

FirePro V Gaseous Extinguishing Systems

INERT GASES

- Extinguish fire by removing oxygen.
- Health hazard to people due to depleted oxygen.
- Cannot liquefy – highly pressurised.
- Area to be protected needs to be pressure relieved, otherwise can cause severe damage.
- Independent reports show that the noise level (90 – 120 dB) created due to the discharging process can cause severe damage to Hard Disc Drives (HDD).
- Long discharge times (1 – 3 min) compared to FirePro (3 – 20 sec).
- 1 Unit FirePro = 40 Units Inert Gas (required quantity).

HALOCARBONS

- Gas at room temperature and pressure.
- Extinguish fire by heat absorption and some chemical reaction effect.
- In the progress of being banned, EU Regulation (EC) No. 842/2006.
- At high temperature gives off HF, CO – highly toxic.
- Potential significant corrosion on electrical components.
- Can cause frost bite upon contact.
- 1 Unit FirePro = 6 - 7.5 Units Halocarbons (required quantity).

FLUORINATED KETONES

- Liquid which rapidly gasifies.
- Thermal decomposition producing HF and COF₂ – highly toxic.
- 1 Unit FirePro = 6 – 9 Units FK (required quantity).

CO₂

- Highly pressurised.
- Toxic.
- Can shatter windows due to pressure.
- Used for Classes of fire, B and C. Not suitable for Class A fires – re-ignition.
- Can cause frost bite upon contact.
- 1 Unit FirePro = 15.5 Units CO₂ (required quantity).

DISADVANTAGES OF INSTALLATION AND MAINTENANCE OF GES V FIREPRO

- Valves, piping, robust supports, brackets.
- Vigorous and periodic testing, maintenance.
- Re-filling.
- More space required.
- Restrictions in certain applications due to nature of product and impractical installation.
- Longer installation times and higher installation costs.