AMM Risk Management Seminar April 5, 2023









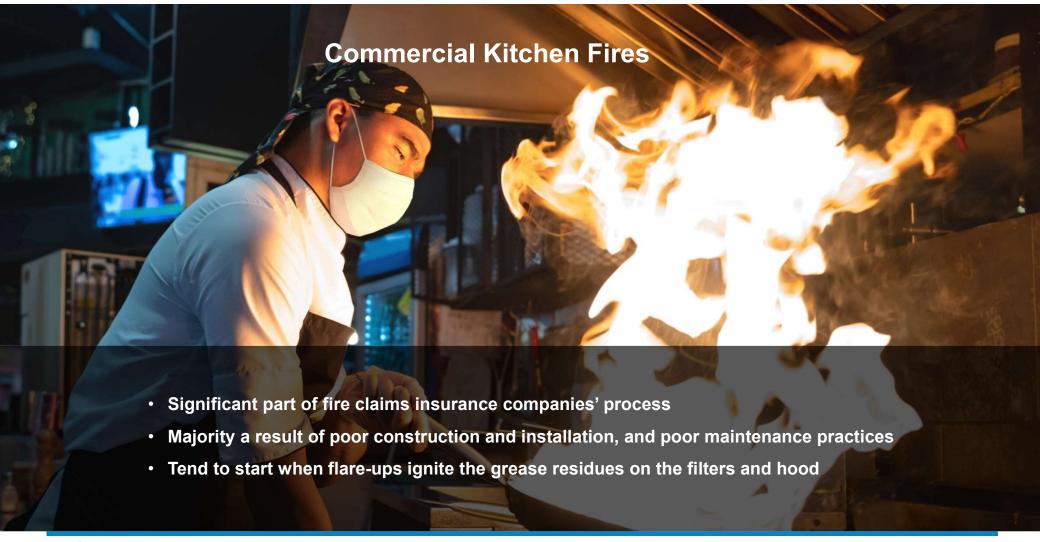


Commercial Kitchens | Fire Protection Basics



















Cooking Fuels



Gas



Electric Systems



Solid Fuels





Appliances

- Oven
- Grill/Griddle
- Deep Fat Fryer
- Stove/Range
- Char Broiler
- Salamander

- Pizza Oven
- Wok
- Rotisserie
- Other
- Self-Contained Deep Fat Fryer







Hoods

- Most visible component
- Capture heat and effluents
- Primary filtration system
- Size and make depend on:
 - Number of appliances
 - Type of appliances
- Usually where the exhaust cleaning sticker is located







Fire Extinguishing

- UL-300 and ULC/1254.6
- NFPA 96 and 17A Fire Extinguishing System Requirements
- Generally includes:
 - Pre-engineered fixed pipe fire extinguishing system (Primary Protection)
 - Portable Fire Extinguishers (Secondary Protection)







Fire Protection Requirements

- Wet chemical installation
 - Dry chemical no longer approved!
- Emergency manual operation
- System approved by UL-300/ULC 1254.6
- Inspected and serviced semi-annually
- Class "K" Fire Extinguisher







Exhaust Ducts

- Welded, metal ductwork
- Similar to the drainpipe of our bathtub, only instead of water it carries heat and vapor
- Must be liquid-tight (grease-tight)





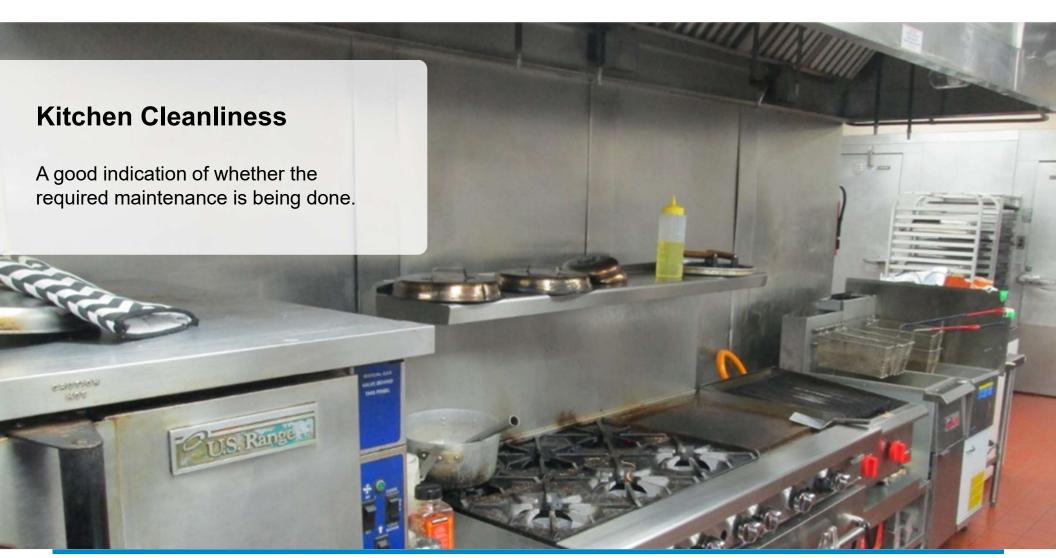


Exhaust Ducts - questions we need to ask:

