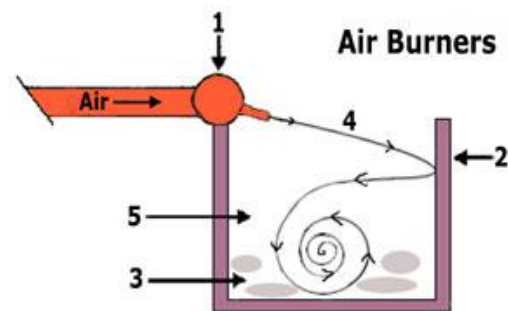
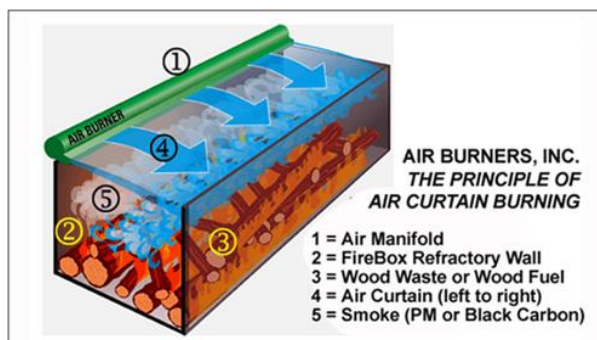


AIR BURNER TECHNOLOGY

Air burner technology is a pollution control device which is design as an environmentally friendly solution for vegetative waste. With an open top, air curtain technology will burns vegetative matter in an enclosed space, over which a high velocity ‘curtain’ of air is directed and traps particles under the curtain. Exposure to a constant curtain of air allows for a high temperature, and then particles under curtain are re-burned. An efficient burn significantly reduces combustion time and smoke generation. The combustion process can slightly reduce vegetation volumes up to 98% if been properly done. Smoke particles are subjected to higher temperatures. These matters will causing them to re-burn, which greatly reduces their size. The result is very clean and efficient burn.

Picture below shows how the air burner functioned.



Source: Sir Burners, Inc.

1. Air curtain machine manifold and nozzles directing high velocity air flow over and into refractory lined fire box or earthen trench.
2. Refractory lined wall as on the S-Series machines, or earthen wall as used with the T-Series trench burners.
3. Wood waste material to be burned.
4. Initial airflow forms a high velocity “air curtain” over fire.
5. Continued air flow over-oxygenates the fire keeping temperatures high. Higher temperatures provide near 100% combustion efficiency and that results in a cleaner and more complete burn.

The advantages of using air burner technology are as follow:

- a. Less impact on the environment compared to other methods
- b. Saves landfill space
- c. Reduces the trucking impact on the roads and traffic
- d. Lowers costs
- e. Power generation option
- f. Ash in recyclable to land application and agriculture
- g. Reduce the particulate matter emitted from an open burn