

## **Condensed Natural Smoke™:** Manufacturing Cost Savings with a Natural and More Efficient Process of Smoking



Red Arrow's expertise, history and passion are unmatched when it comes to smoke flavors. Through an energetic drive and reinvestment to create technological breakthroughs, we consistently provide authentic smoke taste that customers expect and demand.

Our process consists of burning sawdust (a byproduct from the lumber industry) from hickory, oak and maple, just to name a few, in custom-designed smoke generators. The key components of smoke responsible for flavoring and browning food are captured in purified water. The non-desirable parts of smoke, such as the tar and creosote, are not water-soluble and, thereby, left out of the condensed smoke.

Our overall process generates significantly less undesirable compounds than are produced by traditional smokehouse generator. In comparison to traditional smoke used in meat plants, condensed natural smoke:

- Recycles over 99% of the charcoal and tar from our process as energy in our plants.
- Reduces water consumption used while smoking and for clean-up by 50%.
- Reduces air emission by approximately 80%.
- Reduces energy consumption by approximately 33% to 40%.
- Uses approximately 75% less chemicals for clean-up.
- Significantly enhances the air quality within the working environment.

Red Arrow manufactures condensed natural smokes using only heat, water and filtration. It is a completely natural and sustainable process.

The non-desirable components are important when considering the health aspect of smokes. Our natural process virtually eliminates the carcinogenic compounds that are not removed during traditional smoking. The end result is a safer, more wholesome product for consumers

The sheer simplicity of condensing naturally generated wood smoke in pure water, coupled with reliable application techniques, results in a proven process. Consistency and flavor stability are enhanced, and manufacturing costs are optimized; all resulting in cost savings with a completely natural and chemical-free process.