





Evaporative Air Cooler China

The evaporative air cooler is suitable for evaporative cooling in industrial, commercial and residential/domestic sectors. These coolers are very reliable, efficient and low electricity cost. Its ultimate purpose is to cool down and supply the fresh air from ambient environment. It reduces the heat impact, provide the air changes. We can easily understand the principle of cooling if we sit beside the sea the moisture air with sea water drops touch our skin and we feel cool pleasure and comfortability. We can also say that this is direct evaporating technology.

Major Parts of the Evaporative Cooler

- **Body of Evaporative Cooler:**

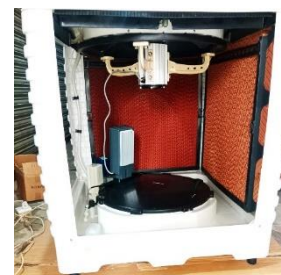
The body of a Chinese evaporative cooler is typically made of high-quality engineering plastic (PP) for corrosion resistance and long life, with frames made of PP and metal brackets for support. The **body houses** a water distribution system that feeds a wet pad, a fan for pulling air through the pad, and a water pump to circulate the water. The air discharge can be on one side, multiple sides, or the top, and shutters can be automatic or electric.

Frame:

Made of high-quality engineering plastic (PP) for corrosion resistance and durability.

- **Housing:**

The overall structure is designed to hold and support the internal components. Some industrial models are large, with outside dimensions ranging from around





- **Material Quality:**

Manufacturers test raw materials, such as the plastic, with tests for tensile, bending, impact, and weathering to ensure product quality.

Internal components:

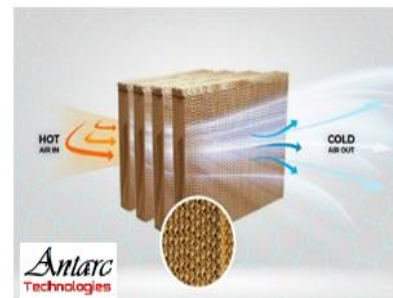
- **Fan and Motor:** Powerful I motors, typically ranging from 1.5 kW; 3kW,4KW, drive either steel, stainless steel, or aluminum alloy blades. The fan's function is to draw hot air into the unit through the wet pads and outflow cool air.



- **Cooling Pads:**

Cooling pads are fitted on four sides of the evaporative cooler. The water is pumped over these pads and as air passes through, it gets cooled by evaporation. The air volume(cfm) are supplied in the room with high velocity.

- Cooling Pads are Made of:
 - ✓ cellulose,
 - ✓ aspen, or
 - ✓ synthetic fiber.



- **Water Distribution and Drainage:**

A pump circulates water to a manifold that sprinkles it evenly over the cooling pad. The water then flows back into a drainage pan at the base of the unit to be recycled.



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Functional features

- **Air Changes:**

The air changes are very important way in a room to replace contamination or stale air with fresh air, which removes pollutants, moisture, and odors. It causes to maintain a healthy indoor environment by improving indoor air quality, which can lead to reduced health complaints like headaches or fatigue. The air changes process should calculate and make in such a way that inflow and outflow of air should be proportionately equalized and balanced. This ventilation affects the overall comfort and well-being of occupants.

- **Air Discharge:**

Air can be discharged through shutters on one, two, or all sides of the unit.

- **Shutters:**

Shutters, which can be automatic or electric, control the airflow. The cooler can be configured for side, down, or top air discharge.

- **Voltage:**

The units can be customized to operate on various voltages, such as 380V ; 415V ; 220 415V



- **Water Pump**

- Circulates water from the reservoir to the top of the cooling pads.
- Ensures pads remain wet for effective evaporation.

- **Water Tank (Reservoir)**

Stores water for continuous circulation over the pads. Capacity varies depending on the cooler's size



Fan or Axial Fan

Draws warm outside air through the wet cooling pads and blows cooled air into the room or desired space.

Frequency: 50 HZ



Air Distribution in the Room:

Throw the Air Flow in the room by two ways as per requirements.

1. Direct Air Flow
- 2 Through Duct channels with grills and diffusers





- **LCD Touch Screen Inverter**

(Thermostat Display Temperature Controller)

This device is displayed inside of the room in order to operate easily following functions;

1. On//OFF
 2. Set Air flow up/down
 3. Show Temperature
 3. Auto water drain
 4. Auto water flow in or stop water or clean
 5. Exhaust Function
 6. Option for cool air or dry air
- **Float Valve / Auto Water Level Controller**
 - Maintains water level in the reservoir.
 - Automatically refills when the water drops below a certain point.



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Technical Specifications

S#	Detail	Values
1	Equipment	Evaporative Water Air Cooler
2	Operational Controller	LCD control with remote
3	Made in	China
4	Air Flow Rate	10,000 cfm 18000m3/h
5	Cooling capacity	8-10°C reduce ambient.
6	Discharge of Air	Top OR Bottom
7	Type of Technology	Inverter Type
8	Grade	Commercial
9	Body	PVC Plastic
10	Fan Blade	3, 5, 9 blades
11	Air Control Speed	Multiple Speed option (12 speed)
12	Electric supply/Power	220V 50 H 1.5 KW
13	Cooling Pad	4" imported with Pre filters
14	Drain control	Auto
15	Make up Water	Auto
16	Motor Water Pump	Inverter type
17	Exhaust Air	Yes
18	Area Coverage	Upto 1500 Sqft
19	Tank Capacity	32 Liter
20	Net Weight	90 Kg



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