

Benefits of using High Frequency Control Gear in conjunction with Tri-phosphor lamps.

Features of High frequency Operation.

Normal mains frequency is 50 Hz (cycles per second). This means that with conventional control gear (CCG) a fluorescent lamp will flicker 100 times a second and occasionally, a buzzing noise, (50 cycle hum) can be heard from the fittings.

High frequency or electronic control gear (ECG) operates at around 30-50 KHz.

Benefits of High Frequency Fittings.

- Flicker free and silent operation.
- 'Instant' starting.
- Detects failed lamps, no more flashing on and off.
- Cold starting in sub-zero temperature.
- No stroboscopic effects.
- 20-30% saving in running costs.

Features of Tri-phosphor Lamps.

Tri-phosphor lamps drop to 96% of their original output after about 4000 hours and remain at that level compared to standard lamps which drop to 86% and then down to 74% over the rest of their life.

Survival rate of 70% of tri-phosphor tubes after 16,000 hours, compared to 10,000 hours for standard tubes.

Approximately 15% increase in light output over standard tubes.

Benefits of Tri-phosphor Lamps.

- Savings in running and lamps replacement costs.
- Savings in initial cost of installation as fewer lamps may be required to maintain the lighting level at its original design level.