



CITY OF PHILADELPHIA
DEPARTMENT OF LICENSES & INSPECTIONS
Construction Services Division
Municipal Services Building - Concourse Level
1401 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19102

EZ PERMIT STANDARDS
KITCHEN FIRE SUPPRESSION SYSTEM

For the Installation of New Wet Chemical Kitchen
Fire Suppression System
Revised 6/26 (2021-NFPA 17A)

EZ Permit Standards: Kitchen Fire Suppression System

[EZ Permit Standard **shall not** relieve FSS Contractor from complying with **all** applicable provisions of 2021 NFPA, Standard 17A.]

Obtain permits for the installation of new wet chemical kitchen fire suppression system without submitting plans by meeting the Conditions and Design Limitations below. Any deviations from this permit standard will result in permit revocation.

Construction Requirements (as per 2021 NFPA, Standard 17A)

- Separate kitchen hood installation permit **shall be required** prior to issuance of EZ Kitchen FSS Permit.
- Separate electrical permit shall be required for fire alarm interconnections.
- Each protected cooking appliance, individual hood, and branch exhaust duct directly connected to the hood shall be protected by the system.
- All system components shall be listed and labeled, and installed in accordance to the manufacturer's instructions.
- Wet chemical suppression system shall comply with Standard UL300 & UL1254.
- All sprinklers used for the protection of fryers shall be tested in accordance to UL199E.
- Piping, tubing, hose, and fitting materials and types shall be in accordance with manufacturer's listed installation and maintenance manual.
- All piping, tubing, hose, and fitting materials and types shall be of non-combustible material having physical & chemical characteristics compatible with wet chemical agent solution.
- Galvanized piping **shall not** be used unless specifically listed with system specifications.
- All electrical wiring and equipment shall be installed as per 2017 NFPA, Standard 70.
- All wet chemical containers shall be located where accessible for inspection, maintenance and recharge.
- All wet chemical containers shall be located near the hazard(s) protected, but not where they will be exposed to a fire, explosion, mechanical/chemical damage, or any other damage.
- Penetrations of ducts and hoods by pipe and other conduits shall have a liquid-tight continuous external weld or be sealed by listed devices.

Nozzles

- Discharge nozzles shall be of non-combustible, corrosion resistant materials.
- Nozzles shall be permanently marked for identification.
- All nozzles to be provided with caps or other suitable devices and shall blow off, blow out, or blow open upon agent discharge.
- Nozzles shall be provided with an internal strainer or a separate listed strainer located immediately upstream of the nozzle.

Actuation

- Both automatic and manual actuation device for the system shall be provided for each system.
- Manual actuation device shall be located at or near the means of egress from the cooking area.
 - Distance from Kitchen Exhaust System:
 - Min. 10'-0" and Max. 20'-0"
 - Height Above Finished Floor:
 - Min. 42" and Max. 48"
 - Max. Operation Force: 40-lbs
 - Max. Movement for Operation: 14"
- Operating instructions shall be provided for manual actuators.
- System shall be interconnected with the fuel/electrical supply so that actuation of system will automatically shut down fuel/electrical power supply to the cooking equipment and other gas appliances located under exhaust hood.
- Reset of the fuel/electrical supply shall be manual. Electrical gas valves must be installed with a manual reset relay.
- Extinguishing agent must protect exhaust system from ignition sources within common exhaust duct, including in-line fans and in-duct electrostatic precipitators.
- If fire alarms are provided in the building, interconnection to the fire alarms shall be made as per 2019 NFPA, Standard 72. All electrical wiring shall be installed in accordance with 2020 NFPA 70.
- An audio/visual indicator shall be provided showing that the system is in a ready condition or in need of recharging.



CITY OF PHILADELPHIA
 DEPARTMENT OF LICENSES & INSPECTIONS
 Construction Services Division
 Municipal Services Building - Concourse Level
 1401 John F. Kennedy Boulevard
 Philadelphia, Pennsylvania 19102

EZ PERMIT STANDARDS
KITCHEN FIRE SUPPRESSION SYSTEM

For the Installation of New Wet Chemical Kitchen
 Fire Suppression System
 Revised 6/26 (2021-NFPA 17A)

Fusible links

- At least one fusible link/heat detector shall be installed at or within 12-inch of each exhaust duct opening.
- To be provided above each protected cooking appliance in accordance to the manufacturer’s listing.
- Maximum distance of fusible link/heat detector installations not to exceed 36-inches, except per manufacturer’s specifications.
- Fusible links/heat detectors shall also be located at each branch duct-to-common duct connection. Access panel to be installed per 2021 NFPA 96 to allow for servicing where the detector is not serviceable from the branch connection to the exhaust hood.

Testing

- Suppression system piping to be physically checked for tightness prior to piping integrity testing.
- Piping integrity test to be performed under normal operating pressure of the extinguishing system.
- Functional testing to be performed, to include automatic detection system, manual release devices, gas shut-off, shut-off of make-up air supplied internally to a hood, and electrical power shutdown.
- Completed system shall be tested by trained personnel as required by manufacturer’s listed installation and maintenance manual.
- Certification of accepted and tested fire suppression system shall be provided to the inspector.

Location of Work (Exact Address): _____

Location of Work Within the Building: _____

Specify type and size of hazard, and the TYCO ANSUL R-102 nozzle part number, with quantity of nozzles and flow points.

Item No.	Hazard	Size	Part Number	Flow Points	Quantity	Total Flow Points
1	Duct					
2	Plenum					
3						
4						
5						
6						
7						
8						
Total Flow Points=						

Number/Size of Cylinders: _____

Additional Comment:

Kitchen Hood AP# _____

Applicant’s Signature: _____