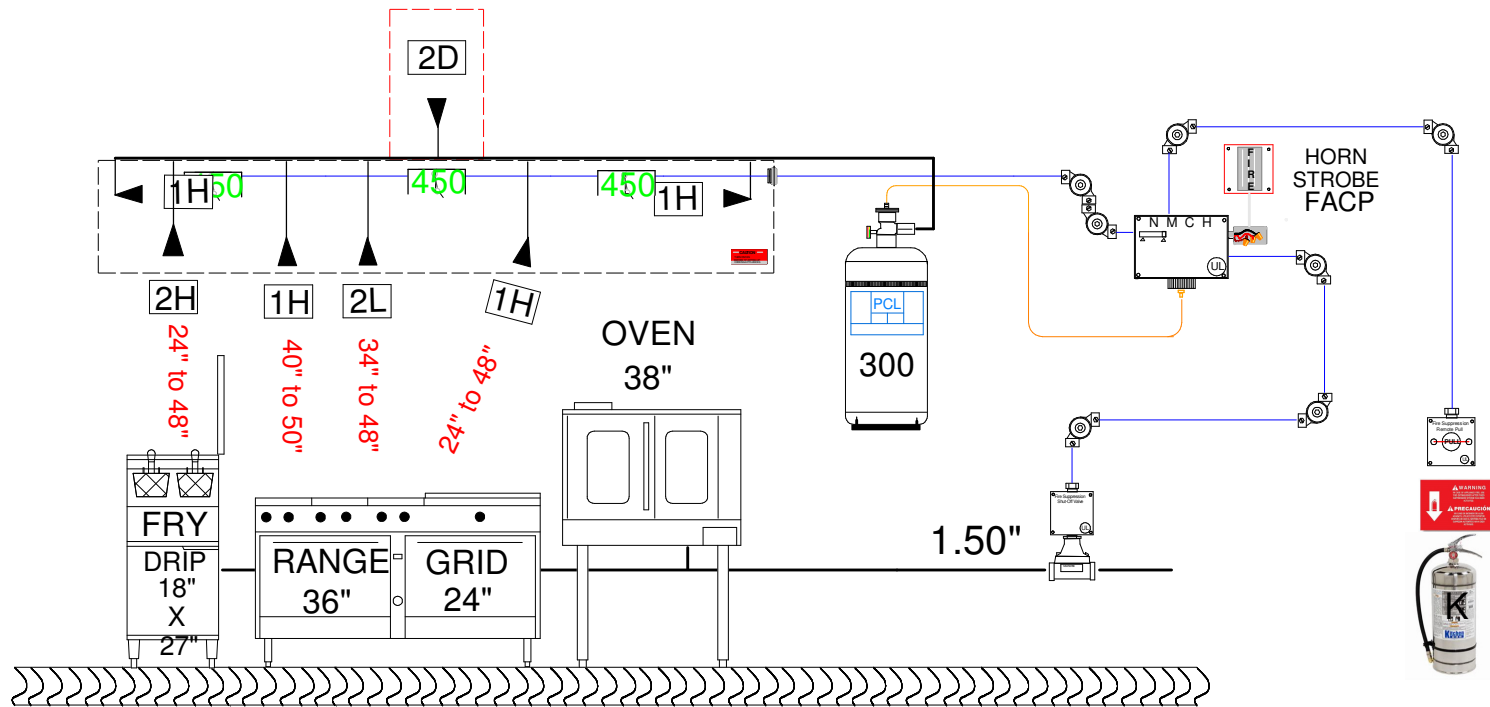
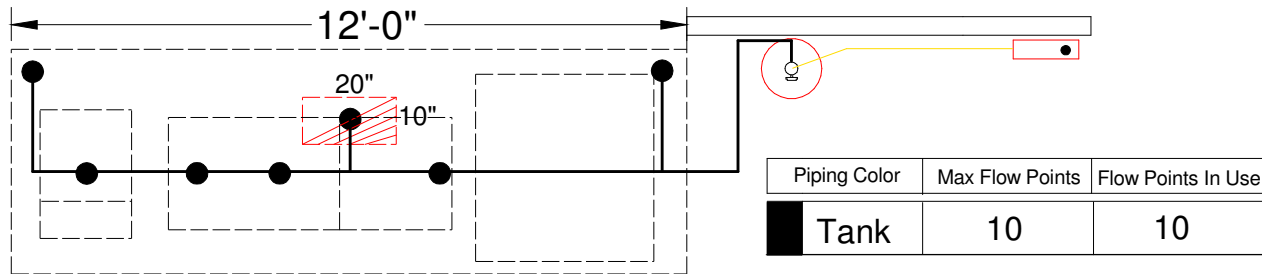


UPGRADING THE EXISTING FIRE SUPPRESSION SYSTEM TO UL300



Controls, pipe routings, remote pull station and gas valve locations are for reference only, locations may change.

