

ALL HOODS SHALL HAVE A SIGN INDICATING THE HOOD DESIGNATION

RELATIVE TO THE MANUAL PULL STATION.

FLOOR PLAN VIEW OF RESTAURANT
(For example only)

SYSTEM 1
BUCKEYE - 10 + 10
SRM-D CONTROL HEAD
(6 TABLES)

SYSTEM 2
BUCKEYE - 15 + 20
SRM-D CONTROL HEAD
(9 TABLES)

SYSTEM 3
BUCKEYE - 10 + 10
SRM-D CONTROL HEAD
(5 TABLES)

SYSTEM 4
BUCKEYE - 10 + 15
SRM-D CONTROL HEAD
(7 TABLES)

SYSTEM 5 BUCKEYE - 20 SRM CONTROL HEAD (6 TABLES)

- 6L K CLASS FIRE EXTINGUISHER
- 5 5LB. ABC FIRE EXTINGUSIHER

MASTER 1" ELECTRIC GAS VALVE FOR ALL DOWNDRAFT TABLES

#### MINIMUM PIPING REQUIREMENTS

#### NOTE:

MINIMUM PIPING REQUIREMENTS ONLY APPLY WHEN PROTECTING A WOK, DEEP FAT FRYER OR RANGE.

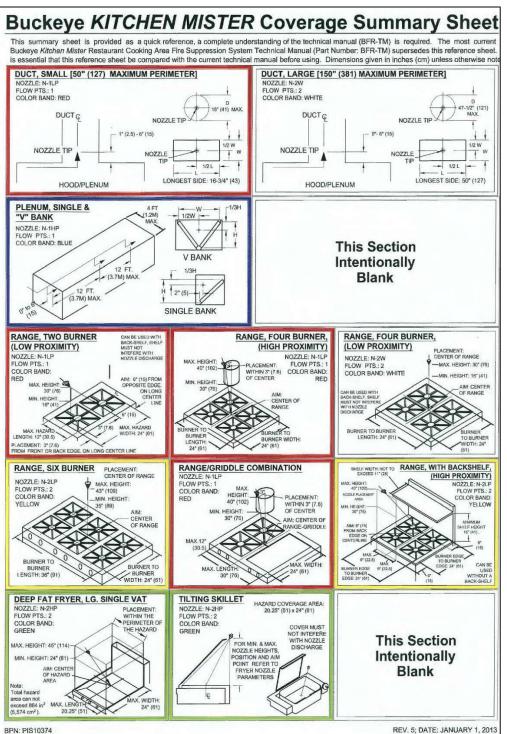
- 1.MINIMUM NUMBER OF ELBOWS BEFORE THE CLOSEST NOZZLE PROTECTING A FRYER, RANGE OR WOK SHALL BE FIVE (5)
- 2.THE MINIMUM PIPING VOLUME BEFORE THE CLOSEST NOZZLE PROTECTING A FRYER, RANGE OR WOK SHALL NOT BE LESS THAN 360 ML
- 3.THE TOTAL SYSTEM PIPE VOLUME SHALL NOT BE LESS THAN 660 ML FOR ALL CYLINDER SIZES.
- 4.A SYSTEM SHALL HAVE A MINIMUM OF THREE (3) FLOW POINTS.

#### **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:

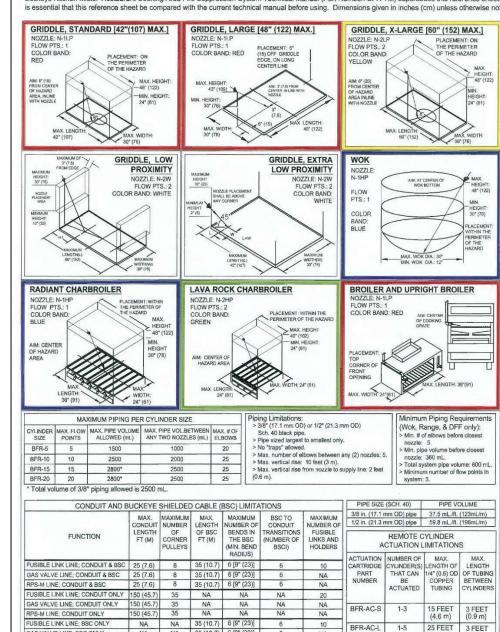
20 ELBOWS MAXIMUM BFR-5 25 ELBOWS MAXIMUM BFR-10/15/20

- 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 BFR-15 AND BFR-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 KITCHEN MISTER Coverage Summary Sheet**

This summary sheet is provided as a quick reference, a complete understanding of the technical manual (BFR-TM) is required. The most current Buckeye Kitchen Mister Restaurant Cooking Area Fire Suppression System Technical Manual (Part Number: BFR-TM) supersedes this reference sheet. is essential that this reference sheet be compared with the current technical manual before using. Dimensions given in inches (cm) unless otherwise no



