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Use Metal halide lamps with Active Reactor

Active Reactor is an electronically controlled magnetic ballast that can be used on high bay discharge lighting

Why?

The Active Reactor device uses feedback in its operation and control mechanism to compensate for disturbances in voltage supply, lamp ageing and temperature variations. This ensures a more constant light output during the life of the lamp.

Running a lamp under these controlled conditions results in power and energy savings of around 17.5% of the energy over the life of the luminaire for a standard metal halide fitting and 22.5% for standard high pressure sodium lamps.

How?

Contact The Active Reactor Company for advice. An electrician will need to change the ballast to an Active Reactor ballast on suitable lights.

How did we calculate this?

Assuming the average SME has 10 Metal Halide lights consuming 285W each (including ballast) running for 2000 hours per year. With an average 17.5% saving; $10 \times 0.285 \times 17.5\% \times 2000 \times 1.37 = 1367\text{kg CO}_2\text{e savings}$.

Cost to implement

The cost of the Active Reactor units depend on whether the units are being retrofitted to existing lights or installed with new lights, and the type of lights. As a guide, retrofitting to a 250W Metal Halide light would cost \$300 - \$400 plus installation which may take around half an hour per unit. Lamp changeover costs will be reduced, as the lamp life should increase by a third or increase by at least half for high pressure sodium lamps.

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