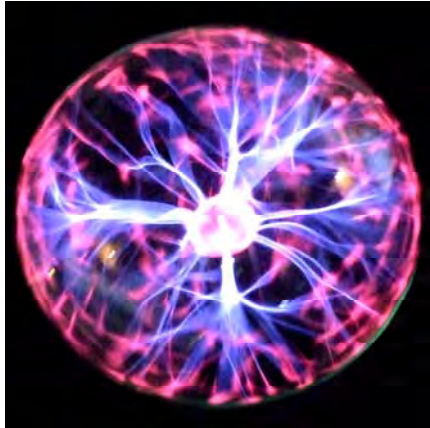


## **615-4745 (10-035) Plasma Globe**



**Introduction:** Everyone knows about the three states of matter. However, many people do not realize that there is a fourth state of matter, and that this state is the most common in the universe (although it is the least common on earth). This state of matter is called *plasma*. It is a gas that has been ionized, meaning it is so energetic that the electrons in the gas atoms are disassociated with the nuclei. This highly charged substance exists in stars, lightning bolts, and in the cold, lonely spaces between galaxies.

A plasma can be produced on earth. By exposing an inert gas to a powerful electrical field, the gas atoms can become excited enough to turn into a plasma. This plasma is relatively cold, and it can be contained by glass. That is what your plasma globe is: it is a high frequency electrical coil and an evacuated glass sphere filled with an inert gas. When the plasma is produced, it gains an electrical charge. It will try to find a conductor to discharge into. Glass is a very good insulator, so the plasma will dance along the globe futilely. However, if you should bring your hand in contact with the globe, the plasma will leap towards your hand. This is because your flesh is conductive and will ground the plasma. The charge is sustained by the coil, so the plasma never extinguishes.

**Operation:** To use your plasma globe, simply plug it into the included AC adaptor. Then, move the switch to one of the two 'on' positions. The middle position will turn the globe on. The second position will activate the audio function. In this mode, the globe will only light up if the unit is subjected to noise, such as a person clapping.

### **Warranty and Parts:**

We replace all defective or missing parts free of charge. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.