			MAXIMUM NUMBER OF		mm OD) pipe mm OD) pipe	37.5 mL./ft. 59.8 mL./ft.				
FUNCTION	LENGTH FT (M)	OF CORNER PULLEYS	OF BSC FT (M)	BENDS IN THE BSC (MIN. BEND	TRANSITIONS (NUMBER OF BSCI)	FUSIBLE LINKS AND HOLDERS	REMOTE CYLINDER ACTUATION LIMITATIONS			
				RADIUS)			ACTUATION	NUMBER OF	MAX.	MAX.
FUSIBLE LINK LINE; CONDUIT & BSC	25 (7.6)	8	35 (10.7)	6 [9" (23)]	6	10	PART THAT C	CYLINDER(S)	LENGTH OF	
GAS VALVE LINE; CONDUIT & BSC	25 (7.6)	8	35 (10.7)	6 [9" (23)]	6	NA		ACTUATED	1/4" (0.6) OD COPPER TUBING 15 FEET (4.6 m)	
RPS-M LINE; CONDUIT & BSC	25 (7.6)	8	35 (10.7)	6 [9" (23)]	6	NA				
FUSIBLE LINK LINE; CONDUIT ONLY	150 (45.7)	35	NA	NA	NA	20				
GAS VALVE LINE; CONDUIT ONLY	150 (45.7)	35	NA	NA	NA	NA	BFR-AC-S			
RPS-M LINE; CONDUIT ONLY	150 (45.7)	35	NA	NA	NA	NA	BFR-AC-S			
FUSIBLE LINK LINE; BSC ONLY	NA	NA	35 (10.7)	6 [9" (23)]	6	10	BFR-AC-L	1-5	25 FEET	
GAS VALVE LINE; BSC ONLY	NA	NA	35 (10.7)	6 [9" (23)]	6	NA	DFR-AC-L	1-5	(7.6 m)	3 FEET (0.9 m)
RPS-M LINE: BSC ONLY	NA	NA	35 (10.7)	6 [9" (23)]	6	NA			(1.0 (11)	(6.6 111)

REV 5 DATE: JANUARY 1, 2013 BPN: PIS10374



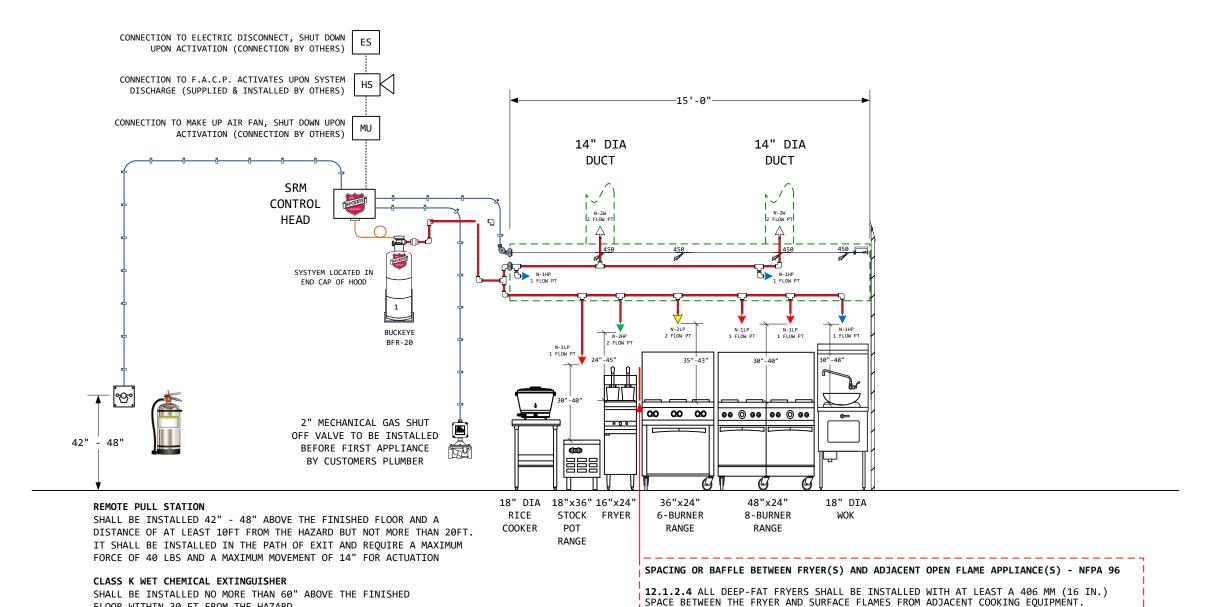
#### **GENERAL NOTES:**

- 1.SYSTEM SHALL BE PRE-ENGINEERED
- 2.SYSTEM SHALL BE MANUFACTURED BY BUCKEYE FIRE EQUIPMENT OF KINGS MOUNTAIN NC
- 3.BUCKEYE KITCHEN MISTER SYSTEMS HAVE THE FOLLOWING LISTINGS AND APPROVALS:

UNDERWRITERS LABORATORIES INC, UL 300 / UL 1254, UL EX 6885

ISO-9001 REGISTERED

- 4.SYSTEM TEMPERATURE LIMITATIONS 32F MIN / 120F MAX
- 5.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
- 6.PIPE AND FITTINGS SHALL BE SCHEDULE 40 BLACK, CHROME PLATED OR STAINLESS. GALVANIZED PIPE SHALL NOT BE USED.
- 7.ALL REQUIRED ELECTRICAL WORK SHALL BE PERFORMED BY OTHERS AND IS NOT INCLUDED ON THIS SHOP DRAWING.
- 8.ALL REQUIRED PLUMBING WORK BE PERFORMED BY OTHERS AND IS NOT INCLUDED ON THIS SHOP DRAWING



	TANK #	1 - NO	ZZLE SI	JMMARY	<b>TABLE</b>		
						MIN	
			BAND			Nozzle	MAX Nozzle
HAZARD	QTY	NOZZLE	COLOR	PTS	TOTAL	Height	Height
STOCK POT RANGE	2	1LP	RED	1	2	30	40
FRYER	1	2HP	GREEN	2	2	24	45
6-BURNER RANGE	1	2LP	YELLOW	2	2	35	43
8-BURNER RANGE	2	1LP	RED	1	2	30	40
WOK	1	1HP	BLUE	1	1	30	48
DUCT	2	2W	WHITE	2	4	150" M	AX PERIMETER
PLENUM	2	1HP	BLUE	1	2	12 FT	LENGTH MAX
					15		



FLOOR WITHIN 30 FT FROM THE HAZARD.



