

**Hot Water Bills Left You**

**FEELING COLD?**

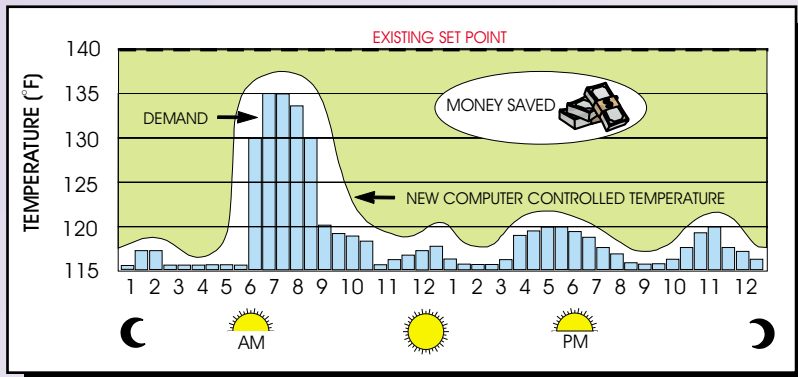
**the PT70 Series  
Water Heater Controllers**

**SAVE UP TO 25% OR MORE  
OFF YOUR FUEL BILLS!**



**STOP PAYING FOR HOT WATER YOU DON'T NEED!**

If you're like most building owners, heating hot water for showers, washing, etc. is one of your largest expenses. Because the demand for hot water varies throughout the day and night,



building owners are forced to set the aquastat at a constantly high temperature. However, the greatest demand for hot water is only about four hours per day. (see graph at left) And what about those times when your building isn't at full occupancy? Do you really need all that hot water? Of course not.

**INCREASE YOUR PROFITS**

These energy efficient controllers begin saving you money on the first day of operation by automatically matching hot water temperature to demand. The controller continuously monitors daily hot water usage patterns and tells your water heater precisely when to raise and lower temperatures. Now you can eliminate those long hours of wasted energy and costly stand-by heat loss. With the PRO-TEMP on-line, your fuel bills will be slashed by up to 25% or more! Depending on your fuel costs, the original investment for installation is paid back in 24 months or less...usually less!

- **SIMPLE OPERATION**

PRO-TEMP engineering recognizes that if modern technology is to be utilized it must be user friendly, easy to operate, and require no special training. These controllers while sophisticated in operation, are easy to operate.

- **TIME SCHEDULING**

This time scheduling feature is facilitated by an internal 7-day clock which provides up to 20 different time periods per week. It reduces operating costs by shutting down the system when the building is unoccupied.

- **AUTOMATIC FEATURE AND ALARM**

Complete system reports, including graphs, can be sent to any fax machine automatically at regular intervals, weekly or monthly. Status messages can also be transmitted to report alarm conditions. (available on some models)

- **SECURITY PASSWORD**

Security PASSWORD feature prevents unauthorized access by modem or direct connection. (available on some models)

- **DATA LOGGING/MODEM CAPABILITY**

All process and set-point values are recorded in the controller. Detailed data is stored for the last 7 days at 10 minute intervals and trend graphs for the last 12 months. All program and process data can be downloaded to any DOS computer via modem connection. (available on some models)

- **MULTIPLE STAGING CAPABILITY**

Sequencing maximizes the savings potential of the system while extending equipment life by reducing run-time and the number of cycles.

- **NON-DISRUPTIVE INSTALLATION/FAIL SAFE OPERATION**

There is no need to cut pipes or interrupt service. Hot water is always available to building occupants. Should the PRO-TEMP fail, controls returns to the original aquastat.

- **PROPORTIONAL, INTEGRAL, DERIVATIVE CONTROL (PID)**

For use with modulating valves, the PRO-TEMP controller outputs PWM (pulse width modulating) for four channels of independent pid control which work in conjunction with four branch sensors. One interface board is included to convert one PWM signal to analog output (4-20mA or 0-10 VDC) for interface to motorized or pneumatically operated valves. (available on some models)

- **CONFIDENCE**

For nearly 10 years, PRO-TEMP controllers have been saving money at thousands of locations. Hotels, universities, office buildings, military installations, apartments, dormitories, and nursing homes are some of the types of properties already on-line with PRO-TEMP. Every PRO-TEMP controller is backed by an outstanding one year warranty.

## PRODUCT SPECIFICATIONS

### PHYSICAL ENCLOSURE

Epoxy coated crs metal with lockable door. (lock not included)

Dimensions: 8.3" x 10.8" x 3.5" (w x h x d)

Weight: 6 pounds

Analog inputs

### ANALOG INPUTS

Quantity: 4 (expandable to 14 on some models)

Type: thermistor

Range: -30° F. to 230° F.

Resolution: 0.1° F.

### RELAY OUTPUTS

Quantity: 4 (expandable to 12 on some models)

Type: N/C, N/O or Relay Driver

Contact Rating: .75 Amps Inductive Load

### POWER REQUIREMENTS

24 VAC at 20 VA

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