

SAVING ENERGY, MANAGING RESOURCES

The first standard fluorescent light fittings used in most commercial buildings in the UK were the T12 with the T8 introduced some years later.

The T12 tube has a large 1.5" / 35 mm diameter tube and the T8 as a slightly smaller 1" / 25 mm diameter.

Today more efficient and better quality lighting is available using the new T5 technology high frequency control gear and new T5 tubes.

These high efficiency T5 tubes are now manufactured by OSRAM, SYLVANIA, GE and PHILIPS. It combines all the new technology into a sleek 16mm diameter tube.

The T5 is a very efficient fluorescent tube, providing excellent quality light with a lifespan of over 20,000 hours. Compared to lifespan of 10,000 hours of the conventional T12 and T8 tubes.

T5 gives an energy saving of up to 60 % it is environmentally friendly, containing 38% less glass with only a little mercury compared to the old tubes.

All this would make the T5 a desirable alternative to the T8 and older T12 but there are a few factors to consider.

Most but not all T8/T12 fluorescent light fittings use very inefficient electromagnetic ballasts. In addition the T5 tubes are shorter in length and require high frequency electronic ballasts (ECG) to operate them so yes a few problems.

FACTOR 1

If you choose to use new T5 tubes to replace your T12 /T8 tubes you would have to change the complete T12 or T8 fixture to accommodate the shorter and smaller diameter T5 tube.

FACTOR 2

On most T8 / T12 fittings you will also have to replace the electro magnetic ballast with high frequency ballast to operate the T5 tube otherwise the fitting wouldn't work.

So replacing the old T8 /T12 fittings and magnetic ballasts with new T5 technology would be a major expense and an installation project would have a major impact on day to day business.

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THE BENEFITS.

The benefits are immediate and long term.

Long term because the life of a T8 / T12 tubes are 10,000 hours ~ T5 tube 20,000 hours and the Envirolite 8 to 5 unit 50.000 hours

10 hours a day, 6 days a week = 15 years.

With energy savings of up to 65% this means a very substantial cost, environmental and recycling benefits which cant be ignored.

Your business can achieve the following benefits by simply installing the Envirolite 8 to 5

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|-------------------------------------|---------------------------------|
| .Energy saving | .Better Lighting Conditions. |
| .Reduced Operational Costs | .Reduced Maintenance Costs. |
| .Environmental friendly (less Co 2) | . Long Term Cost Effectiveness. |

.Minimal Installation Costs

.No Interruptions during Installation

. Instant Start up And Flicker Free Illumination during Operation

.Better Quality Light and Illumination of the Workplace

.No stroboscopic effect

.T5 Contain 35% less Glass and Phosphorous than T8 / T12 tubes.

.Low energy consumption and a reduction in CO2.

.No PCB emission, thereby anticipating new future compliance.

.Significantly lower maintenance costs through longer life T5 tubes.

Carbon Trust Interest finance is available.

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SO WHATS THE ANSWER ?

The Envirolite 8 to 5 is a new type of high frequency ballast called Electronic Control Gear (ECG) that is designed to work specifically with T5 fluorescent light tubes.

The 8 to 5 is designed to bridge the gap between T8 / T12 fixtures and the shorter T5 tube .So the 8 to 5 is a high frequency electronic ballast and bridge adaptor all in one.

8 TO 5 ~ HIGH FREQUENCY ELECTRONIC BALLAST.

It is the electronic ballast which provides the excellent energy efficiency and also stops the slow start and flickering on many T8 and T12 fittings Electronic ballasts have a frequency of 100 HZ, whilst the new T5 Electronic ballast operates at 35,000 HZ so there is no stroboscopic flickering which causes headaches and eye problems for many employees and is a known health and safety issue.

The technology inside the adaptor , together with a T5 tube can **CREATE ENERGY SAVINGS OF UP TO 60%** , improve working conditions **REDUCE MAINTENANCE COSTS BY UP TO 50%**. Reduce Co2 emissions and help the environment (There is enough mercury in an old 6 ft T8 / T12 fluorescent tubes to pollute 30,000 litres of drinking water if it leaked into the water table.

We also can provide a licensed, accredited and fully approved recycling service for all your used fluorescent lamps.

SUMMARY

The simplest and most economical way to use energy saving T5 lamps in existing T8 / T12 fittings is to use the 8 to 5 extremely efficient high frequency electronic ballast.

Depending on electricity costs, conversion to T5 tubes with the 8 to 5 electronic control gear has a **PAY BACK TIME OF APPROXIMATELY 1 YEAR.**
The lifetime of a T5 tube is 20,000 hours and the lifetime of the Envirolite 8 to 5 is around 50.000 hours and at 10 hours per day on a 6 day per week average that's over 15 years. This means a significant reduction on maintenance costs.

Also the **CARBON TRUST CAN OFFER 0% LOANS** to cover the cost.