#### MAIN KITCHEN

BUCKEYE KITCHEN MISTER BFR 20 TANK #1 UTILIZES 15 of 20 POINTS PRE-ENGINEERED SYSTEM SHOP DRAWING ONLY - NOT TO SCALE

12.1.2.5 WHERE A STEEL OR TEMPERED GLASS BAFFLE PLATE IS INSTALLED AT A MINIMUM 203 MM (8 IN.) IN HEIGHT BETWEEN THE FRYER AND SURFACE FLAMES OF THE ADJACENT APPLIANCE,

12.1.2.5.1 IF THE FRYER AND THE SURFACE FLAMES ARE AT DIFFERENT HORIZONTAL PLANES, THE MINIMUM HEIGHT OF 203 MM (8 IN.) SHALL BE MEASURED FROM THE HIGHER OF THE TWO.

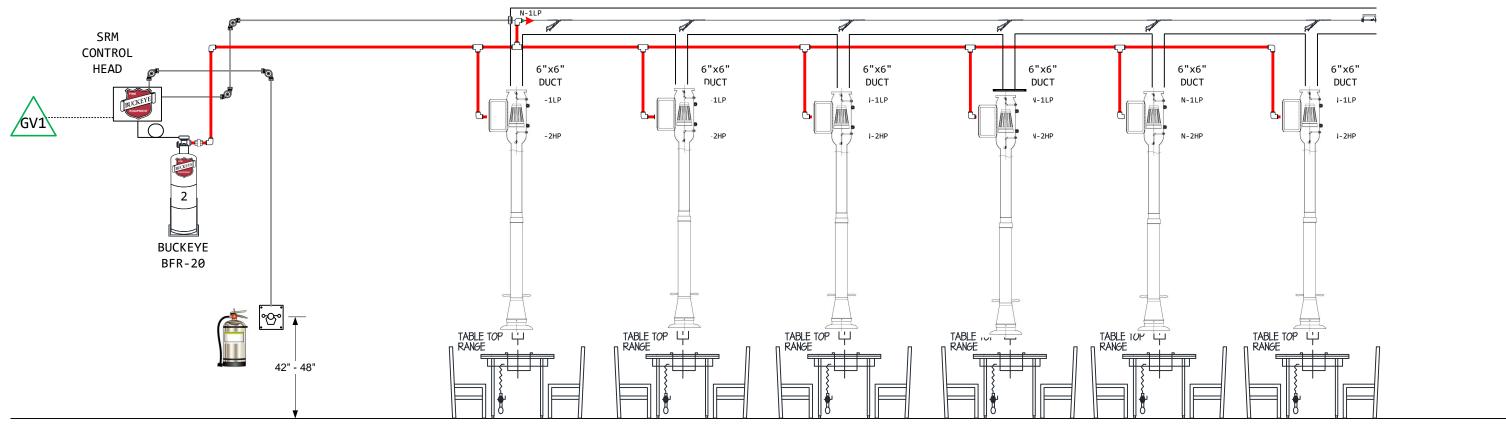
THE REQUIREMENT FOR A 406 MM (16 IN.) SPACE SHALL NOT APPLY.











#### REMOTE PULL STATION

SHALL BE INSTALLED 42" - 48" ABOVE THE FINISHED FLOOR AND A DISTANCE OF AT LEAST 10FT FROM THE HAZARD BUT NOT MORE THAN 20FT. IT SHALL BE INSTALLED IN THE PATH OF EXIT AND REQUIRE A MAXIMUM FORCE OF 40 LBS AND A MAXIMUM MOVEMENT OF 14" FOR ACTUATION

#### CLASS K WET CHEMICAL EXTINGUISHER

SHALL BE INSTALLED NO MORE THAN 60" ABOVE THE FINISHED FLOOR WITHIN 30 FT FROM THE HAZARD.

## BUCKEYE KITCHEN MISTER TANK 1 - BFR-20 USES 19 of 20 FLOW POINTS

			NOZZL	E TABL	E		
			BAND			MIN Nozzle	MAX Nozzle
HAZARD	QTY	NOZZLE	COLOR	PTS	TOTAL	Height	Height
TANK 1							
DYNAMIC TABLE	6	N-2HP	GREEN	2	12	24	45
DUCT	7	N-1LP	RED	1	7	50" PER	IMETER MAX
					19		

