



## Residential Home Benefits From Hyper-Efficient Cooling Solution

### Residential Home

Boulder, CO  
(2,400 sq. ft.)

#### Contractor

Trout Mechanical – Greeley, CO

#### Equipment

1 Climate Wizard Direct Evaporative air conditioner  
Model: CW3 unit

### Project Objective

Customer had an existing direct evaporative cooler that was no longer functional. He wanted an energy efficient cooling solution that did not add as much moisture to his house as a direct evaporative cooler.

### Project Challenges

Modification of the roof penetration to allow for the install of the CW3 unit.

### Solution

One CW3 was mounted on a section of flat roof on the house where a direct evaporative cooler had been. Unit was installed in the summer of 2021 so the customer enjoyed immediate benefit of cool air to his home.

Customer is very happy with the performance of the CW3 as it provides cool air to the space and less moisture than a direct evaporative cooler.



Model	CW3
Ambient design conditions	90/60°F (dry bulb/ wet-bulb)
Space temp	70°F
Supply temp	58°F
Stand Alone Cooling Capacity	4 tons
Conditioned Outside Air	2,750 cfm
Input power	1.7 kW
EER	27

Energy savings: 80% energy savings as compared to traditional DX. Electrical Demand Reduction: Reduced electrical demand kW by 50%

## Results

Cooler temperatures in the house with reduced moisture in the space. High ventilation rates for homeowner comfort and less humidity as compared to a direct evaporative cooler. When the outdoor air temperatures are cool enough, unit can be put into a ventilation mode to reduce the water consumption.



## Customer Testimonial

**“I wanted to let you know that we're thrilled with the performance of the CW3 - it has incredible cooling capability. I had to reset my expectations a bit regarding the humidity, but it's far (far) better than our old evaporative cooler, both in terms of humidity and cooling. Even on the hottest days the CW3 effortlessly cools our entire home. We normally don't run it above a fan speed of 3 or 4. It's just not necessary. Our guests have all said how comfortable the home feels.”**



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