

AMEREX KITCHEN PROTECTION

Zone Defense Coverage



Kitchen Hazards Change, Protection Stays the Same

The Amerex KP Zone Defense Solution is the easiest and most effective way to design protection for your kitchen. Zones can be set up over any hazard areas and within those zones appliances can be moved or exchanged without a need for reconfiguration like traditional Appliance specific systems. An entire hood or just portions of a hood (Split Zone) can be covered by zone coverage. Additional flow points can be used for hazards such as salamanders, that are not covered by zone or flood configurations. No connection to the domestic water supply or building sprinkler system are needed.

The Zone Defense coverage zone is 34" (863mm) deep, with the end nozzles placed 6" (152mm) from the outside edges of the coverage zone, and spaced up to 20" (508mm) between and 46 to 51" above.

| ZONE DEFENSE TANK CONFIGURATIONS | | | | |
|----------------------------------|------------------------|--------------------------------------|--|---------------------------|
| Max Length of Zone (ft) | Max Length of Zone (m) | Tank Size, Quantity, and Flow Points | Additional Flow Points available at Max Length | # of Zone Nozzles (14178) |
| 4.33 | 1.32 | KP275—8 FP | 0 | 3 |
| 6.00 | 1.83 | KP375—11 FP | 1 | 4 |
| 9.33 | 2.84 | KP475—14 FP | 0 | 6 |
| 12.66 | 3.86 | KP375 x 2—22 FP | 1 | 8 |
| 20.00 | 6.09 | KP375 x 3—33 FP* | 2 | 13 |

* Requires 2 supply lines

PLENUM AND DUCT COVERAGE ALREADY ACCOUNTED FOR IN CALCULATIONS:

- Zone configurations work with all detection method by spacing the link brackets every 24" (610mm), PRM tubing and STRIKE LHD (linear heat detection) always work for zone detection because it detects on the entire length of the hood.
- One Plenum nozzle (11982) per 10' (3m) of hazard is accounted for in the maximum length calculations above.
- For Hoods under 9.33' (3m) the calculations above account for a single duct of less than 50 perimeter inches or 16" diameter (1 x 16416 nozzle using 1 Flow).
- For Hoods over 9.33' (3m) the calculations above account for either 2 ducts of 50 inches or 1 duct of 100 perimeter inches. (2 x 11983 nozzles using 3 Flows).
- If more duct or AP coverage is needed 20" (508mm) of zone could be removed. This removes a Zone Nozzle (#14178) and frees up two Flow Points.



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As a designer you only need to know three things for the perfect fire suppression recipe: **1.** Hood length, **2.** duct size, and **3.** Always specify Amerex!

Standard Link Based Zone Coverage Materials List

| Part # | | ZD-6' | ZD-9.25' | ZD-12.5' | ZD-20' |
|--------|---|------------|------------|-----------|-----------|
| | | KP375 Tank | KP475 Tank | 2 x KP375 | 3 x KP375 |
| 16920 | Bracket Mount for KP (275 375 475) | 1 | 1 | 2 | 3 |
| 13334 | KP Agent Cylinder 375 (11FP) | 1 | 0 | 2 | 3 |
| 17379 | KP Agent Cylinder 475 (14FP) | 0 | 1 | 0 | 0 |
| 14178 | Nozzle - Zone Defense - 2 Flow Points | 4 | 6 | 8 | 13 |
| 16416 | Nozzle - Duct - 1 Flow Point | 1 | 1 | 0 | 0 |
| 11982 | Nozzle - Appliance / Plenum - 1 Flow Point | 1 | 1 | 2 | 2 |
| 11984 | Nozzle 1.5 flow duct | 0 | 0 | 2 | 2 |
| 12276 | Quick Seal - 3/8" Pipe | 2 | 2 | 2 | 4 |
| 22279 | Quick Seal Corner Pulley Adapter - Fits CP5 | 1 | 1 | 1 | 1 |
| 12276 | Quick Seal - 3/8" Pipe for each ZD nozzle drop | 4 | 6 | 8 | 13 |
| 12508 | Detector (includes bracket, linkage and conduit fittings) | 3 | 5 | 7 | 10 |
| 12328 | Fusible Link-360 degree F. ("K") | 3 | 5 | 7 | 10 |
| 18001 | MRM with enclosure (stainless) | 1 | 1 | 1 | 1 |
| 10173 | Vent Check | 1 | 1 | 1 | 1 |
| 12856 | Cylinder, Nitrogen-10 cu. in. | 1 | 1 | 1 | 1 |
| 12854 | Actuation Hose (N2-1/4" x 16") | 1 | 1 | 2 | 3 |
| 16444 | Corner Pulley-CP5 Brooks Sytle | 8 | 8 | 10 | 10 |
| 21481 | Manual Pull Station (surface or flush) | 1 | 1 | 1 | 1 |
| | Max Hood length of ZD Kit (feet) | 6 | 9 | 13 | 20 |
| | Nozzle Drop Spacing (in) | 20 | 20 | 20 | 19 |
| | Flow Points used (nozzles) | 10 | 14 | 21 | 31 |
| | Flow Points available (tanks) | 11 | 14 | 22 | 33 |
| | Spare FP (for other appliances not covered by ZD) | 1 | 0 | 1 | 2 |

3D models and REVIT Files also available on SPECIFI: <https://us.specifiglobal.com/>

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