# **SAVORX-LITE**

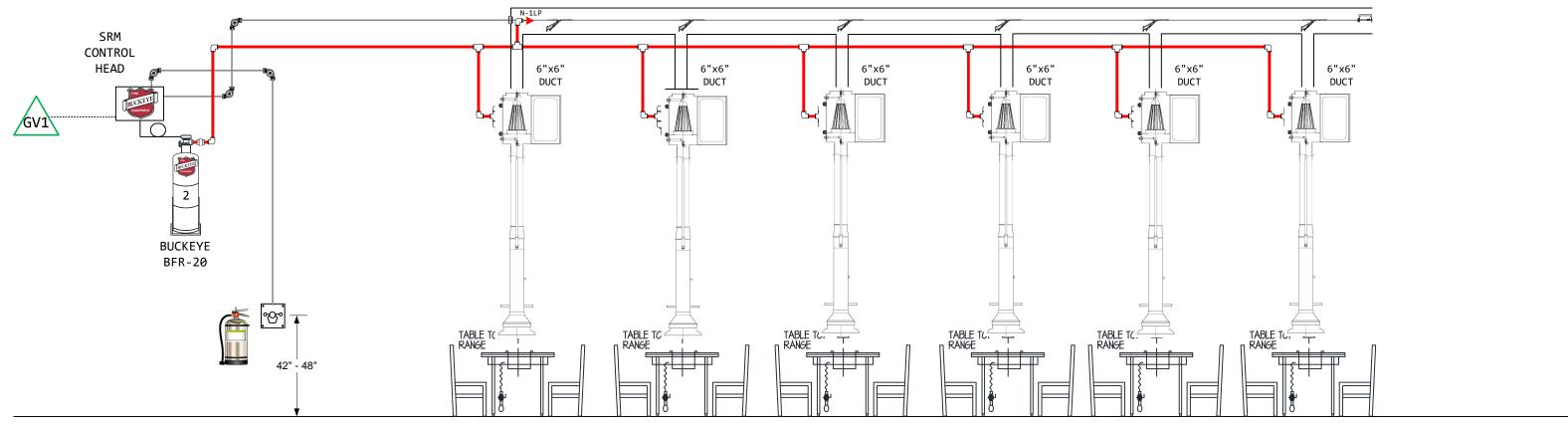


PRE-ENGINEERED SYSTEM SHOP DRAWING ONLY - NOT TO SCALE









#### REMOTE PULL STATION

SHALL BE INSTALLED 42" - 48" ABOVE THE FINISHED FLOOR AND A DISTANCE OF AT LEAST 10FT FROM THE HAZARD BUT NOT MORE THAN 20FT. IT SHALL BE INSTALLED IN THE PATH OF EXIT AND REQUIRE A MAXIMUM FORCE OF 40 LBS AND A MAXIMUM MOVEMENT OF 14" FOR ACTUATION

#### CLASS K WET CHEMICAL EXTINGUISHER

SHALL BE INSTALLED NO MORE THAN 60" ABOVE THE FINISHED FLOOR WITHIN 30 FT FROM THE HAZARD.

# **SAVORX-MONSTER**

### BUCKEYE KITCHEN MISTER TANK 1 - BFR-20 USES 19 of 20 FLOW POINTS

			NOZZL	E TABL	E		
			BAND			MIN Nozzle	MAX Nozzle
HAZARD	QTY	NOZZLE	COLOR	PTS	TOTAL	Height	Height
TANK 1							
DYNAMIC TABLE	6	N-2HP	GREEN	2	12	24	45
DUCT	7	N-1LP	RED	1	7	50" PER:	IMETER MAX
					19		



PRE-ENGINEERED SYSTEM SHOP DRAWING ONLY - NOT TO SCALE



# BULLETIN

September 20, 2024

Re: Proper Protection for SavorX - EH101823 Korean BBQ Hood System w/Cone Filter

To: Buckeye Certified Kitchen Mister Distributors

Underwriters' Laboratories, Inc. (UL) does not currently have a testing procedure for this specific type of appliance; however, Buckeye Fire Equipment's recommended protection is the following:

Cooking surface and retractable duct section of the SaviorX Korean BBQ Hood System use:

 One (1) Model N-2HP nozzle which must be located 0" - 2" in the top section of the hood system and aimed down the center of the retractable duct. The maximum cooking area a single nozzle can protect is 20" wide by 20" deep and the maximum height of the hood opening above the cooking surface is 40".

In addition, the plenum and duct shall be protected with:

- One (1) Model N-1HP nozzle placed in the plenum area above the filter
- One (1) Model N-1LP nozzle shall be placed at the entrance of the duct (or N-2W depending on duct perimeter).

For more details refer to Figure 1.

Any common ductwork upstream of the unit beyond 75 feet of the last unit may require additional duct protection (refer to NFPA 96) and must be protected as a duct in accordance with Buckeye Kitchen Mister Technical Manual, Model BFR-TM (page 3-1).

#### **Detector Placement**

Each hood system shall have at least one (1) detector installed in the plenum area centered in the duct entrance and no more than 12" into the ductwork. A temperature study is required to determine the maximum ambient temperature at the detector location.

If you have any questions, please contact Kitchen Mister Technical Support at 704-739-7415.

N-SHP (COOKING)

N-SHP (COOKING)

SURPACE NOZZLE)

ASSEMBLY

TABLE TOP BBQ

MAX. HT.: 40° TYP.

Figure 1.
SavorX Korean BBQ Grill
and Hood System
Surface Area, Plenum
Nozzle, and Duct Nozzle
Placement and Aim Point.

E-mail: bfec@buckeyef.com • Internet: http://www.buckeyefire.com

# BUCKEYE

# BULLETIN

Date: September 20, 2024

Re: Proper Protection for SavorX-Monster Korean BBQ hood System w/Cone Filter

To: Buckeye Certified kitchen Mister Distributors

Underwriters' Laboratories, Inc. (UL) does not currently have a testing procedure for this specific type of appliance; however, Buckeye Fire Equipment's recommended protection is the Following:

Cooking surface and retractable duct section of the SavorX Korean BBQ hood system use:

One(1) Model N-2HP nozzle which must be located 0"- 2" in the top section of the hood system and aimed down the center of the retractable duct. The maximum cooking area a single nozzle can protect is 20" wide by 20" deep and the Maximum height of the hood opening above the cooking Surface is 40"

In addition the plenum and duct shall be protected with:

 One(1) Model N-1LP nozzle shall be placed at the entrance Of the duct (or N-2W depending on duct perimeter)
 For more details refer to Figure 1.

