



State of California • Department of General Services • GRAY
DAVIS, Governor

**REAL ESTATE SERVICES DIVISION
Building and Property Management
Branch**

1500 11th Street, Room 145 • Sacramento, California
95814-5906

September 4, 2001

Global Energy Resources
55 Shaw Ave
Clovis, CA 93612
Attn: Wally Harris

Re: Talon (AKA ArticMaster) Energy Savings Device

Dear Mr. Harris,

The air conditioning at this State of California Archives and Secretary of State Office Building must operate within specific guidelines and reliability standards to achieve both archived materials preservation and the comfort needs of State employees.

When the State's Energy Management Division introduced us to the ArticMaster we agreed to test the product.

On June 7th 2001, one ArticMaster was installed on a 10-ton split system serving the Media Vault, a separate room within the Archives vault. At the same time, ThernaMax, a chlorine-free covalent polarized refrigerant oil additive was also added to the system.

This split system historically had difficulty keeping the Media Vault room temperature at 50 degrees and humidity at 40%. Prior to installation of the ArticMaster, the system rarely cycled off and ran almost continuously.

After installation of the ArticMaster and Therna Max, the amperage demand of the 10-ton split system dropped from an average of 22.2 Amps to an average of 21.0 Amps (-1.2 amps) and the supply air ran 8 degrees colder, thus allowing the required Relative Humidity (RH) of 40% to be met. Because the 40% RH could now be met, the Energy Management System (EMS) controlling the unit allowed the compressor to cycle off. It now cycles and no longer runs continuously. In fact, it runs approximately 6 hours less during a 24-hour period.

Both the efficiency and performance of the 10-ton split system have been improved with the installation of the ArticMaster. We anticipate continued energy savings with the ArticMaster.

Sincerely,


John W. Johnson, RPA, FMA, SMA
Office Building Manager III, CSA IV

Cc: File

John Baca, Manager, Energy Mgmt. Div.