

KITCHEN FIRE SUPPRESSION SYSTEM

UL EX4658

BULLETIN NO.

SL-208

Date: March 2024

To: Authorized Amerex Distributors and OEMs

From: Sales and Product Management—Kitchen Systems

Re: KP protection for Henny Penny Open Fryers—Models: CFE 410 (1-Vat) & CFE 420 (2-Vat)

Note: This technical bulletin serves as an addition to the KP/ZD Design, Installation, Maintenance, & Recharge Manual P/N 20150 Amerex Restaurant Fire Suppression System dated February 14th, 2019. This technical bulletin is not meant to replace any requirements and/or limitations within, and the information in the bulletin will be added at the next revision. This bulletin defines a UL LISTED COVERAGE for the protection of the listed appliance(s).

Amerex is announcing the addition of an appliance-specific KP fire protection coverage for Henny Penny CFE 410/420 open fryers. This coverage is in addition to any applicable coverages already included in our manual. This coverage must be installed in accordance with all requirements of NFPA (National Fire Protection Association) 17A and NFPA 96. Per NFPA 96 Section 13.1.2.3.1 - An approved method shall be provided that will ensure that the appliance is returned to an approved design location.

This protection provides coverage for Henny Penny CFE 410/420 electric open fryers.

- **Only a KP475 cylinder may be used with this protection of these appliances. The KP475 is limited to a maximum of 12 one flow point nozzles. All existing single flow coverages can be used, where applicable.**
- **Coverage of each open fryer vat utilizes a Nozzle Y-Fitting Adapter (P/N 28147) with 2 X 11982 nozzles. Only 1 inch stainless steel pipe nipple allowed to attach nozzles to Nozzle Y-Fitting Adapter. No swivel fittings allowed with the Nozzle Y-Fitting Adapter.**
- **Maximum of two nozzles per nozzle branch. Only straight piping allowed.**

Nozzle Type: 11982

Nozzle Quantity: 2 attached to QTY (1) Nozzle Y-Fitting Adapter (P/N 28147)

Nozzle Height: 28 in to 31 in (711 mm to 787 mm) above top of vat opening.

Nozzle Location: 2 in (51 mm) x 4 in (102 mm) box centered over vat opening. See Figure 1 for details.

Cylinder: KP475 (12 maximum flow points).



KITCHEN FIRE SUPPRESSION SYSTEM

UL EX4658

BULLETIN NO.

SL-208

Fryer Specifications (Models: CFE 410 & CFE 420):

Vat Opening Size: 13 1/2 in x 16 in (343 mm x 406 mm)

Oil Capacity: 65 lbs. per vat

Input Rating: 22 kW per vat

Overall Dimensions:

<u>CFE 410</u>	<u>CFE 420</u>
Width: 17.38 in (441 mm)	33.38 in (848 mm)
Depth: 37.38 in (949 mm)	37.38 in (949 mm)
Height: 43.0 in (1092 mm)	43.0 in (1092 mm)

