



CASE STUDY

Californian Restaurant Venita Rhea



Venita Rhea's Restaurant uses Climate Wizard and saves 71% energy on A/C

VENITA RHEA HAVE BEEN SUCCESSFUL RESTAURANTEURS FOR 36 YEARS, AND IN 2012 ADDED TO THAT SUCCESS BY INSTALLING CLIMATE WIZARD AS SUPPLEMENTARY COOLING TO THE RESTAURANT.

The installation was set up to operate in conjunction with existing rooftop packaged air conditioners (PACs) that had previously provided all the cooling needs during the hot summers experienced in California.

The restaurant operates from 7am to 3pm most days of the week and caters for customers from local industry to residents of the area. Their philosophy of customer service extends from the fabulous food to the ambiance of the restaurant and air conditioned comfort. Therefore, good

air conditioning at minimum operating cost is an essential part of their successful formula.

The system is set so that when they open in the morning, Climate Wizard provides the first stage of cooling and the PACs only come on line when the need arises. At all times Climate Wizard provides outside air to keep the restaurant fresh and pleasant.

The installation was retro-fitted adjacent to the PACs on the roof and with separate ducting directly to the conditioned space, which meant a quick and easy installation, with no disruption to business.

This installation was sponsored by Pacific Gas & Electric Company (PG&E) and they arranged for independent monitoring of the installation.

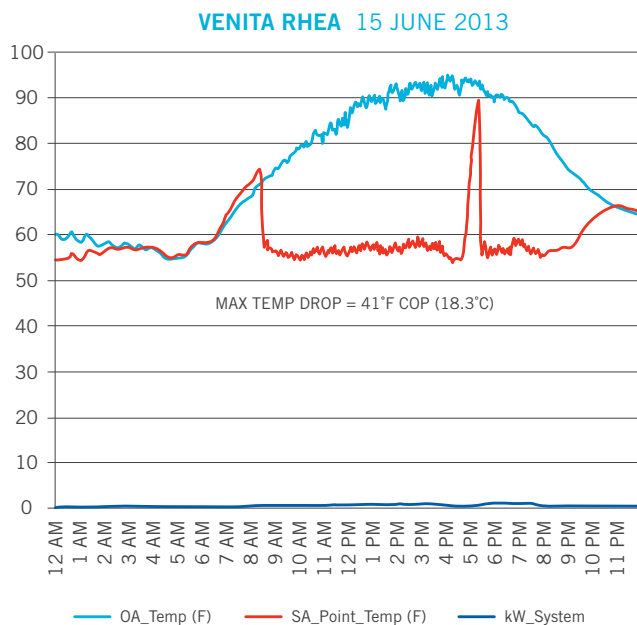
The initial report on the first three months of operation during the summer of 2012, indicated a measured energy saving for air conditioning of 71%, compared to a similar period prior to the installation of Climate Wizard.*

The graph below shows that on a hot day, when it reached 95°F (35°C) on the roof, Climate Wizard was delivering cool air at 58°F (14.4°C). This means that Climate Wizard was operating at an incredible EER of 62.5 (COP = 18.3). Compared to a commercial refrigerated system, that is well over five times more efficient.

The graph also shows the rapid response that is achieved by Climate Wizard immediately after switching on.

This super fast response is due to the innovative design of the heat exchanger and the efficient water management system that ensures extremely rapid and complete wetting of the evaporative surfaces.

*Evaporative Retrofit Components for Roof Top Packaged Air-conditioning Units. PG&E ET Project Number ET12PGE3181.



The photo shows just how easy the installation was. Power and water was already on the roof as it was supplying the existing PACs and direct evaporative unit.

The modest weight of Climate Wizard and ducting meant that no additional structural support was needed, meaning that Climate Wizard could be placed in the most convenient position for supply to the space below.

Project information

Installation	Original	New
System	Various PACs	CW-H15 + PACs
Cooling Capacity	-	15 + PACs
Input Power CW Only	-	1.8kW
COP (EER)*	-	18.3 (62.5)
Power Saving*	-	71%

*Measured first 3 months of operation

Benefits

- ✓ EXCEPTIONALLY LOW COST OF OPERATION, WITH AN EER OF 62.5 (COP 18.3)
- ✓ 71% ENERGY SAVING IN FIRST PERIOD OF MEASUREMENT
- ✓ LOW MAINTENANCE COSTS AND LONG LIFE EQUIPMENT
- ✓ RETRO-FIT INSTALLATION, SUITABLE FOR ALL RTUs
- ✓ ENHANCED COMMITMENT TO THE ENVIRONMENT



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