CORE™

FIRE PROTECTION

The new CORE Fire Protection system features a superior water-based fire suppression system for all critical areas including cooking appliances, hood plenum and exhaust duct.

Visit our website to watch a video product demo:
→ www.captiveaire.com/core/

✓ Robust

Fire protection is provided via water-based Total Flood Protection & Duct and Plenum Protection

✓ Reliable

Electric Fire detection that results in activation every time

✓ Real-Time

Electronic supervision, monitoring and communication of the live system

Total Flood Appliance Protection

- Total flood coverage allows for flexibility in appliance type and location under the hoods
- Simplified piping and nozzle placement

Duct & Plenum Protection

- Daily self cleaning to reduce fire hazard
- Unlimited supply of water to ensure the fire is extinguished
- Decreased maintenance cost

The CORE Protection Fire System is ETL Listed under Report number 3132231SAT-004 to UL Standard 300 and ULC/ORD-C1254.6-1995; meets requirements of NFPA 96 (Standard for the Installation of Equipment for the Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment); NFPA 17A (Standard on Wet Chemical Extinguishing Systems).

4641 PARAGON PARK RD. RALEIGH, NC 27616 | P.800.334.9256 | WWW.CAPTIVEAIRE.COM/CORE

CAPTIVEAIRE

FIRE PROTECTION

PRODUCT SPECIFICATION

Product Application:

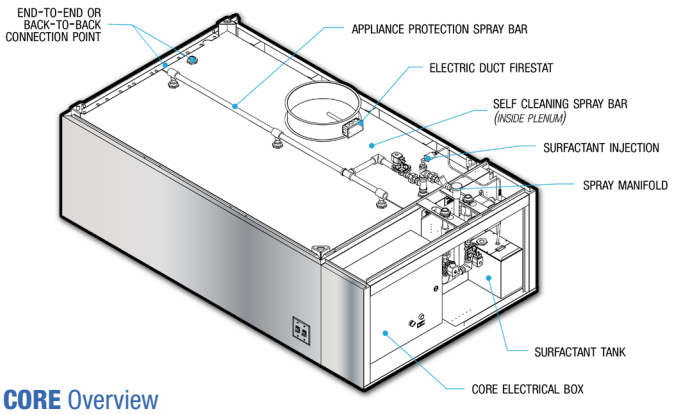
The prevention and defense of fire in commercial kitchens is critical. **CORE** Protection is a water-based fire suppression system designed to provide primary coverage for hood plenum, grease ductwork and cooking appliances.

Product Construction:

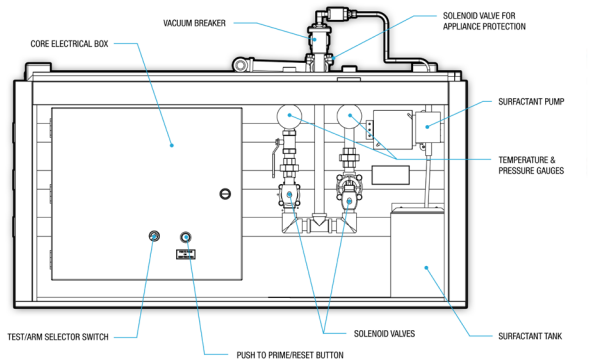
- The **CORE** Protection system is a water-based fire suppression system for use in commercial kitchens. The system is ETL listed to UL Standard 300 and ULC/ORD-C1254.6-1995. The CORE Protection system can be mounted in the integral cabinet on the end of the hood or offered as a wall-mount package.
- A microprocessor-based control board provides all necessary monitoring, timing and supervision functions required for the reliable operation of the system. All devices that are critical for proper operation are supervised and includes the electric thermal detector(s), manual pull station(s) and electric water solenoids. The control board also detects faults within the system and will alert the user of the specific fault. With the electric fire detection, a battery backup system is provided. The battery powers the automatic detection and pull station circuits, as well as monitoring those devices.
- The system is capable of automatic detection and actuation and/or remote manual actuation. The detection portion of the fire suppression system allows for automatic detection by means of an electric thermal detector(s) located in the hood duct connection. The Fenwal Firestat is a device installed in the hood's duct connection that measures temperature. The standard temperature setting is 360°F. If a temperature higher then the set point is sensed, the Firestat contacts will close and energize the fire system. The pull station is provided to allow for manual activation of the fire system.
- The basic system consists of Total Flood Protection for appliance coverage and Duct & Plenum Coverage. The plenum protection spray bar extends the full length of the hood immediately behind the filters offering the water-based protection for the duct and plenum. The plenum bar is 3⁄4" brass fittings with nozzles that spray directly toward the back of the hood. Nozzle(s) covering the riser(s) will be 1⁄4" NPT and are a wide angle, high flow nozzle. All fittings and pipe used in the manifold and plenum coverage will be brass. This system is listed for unlimited duct protection for up to a 100-inch perimeter duct.
- The Total Flood Protection line runs the entire length of the hood and is aligned with the hazard zone of the appliances. The Total Flood Protection line is 3⁄4" black iron fittings with 3/8" drops. Fittings and pipe used for the total flood protection will be either black iron, stainless steel, or chrome plated. The extinguishing agent for the CORE Protection System is water injected with surfactant. Upon fire system activation, water is sprayed along the length of the plenum and into the duct as well as along the appliance hazard zone underneath the hood.
- Flow rate for the hood, when in a fire condition, would be approximately 1.5 gallons per minute per foot of hood. Operating pressure for water lines, both hot water and dedicated line, is 30 to 70 psi.

CORE Protection includes:

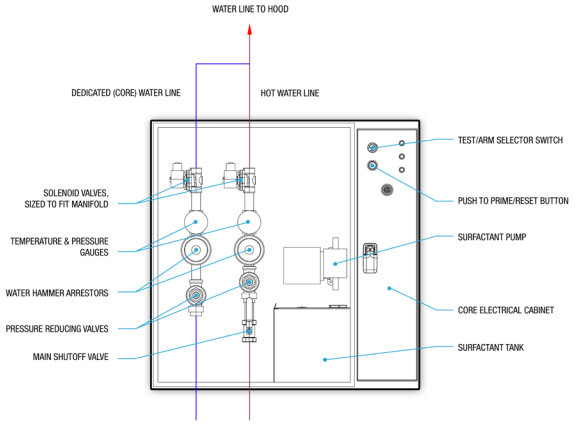
- Duct and Plenum Spray Bar
- Total Flood Protection Nozzles and Spray Bar
- Electric Battery Backup System
- **CORE** Circuit Board
- Electric Duct Firestat
- Supervised Loop
- Surfactant Tank and Pump
- Spray Manifold
- Remote Pull Station



CORE Overview



CORE Utility Cabinet



CORE Wall Mount