



HELIX™

QUICK RESPONSE - TOTAL FLOOD PCU FIRE PROTECTION



Quality is Behind the Diamond



POLLUTION CONTROL UNIT (PCU) FIRE SUPPRESSION SYSTEM

The HELIX™ Fire Suppression System is a unique pre-engineered system designed to utilize electric detection and actuation interfaced with the STRIKE™ Electronic Control System (ECS). The STRIKE ECS fully supervises all system circuits, ensuring functionality, which includes constant monitoring of agent cylinder pressure. Because PCU fires require quick response,

the HELIX system's detection network is designed using continuous linear heat detection. The HELIX system's configuration also minimizes nozzles, which effectively reduces the number of agent cylinders and distribution network components, making HELIX cost effective without compromising performance. The HELIX agent distribution network is easy to install outside the

cramped interior space of a PCU, using cut-to-length hydraulic hose. This PCU system operates either automatically if actuated by a detector or manually if actuated by a pull station.

SUPPRESSION AGENT

The fire-fighting agent found in the HELIX system is Amerex ABC Dry Chemical Agent. This agent is extremely effective for knocking down an intense fire by flooding the entire PCU, covering all filters. Dry Chemical also has a considerable operating temperature range of -65 °F to 150 °F (-54 °C to 66 °C), which is beneficial for the typical outdoor and often harsh environments in which PCUs are installed.

AGENT CYLINDERS

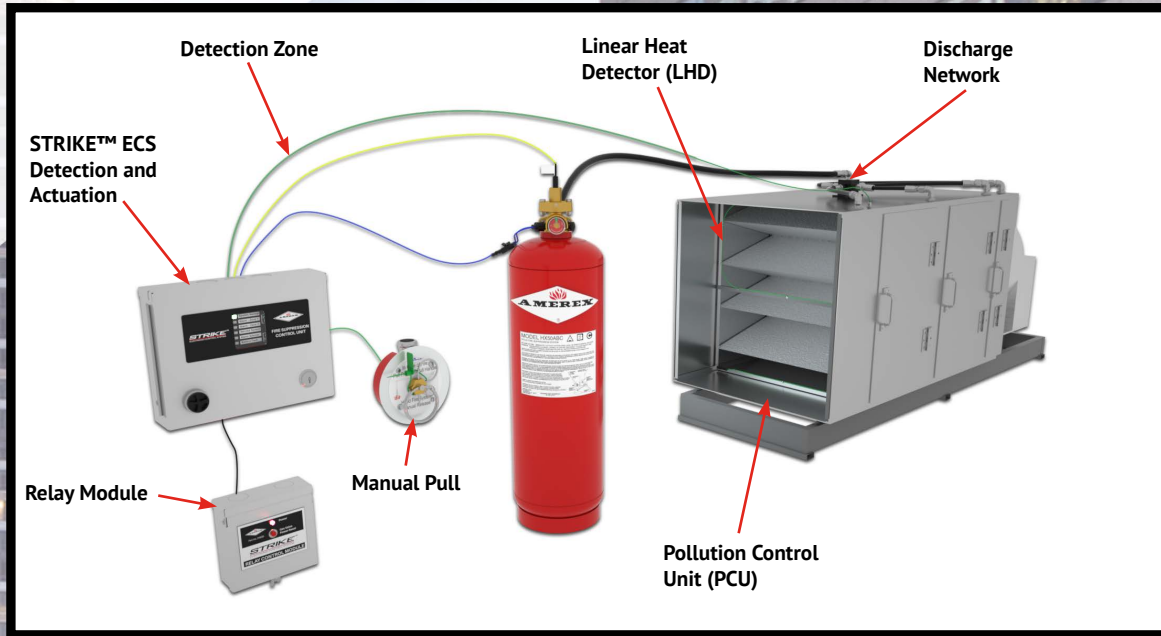
Two different stored-pressure agent cylinders can be used with the HELIX system. Agent cylinders are pressurized with nitrogen gas to 350 psi (2,413 kPa) at 70 °F (21 °C). HX25 and HX50 agent cylinders are also equipped with a pressure switch that is routed back to the STRIKE ECS for continual pressure monitoring.

FEATURES & BENEFITS

- Cost Effective
- High Performance
- Quick Response
- Continuous Detection
- Hydraulic Hose Distribution
- Fewer Nozzles and Components
- Constant Pressure Monitoring
- ABC Dry Chemical Agent
- Total Flood
- Easy to Install

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SYSTEM LAYOUT



Agent Distribution Network

The HELIX distribution network is designed for easy and efficient installation. The system network's plumbing is comprised of 1/2" (12.7 mm) and 3/4" (19.1 mm) wire-braided rubber hydraulic hose and corresponding fittings. A distributor block with a 3/4" NPT inlet and four (4) 1/2" NPT outlets is used to distribute the flow of dry chemical agent to multiple nozzles.

STRIKE™
ELECTRONIC CONTROL SYSTEM



Detection Network

Electronic detection consists of flexible linear heat detection (LHD) cables with a 356 °F (185°C) set point and a maximum ambient operating temperature of 250 °F (121 °C). The LHD is capable of sensing an overheat condition at any location along its routed path.

The AMEREX STRIKE ECS supports up to two detection circuits. Multiple detection cables may be used in a single circuit and can be connected in series.

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