EXISTING HOOD: 20'-0" BY OTHERS

NOZZLE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Flow Points</th>
<th>Band Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-1HP</td>
<td>1</td>
<td>BLUE</td>
</tr>
<tr>
<td>N-1LP</td>
<td>1</td>
<td>RED</td>
</tr>
<tr>
<td>N-2HP</td>
<td>2</td>
<td>GREEN</td>
</tr>
<tr>
<td>N-2LP</td>
<td>2</td>
<td>YELLOW</td>
</tr>
<tr>
<td>N-2W</td>
<td>2</td>
<td>WHITE</td>
</tr>
</tbody>
</table>

PIPING VOLUME CHART

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>VOLUME PER FOOT</th>
<th>MAX PIPE VOL. (ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 in pipe</td>
<td>37.5 ml / ft</td>
<td>1500</td>
</tr>
<tr>
<td>1/2 in pipe</td>
<td>59.8 ml / ft</td>
<td>2500</td>
</tr>
</tbody>
</table>

Minimum Piping Requirements (Wok, Range, & DFF only):
> Min. # of elbows before closest nozzle: 5.
> Min. pipe volume before closest nozzle: 360 mL.
> Total system pipe volume: 600 mL.
> Minimum number of flow points in system: 3.

Piping Limitations:
> 3/8" or 1/2" Sch. 40 black pipe.
> Pipe sized largest to smallest only.
> No "traps" allowed.
> Straight or split line piping allowed. No nozzles before a split.
> Max. number of elbows between any 2 nozzles: 5.
> Max. vertical rise: 10 feet.
> Max. vertical rise from nozzle to supply line: 2 feet.

CLASS K WET CHEMICAL EXTINGUISHER
SHALL BE INSTALLED 42" - 48" ABOVE THE FINISHED FLOOR

BUCKEYE KITCHEN MISTER
BFR-15 - 15 FLOW POINT SYSTEM

THIS SYSTEM UTILIZES 14 of 15 POINTS

PRE-ENGINEERED SYSTEM SHOP DRAWING ONLY – NOT TO SCALE
GENERAL NOTES:

1. System shall be Pre-Engineered

2. System shall be manufactured by Buckeye Fire Equipment of Kings Mountain NC

3. System to be installed by ______________________________

4. Buckeye Kitchen Mister systems have the following Listings and Approvals:

   Underwriters Laboratories Inc, UL 300 / UL 1254, UL EX 6885
   ISO-9001 Registered

5. System Temperature Limitations – 32F min / 120F Max

6. Installation requirements, nozzle limitations and design criteria shall comply with the Buckeye Fire Equipment, Kitchen Mister Technical Manual and all addendums as published by Buckeye Fire Equipment

7. Pipe and fittings shall be Schedule 40 Black, Chrome Plated or Stainless. Galvanized Pipe Shall Not Be Used.

8. All required electrical work shall be performed by others and is not included on this shop drawing.

9. All required plumbing work be performed by others and is not included on this shop drawing

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Minimum Piping Requirements

**Note:** Minimum piping requirements *only* apply when protecting a wok, deep fryer or range.

1. Minimum number of elbows before the closest nozzle protecting a fryer, range or wok shall be five (5)
2. The minimum piping volume before the closest nozzle protecting a fryer, range or wok shall not be less than 360 ml.
3. The total system pipe volume shall not be less than 660 ml for all cylinder sizes.
4. A system shall have a minimum of three (3) flow points.

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General Piping Requirements

1. All piping shall be 3/8” or 1/2”
2. Split piping and straight line piping are allowed on all system as long as the total piping parameters are not exceeded.
3. When the discharge piping is split, no nozzles can be installed before the split.
4. The maximum number of elbows allowed per system are:
   - BRF-5: 20 elbows maximum
   - BRF-10/15/20: 25 elbows maximum
5. The maximum number of elbows between any two nozzles is five (5)
6. The maximum vertical rise of the supply line is ten (10) feet; this is either the maximum elevation difference between tank outlet and the highest nozzle or tank outlet and the highest of lowest point in the piping systems.
7. The maximum vertical rise of any nozzle above the supply line is two (2) feet.
8. No traps are allowed in the piping system.
9. When different size piping is used in the same system, the largest diameter piping must be closest to the cylinder and sizes are to decrease as they reach the nozzle. So piping always runs from larger to smaller diameter
10. Elbows or swivel adaptors used at the nozzle for aiming DO NOT count toward the total elbows allowed per system or the number of elbows allowed between two (2) nozzles.
11. For the BRF-15 and BRF-20 only, the maximum volume of piping between the nozzle nearest the supply line from one branch to the closest nozzle from the next branch shall not exceed 500 ml.
BUCKEYE FIRE SYSTEM NOZZLE COVERAGES

DUCT, LARGE (150" MAXIMUM PERIMETER)
NOZZLE: N-2W
FLOW PTS.: 2
COLOR BAND: WHITE

NOZZLE TIP
HOOD/PLENUM

0'-6"
1/2 W
1/2 L
LONGEST SIDE: 50"

PLENUM, SINGLE & "V" BANK
NOZZLE: N-1HP
FLOW PTS.: 1
COLOR BAND: BLUE

4 FT MAX
W

1/2 W
1/2 H
1/3 H
V BANK

SINGLE BANK

GRIDDLE, STANDARD (42" MAX.)
NOZZLE: N-1LP
FLOW PTS.: 1
COLOR BAND: RED

AIM: 8" FROM CENTER OF HAZARD AREA
INLINE WITH NOZZLE

MAX. HEIGHT 48"
MIN. HEIGHT 24"

MAX. LENGTH: 42"
MAX. WIDTH: 30"

PLACEMENT: ON THE PERIMETER OF THE HAZARD

RANGE, FOUR BURNER, (HIGH PROXIMITY)
NOZZLE: N-1LP
FLOW PTS.: 1
COLOR BAND: RED

MAX. HEIGHT 40"
MIN. HEIGHT 30"

PLACEMENT: WITHIN 3" OF CENTER

AIM: CENTER OF RANGE

BURNER TO BURNER LENGTH: 24"
BURNER TO BURNER WIDTH: 24"