

RHINO LIQUORS KEEPS IT COOL BY SAVING ON REFRIGERATION



Rhino Liquors has saved nearly 86% on its refrigeration usage by doing just a few minor upgrades. Chris Manis, owner of Rhino Liquors, says about the contractor, FridgeWize, "Those guys are great to work with. They motivated me to come on board. I'm impressed with the savings." When asked if there was any other advantage of changing the motors in the reach-in coolers, other than just energy savings, Chris said, "It's quiet! Before you couldn't talk in the cooler, you had to yell to have the other person hear you." Chris plans to continue with his energy efficient retrofits by upgrading the lighting.



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RHINO LIQUORS

6820 Highway 82, Glenwood Springs, CO

BUILDING USE: Liquor and Beverage Retail Store

SQUARE FOOTAGE: 1,600

REFRIGERATION UPGRADES

Project Cost Summary

Initial Cost:	\$3,398
Less Incentives Received	
Holy Cross Energy Rebate	(\$1,699)
Final Cost	\$1,699

Payback Calculations

Final Project Cost:	\$1,699
Total Cost Savings (Annual)	\$1,733
Payback in Months	12

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The reach-in coolers were retrofitted with new EC motors for fans, along with a two stage motor control that shifts fans to half speed when not in a cooling phase.

>>> REFRIGERATION CASE STUDY SHOWS COMMUNITY HOW TO SAVE ON ENERGY BILLS

Chris Manis, owner of Rhino Liquors, was interested in upgrading the reach-in/walk-in coolers, but did not have the initial capital to fund the project. FridgeWize, based in Glenwood Springs, offered Chris an opportunity to have the work done at no cost if they could monitor the usage and use the store as a case study. FridgeWize installed monitoring devices that tracked hourly electric usage.



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DISCOVER "low-hanging fruit" energy savings as well as long term energy efficiency practices.

Schedule a complimentary energy audit with Holy Cross. Let us help you discover hidden energy efficiency opportunities.

OPTIMIZE your building's existing equipment. Select qualified contractors from Holy Cross's list to tune up heating and cooling equipment for optimized efficiency.

UPGRADE your old or inefficient equipment. Holy Cross rebates help pave the way for energy efficiency to be affordable. Consider upgrades today to start saving energy and money!



SMART STATS

The original walk-in cooler fans used shaded-pole type motors, which ran continually. They were replaced with EC motors that use about 25% of the energy. A two stage speed switch was also installed to lower the fan speed when not needed. An E-cube thermostat control was installed to sense the temperature of solids instead of ambient air temperature. Anti-sweat heater controls were added to reduce the amount of time the heaters needed to run (generally 24/7).

PRE-UPGRADE STATS

Annual Refrigeration kWh22,996
Annual Refrigeration Costs.....\$2,009

POST-UPGRADE STATS

Annual Refrigeration kWh.....3,160
Annual Refrigeration Cost.....\$276
Total Cost Savings.....\$1,733
Total kWh Savings.....19,836
Total Energy Savings kWh (%)....86%