- (1) ALL GAS AND ELECTRICAL APPLIANCES UNDER HOOD SHUT DOWN BY OTHERS.
- (2) EXHAUST FAN CONTINUES TO RUN ON DISCHARGE OF FIRE SYSTEM BY OTHERS.
- (3) FRESH AIR FAN SHUTS DOWN ON DISCHARGE OF FIRE SYSTEM BY OTHERS.
- (4) FIRE ALARM SYSTEM ACTIVATES IF BUILDING IS EQUIPPED WITH A FIRE ALARM BY OTHERS.
- (5) HOOD LIGHTS TURN OFF IF REQUIRED BY AHJ BY OTHERS.
- (6) REMOTE PULL STATION LOCATED 10' TO 20' FROM HOOD & 48" FROM FINISHED FLOOR
- (7) HVAC SYSTEM SHUTS DOWN WHEN FIRE SYSTEM IS ACTIVATED, IF REQUIRED BY AHJ BY OTHERS.
- (8) CLASS "K" FIRE EXTINGUISHER LOCATED NOT MORE THAN 30' FROM HOOD

Pye Barker Fire & Safety
832-101 Purser Drive - Raleigh, NC 27603

DRAWN BY: Robert Whitley
Robert Whitley

1/4" Scale



Oak Hill Living Center
9767 NC 210 North
Angier, NC 27501

SHEET NO. FP1 of 2

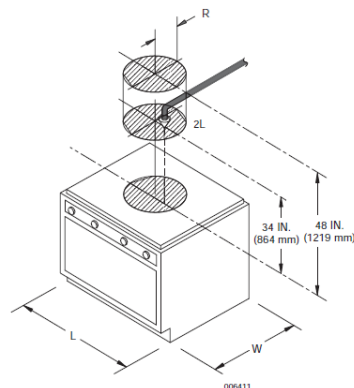
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Larger Burner Range (784 in.² (50580 mm²) maximum, 28 in. (711 mm) longest side maximum)

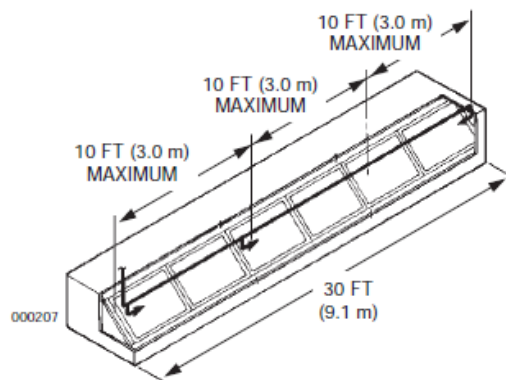
One nozzle is available for large range protection: High proximity.

The Model 2L Nozzle (Part No. 551027) is used for high proximity large range protection. This nozzle is a two flow nozzle. When using high proximity protection, the range cannot be under a backshelf. This nozzle must be located 34 in. to 48 in. (864 mm to 1219 mm) above the cooking surface, and aimed directly down within the mounting area, based on the hazard size, as described in the Nozzle Positioning Chart. See Figure 3-13.



Plenum Protection

The Model 1H nozzle (Part No. 551029) is a one flow nozzle used for plenum protection. A single 1H nozzle can protect a plenum (with single or V-bank filters) 10 ft (3.0 m) long by 4 ft (1.2 m) wide. Dividing the length into sections equal to or less than 10 ft (3.0 m) in length and positioning a nozzle at the start of each section can be done to protect longer plenums.



**KITCHEN
KNIGHT**



Small Range (336 in.² (21677 mm²) maximum, 28 in. (711 mm) longest side maximum). Use this when nozzle is center located.

Two nozzles are available for small range protection: High proximity and low proximity.

The Model 1H Nozzle (Part No. 551029) is used for high proximity small range protection. This nozzle is a one flow nozzle. When using high proximity protection, the range cannot be under a backshelf. This nozzle must be located on the front/back centerline of the appliance, 40 in. to 50 in. (1016 mm to 1270 mm) above the cooking surface, and aimed directly down within the "Nozzle Location Area" depending on the size of the hazard area. See Table 3-3: Nozzle Flexibility Placement below. See Figure 3-10.