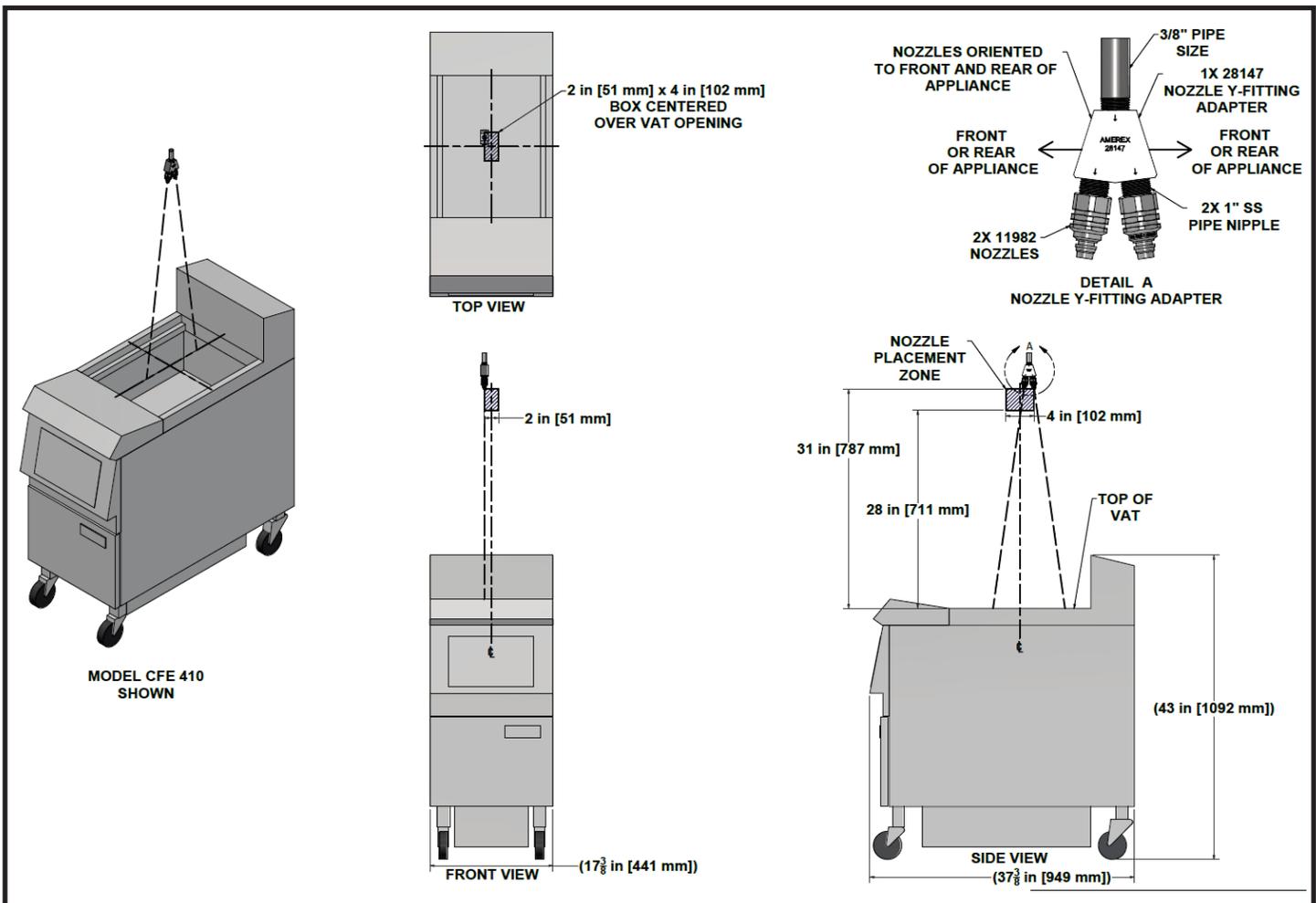


Figure 1: Nozzle Placement and Aim



KITCHEN FIRE SUPPRESSION SYSTEM

UL EX4658

BULLETIN NO.

SL-208

DISTRIBUTION PIPING LIMITS FOR PROTECTION OF MODELS CFE 410 & CFE 420

When designing a KP system to protect models CFE 410 and CFE 420 the following MINIMUM TOTAL SYSTEM PIPING must be used in accordance with the chart below:

MINIMUM PIPING REQUIREMENTS					
CYLINDER	MINIMUM LINEAR FEET	MINIMUM FLOW POINTS PER SYSTEM	MIN QTY TEES	MIN QTY ELBOWS	MIN QTY BUSHINGS
475	11	10	9	3	1

SUPPLY LINE LIMITATIONS:

All pipe and fittings running from the distributor block or the discharge fitting to the first tee.

CYLINDER FLOW POINTS	PIPE SIZE	MAXIMUM LINEAR FEET OF PIPE	MAX QTY TEES	MAX QTY ELBOWS	MAX QTY BUSHINGS
475-12	1/2"	25	1	5	1

NOTE: 1. The supply line has a maximum vertical rise above the distributor of 10 feet.

SUPPLY BRANCH LINE (including last nozzle branch) LIMITATIONS:

All pipe and fittings leaving the first splitting tee in the system and ending with the last nozzle in the last branch line. While the last nozzle branch is included in the piping limitations for the supply branch line, the limitation (pipe size and maximum length) for the nozzle branch lines apply to this portion of the supply branch line.

CYLINDER FLOW POINTS	PIPE SIZE	MAXIMUM LINEAR FEET OF PIPE	MAX QTY TEES	MAX QTY ELBOWS	MAX QTY BUSHINGS
475-12	3/8"	27	11	9	1

NOZZLE BRANCH LINE LIMITATIONS:

All pipe and fittings leading from the supply branch tee to a system nozzle.

CYLINDER FLOW POINTS	PIPE SIZE	MAXIMUM LINEAR FEET OF PIPE	MAX QTY TEES	MAX QTY ELBOWS	MAX QTY BUSHINGS
475-12	3/8"	32	4	17	0
MAX PER NOZZLE BRANCH		6	1	3	0