



The evaporative cooling is a natural process using natural elements to provide comfort. Like natural evaporating by an ocean, a river or a fountain, it blows by powerful fans the hot air from outside through a large water-drenched honeycomb pad, causing some of the water to evaporate and absorb heat. The stream of fresh air is up to 10°C below the hot outdoor air temperature.

Evaporative coolers are suitable for a wide range of applications: domestic, leisure, camping and caravanning, consulting rooms, humanitarian missions, catering, hotel and resort, shops and Workshops...

Specifications:

High performances:

- Cool area up to 40m².
- Stream of fresh air up to 10°C below the hot outdoor air.
- Cooled air flow: 1080 m³/h - 3 power levels.
- Water tank for evaporation: 20 liters.
- Reduced sound level: 50 dBa.
- No more shock from static electricity: the air is not dried.
- No installation needed.
- Easy to move from room to room by its handle and wheels.
- Environmentally friendly and comfort cooling: the evaporative Cooling is a natural process using natural elements to provide Comfort, it does not require the addition of ice to perform efficiently.

An optimum security:

- Over potential protection by fuse and against polarity inversion.
- LVD protection if energy supply with batteries.

The energy flexibility:

- Direct 60 Wp photovoltaic solar panel.
- Direct wind power supply.
- Battery 12-24 VDC power supply.

A sturdy green design:

- 15/10th galvanized steel framework with powder coated paint.
- High-Tech fans to a very low energy consumption.
- Main dimensions: H x L x D: 32'' x 20'' x 12'' (80x50x30 cm) - 30kg





SOLAR AIR COOLER: Key benefits

Low installation and running costs

The solar air cooler needs no installation: it is really a “plug and cool” system.

Due to its high-tech fans and its 50mm thick honeycomb pad, the 40Watt electrical power consumed by the cooler is converted into a 1000Watt cooling capacity. By the evaporation process, the hotter and dryer the inlet air is, the faster the water is evaporated and the cooler the air is blown.

It needs a very little maintenance: depending of pollution in air (mainly dust and dirt), the water tank must be cleaned at the end of each season. The honeycomb pad needs cleaning also and eventually replacing. The saving hits 80% on running costs compared with a standard air conditioning (10 to 15 kWh saved per day depending on use) and more if 100% solar use.

A low environment footprint

The solar air cooler uses no compressor and no refrigerant like CFC's that arm the environment, unlike conventional air conditioning. it also uses far less electricity, thereby saving energy and natural resources.

Both indoor and outdoor uses:

The solar air cooler can be used outside the home or business to cool outdoor open spaces (balcony, porch, terrace, garden, picnic area, caravan awning...) and to create a pleasant micro-climate.

A healthy air cooling:

The solar air cooler works doors or windows left open: it uses 100% air from the outside unlike conventional air conditioning which recycles the same stale and dry air over and over again. It maintains an ideal level of humidity and eliminates smoke, odors and polluted air. it is healthier and more pleasant to sensitive noses, eyes, respiratory tracts and skin. The fresh air is filtered, cleaned and renewed every few minutes.

Made In France
Brand : FREECOLD®