

BUCKEYE FIRE EQUIPMENT KITCHEN MISTER SYSTEM TRAINING

Understanding Pre-Engineered Systems

- All restaurant systems are pre-engineered.
- A pre-engineered system has been tested with certain limitations, such as max. and min. nozzle heights, that are specified in the technical manual.
- The system must be designed and installed to adhere to the limitations in the manual without exception.
- If the system complies to the limitations as stated in the manual it is considered UL Listed.

Kitchen Mister's Advanced Firefighting Technology

- Utilizes state of the art misting nozzles to deliver the extinguishing agent in a uniform droplet size for maximum effectiveness.
- Superior fire fighting ability:
 - Better coverages
 - Faster extinguishment
 - Less potential fire damage

Agent Droplet Size and Fire Extinguishment Capability

- Droplet size is the single most important factor in the ability of a discharge nozzle to extinguish a fire.
- Droplet sizes vary significantly with traditional restaurant discharge nozzles, ranging from **very small** to **very large**:

Agent Droplet Size Vs. Surface Area and Fire Extinguishment Capability

- Large Drops: Small surface area but minimal drift and evaporation.



Vol. = 1 in³

SA = 12.57 in²

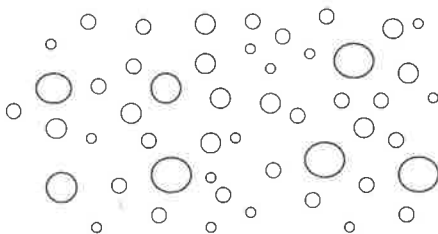
- Small Drops: Large surface area but significant drift and evaporation.



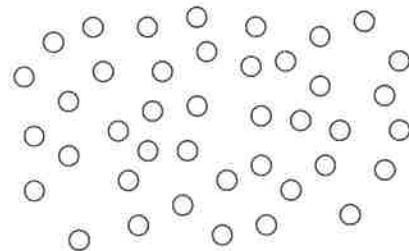
Vol. = 1 in³

SA = 25.16 in²


Standard Nozzles Discharge Random Size Distribution



Kitchen Mister™ Discharge Uniform Droplet Size




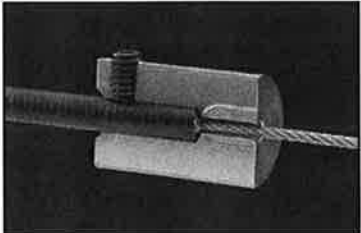
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Model BFR-SCI Buckeye Shielded Cable Interface


Allows Buckeye Shielded Cable to be connected to any standard 1/2" conduit connector.

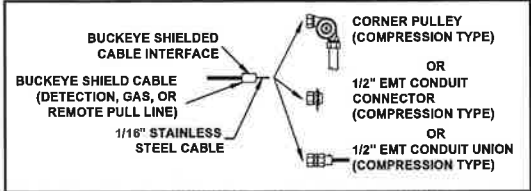








Buckeye Shielded Cable Interface Connection









Model CPCT-1 Compression Corner Pulley



- Standard compression type corner pulley.
- 1/2" EMT connection.
- Required for every change in conduit direction.



Model TP-1 Tee Pulley



- Used to connect two (2) pull stations or two (2) gas valves to a single Systems Releasing Module.
- **CAN NOT** be used to connect two fusible link lines to a Systems Releasing Module.
- Gas valves must have similar stem travel:
 - Two 3/4" valves.
 - Two of any combination 1", 1-1/4", or 1-1/2" valves
 - Two 2" valves
 - Two of any combination 2-1/2" or 3" valves.
- Counts as two corner pulleys when calculating system limitations.




Kitchen Mister™ Nozzles

ONLY Five Color Coded Nozzles:






- N-2W White Color Band
- N-2LP Yellow Color Band
- N-1LP Red Color Band
- N-1HP Blue Color Band
- N-2HP Green Color Band



Model BFR-UBC Stainless Steel Nozzle Cap Kit



- The Model BFR-UBC is a stainless steel nozzle cap that can be field installed on any Kitchen Mister nozzle.
- Used for Upright Broilers or for installations that involve extreme heat.
- Includes ten (10) stainless steel caps and ten (10) o-rings.