

WATER AND SEWER GLYCOL HEAT LOOPS

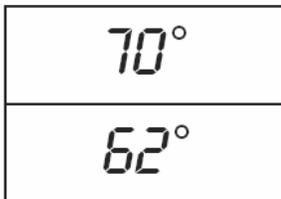
"Outside air temperature controllers are low cost resulting in instant oil or electrical savings"



OUTSIDE AIR TEMPERATURE CONTROLLER

Facilities with glycol heat loops that provide protection for outside water and sewer lines and tanks are sometimes piped directly into the boiler supply and return headers with a circulator attached that usually runs 24/7 365 days a year. Unless turned off by an operator it continues to consume oil even when the heat loop serves no purpose (Temperatures above freezing).

The installation of an outside air temperature controller would have significant effect in reducing oil consumption for heat loops. The controller could also be used to save on electricity costs when electrical heat tapes are used to protect water and sewer lines and tanks. Outside air temperature controllers are low cost resulting in instant oil or electrical savings.



DAY

**NIGHT
SETBACK**

PROGRAMMABLE AND LIGHT SENSING THERMOSTATS

"Automatic Night Setback of 72F to 62F from 10pm to 6am equates to 20% savings in heating costs"



24V PROGRAMMABLE

It is a common misconception that setting back thermostats uses more energy than if set at 72F degrees 24/7. In fact, setback thermostats when used properly *will* save on heating fuel oil costs.

Savings occur by lowering the temperature settings in the winter when the building is unoccupied. The savings happen because there is no excess waste of heating oil when nobody is there. Thermostats can be set to warm the space prior to people arriving.



LIGHT SENSING

Programming the thermostat will reduce heating costs by two percent for every one degree of setback in an 8-hour period; e.g., Automatic Night Setback of 72F to 62F from 10pm to 6am equates to 20% savings in heating costs.

One particularly interesting model uses a photosensor (light sensing) to adjust the temperatures up and down according to whether or not lights are on or off in the area being controlled. This is an ideal thermostat for oversized baseboard in a room and for hot air furnaces. Sunlight does not affect this thermostat.