



Energy Technologies

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Energy Technologies helps larger organizations decrease electric and gas consumption by the application of proven technology.

Examples

Colorado Meat Packers

Increased plant capacity (and decreased their electric bill) by 18%

Edge Ice Arena

Decreased compressor run-hours by 6.2% (100HP Mycom compressors)

Ridge Recreation Center

Decreased their KWH consumption by 15%

North Boulder Recreation Center

Decreased KW draw on HID lights over pool areas by 30%

CH2M Hill

Decreased KWH consumption by 8.7% in their four-building office campus

Aspen Municipal Parking Garage

Increased light levels by 82% while reducing electric consumption by 50%

Technology employed

Capacitors

- Decrease amp draw
- Increase plant capacity
- Decrease heat in electrical system

Polarized Refrigerant Oil Additive

- Improve Lubricity
- Satisfy thermostat faster
- Extend motor life

Harmonics Filters

- Improve Power Quality
- Decrease heat and distortion
- Decrease KWH consumption

Thermal Equalizer

- Moves hot air from ceiling to floor
- Decreases heat and HVAC needed
- Increases occupants' comfort

Specialized Lighting

- Parking Garages
- Ice Rinks
- Dimmable Ballasts/Daylighting

HVAC Controllers

- Adjust compressor run cycle
- Maintains temperature



EasiLiner

Inductive motors utilize active and reactive current. The reactive current goes back up the line, creating heat and wasted energy. The EasiLiner™ recycles that reactive current, sending it back to the motor so it can be used effectively. This results in lower electric bills, higher performance and longer life for electric motors.



Without loss of RPM or HP, the EasiLiner™ recycles wasted reactive current, generating enough savings to pay for itself 10-15 times over during its normal lifespan, as well as greatly improving the operating efficiency of the treated load. By reducing heat losses and improving voltages in both the electrical supply circuit and the treated load, the EasiLiner™ decreases all associated costs of maintenance, repair and replacement, loss of production due to failure, and actual billed electricity costs.

PowerLiner



costs.

Non-linear loads create harmonics. Variable Frequency Drives (VFDs), DC drives, welders and arc lighting are major contributors to these harmful elements in your electrical distribution system. Harmonics generate heat and energy waste as well as interruptions elsewhere in your electrical system. The Power Liner™ reduces the harmonics by cancelling a substantial portion of the 5th and 7th order harmonics. This results in reduced down time, extended life, reduced heat and decreased electric

Illumiliner



The IllumiLiner™ controls entire circuits of lighting from the lighting panel, providing circuit-by circuit flexibility and a very short return on investment. The IllumiLiner improves the lighting's performance to voltage, and provides for controllable distribution of illumination.

The IllumiLiner automatically adjusts itself to your lighting system voltage. The units are configured at installation for the type of lighting being treated, and then provide exactly the real time correction appropriate for magnetic or electronic ballast fluorescent fixtures; metal halide, sodium, or mercury vapor high intensity discharge fixtures; or incandescent or quartz lighting systems.

TVSS



The Transient Voltage Surge Suppressor (TVSS) protects sensitive, electronic equipment from voltage transients that cause continual stress and degradation of microprocessor circuitry while shortening the life of motors and lighting.

The EASI Industrial Voltage Surge Suppressor is designed for quick and easy installation at electrical panels and safety switches, or directly at the load. Its instant response to voltage spikes and cost effectiveness of operation make it the logical choice and your first line of defense in combating transient voltage surges.

Frigi-Tech



FrigiTech™ is a Polarized Refrigerant Oil Additive (PROA) that is added to the refrigerant and protects the surfaces of the compressor, condenser and evaporators. This is a one-time application that decreases friction and reduces run time of the refrigeration/HVAC equipment.

It extends equipment life, decreases electric consumption, reduces maintenance costs and headaches. It does not void manufacturers' warranties. This product has been used by industry and government for over 25 years in all types of applications and with all with all types of refrigerants (R-22, R-122, Ammonia, etc.) It is applicable for office buildings, factories, cold-storage facilities, food processing, and any other application that uses HVAC or refrigeration equipment.

C-A-C Units



The IntelliCon-CAC is a microcomputer controlled, UL-listed electronic device that automatically adjusts the compressor cycles to achieve the greatest efficiency and reduced electrical usage while assuring consistent temperature levels.

This unit determines the cooling demand and thermal characteristics of the entire air conditioning system by analyzing the compressor cycle pattern and dynamically modifying that to provide the required amount of cooling in the most efficient manner.

Airius® Air Pear



Because heat rises

The Air Pear is a highly-efficient and specialized fan that directs an invisible column of air from the ceiling to the floor, thus equalizing temperature throughout the affected area. Especially beneficial in high ceiling applications such as retail, warehouses, factories, exhibition halls, hospitals, offices, and any other facility whose ceilings are 10 feet or higher.

This device will reduce the gas (or electricity) necessary to heat that area. Currently you are paying to heat the ceiling. With the Air Pear, that wasted heat is directed down to where the employees/customers/product are, thus creating a more comfortable work environment and decreased heat load.

It is quiet, energy-efficient, unobtrusive and is effective with ceiling heights from 10 to 100 feet.

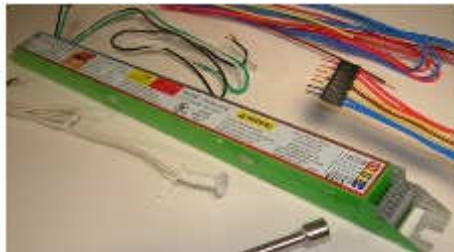
IntellEnergy's ParkLite™



This unique design for parking lot lighting is far superior to HID lights because these high-output fluorescent lamps

generate more light, last longer, are easier (and less expensive) to change. They are also amenable to daylight harvesting for perimeter lamps. The ParkLite is vapor-tight, instant-on and preferable to typical fluorescent light because of its unique reflector system directs light up, down and to the side.

Axis Dimmable Ballasts



available sunlight.

Many fluorescent fixtures are near windows or other light sources. Daylight harvesting takes advantage of that ambient light which can reduce lighting energy costs by up to 70%. The Axis Ballast utilizes an individual photo sensor to automatically adjust the amount of electrical current flowing to the light fixture and then dims or increases lighting in conjunction with the amount of

Saving Energy is easy with the Daylight Harvesting Axis Technologies Fluorescent Ballast. When windows or skylights provide natural daylight to a room, the Axis Ballast uses integrated automatic controls to reduce your energy and daytime peak demand load.