



“I got the idea because my air conditioner wasn’t big enough to keep up,” says Roger Altman, who uses an ordinary lawn sprinkler to keep the roof of his house cool during the summer.

Cooling System Saves Money on AC

“I use an everyday lawn sprinkler to keep the roof of my house cool during the summer. I got the idea because my air conditioner wasn’t big enough to keep up,” says Roger Altman, an engineer/inventor who lives in rural New York.

Altman calls his system PERC, which stands for Perimeter Evaporative Roof Cooling. “My concept will let the average handyman build a house roof cooling system for under \$100,” Altman says.

PERC uses conventional lawn sprinklers that are anchored to roof gutters and connected through garden hoses to a spigot fitted with a conventional on/off watering timer. A thermostat mounted on the top of roof shingles triggers water flow when the roof temperature reaches 110 degrees. Water is sprayed across the roof for 20 to 25 seconds so all of the shingles become completely wet.

“PERC is basically an external air conditioning system,” Altman said. “As the water evaporates from the roof, the temperature of the shingles goes down 40 to 50 degrees and remains below 110 degrees for about 20 min. Then the system triggers the sprinkler so the cycle can start again.”

Altman says that for every gallon of water that evaporates from a roof, about 8,000 btu’s of heat are “sucked away”. That evaporation reduces the air conditioner’s workload by 50 percent, which saves quite a bit of money on electricity. If a new AC is purchased to work alongside the PERC, capital costs are reduced by about 40 percent.

People can learn how to build Altman’s system by going to his website and then downloading plans.

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B&D Rollers says, “We can take your existing rubber or steel rollers and recondition them to create rubber-coated, state-of-the-art rollers, called: THE CRUSHER®”

Reconditioned Hay Rollers Boost Feed Quality, Cut Drying Time In Half

“Our rollers are 100 percent rubber contact rollers that go together like two rubber roller gears. They are balanced and trued to 1,000+ rpm’s and they have no vibration, which saves on bearings and machine wear and tear.

“This saves farmers time and money! Using the machine’s same tension system in the machine, the unique roller design can be used on any style machine,” says Dan Ostrander, owner of B&D Rollers, Glenwood, Minnesota.

Hay producers are finding that THE CRUSHER® cuts drying time by 50 percent and have saved as much as \$15,000 or more in a season. How can this be?

“The unique roller design allows producers to cut and chop forage the same day, cut and bale the next, and in most cases, get the crop down to 18 percent moisture for next-day bailing. The stem is completely compressed, leaving the leaves on for greater nutritional value as well as adding more tonnage per bale. All of this adds up to saving time and adding money to the bottom line,” says Ostrander.

The quicker dry-down time has been proven in side-by-side comparison tests with CNH, New Holland, Kuhn, Hesston and Deere Hay Conditioners. “Our rollers won’t plug, so you don’t have to get off of the machine and waste time. The rollers are self-cleaning and gopher mounds do not pose a problem. The thick rubber design provides a cushion for rock and other debris to easily pass through without damage to the steel core. Further, the juices of the product are not permitted to seep into the layer between the rubber and steel core, thus



The amount of moisture in the crop does not affect operation of the rubber-coated rollers, says the company.

avoiding bond failure.”

B&D Rollers has been in the business of coating industrial steel rollers with rubber and urethane products for more than 23 years. “With our knowledge and experience, it is our mission to provide the farming industry with the highest quality rubber conditioning roller and other products for the ag industry. Including Bale Rollers, Track Bogie Wheels and Stock Chopper balancing.”

There are currently hundreds of machines throughout North America using THE CRUSHER®. Some of the rollers have already seen five seasons, and farmers have run thousands of acres through THE CRUSHER® with little to no wear. Rollers are fully guaranteed for 1 year. B & D Rollers is now recovering bogie wheels and baler rollers, as well as, repairing and balancing stalk choppers.

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