- Do they discharge directly outside?
- Do they pass through combustible materials?
- Do they extend through the roof?
- Are they protected by a fixed extinguishing system? If so, what is the year of installation?
- Are the ducts cleaned at least semi-annually?
- What is the name of the duct cleaning company, and date of last cleaning?





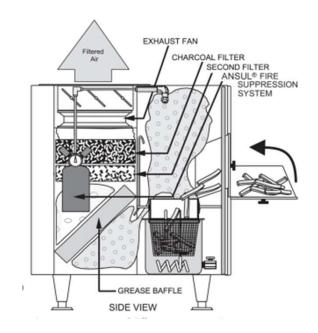






Fryer Alternatives

- Many options involving counter top self-contained, ventless deep fryers
 - Must contain a wet chemical extinguishing system
 - Must still be serviced on a semi annual basis by a qualified technician
- Example wording in the Perfect Fryer owner manual
 - The PFS automatic extinguisher must be inspected monthly by the owner/operator and semi-annually by authorized service personnel as per NFPA 17A. It is important that a maintenance program is set up with a local fire service company to ensure that local jurisdictional codes are being met.







Classification of Fires

- Class A fires in ordinary combustible materials, such as wood, cloth, paper, rubber, and many plastics.
- **Class B** fires in flammable liquids, combustible liquids, petroleum greases, tars, oils, oil-based paints, solvents, lacquers, alcohols, and flammable gases.
- Class C fires that involve energized electrical equipment.
- Class D fires in combustible metals, such as magnesium, titanium, zirconium, sodium, lithium, and potassium.
- Class K fires in cooking appliances that involve combustible cooking media (vegetable or animal oils and fats).





Wet Chemical Extinguishers

- In recent years
 - The development of high-efficiency cooking equipment with high-energy input rates
 - Widespread use of vegetable oils with high autoignition temperatures
- The wet chemical extinguisher was the first extinguisher to qualify to the new Class K requirements.
 - · Rapid fire extinguishment,
 - Thick foam blanket
 - · Improved visibility
 - · Minimizing cleanup afterward







Service

- Fire extinguishers require annual inspection by a qualified contractor
- Extinguishers should be tagged with the date of last service and company
- Western Financial Group has compiled a database of fire extinguisher servicing and/or supply companies to provide clients