Any common ductwork upstream of the unit beyond 75 feet of the Last unit may require additional duct protection (refer to NFPA 96) And must be protected as a duct in accordance with Buckeye Kitchen Mister Techincal Manual, Model BFR-TM (page 3-1)

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Each hood system shall have at least one (1) detector installed in the Plenum area centered inn the duct entrance and no more than 12" into the ductwork. A temperature study is required to determine the maximum ambient temperature at the detector location.

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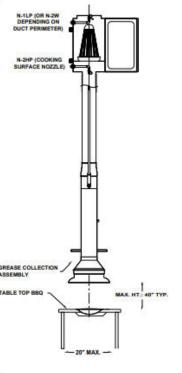


Figure 1.
SavorX Korean BBQ Grill
and Hood System
Surface Area, Plenum
Nozzle, and Duct Nozzle
Placement and Aim Point

O. Box 428 • 110 Kings Road • Kings Mountain, N.C. 28086-0428 • Tele: 704-739-7415 • Fax: 704-739-741

E-mail: bfec@buckeyef.com • Internet: http://www.buckeyefire.com



# BULLETIN

Date: September 20, 2024

Re: Proper Protection for SavorX-Lite Korean BBQ hood System w/Cone Filter

To: Buckeye Certified kitchen Mister Distributors

Underwriters' Laboratories, Inc. (UL) does not currently have a testing procedure for this specific type of appliance; however, Buckeye Fire Equipment's recommended protection is the Following:

Cooking surface and retractable duct section of the SavorX Korean BBQ hood system use:

• One(1) Model N-2HP nozzle which must be located 0'- 2" in the top section of the hood system and aimed down the center of the retractable duct. The maximum cooking area a single nozzle can protect is 20" wide by 20" deep and the Maximum height of the hood opening above the cooking Surface is 40"

In addition the plenum and duct shall be protected with:

 One(1) Model N-1LP nozzle shall be placed at the entrance Of the duct (or N-2W depending on duct perimeter)
 For more details refer to Figure 1.

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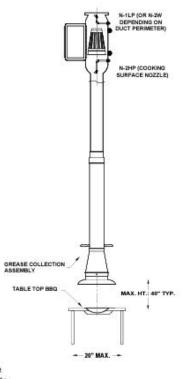


Figure 1.
SavorX Korean BBQ Grill
and Hood System
Surface Area, Plenum
Nozzle, and Duct Nozzle
Placement and Aim Point.

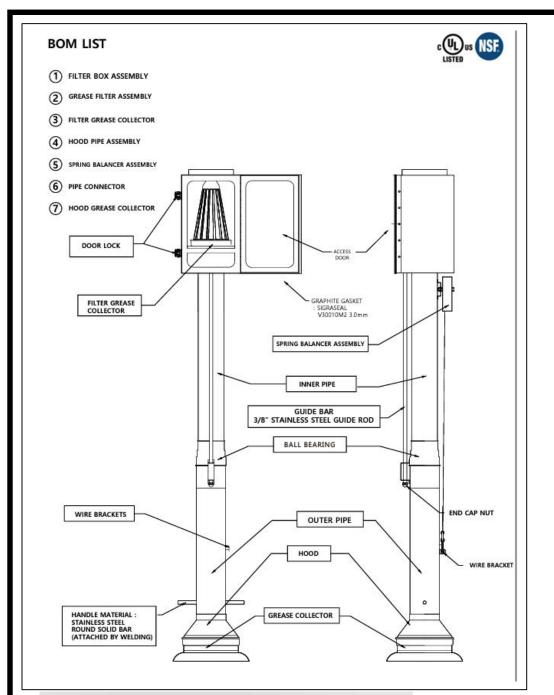
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E-mail: bfec@buckeyef.com + hternet: http://www.buckeyefire.com

SavorX-EH101823 (Model 1)

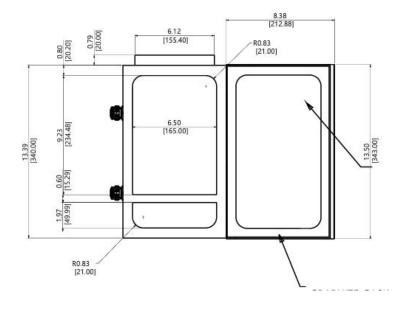
SavorX-Monster (Model 2) SavorX-Lite (Model 3)





#### SavorX-Monster

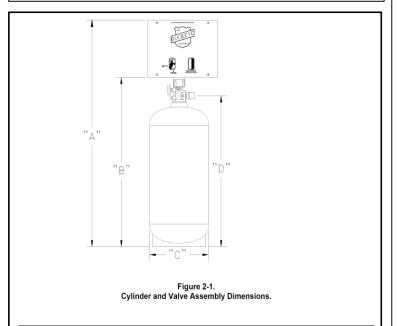




#### **Listings and Approvals**

The *Kitchen Mister* Fire Suppression System is Listed and Approved by the following agencies:

- Underwriters Laboratories, Inc. (Listed to the requirements of UL-300/UL-1254) UL-EX 6885
- Underwriters Laboratories of Canada, ULC-EX 6885
- Approved by the New York City Fire Department COA # 5550
- CE Compliant
- ISO-9001 Registered



Model Number	A inches (cm)	B inches (cm)	C inches (cm)	D inches (cm)	Max. Flow Points	Weight lbs. (kg)	Mounting Bracket
BFR-5	24.8 (63)	16.2 (41)	10 (25)	13.4 (34)	5	42 lbs. (19)	MB-1
BFR-10	34.4 (87)	25.8 (66)	10 (25)	23 (58)	10	74 lbs. (33)	MB-2
BFR-15	44.8 (114)	36.2 (92)	10 (25)	33.4 (85)	15	107 lbs. (48)	MB-2
BFR-20	42.4 (108)	33.8 (86)	12 (31)	31 (79)	20	130 lbs. (60)	MB-2

#### MAXIMUM PIPING PER CYLINDER SIZE

Cylinder Size	Max. Flow Points	Max. Pipe Volume (mL.)	Max. Pipe Vol. Between any two (2) Nozzles. (mL.)
BFR-5	5	1500	1000
BFR-10	10	2500	2000
BFR-15	15	2800*	2500
BFR-20	20	2800*	2500

\* Total volume of 3/8" (17.1 mm OD) piping allowed on the BFR-15 or BFR-20 is 2500 mL.

