PowerSentri™ Applications

How they Work

- Microprocessor unit monitors the on and off times of compressor.
- Microprocessor detects changes in system load through time history analysis of recent compressor run cycles.
- Based on time history analysis an optimal hold-off time to delay compressor start is determined.
- Microprocessor holds off compressor start by a calculated amount of delay-time.
- Fewer cycles with longer run times reduce energy consumption and reduce the number of startup loads per hour, reducing demand charges.

The chart below graphs the impact of modifying the on and off cycles with a "smart" controller. As is illustrated below by the purple curves, the PowerSentri™ causes the system to turn on only five times. The non-PowerSentri™ cycles on seven times for the same time frame.