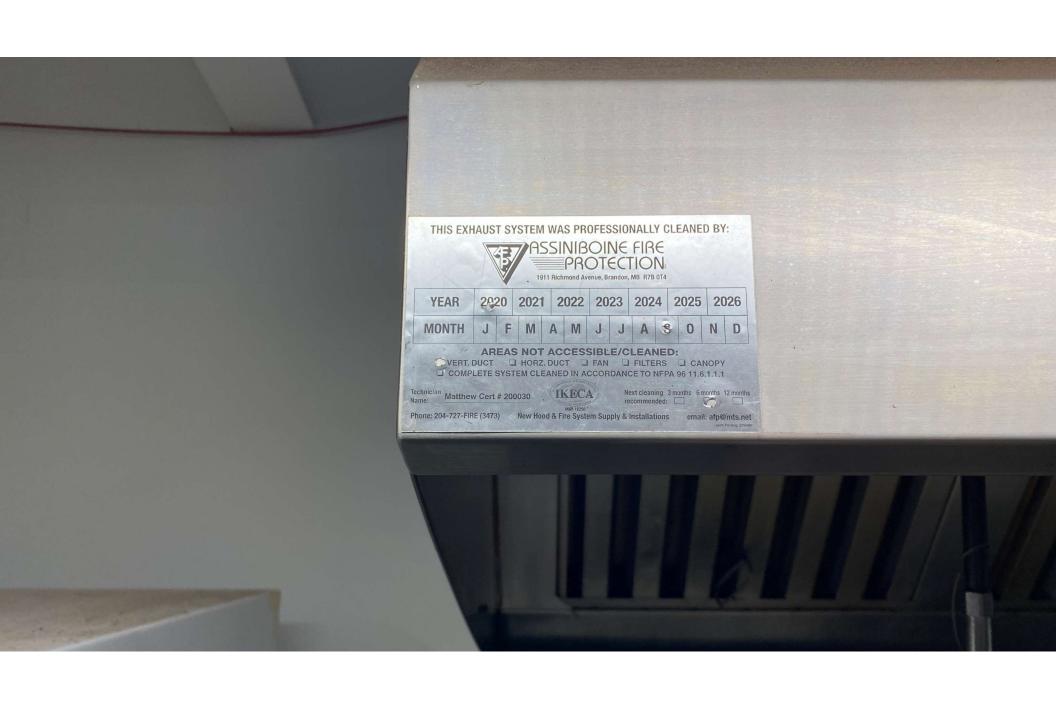






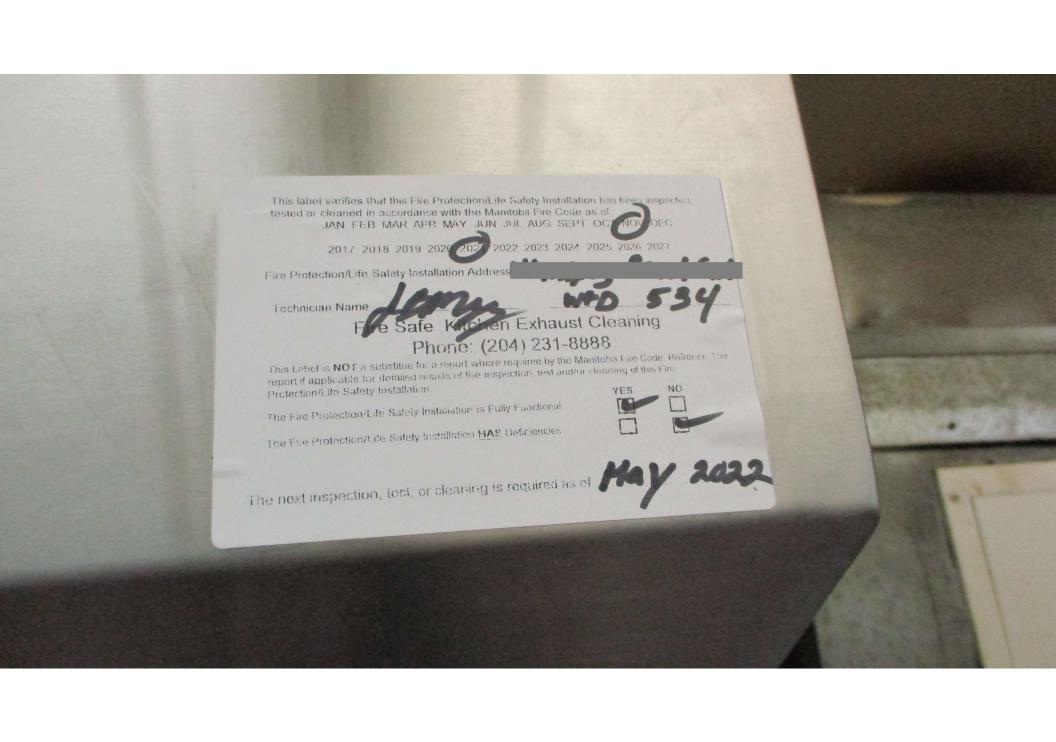












TO MANUALLY ACTUATE SYSTEM: PULL RING ON REMOTE PULL STATION

FOR MAINTENANCE, SEE TANK LABEL ANSUL MARINETTE, WI 54143.2542



FIRED

SERIAL NO. R 101808



EQUIPMENT LIMITED

800 MARION ST. WPG. MB 204-233-6083 www.abcfireandsafety.com

# 16 Cofety Installation has been inspected, tested of	or
This label verifies that this Fire Protection/Life Safety Installation has been inspected, tested of	
This label verifies that this the Manitoba Fire Code as of:	

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031

Fire Protection/Life Safety/Installation address

Technician Name Please Print Signature

1666 Lic. #



ABC Fire & Safety Equipment Ltd. 800 Marion St., Winnipeg, MB R2J 0K4 (204) 233-6083 800-665-1250

This label is NOT a substitute for a report where required by the Manitoba Fire Code. Reference the report if applicable for detailed results of the inspection, test, and/or cleaning of this Fire Protection/Life Safety Installation.