#### **Minimum Piping Requirements**

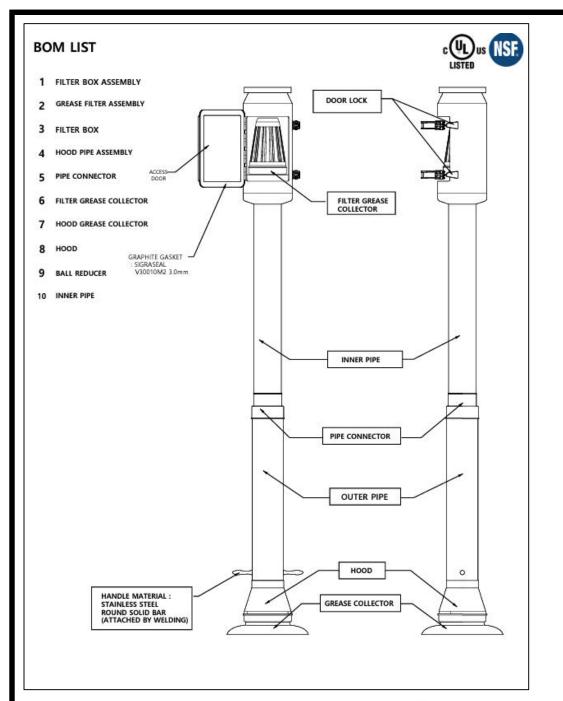
**Note:** Minimum piping requirements **ONLY** apply when protecting a wok, deep fat fryer, or range.

- 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 then 360 mL.
- 3. The total system pipe volume shall not be less then 660 mL. for all cylinder sizes.
- 4. A system shall have a minimum of three (3) flow points.

#### PIPING VOLUME CHART

Allowable Pipe Sizes	Volume Per foot		
3/8 in. (17.1 mm OD) pipe	37.5 mL./ft. (123mL/m)		
1/2 in. (21.3 mm OD) pipe	59.8 mL./ft. (196mL/m)		

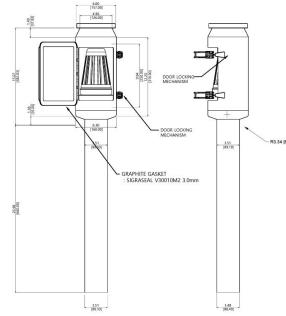




#### SavorX-LITE



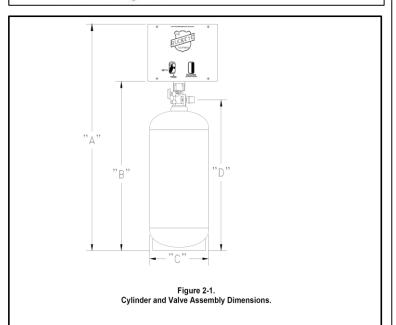




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BFR-10	34.4 (87)	25.8 (66)	10 (25)	23 (58)	10	74 lbs. (33)	MB-2
BFR-15	44.8 (114)	36.2 (92)	10 (25)	33.4 (85)	15	107 lbs. (48)	MB-2
BFR-20	42.4 (108)	33.8 (86)	12 (31)	31 (79)	20	130 lbs. (60)	MB-2

#### MAXIMUM PIPING PER CYLINDER SIZE

Cylinder Size	Max. Flow Points	Max. Pipe Volume (mL.)	Max. Pipe Vol. Between any two (2) Nozzles. (mL.)
BFR-5	5	1500	1000
BFR-10	10	2500	2000
BFR-15	15	2800*	2500
BFR-20	20	2800*	2500

\* Total volume of 3/8" (17.1 mm OD) piping allowed on the BFR-15 or BFR-20 is 2500 mL.

#### **Minimum Piping Requirements**

**Note:** Minimum piping requirements **ONLY** apply when protecting a wok, deep fat 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 then 360 mL.
- 3. The total system pipe volume shall not be less then 660 mL. for all cylinder sizes.
- 4. A system shall have a minimum of three (3) flow points.

#### PIPING VOLUME CHART

Allowable Pipe Sizes	Volume Per foot		
3/8 in. (17.1 mm OD) pipe	37.5 mL./ft. (123mL/m)		
1/2 in. (21.3 mm OD) pipe	59.8 mL./ft. (196mL/m)		



#### Systems Releasing Module - SRM

The Model SRM Systems Releasing Module is a fully mechanical control head that can be connected directly or remotely to the system valve and is required for system actuation. The Systems Releasing Module will support the following system inputs and outputs:

- One Fusible Link Detection Line
- One Gas Valve Line
- One Remote Pull Station Line

Two windows in the front cover of the Model SRM allow for visual verification of the actuation cartridge presence and the status of the puncture pin mechanism. See Figure 2-5.

