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## Overview Of Evaporative Air Coolers

By "A.Caxton"

If you ask an older relative if they have heard of an evaporative cooler, they may say no. But

chances are they would recognize the idea behind the technology. Before air conditioning or other cooler types existed, people would sleep outside on a screened in porch to try to stay cool at night. They would often hang damp sheets over the screens in an attempt to cool the air. As the hot air passed through the sheet, it was cooled. And then the cool air would slowly circulate, relieving some of the heat for the sleepers.

The same idea exists today in the form of evaporative coolers. These machines are wonderful cooling mechanisms for people who live in hot, dry climates. They are also known by the name swamp coolers, but that can be misleading because they actually won't work at all in swampy, humid conditions. The name probably came from the way that evaporative coolers actually add humidity to the air. But in fact, evaporative coolers need dry, hot air to work because in order for the air to be cooled, it has to be able to pick up (evaporate) some of the water. If the air is already saturated, it won't pick up any more water and it won't be cooled.

Here's how evaporative coolers work; the machine is composed of a fan that pulls the hot dry air inside the cooler, where it is passed through damp pads. The pads are kept damp by a pump that circulates water through the machine. As the dry air picks up some of the water, its temperature drops, sometimes by as much as 30 degrees Fahrenheit, depending on the climate. The cooler air is then blown into the room. An added bonus of an evaporative cooler is that the pads that cool the air also filter it. As the air passes through the pads, dirt, dust, allergens and other pollutants are captured in the fibers of the pads. So you'll be breathing cleaner, cooler air.

If you're wondering why you should choose an evaporative cooler over a traditional air conditioner, there's one more reason we haven't covered yet. The cost to run an evaporative cooler can be as little as 1/10 the amount it costs to run an air conditioner. In fact, some community power companies in hot, dry climates will actually offer residents a rebate if they install an evaporative cooler because they recognize the effective, efficient cooling capabilities of the technology. Contact your local power company to see if they offer the rebates and ask if they have any information on the effectiveness of an evaporative cooler in your area.

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A.Caxton adds regularly reviews on air coolers to

<http://www.evaporative-air-coolers.com>

. An online

information magazine about the basics of how evaporative air coolers work and some of the advantages of the technology for a good home air conditioning. Find your personal air cooler at

<http://www.evaporative-air-coolers.com/personal-air-coolers.html>

### **Know All About The Evaporative Cooler Prices**

**By Matthew Anderson**

Evaporative coolers are a better option when compared to the costly air conditioners. Since the evaporative coolers are cheap in their prices, possess high-tech systems and are quite reliable, so people prefer to use them. Portable and small in size, the air coolers keep your home and office truly cool spreading fresh and healthy air throughout the space. Evaporative cooler prices vary from cooler to cooler because each of the coolers has its own set of features and benefits. These outstanding features that differentiate them from one another include the speed fans, washable filters, and anti-bacterial water tank.

The evaporative coolers range in prices due to their different features that are sometimes common in each of the air coolers. If the air coolers have features like fans, remote control operating system, heater systems, and follow humidifier methods, then the prices of those evaporative coolers range from \$64.89 to \$114.99. These air coolers usually work with 60 to 200 watts of power and reduce the air temperature in the surrounding space to a considerable extent.

#### **Different Types And Their Different Prices**

The prices of the evaporative coolers also vary for the different types of the air coolers. The portable air coolers that can be moved from one place to another are quite durable and reliable. They cost lesser as compared to the air-conditioners that usually have exorbitant prices. The regular prices of these evaporative coolers are approximately \$139.99 and the sale price of the coolers is \$109.99. The evaporative air coolers that contain ionizers have their prices ranging from \$129.99 to \$149.99. The sale prices of these air coolers, however, range from being \$89 to \$99. These air coolers are truly advantageous, as the prices remain low yet they offer the highest cooling ambience to the entire space around.

#### **Variation In Prices Due To The Size And Capacity Of The Air Coolers**

The prices of the evaporative coolers also differ due to the size and capacity of the air coolers. If the coolers have a fan, humidifier and ionic air purifier system operated by a remote control then the prices range from being \$100 to \$120. The air coolers capable of cooling huge areas like 200 square feet

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range in prices from being \$70 to \$120. These coolers work great in dry conditions under 50 % humidity level.

The evaporative cooler prices also depend upon the brands of the coolers. So while the Fujitronic portable coolers range in prices from being \$90 to \$129, the hi-cool evaporative air coolers range from being \$250 to \$400. The slant/fin air-cooling system uses water evaporation systems to cool the air much more than the fan. So these air coolers range in prices from \$93.49 to \$103.49. The portable air coolers that can be operated with the remote controls can range in prices \$229 to \$250. So if you need an evaporative cooler that is portable, powerful, energy-efficient and considerable prices, then you should compare the prices and then opt for the air-cooler that will best suit your purposes. You should make a thorough survey of the online prices to get an air cooler that will be just suitable for the area space of your home or office and come in useful package within your budget.

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