

Compact Fluorescent Lights (CFLs)

Compact fluorescent lights or CFLs are designed to replace frequently used incandescent bulbs. They can be used to reduce energy use and power demand by over 70 percent. The CFL lights have a lifetime of at least 10,000 hours and the light produced is similar in appearance to that of an incandescent light. Frequent cycles of short operation hours may however significantly reduce light life.

CFL lights with incandescent-type screw-in bases or adapters fit into many incandescent fixtures. Several types are available.

- **Twin-tube:** The "twin-tube" lights come in 5-, 7-, 9-, 13-, and 26-watt sizes and plug into reusable screw-in ballast/adapters. These ballasts have a rated life of 45,000 to 50,000 hours (about 15 years based on a 5-day, 60-hour work week). Direct-wire ballast adapters are also available. Some units come as a complete lamp/ballast unit.
- **Complete lamp/ballast unit:** Compact fluorescent lights come as a complete lamp/ballast unit with a translucent cover. When the light burns out, the ballast must also be replaced. However, these lights will last up to 10 times as long as standard incandescent lights and are available in 15-, 18-, to 22-watt sizes.
- **Circline lights:** Circline lights are fluorescent tubes formed into a circle and can be screwed in to replace incandescent lights. Some models have ballasts built into the light base. Other come with two circular tubes - one within the other offering a wider selection of wattages. A 32-watt circline light provides the same amount of light as a 100-watt incandescent for one-third the energy cost.

Incandescents	Compact Fluorescent Replacements
40-watt A lamp	9-watt
60-watt A lamp	13 or 15-watt
75-watt A lamp	23-watt
40-watt reflector	16-watt with reflector
100-watt A lamp	Two 32-watt