

REDUCING HVAC & REFRIGERATION COSTS WITH CYCLE MANAGEMENT

IntelliCon®:

IntelliCon is a low cost microcomputer based product that provides real-time energy management of HVAC and refrigeration systems that have an on-off type cycling operation.

HOW IntelliCon WORKS AND SAVES

Heating, cooling and refrigeration systems are sized to meet maximum expected demand, which occur only a small fraction of the time. During times of lessened demand, the system has considerable excess capacity, causing frequent on-off cycling. Similar to stop-and-go driving of a car, this wastes significant energy.

IntelliCon continuously analyzes real-time demand for the HVAC or refrigeration to determine the actual cooling, heating or refrigeration requirement. As the demand reduces, IntelliCon will then calculate the additional time the compressor or burner can remain off during the off-cycle, while maintaining all temperature requirements.

The result is when equipment is not operating under maximum "load" demand conditions: off-cycles are extended up to 3-minutes per cycle throughout the day; temperature requirements are maintained; when the equipment cycles on, there is only a few seconds of added run time; the numbers of cycles are reduced; and there is less wear and tear on equipment.

THE ECONOMICS

- Total compressor runtime and number of cycles are reduced, generally 14 to 18%.
- Installed cost can be under \$500 per unit with payback periods from 12 to 24 months.



Some Applications:

Packaged AC Units
Split Type AC Units
Self Contained AC Units
Heat Pumps
Commercial Refrigeration
Commercial Hot Water Heaters
Indirect Heat Absorption Chillers
Residential boilers
Residential Heat Pumps
Residential Central AC

STOP WASTING 14% TO 18% ON HVAC AND REFRIGERATION SYSTEMS