

Quick Fact Sheet

The Sparkular FX Machine is the first Non-Pyro special effect fixture in the world.

The standard separation distance for audience is 6-10 foot (out of reach of the audience).

The reason it is not considered pyro even though it produces sparks is the way it functions;

- 1) It can be started and stopped and can be adjusted for Height, Duration and density.
- 2) The fuels it uses are not Chemicals (they are 2 metals, Zirconium & Titanium).
- 3) You can stop any of the 3 items that create the "Fire Triangle".
- 4) If contained within the Fountain tube the machine will not explode but can activate the granules in the hopper and the unit will become unusable. All heat and problems are contained within the device.

The functions on the Machine are monitored on the LCD screen on the unit and also on the controller (as long as it is used in conjunction with the DMX control systems). It can be used on a DMX control system without the proprietary controller but you lose the monitoring ability.

There are 7 error codes that allow the user to monitor what is happening with the each of the fixtures in the system configuration. There are two styles of controllers, a 18 unit and a 54 unit controller. This is accomplished with a rollover monitor screen that changes each 10 seconds to view current heat and any other warning.

The two most frequent codes that you will normally see is the Temperature (which is continuous) and the E4 code which tells you when the machine needs to have time put on the machine with the RFID cards provided with each pouch of material. In normal use the pouch should last 10 minutes unless the density is reduced. The card loads 20 minutes when you load it and is only good once. The maximum time that can be loaded is 30 minutes. When the E4 code first appears, it toggles with the temperature of the unit that needs attention.

All other error codes will warn of the problem and will shut the machine down until the error code can be cleared (or the fixture is repaired). In an over heat E6 or a Tip Over sensor code E7 these will clear when the problem is corrected. The Tip Over takes 5 seconds to turn the machine back to a running condition.

The Granular product that the machine uses is a proprietary mixture of metals. The machine cannot except any other product except the ones supplied by the Showven company, and the activation card helps to eliminate the chance that someone would use the wrong materials in the Sparkular machine. The metals require special attention if they become active (hot or are in a fire situation). A Class D fire extinguisher is required for a larger supply of granules or a "COLD FIRE" small application canister for small situations. An A-B-C extinguisher can be used but do not spray in a high-pressure blast as it will cause the granules to disperse and spark. At no time, will the granules explode but will remain "Hot" until allowed to cool down.

It is required after each use (when done with the show) for the "Clear Material" function to be completed to keep the Heat Chamber clean and operational. Failure will cause the machine to stop working. It will not cause a safety hazard but will not work to its full capacity.

This fact sheet is a small sampling of the safety and operation of the Sparkular FX System. Please read and refer to the User Manual for more complete operation functions and safety procedures.