The Fire Protection/Life Safety Installation is fully functional

The Fire Protection/Life Safety Installation has deficiencis

A

The next inspection, test or cleaning is required as of: _

2021 Y-Y-Y-Y



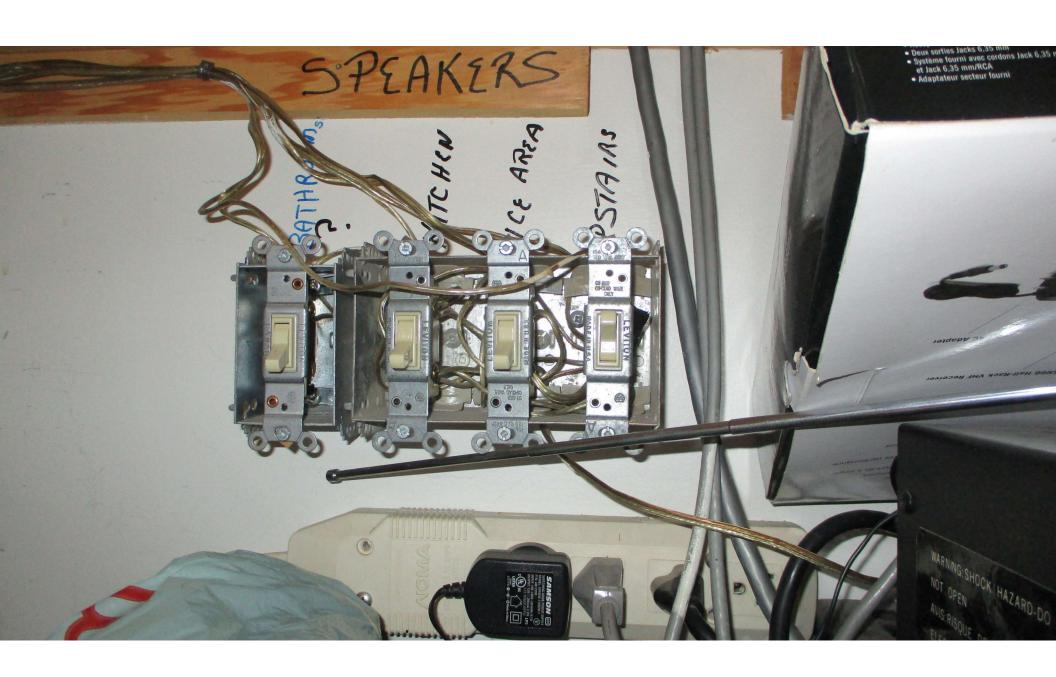




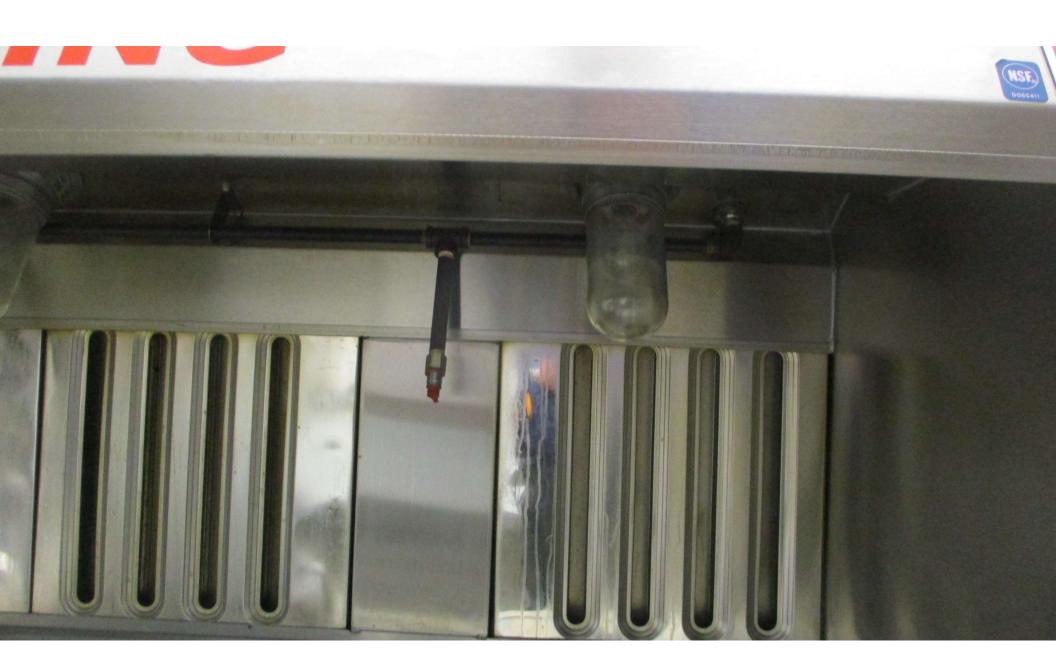


















Questions?

Thank you for your time!