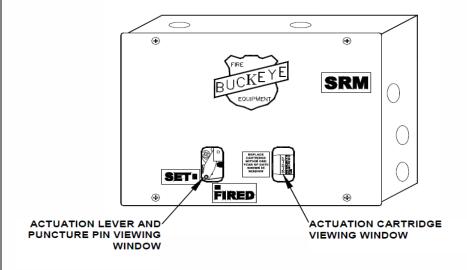


Figure 2-5. Model SRM, **Systems Releasing Module** 

#### **Model SRM-D**

The **Model SRM-D** (Systems Releasing Module –Dual) is the same as the Model SRM except that it supports a second independent fusible link detection line. See Figure 2-6.

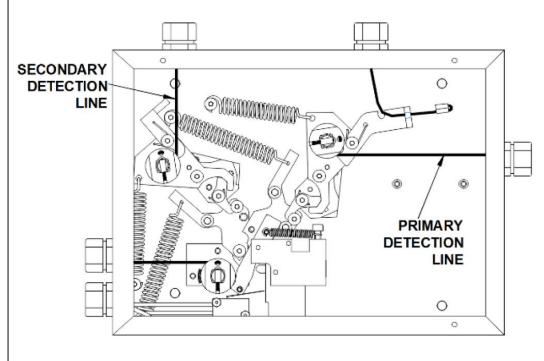


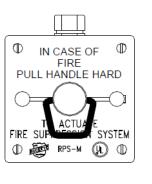
Figure 2-6. Model SRM-D. **Systems Releasing Module-Duel** 

#### **Remote Mechanical Pull Station**

The Model RPS-M Remote Mechanical Pull Station provides remote mechanical actuation of the Systems Releasing Module. It is connected to the Systems Releasing Module with:

- 1/16" (0.16 cm) stainless steel cable enclosed in 1/2" (1.3 cm) EMT conduit with a corner pulley at each change of direction.
- Buckeye Shielded Cable which does not require a corner pulley at each change of direction or conduit.
- A combination of both.

A remote pull station is required at the point of egress from the hazard area being protected. See Figure 2-9.



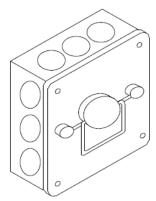
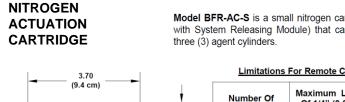


Figure 2-9. Model RPS-M, Remote Mechanical Pull Station



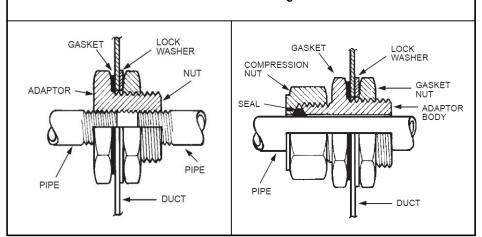
Model BFR-AC-S is a small nitrogen cartridge (included with System Releasing Module) that can actuate up to

#### Limitations For Remote Cylinder Actuation

Number Of Cylinders	Maximum Length Of 1/4" (0.6 cm) Copper Tubing	Actuation Cartridge Required
1 – 3	15 feet (4.6 m)	BFR-AC-S*
1 – 5	25 feet (7.6 m)	BFR-AC-L**

REFRIGERATION TYPE COPPER TUBING SHALL BE USED FOR REMOTE CYLINDER ACTUATION. THIS TUBING SHALL HAVE AN OUTSIDE DIAMETER OF 1/4" (0.6 CM) AND A MINIMUM WALL THICKNESS OF 1/ 32" (0.08 CM).

ALL PENETRATIONS TO THE HOOD SHALL BE SEALED WITH AN APPROVED QUICK SEAL DEVICE



QQOn

#### **Mechanical Gas Shutoff Valves**

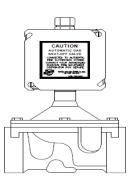
A gas shutoff valve is required for all systems protecting gas fueled appliances. A mechanical means of stopping gas flow is provided by the **Models BFGV-75 / 100 / 125 / 150 / 200 / 250 / 300** Gas Shutoff Valves. It is connected to the Systems Releasing Module with:

- 1/16" (0.16 cm) stainless steel cable enclosed in 1/2" (1.3 cm) EMT conduit with a corner pulley at each change of direction.
- Buckeye Shielded Cable which does not require a corner pulley at each change of direction or conduit.
- A combination of both.

The valves are rated for natural or LP gas (see **Figure 2-10**) and are available in the following sizes:

Model Number	Valve Size In (cm)	Maximum Operating Pressure
BFGV-75	3/4 (1.9)	5 psi (.4 bar)
BFGV-100	1 (2.5)	5 psi (.4 bar)
BFGV-125	1 1/4 (3.2)	5 psi (.4 bar)
BFGV-150	1 ½ (3.8)	5 psi (.4 bar)
BFGV-200	2 (5.1)	5 psi (.4 bar)
BFGV-250	2 ½ (6.4)	5 psi (.4 bar)
BFGV-300	3 (7.6)	5 psi (.4 bar)

**Note:** Gas valve size must be no smaller than the size of the gas line it is connected to.



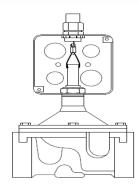


Figure 2-10. Model BFGV-XXX, Mechanical Gas Valve

#### **Fusible Link Holder**

The **Model FLH** Fusible Link Holder is designed to allow for the use of a continuous fusible link line, thus eliminating the need to cut and crimp each individual fusible link. They can be used either with or without fusible link brackets. They are available in packages of 25 (**Model FLH-25**). See **Figure 2-24**.