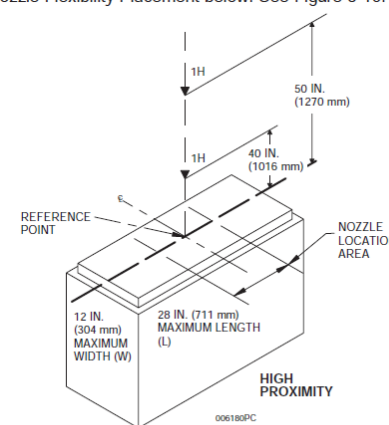


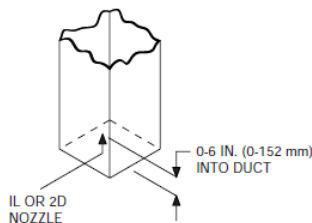
FIGURE 3-10

Duct Protection

The Model 1L Duct Nozzle (Part No. 551026) is a one flow nozzle. A single 1L nozzle is capable of protecting square or rectangular ducts with a maximum perimeter of 50 in. (1270 mm) (maximum side of 16 3/4 in. (425 mm)), with the diagonal being a maximum of 18 3/4 in. (476 mm). It can also protect a round duct with a maximum diameter of 16 in. (406 mm).

The Model 2D Duct Nozzle (Part No. 551038) is a two flow nozzle. A single 2D nozzle is capable of protecting square or rectangular ducts with a maximum perimeter of 100 in. (2540 mm), with the diagonal being a maximum of 37 3/8 in. (949 mm). It can also protect a round duct with a maximum diameter of 31 7/8 in. (809 mm).

When two 2D duct nozzles are used to protect a single duct, the cross sectional area of the duct must be divided into two equal symmetrical areas. The nozzle must then be installed on the centerline of the area it protects and aimed directly into the duct opening.



Fryers with Drip Board

The maximum single nozzle protection dimensions depend on the dimensions of the fry pot only.

For fry pots with maximum dimensions of 18 in. (457 mm) on the longest side and 324 in.² (20903 mm²) max. area, use overall dimensions of 27 3/4 in. (704 mm) on the longest side and 500 in.² (32258 mm²) max. area.

For fry pots with maximum dimensions exceeding 18 in. x 324 in.² (457 mm x 20903 mm²), but no greater than 19 1/2 in. (495 mm) on the longest side and 371 in.² (23935 mm²) max. area, use overall dimensions of 25 3/8 in. (644 mm) on the longest side and 495 in.² (31935 mm²) area.

Two nozzles are available for fryer protection: High proximity and low proximity.

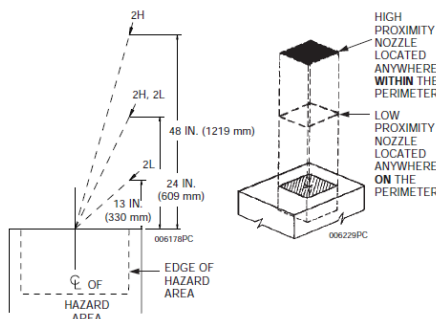
The Model 2H Nozzle (Part No. 551028) is used for high proximity fryer protection. This nozzle is a two flow nozzle. The nozzle must be located anywhere within the perimeter of the hazard area, 24 in. to 48 in. (610 mm to 1219 mm) above the cooking surface of the appliance and aimed at the center of the cooking area. See Figure 3-9.

Fryers without Drip Board (19 in. x 19 1/2 in. maximum) (482 mm x 495 mm)

Two nozzles are available for fryer protection: High proximity and low proximity.

The Model 2H nozzle is used for high proximity fryer protection. This nozzle is a two flow nozzle. The nozzle must be located anywhere within the perimeter of the hazard area, 24 in. to 48 in. (610 mm to 1219 mm) above the cooking surface of the appliance and aimed at the center of the cooking area. See Figure 3-8.

The Model 2L nozzle is used for low proximity fryer protection. This nozzle is a two flow nozzle. The nozzle must be located anywhere on the perimeter of the hazard area, 13 in. to 24 in. (330 mm to 609 mm) above the cooking surface of the appliance and aimed at the center of the cooking area. See Figure 3-8.



Pye Barker Fire & Safety
832-101 Purser Drive - Raleigh, NC 27603
DRAWN BY: Robert Whitley
Robert Whitley 1/4" Scale



Oak Hill Living Center
9767 NC 210 North
Angier, NC 27501

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