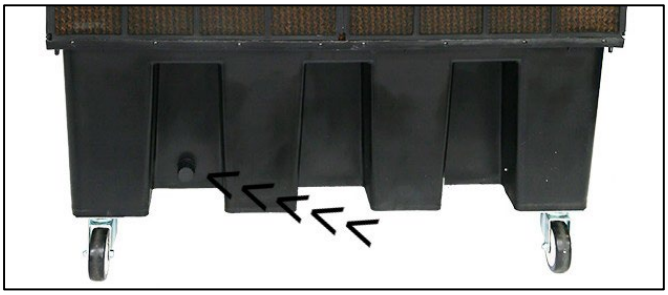


Fault Description: The usual symptoms associated to a stalling water pump associated with debris in the water tank are as follows.

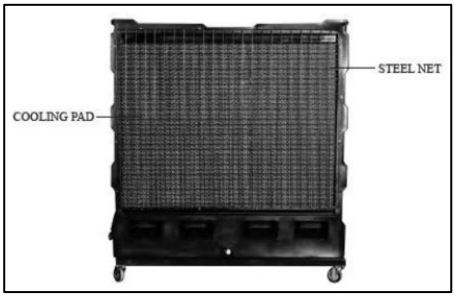
- Pump is not pumping water to the cooling pad.
- Pump intermittently pumps water to the cooling pads.

Maintenance Procedure

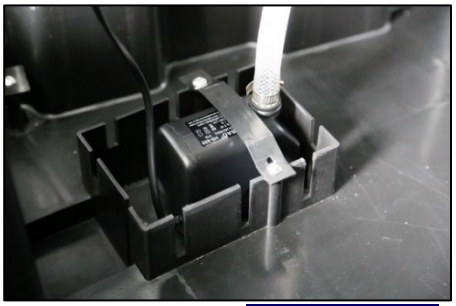
1. Disconnect the evaporative cooler from the power source and drain the water tank [item 15] by opening the drain valve [item 18].



2. Remove cooling pad steel net then remove the cooling pad by removing the Phillips head screws.



3. Thoroughly clean out the tank and ensure no debris is left in the pump and level float areas.



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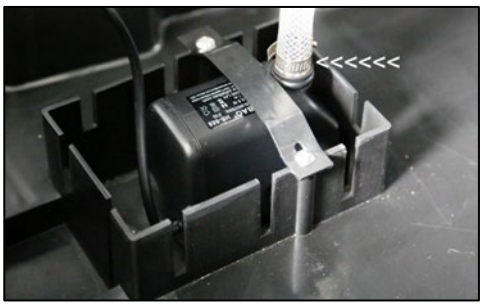
4. Remove the pump retainer and lift the pump from the base of the water tank.



5. Disconnect from the water supply hose [item 20] from the pump.

6. Open the pump inlet housing.

7. Twist the inner pump housing anticlockwise and remove from the main pump body.

8. Pull the impeller from the main pump housing.

9. Clean out any debris caught in the housing and inlet screens.
10. Reassemble the pump in the reverse order.
11. Install the pump to water tank and reassemble cooling pad, dust proof sheet and cooling pad fastening sheet.
12. Fill water tank to recommended level and test unit for operation.

At this point the Evaporative Cooler should be ready for Operation. If the Evaporative Cooler continues to show the Symptoms as above, please refer to a Qualified Service Technician or contact TQB Brands via sales@tqbbrands.com.au or 03 9357 8440

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