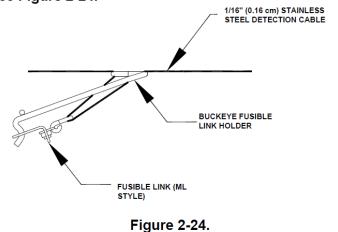


Figure 2-24. Model FLH, Fusible Link Holder

#### **Compression Type Corner Pulley**

When Buckeye Shielded Cable **IS NOT** used to connect the fusible link system, gas valve, and/or remote pull station to the control head, a corner pulley is required whenever a change in stainless steel cable direction is necessary. The **Model CPCT-1** corner pulley is equipped with a compression type fitting that connects to standard 1/2" (1.3 cm) EMT conduit. See **Figure 2-16**.

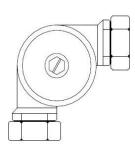
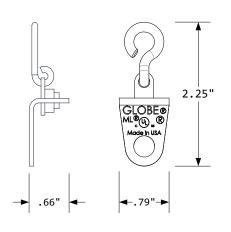


Figure 2-16.
Model CPCT-1,
Compression Type Corner Pulley

SYSTEM SHALL UTILIZE GLOBE  $\mathsf{ML}^{\otimes^\mathsf{TM}}$  FUSIBLE LINKS FOR AUTOMATIC SYSTEM ACTIVATION.

FUSIBLE LINKS ARE DESIGNED TO SEPARATE AT SPECIFIC TEMPERATURES, RELEASING TENSION FROM THE FUSIBLE LINK DETECTION LINE AND CAUSING SYSTEM ACTUATION.

CORRECT FUSIBLE LINK SELECTION IS AN ESSENTIAL ELEMENT IN THE DESIGN OF ANY FIRE SUPPRESSION SYSTEM. AFTER PERFORMING A TEMPERATURE STUDY TO DETERMINE THE MAXIMUM AMBIENT TEMPERATURE AT THE FUSIBLE LINK LOCATION, THE CORRECT FUSIBLE LINK SHOULD BE SELECTED FROM THE FOLLOWING CHART:



TEMPERATURE RATING		MAX AMBIENT TEMPERATURE		LOAD RATING	
°F	°C	°F	°C	MIN	MAX
135°	57°	100°	38°	10 LBS	40 LBS
165°	74°	100°	38°	10 LBS	40 LBS
212°	100°	150°	66°	10 LBS	40 LBS
280°	138°	225°	107°	10 LBS	40 LBS
360°	182°	300°	149°	10 LBS	40 LBS
450°	232°	375°	191°	10 LBS	40 LBS
500°	260°	430°	217°	10 LBS	40 LBS

- UL LISTED TO UL 33, HEAT RESPONSIVE LINKS FOR FIRE PROTECTION SERVICE
- DATE STAMPED WITH YEAR OF MANUFACTURE
- CORROSION RESISTANT CONSTRUCTION
- STAINLESS STEEL COMPONENTS
- FLEXIBLE EYE HOOK CONNECTION
- 21/64" MOUNTING HOLE DIAMETER
- LISTED FOR USE IN ALL FIRE PROTECTION SYSTEMS



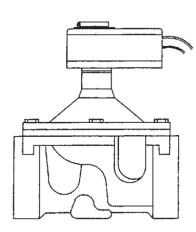


#### **ELECTRIC GAS VALVE DETAIL - TYPICAL**

ALL FIRE SYSTEMS IN THE DINING ROOM SHALL BE CONNECTED TO A SINGLE 1" ELECTRIC GAS VALVE AND RESET RELAY. ALL SYSTEMS SHALL BE WIRED IN SERIES SO THAT ANY SYSTEM DISCHARGE SHALL SHUT OFF THE GAS SUPPLY TO ALL COOKING TABLES.

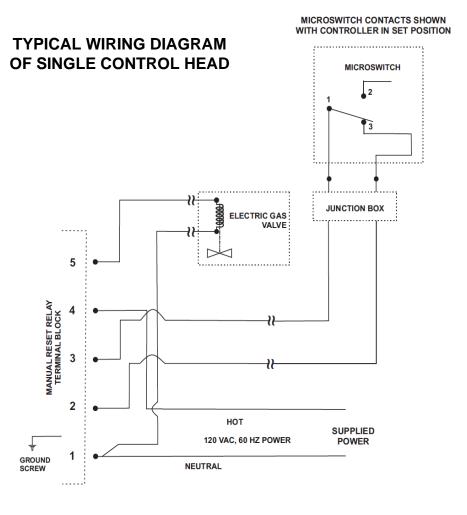
#### GAS VALVE SHALL BE INSTALLED BEFORE FIRST COOKING APPLIANCE - BY OTHERS





FUEL SUPPLY FOR ALL TABLES SHALL BE TIED INTO A SINGLE ELECTRICAL GAS VALVE WITH A SINGLE UL LISTED RESET RELAY

FIRE SYSTEM CONTROL HEADS SHALL BE WIRED IN SERIES TO ENSURE GAS SHUT OFF
TO ALL TABLES WHEN ANY CONTROL IS ACTIVATED





# Certificate of Completion The Issuance of this Document Certifies that

Chaug Chae

CL Frontier Fire Protection

Has successfully met the requirements of the Buckeye Fire Equipment Kitchen Alister Training Program and is hereby authorized to design, install, perform maintenance, and recharge the Buckeye Kitchen Alister Restaurant Cooking Area Fire Suppression System.

Educational Credit Hours Earned: 8

Certification Halid Hatil 11/07/2026

Reith Willett Training & System Bevelopment Manag Buchene Fire Kantament Company

